

TEMO

Please contact your local appointed
dealers for free catalogs



TEMO

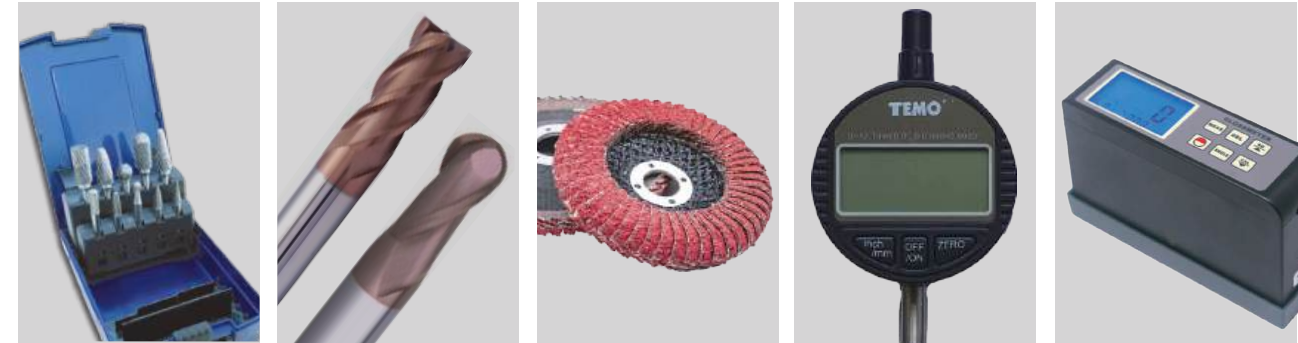
INDUSTRIAL SUPPLIES

MALAYSIA EDITION 4



TEMO[®]
Industrial Supplies

EDITION 4

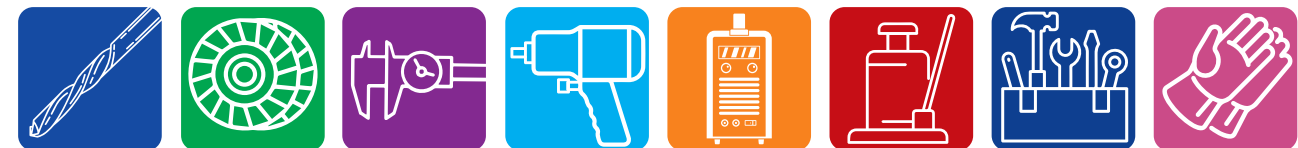


Products & Solutions



Temo and Temotuf are both trademarks exclusively for industrial needs

TEMOTUF[™] **QUALITY PAR EXCELLENCE**



www.temotuf.com



Product Range Expansion Announcement: TEMOTUF is now available

Dear Business Partners,

We are excited to announce that we are evolving. Our newly expanded products is called TEMOTUF, marking a significant step in our journey towards excellence. This expansion effort reflects our commitment to delivering top-quality industrial tools and equipment.

The following are key changes that we would like you to note:

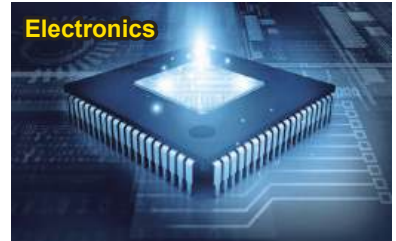
- Expanded Product Range
 - TEMOTUF will feature a new and expanded range of high-quality products, offering our clients even more options to meet their needs.
- Enhanced Product Quality
 - We have improved the quality of our existing products, ensuring enhanced performance and reliability for all products under TEMOTUF.
- Revised Order Codes
 - To reflect the new expanded product , all expanded TEMOTUF products that listed in the catalogs will have revised order codes.
 - Example of a revised order code:
 - Old TEMO Code: **TM**ME01-123456A
 - New TEMOTUF Code: **TF**ME01-123456A
- Compliance with New Order Codes
 - All new and future orders placed by distributors and dealers must comply with the new order codes as listed in the TEMOTUF product catalogs.
- Grace Period for Transition
 - A two-year grace period will be provided from the date of printing of the new TEMOTUF product catalogs. This period is intended to facilitate a smooth transition from old to new Order Codes for all parties involved.
- Contact Us for Queries
 - If you have any questions or require further clarification regarding these changes, please do not hesitate to contact us. Our team is here to assist you in ensuring a seamless transition.
 - We invite you to explore our new product range and experience the enhanced capabilities and benefits firsthand. Please visit our website www.temotuf.com

We appreciate your continued support and cooperation as we embark on this exciting new chapter. Together, we will achieve even greater success.

Thank you,
The TEMOTUF Team

TEMOTUF TM **QUALITY PAR EXCELLENCE**

TEMOTUF™ We are serving...



Index

** Searching specific pages by the Product Groups which sorted in alphabetically first, then numerically

To search our own branded products -



1) Cutting Tools

Page1~80

Description	Order Code	Page No	Description	Order Code	Page No
Carbide Burrs	TFCB03 / TFCB88 / TFCB00 / TFCB06 / TFCB09 / TFCB01 / TFCB02 / TFCB04 / TFCB05 / TFCB07 / TFCB08 / TFCB10 / TFCB11 / TFCB12 / TFCB13 / TFCB40 / TFCB41 / TFCB42 / TFCB50 / TFCB60 / TFCB89	P6 ~ P13	Tap & Die Sets	TFTR70 / TFTR71 / TFTR75 / TFTR88	P33
Jobber Drills	TFDR10 / TFDR11 / TFDR20 / TFDR30 / TFDR11 / TFOW06	P14 ~ P15	Core Drills	TFCD10 / TFCD20	P34 ~ P36
End Mill	TFDR40 / TFCT10 / TFCT16 / TFCT17 / TFCT18 / TFCT20 / TFCT70	P16 ~ P18	Screw Clamping	TFCD70 / TFCD71 / TFCD72	P37
U-Drill	TFCT01	P19	Holesaws	TFCD30 / TFCD40 / TFCD50	P37 ~ P39
Center Drill	TFDR00 / TFDR50 / TFDR51 / TFDR52	P20 ~ P22	Inserts	TFCD55	P40 ~ P41
Step Drill	TFDR60 / TFDR61 / TFDR62		Toolholders	TFCT40 / TFCT41 / TFCT42 / TFTH01 / TFTH02 / TFTH03 / TFTH04 / TFTH05 / TFTH06 / TFTH07 / TFTH08 / TFTH09 / TFTH10 / TFTH11 / TFTH12 / TFTH13 / TFTH14 / TFTH15 / TFTH16 / TFTH17 / TFTH18 / TFTH19 / TFTH20 / TFTH21 / TFTH22 / TFTH23 / TFTH24 / TFTH50 / TFTH51 / TFTH52 / TFTH52 / TFTH53 / TFTH53 / TFTH54 / TFTH55 / TFTH56 / TFTH57 / TFTH58 / TFTH59 / TFTH60 / TFTH61 / TFTH62 / TFTH63	P42 ~ P75
Sheet Metal Drill	TFDR65		Chucks and Adapters	TFAC01 / TFAC04 / TFAC05 / TFAC08 / TFAC09 / TFAC15 / TFAC16 / TFAC17 / TFAC20 / TFAC21 / TFAC22 / TFAC67 / TFAC70	P76 ~ P80
Countersinks	TFDR70 / TNDR76 / TFDR77 / TFDR78 / TFLB30				
Screw Extractors and Twist Socket Sets	TFDR54 / TFDR80 / TFDR83 / TFSK11 / TFME61 / TFTR50	P23 ~ P24			
Taps	TFTR10 / TFTR11 / TFTR12 / TFTR10	P25 ~ P30			
Circular Dies	TFTR30 / TFTR31 / TFTR40 / TFTR41 / TFTR88	P31			



2) Abrasives

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Description	Order Code	Page No	Description	Order Code	Page No
Grinding Discs, Cutting Discs & Grinding Wheels	TFDC21 / TFDC24 / TFDC26 / TFDC60 / TFGW10 / TFGW11 / TFGW12	P82 ~ P83	Flex-Hone Brushes	TFGW60	P90 ~ P92
Fiber Discs	TFDC22 / TFDC30 / TFDC31 / TFDC32		Oxide Blocks	TFAB01	
Flap Wheels, Flap Discs & Felt Discs	TFDC10 / TFGW20 / TFGW40 / TFDC70 / TFDC72 / TFDC73 / TFAB02 / TFDC40 / TFDC41 / TFDC42	P85 ~ P87	Bench Oil Stone	TFAB01	
Mounted Points	TFGW25 / TFGW26	P88 ~ P89	Fiber Stone	TFAB01	
			Diamond Coated Burr Set, Handled	TFCC01 / TFAB01 / TFWB32 / TFWB01 / TFWB02 / TFWB10 / TFWB13 / TFWB16 / TFWB20 / TFWB25 / TFWB29	
			Sharpener, Wire Knife		
			Brushes, Twisted Knot		
			Wire		



3) Measuring Tools

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Description	Order Code	Page No	Description	Order Code	Page No
Micrometer , Depth Micrometer & Micrometer Heads	TFME10 / TFME11 / TFME12	P95 ~ P96	Feeler Gauges, Radius Gauges, Screw Gauges	TFME60 / TFME61 / TFME62	P108
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Dial Caliper	TFME19 / TFME26 / TFME73	P99 & P104	Metric & Measuring Tape	TFME02	P110
Vernier Caliper	TFME18 / TYME18	P97 ~P99	Rustless Steel Rules		
Depth Gauge Caliper	TFME21	P101	Levels Steel Gauge	TFME50 / TFME71 / TFME72 / TFME74 / TFME75	P111
Digital Indicators	TFME31 / TFME33	P102	Block Sets		
Mag Stands	TFME38	P103	Optical Refractometer, Angle Plate Set, Stereo	TFME51 / TFME80 / TFME82	P112 ~ P115
Height Gauges	TFME70	P104	Microscopes, Hardness Tester		
Portable Digital Angle, Finder, Bevel Protractor, Combination Square Sets	TFME25	P105	Digital Multimeter, Digital Tester & Digital Wall Detector	TFMU10 / TFMU11 / TFMU20 / TFMU30 / TFMU40 / TFMU50 / TFMU60 / TFMU67 / TFMU70	P116 ~ P119
Digital Gauges	TFME23	P105	Roughness Tester	TFMU55 / TFMU61 / TFMU66 / TFMU65 / TFMU73	P120 ~ P130
Hss Pin Gauges	TFME30	P106	Meter, Detector, Force Gauges		



4) Air & Power Tools

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Description	Order Code	Page No	Description	Order Code	Page No
Air Impact Wrenches	TFAT10	P132 ~ P133 & P137	Air Ratchets	TFAT12	P138
Industrial Gearless Air Die Grinder , Air Angle Die Grinder, Air Screwdriver , Air Drill	TFAT45 / TFAT46 / TFAT20 / TFAT30	P134 , P138, P139	Air Fittings	TFAT77	P140
Air Body Saw, Air Needle Scaler, Air Nippers, Air Angle Grinders, Air Angle Cutter	TFAT20 / TFAT42 / TFAT41/ TFAT40	P135 , P138 & P139	Vacuum Cleaner	TFAT71	P141 ~ P142
Air Hammer Set	TFAT44	P135	Retractable Hose Reels	TFAT70	P143
Air Riveter, Micro Air Die Grinder , Air Blowguns, Pu Airline Hoses	TFAT50 / TFAT47 / TFAT70 / TFAT67	P136 & P139	Cordless Drill, Industrial Cable Reels	TFET60 / TFET80	P143
			Electric Pipe Threading Machine , Pressure Washer	TFTR80 /TFTR70	P144



5) Workshop Equipment & Tools

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Description	Order Code	Page No	Description	Order Code	Page No
Bearing Heater	TFMC01	P146	Beam Clamps, Chain Hoists, Wire Rope Pulling Hoists, Level Blocks	TFWS10 / TFWS11	P164
Sandblast, Part Washers, Grinders	TFWS09 / TFMC60	P147	Hand Winches, Magnetic Lifters, Wire Rope Pulleys	TFWS10	P165
Magnetic Drills	TFMC10	P147 ~ P148	Ratchet Type Load Binders, Eye Hooks	TFWS15	P166 ~ P167
Welding Machines (Inverter), Welding Helmets	TFMC50 / TFMC51 / TFMC52 / TFMC53 / TFMC54 / TFMC55 / TFMC57 / TFMC59 / TFWD10	P149 ~ P153	Workbenches & Tool Storage Cupboards	TFWS30 / TFWS31 / TFWS50 / TFWS51/ TFWS52	P169 ~ P178
Battery Charges, Booster Cable	TFET80 / TFOT05	P153	Parts Storage Cabinets With Doors / Without Doors	TFWS34	P179 ~ P180
Bench Drill, Industrial Milling	TFMC20 / TFMC40	P154 ~ P155	Cnc Toolholder Storage Cabinets	TFWS35 / TFWS55	P181 ~ P183
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Drilling Machine	TFMC40	P157	Combination & Mobile Workstations	TFWS57 / TFWS58	P186 ~ P188
Toolmaker'S Vises	TFMC70	P158 ~ P159	Storage Bin Trolleys	TFWS60 / TFWS70	P189 ~ P190
Clamping Set	TFMC80	P159	Tool Racks, Tool Panels, Hook, Holder	TFWS55	P191 ~ P194
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Cast Iron Surface Plates	TFWS01	P161	Digital Weighing Platform Scales, Digital Weighing Desktop Scales	TFWS80 / TFWS81	P196 ~ P197
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Universal Bench Vises, Swivel Bench Vises, American Pattern Bench, Multi-Functional Bench, M Type Precision Bench	TFWS21 / TFWS22 / TFWS23 / TFWS24 / TFWS25	P162			
Crane Scales, Spring Balancers	TFWS15 / TFWS16	P163			



6) Hydraulic Equipment & Tools

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Hydraulic Flange Spreader Kits, Jaw Hydraulic Gear Puller Kits	TFHY30 / TFHY43 / TFHY45 / TFHY47	P201	Punching Tools, Hydraulic Hose, Couplings, Nut Splitters, Rebar Cutters , Oil Pressure Gauge	TFHY71 / TFHY77 / TFHY8	P207
Drum Puller Kit, Scissor Jacks, Trolley Jacks	TFHY01 / TFHY02 / TFHY88	P202	Electric Hydraulic Crimping Tools	TFHY70	P208
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7) Hand tools

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Tool Roller Cabinets , Tool Chest & Accessories	TFTB01/TFTB02 / TFTB00	P212 ~ P213	Hex Bit Socket Set - S2 Alloy Steel, Hex & Torx Bit Socket, Long Type Hex & Torx Socket	TFSK81	P245 ~ P246
Tray Service Carts, Professional Cantilever Tool Box	TFTB01 / TFTB03	P214 ~ P215	Impact (Sockets, Drive Converters, Extension Bars, Offset Handles, Sliding T, Universal Joints)	TFSK40 / TFSK46 / TFSK47 / TFSK60 / TFSK61 / TFSK85	P247
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Drawer Cabinet Series	TFTB30	P222 ~ P223	T-Handled Driver Set, Folding Torx Clip Set, T-Handled Hexagon Driver	TFWR55	P250 ~ P252
Professional Heavy Duty Roller Cabinet Series	TFTB31	P224 ~ P225	Hex L-Wrench Sets, Ball Driver Hex L-Wrench Set, Color Coded Ball Driver, Torx L-Wrench Sets, Long Series Chrome Plated Ball-End	TFWR50 / TFWR51 / TFWR52 / TFWR55 / HDWR51	P251
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Plastic Cases, Tool Holsters & Waist Belt	TFTB05 / TFTB59	P227	Claw Ended Crowbars, Drum Lid Opener, Screwdriver Pry Bars	TFHT02 / TFOT02 / TFOT07	P253
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Torque Wrenches Angle Gauge, Novatorok Full Metal, Novatorok Double Window, Ratchet Cable Cutter	TFTQ22 / NVTQ10 / NVTQ11 / TFCU50	P235	Impact Screwdriver Sets, Spiral Ratchet Screwdriver	TFSC49 / TFSC50	P256
Digital Torque Adapters, Torque Screwdrivers, Ratchet Handles	TFTQ14 / TFTQ25 / TFTQ01 / TFWR02 / TFWR03	P236	Magnetizer / Demagnetizer	TFOT03	P256
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Engineers Tool Kit In Double Layer Cowhide Bag	TFTK11 / TFTB59	P243			
Magnetic Ratchet Screwdriver Set With Bit Holder	TFSC49	P244			



7) Hand tools

Description	Order Code	Page No	Description	Order Code	Page No
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Long Nose Pliers , Round	F-108 / F-108C / F-106RR /		Multi-Purpose Pliers	F-6LN / F-11SP / F-11C /	
Long Nose Pliers	F-106BB / F-106CC / F-106PP /		Multi-Purpose Long Nose	F-10WR / F-8R / F-6SP	
Needle Nose Pliers, Bent	F-106C		Pliers		
Electronics Diagonal Cutters	FC-21 / FC-22 / FC-33 / FC-33A /	P261 ~ P262	Locking C-Clamp With Pad		
Electrician'S Flat Surface	FU-22 / K-150 / F-162 / F-257 /		Mini Locking C-Clamp		
Diagonal Cutter	F260		Multi-Purpose "C" Round Clamp		
Modern Type Electronics			Multi-Purpose Curved Jaw Locking Plier		
Diagonal Cutters			Multi-Purpose Flat Nose Plocking Pliers		
Esd Electronic Pliers					
Diagonal Cutting Pliers	F-260 / F-105 / F-105B / F-107S /	P262			
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Wire Twisting Pliers	F-WTP806R / F-009		Ratchet Crimping Tool	FMK-120 / F-118 / F-2834A	
Tile Nippers			Fujiya Crimping Tool		
Internal Circlip Pliers	F-170 / F-123 / F-230A / F-330A /	P263	Bare Terminal Crimping		
External Circlip Pliers	F-171 / F-124 / F-230B / F-330B /		Tool		
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4In1 Combination	F-173 / F-126 / F-230D / F-330D /		Automatic Wire Stripper		
Snap-Ring Plier	F-450A / F-450B / F-450C /				
	F-450D / FA-4PCS		Pvc Pipe Cutter	S-65 / FTC-35 / SV-36 / S-42 /	P271
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Pump Pliers	K-16B / F-250DL / F-300DL /		Cutter	TC105A / 107AP / TC105 / 107P	
Slip Joint Water Pump	F-4734 / F-4735		Automatic Pvc Pipe		
Pliers			Cutter		
Groove Joint Water			Tubing Cutter		
Pump Pliers			Tubing Cutter		
Japanese Style Long			Replacement Blade		
Jaw Water Pump Pliers			Premium Pruning Shears	F-708A / F-002A / F-508BT /	P272
Revolong Leather			Fruit Picking Shears	FTF-200 / F-106 / F-106AS /	
Punch Tool			Ptfe Multi-Function Garden	F-110 / F-703	
Interchangeable			Trimming Shears		
Leather Punch Pliers			Miniature Bolt Cutter		
			Long Nose Plier		
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Wire Strippers	F-0828K / F-119 / F-2734B /		(Serrated)		
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Tailor Scissors			Multi-Function		
Fiber Optic Multi-Purpose			Electrician Scissors		
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S/Steel Poly Handled	F-505 / F-504 / F-706 / F-708 /	P267	Cable Stripping Knife		
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S/Steel Straight Blade			Cable Cutter	F-22 / F-38 / F-80C / F-50S /	P274
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S/Steel Bent Blade			Steel Rope Cutter	F-1000	
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S/Steel Labor-Saving			Ratcheting Cable	CS-325 / CS-520 / FSC-12 /	P275
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S/Steel Precision Long			Steel Strap Cutter		
Nose Electronic					
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			Fujiya Strong Pipe	FBC-42 / FCC-12 / FCC-14 /	
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Round-Side Cutting Pliers			Multi-Angle Cutter		
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			Vde Diagonal Cutting		
			Pliers		



7) Hand tools

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Offset Pipe Wrench	50510M / 50514M / 50518M /		Pipe Vise With Tripod	11013B / 11014B / 11016B /		
Telescopic Pipe Wrench	50018M / 50024M / 50036M /		Stand	11018B / 11056S		
Spud Wrench	50048M / 50112M		Workbench Yoke Pipe			
Straight Pipe Wrench	EXM110- 50906M / 50908M /	P282	Vise			
Aluminium Handle	50910M / 50912M / 50914M /		Heavy Duty Chain Pipe			
Straight Pipe Wrench	50918M / 50924M / 50936M /		Vise			
Hex Wrench	50948M / 50960M / 50810M /		Ring Slogging Wrench	METRIC: EXM012 - 12017M	P286	
Oil Field Pipe Wrench	50812M / 50814M / 50818M /			TO 12180M		
Bent Nose Swedish	50824M / 50836M / 50848M /		INCH: EXM012 - 30010M			
Pipe Wrench	50709M / 50712M		TO 30370M			
Ductile iron rapid / fast wrench	EXM120- 00513M / 52010M /	P283	Open End Slogging	METRIC: EXM012 - 22017M	P287	
	52020M / 52030M		Wrench	TO 22130M		
	EXM130- 50510M / 50514M			INCH: EXM012 - 40010M		
Refinery Pipe And	EXM212- 01233M /		Single Open-Ended	EXM206 - 01017S TO 01125S	P287	
Valve Wrenches	EXM210-56008M / 56010M /		Spanners			
Chain Pipe Wrenches	56175M / 51150M / 51155M /					
	51270M / 51480M / 52008M /	Combination Spanners	CHROME FINISH	P288		
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	53255M		MANUFACTURED TO			
	EXM110- 50104M / 50106M /		GERMAN DIN 3133			
	50108M / 50110M / 50112M /		EXM022 - 10032C TO 10125C			
	50116M					
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Heavy-Duty Pipe Stand	01208V / 01108B / 01208B /		Crescent Hook Spanner	00080P / 00120P / 00180P		
With Adjustable Steel	01108C / 21108B		Fixed C-Hook Spanners	EXM212 - 10020C TO 10220C		
Roller			Crescent Wrenches			
Description	Order Code	Page No	Description	Order Code	Page No	
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Multi-Functional Hammer Tool			White Rubber Mallets			
Multi-Functional Knife Tool			Pvc Assembly Hammers - Tubular			
Multi-Functional Knife Tool (Small)			Steel Shafts			
Multi-Functional Pliers Tool			Hacksaw Frame			
Multi-Functional Pliers & Carabiner Tool			Engineer's Files	TFFL10 / TFFL13 / TFFL14 /	P298	
			Rotary Pump	TFFL15 / TFFL16 / TFFL70 / TFLB02		
Grip Wrenches	TFPL50 / TFOT40 / TFHT02	P290	Assorted Needle File Sets	TFOT10 / TFFL88 / TFFL89	P299	
Nylon Cable Ties			Diamond Needle File Sets			
Cable Tie Guns			Industrial S/Steel Tweezers			
S/Steel Cable Ties			Insulated Combination Pliers	TFNS01 / TFNS02 / TFNS08 /	P300	
Deburring Tool Set	TFHT10	P291 ~ P293	Insulated Diagonal Pliers	TFNS10 / TFNS11 / TFNS12 /		
Cera-Burrs			Insulated Wire Stripping Pliers	TFNS18 / TFNS20 / TFNS55 / TFNS88		
Telescopic Blade Holders			Insulated Water Pump Pliers			
For Deburring Tools			Insulated Long Nose Pliers			
Blades			Insulated Adjustable Wrenches			
Strap Wrenches	TFPW01 / TFPW02 / TFCU09 /	P294	Insulated Electrician Shears			
American Pattern Chain Wrenches	TFCU10 / TFCU20 / TFCU25			Insulated H/D Diagonal Cutting Pliers		
Heavy Duty Rebar Cutter & Benders				Insulated Plastic Rubber Handled Screwdrivers		
Bolt Cutter				Insulated Cable Knife	TFNS50 / TFNS70 / TFNS05	P301
Pvc Cutters				Insulated Cable Stripping Knife		
Tinsnips - British Style	TFSS60 / TFCU24 / TFCU25 /	P295	Insulated Electrician's Knife			
Structured Pipe Cutter	TFCU26 / TFCU27			Insulated Cable Stripping Knife		
3-In-1 Mini Bender				Insulated Interchangeable Blade Cable Knife		
Flaring Tool & Pipe Cutting Kit				Insulated Vde Spanners		
Hand Bench Shears				Mains Tester		
Ball Pein Hammers	TFHM08 / TFHM11 / TFHM12 /	P296				
Claw Hammers	TFHM35					
Club Hammers						
American Pattern Claw						
Sledge Hammers With Tpr Handles						
Integrated Tpr Installation Hammers"						





7) Hand tools

Description	Order Code	Page No	Description	Order Code	Page No
Insulated Bi-Hex Sockets	TFNS04 / TFNS05	P302	Safety Hook Spanners	TFSF56 / TFSF58 / TFSF62 /	P312
Insulated Ratchet Handle			Safety F Spanners	TFSF83	
Insulated L Hex Wrenches			Safety Rust Scrapers		
Insulated Offset Handles			Safety Triangular Scrapers		
Insulated T-Handles			Safety Awls		
Insulated Socket			Safety Scrapers	TFSF79 / TFSF87	P313
Extensions			Safety Round Head Spreaders		
Insulated Double Ended			Safety Wood Handled Triangle Trowels		
Ratchet Spanners			Safety Stripping Knives		
Insulated Hacksaws	TFNS51 / TFNS88	P303	Safety Locking Seizers	TFSF75	P313
Insulation Socket Set			Safety Tin Snips		
Vde Pliers Set			Safety Bent Blade Snips		
Vde Insulation Tool Set	TFNS88	P304	Safety Scissors		
Vde Insulated			Safety Tailors Scissors		
Screwdriver Sets			Safety Pickaxes	TFSF65 / TFSF69 / TFSF70 /	P314
Safety Combination Pliers	TFSF10 / TFSF11 / TFSF12 /	P305	Safety Machinist's Hammers	TFSF71 / TFSF72 / TFSF73	
Safety Snipe Nose Pliers	TFSF14 / TFSF15		Safety Nylon Faced Hammers		
Safety Diagonal Nose Pliers			Safety Claw Hammers		
Safety Flat Nose Pliers			Safety Ball Pein Hammers		
Safety Bent Nose Pliers			Safety Marbles Axes	TFSF63	P315
Safety Slip Joint Pliers			Safety Fire Axes		
Safety Gas Pliers			Safety Square Files	TFSF65	P315
Safety Carpenter's Pincers			Safety Flat Files		
Safety Cirdip Pliers	TFSF16 / TFSF17 / TFSF18 /	P306	Safety Round Files		
Safety End Wire Strippers	TFSF19 / TFSF29		Safety Half Round Files		
Safety Wire Ligature Cutters			Safety Bi-Hex Sockets	TFSF40	P316
Mini Safety Electronics			Safety Universal T-Handled	TFSF41 / TFSF43 / TFSF44 /	P317
Diagonal Cutters			Safety Extensions	TFSF45 / TFSF46 / TFSF49 /	
Safety Wire Strippers			Safety Sliding T-Handles	TFSF20	
Safety Grip Wrenches			Safety Offset Handles		
Safety Hacksaws			Safety Speed Handles		
Safety Slotted Screwdrivers	TFSF30 / TFSF31	P307	Hex Wrenches Joints		
Safety Phillips Screwdrivers			Safety Hex L-Wrenches		
Safety Electricians Parallel			Safety Water Pump Pliers		
Tipped Screwdrivers			Safety Pipe Benders	TFSF25 / TFSF26 / TFSF27	P317 ~ P318
Safety Pz Screwdrivers			Safety Pipe Cutters		
Safety Torx Screwdrivers			Safety Pipe Wrenches		
Safety Go-Through Flared			Light Duty Safety Chain Wrenches		
Screwdrivers			Safety Bolt Cutters	TFSF28 / TFSF65 / TFSF67 /	P319
Safety Open Ended	TFSF60 / TFSF61	P308	Safety Hand Pump	TFSF81 / TFSF85 / TFSF89	
Slogging Wrenches			Safety Chain Hoists		
Safety Angled Open Jaw			Safety Bench Vises		
Slogging Wrenches			Safety Pipe Vises		
Safety Ring Slogging			Safety G Clamps		
Wrenches			Safety Pullers		
Safety Angled Ring			Safety Air Chisels & Punches	MSF80 / TFSF81	P320
Slogging Wrenches			Safety Pointed Chisels		
Safety Offset Ring Slogging	TFSF50 / TFSF51 / TFSF52 /	P309	Safety Flat Chisels		
Wrenches	TFSF61		Safety Cross Chisels		
Safety Combination			Safety Pin Punches		
Spanners			Safety Round Mouth	TFSF86	P320
Safety Double Open Ended			Shovels		
Spanners			Safety Square Mouth		
Safety Single Open Jaw			Shovels		
Spanners			Safety Wrecking Bars	TFSF82 / TFSF83 / TFSF85 /	P321
Safety Double Ring Ended	TFSF53 / TFSF55 / TFSF57	P310	Safety Wrecking & Pry Bars	TFSF88	
Spanners			Safety Dividers		
Safety Flared Nut Ring Spanners			Safety L Scribes		
Safety Single Ring Spanners			Safety D Shackles		
Safety Angled Ring Spanners			Safety Plumb Bobs		
Safety Adjustable	TFSF01 / TFSF47 / TFSF48 /	P311	Safety Wheel Brush	TFSF84	P322
Wrenches	TFSF57 / TFSF58 / TFSF59		Safety Cup Brush		
Safety Open Ended Podger			Safety End Brush		
Spanners			Safety Wooden Handled Long Brush		
Safety Double-Socket Reversible Ratchet Podger			Safety Angled Handle Cleaning Brush		
Spanners			Safety Scrub Brush		
Safety Ratchet Wrenches			Safety Tube Brush*		
Safety Torque Wrenches					
Safety Multi-Purpose Drum Wrenches					
Safety Strap Wrenches					



7) Hand tools

Description	Order Code	Page No	Description	Order Code	Page No
Safety Fire Buckets	TFSF70 / TFSF83	P323	Open Jaw Slogging Wrenches	TFSP50 / TFSP55 / TFSP56 / TFSP57	P331
Safety Long Nozzle Oil Cans			Offset Ring Slogging Wrenches		
Safety Dustpans			Angled Ring Slogging Wrenches		
Safety Hand Shovels			Ring Slogging Wrenches		
Safety Funnels			Ring Spanners	TFSP30 / TFSP35 / TFSP36 / TFSP37 / TFSP40 / TFSP45	P332
Safety Rules	TFSF77	P323	Open Jaw Spanners		
Safety Rules			Angled Ring Spanners		
Safety Metric Feeler Gauge Set			Open Ended Podger Spanners		
Safety Socket Set	TFSF88	P324	Offset Ring Spanners		
Safety Combination Tool Set			Ring Ended Podger Spanners		
Electrician'S Safety Tool Kit - Al-Br	TFSF88	P325	Offset Ring Spanners With Extension Bars		
Safety Maintenance Tool Kit			Double Open Ended Spanners	TFSP20 / TFSP21 / TFSP22 / TFSP29 / TFSP60 / TFWR70	P333
Safety Jobber Drill Set - Be-Cu			Offset Double Ring Spanners		
Safety Engineers' Tool Kit			Combination Spanners		
S/Steel Double Open Ended Spanners	TFTT01 / TFTT02 / TFTT03 / TFTT05 / TFTT30 / TFTT35 / TFTT48	P326	Heavy Duty Anti-Slip F Spanners		
S/Steel Combination Spanners			Hook Spanners		
S/Steel Double Offset Ring Spanners			Pin Type Hook Spanners		
S/Steel Open (G) Jaw Spanners			Heavy Duty Reversible Ratchet Wrenches		
S/Steel Ring Spanners			Sliding Adjustable Hook Wrenches	TFSP29 / TFSP30 / TFSP50 / TFSP55 / TFWR71	P334
S/Steel Adjustable Wrenches			Phosphated Friction Type Ratchet Wrenches		
S/Steel Reversible Ratchet Wrenches			Phosphated Thickened Single Open Jaw Spanners		
S/Steel Open Jaw Slogging Wrenches	TFTT22 / TFTT29 / TFTT40 / TFTT49 / TFTT50 / TFTT55	P327	High Strength Carbon Steel Forged Slogging Wrenches		
S/Steel Ring Slogging Wrenches			Industrial American Pattern T-Handle Clamps	TFCL15 / TFCL50	P335
S/Steel Lug Wrenches			Industrial American Pattern Heavy Duty G Clamps		
S/Steel L Hex Wrenches			Mod G Professional Nodular Cast Iron G Clamps	PHCL60 / PHCL61 / TFCL55	P335
S/Steel Hook Spanners			Mod Gf. Professional Super Heavy Duty Nodular Cast Iron G Clamps		
S/Steel Bi-Hex Sockets			Triangle Shaped Magnetic Welding Clamps		
S/Steel T Sliding Handles	TFTT41 / TFTT42 / TFTT45 / TFTT46 / TFTT50 / TFTT56	P328	Super Powerful Magnetic Pick-Up Wands	TFOT10 / TFOT20 / TFOT03	P336
S/Steel Swivel Handles			Powerful Eyelet Button Magnets		
S/Steel Offset Fixed Handles			Mechanical Synchronous Bearing Pullers		
S/Steel Speed Handles			Heavy Duty Mechanical Gear Pullers		
S/Steel Universal Joints			S/Steel Hose Clips		
S/Steel T-Handle Clamps			Aluminum Shark Shape Fixed Blade Trimming Knife	TFKN10 / TFKN17	P337
S/Steel Heavy Duty Pipe Wrenches - American Pattern			Zinc Alloyed Heavy Duty Auto Loading Trimming Knife		
S/Steel Socket Sets	TFTT88	P328	Zinc Alloyed Side-Open Heavy Duty Auto Trimming Knife		
S/Steel Lineman's Pliers	TFTT10 / TFTT11 / TFTT12 / TFTT20 / TFTT25	P329	Professional Auto Return Trimming Knife		
S/Steel Snipe Nose Pliers			Fixed Blade Trimming Knife		
S/Steel Diagonal Cutting Pliers			Professional Heavy Duty Trimming Knife		
S/Steel Grip Wrench			Utility Knives	TFKN20	P338
S/Steel Box Joint Water Pump Pliers			Anti-Slip Utility Knives		
S/Steel Ball Pein Hammers	TFTT55	P329	3 Led Tfm Pick Up Torch	TFOT10 / TFOT11	P338
S/Steel Claw Hammers			Flexible Pick Up Tool With Led Light		
S/Steel Club Hammers			Telescopic Pick Up Tool		
S/Steel Nylon Faced Hammers			Pen Type Magnetic Pick Up Tool		
S/Steel Screwdrivers	TFTT30 / TFTT31 / TFTT80	P329	Led Flexible Inspection Mirror		
S/Steel Stripping Knives			Flexible Inspection Mirror		
S/Steel Engineer Files	TFTT54 / TFTT73 / TFTT75	P330	Telescopic Magnetic Pick-Up & Inspection Mirror Kit		
S/Steel Heel And Point Crowbars			Internal & External Spring Calipers	TFOT02 / TFOT10	P339
S/Steel Chisel & V-Notch Wrecking Bars			Spring Dividers		
S/Steel Flat Chisels			Carpenters Dividers		
S/Steel Buckets	TFTT70	P330	Magnetic Plastic Bowl		
S/Steel Funnels			Zeiss High-Definition Magnifier For Metal Identification	TFOT04	P339 ~ P340
S/Steel Dustpans			Jewellers Eye Loupe		
S/Steel Flat Fuel Container			3 Led Double Lense Hand-Held Magnifier		
S/Steel Fuel Container			12 Led Hand-Held Magnifier With Aluminum Alloyed		
S/Steel Shovels	TFTT50 / TFTT58 / TFTT60 / TFTT71	P330	5X Led Paperweight Glass Magnifier		
S/Steel Swivel Bench Vises			Full Optical Lense Scaled Led Magnifier		
S/Steel Chain Pipe Wrenches					
S/Steel Rotary Pump					



7) Hand tools

Description	Order Code	Page No	Description	Order Code	Page No
60X Mini Phone Camera	TFOT04	P340	Lid Spanners	TFSL01 / TFSL02 / TFSL03 / TFSL07 / TFSL09	P347 ~ P348
Clip Magnifiers			Plastic Chemical Drums		
Black Double Led Foldable Magnifier			Food Grade Round Plastic Reagent Bottles		
3 Led Head Loup With Interchangeable Lenses			Food Grade Plastic Pharmaceutical Bottles		
Desktop Led Lighted Magnifying	TFOT04	P341 ~ P342	Food Grade Square Plastic Reagent Bottles		
6 Led Bench Magnifier			Food Grade Plastic Paste Tubs		
Illuminated Led Desktop Magnifiers			Extra Thick Food Grade Horizontal Water Tank		
Led Folding Desktop Magnifiers Glass Soldering Station			Duplex Webbing Slings	TFWS12 / TFTB55 / TFOT38	P349
Industrial Led Folding Desktop Magnifiers			Wall Mounted Key Cabinets		
72 Led Cantilever Magnifying Lamps			Steel Jerry Cans		
Wood Handled Stainless Steel Scapers	TFLB01 / TFOT06	P342	Padded Creeper Seat With Tool Tray	TFOT50	P350
400Cc Industrial Grease Guns			Plastic Car Creeper Board		
Flexible Nylon Resin Rubber Hoses			Foldable Padded Creeper Board		
Hydraulic Connectors			Pneumatic Rolling Creeper Round Seats		
S/Steel Grease Nipples	TFLB01 / TFOT01	P343	Engine Supports		
Zp Grease Nipples					
Brass Grease Nipples					
Metal Caulking Guns For 310MI Cartridges					
Industrial Multi-Usage Plastic Funnels	TFLB05 / TFLB01 / TFOT39	P344			
Liquid Measures					
Wash Bottles					
Metal Oil Cans					
Food Grade Hdpe Jerry Cans	TFSL01	P345 ~ P346			
Food Grade Multi-Usage Paint Pails With Hand Carriers					
Food Grade Hdpe Detergent Containers					
Pump Dispensers					
Paint Pail Openers					



8) Others

Description	Order Code	Page No	Description	Order Code	Page No
Chemical Storage Cabinets	TFCH70	P352 ~ P353	Comb. Moving Skates	TFLG03	P361 ~ P362
Galvanised Steel Shelves (Optional)			Rotating Moving Skates		
Drum Storage Cabinets			Machine Skates		
Pp Anti-Corrosive Cabinets			Metal Dumping Carts	TFLG04 / TFLG29	P363 ~ P364
Amber Hot Dip Strippable Coating	TFLB88	P353	Stackable Corrugated Steel Containers		
Emergency Equipment & Ppe Storage Cabinets	TFCH70 / TFWS33	P354 ~ P355	4 Drum Spill Control Station		
Double-Door Super Dry Esd Cabinets			45 Gallon Mobile Spill Response Cart		
Esd Dry Cabinets			Spill Pallets / Platforms		
Nitrogen (N2) Esd Dry Cabinets			4 Way Entry Plastic Pallets	TFLG30	P364
Stainless Steel Working Benches	TFLG40 / TFWS40	P356	Flat Deck Plastic Pallets		
Stainless Steel Trolleys			Ibc 1000L Spill Containment Ibc Tank Valves	TFLG29	P365
Pallet Trucks	TFLG01 / TFLG02 / TFLG03	P357	Industrial Powerful Roll	TFPA01 / TFPA02 / TFPA03 / TFPA90	P366
Pallet Trucks With Digital Scales			Industrial Universal Cloths		
Pallet Stackers			Blue Industrial Cloths		
Scissor Type Hydraulic Lifting Carts			High Oil Absorption Cloth		
Low Profile Drum Dolly	TFLG03	P358	Roll Dispensers		
Drum Palletizer			Heavy Duty Absorbent Pads		
Drum Dollies			Spill Control Sets	TFPA03 / TFPA49 / TFPA50 / TFTP70	P367
Oxygen Cylinder Trolleys	TFLG30 / TFLG05	P359 ~ P360	Pfte Thread Seal Tapes		
Aluminium Platform Trolleys			Heavy Duty Absorbent Socks & Pillows		
Foldable Silent Trolleys			Absorbent Granules & Particulates		
Utility Carts			Blind Rivets	TFFS60	P368
Pp Turtle Dollies			Rivet Nuts		



8) Others

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Description	Order Code	Page No	Description	Order Code	Page No
S/Steel Pan Head Machine Screw & Hex Nut Set	TFFS80	P369	Industrial Double Section Aluminium Ladders	TFLD10 / TFLD11	P372
S/Steel Cap Screw & Hex Nut Set			Aluminium Folding Ladders		
Stainless Steel Nyloc Nut Set			Aluminium Folding Ladders		
Button Socket Cap Screw & Hex Nut Set			Aluminium Platform Steps		
S/Steel Machine Countersunk Screw & Hex Nut Set			Industrial 3-Section Aluminium Ladders		
Socket Set Screw Set					
S/Steel Socket Set Screw Set	TFFS80	P370	Aluminium Step Stools	TFLD15 / TFLD16 / TFLD20	P372 ~ P373
S/Steel Socket Button Head Machine Screw & Hex Nut Set			Industrial Dual-Purpose Aluminium Folding Ladders		
Socket Head Cap Screw & Nut Set			Aluminium Workbench		
Zp Hex Nut Set			Insulated Ladders		
S/Steel Split Cotton Pin Set			Insulated Double Section Ladders		
S/Steel Internal Circclip Set			Insulated Platform Steps		
S/Steel External Circclip Set					
Internal Circclip Set	TFFS80	P371	Flashlights	TMLD11 / TMLD16 / TMTP01 / TMOT50	P374 ~ P379
External Circclip Set					
Socket Head Countersunk Screw & Hex Nut Set					
Zp Nyloc Nut Set					
Zp Plain Washer Set					
Expansion & Compression Spring Set					
Silicone O Ring Set					



Arrow Chemicals Series

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Lotoxane Series Chemical Products	AWCH01	P380	Breakfree Tf - Tapping Fluids	AWCH07 / AWCH08 / AWCH20 / AWCH36	P384
Lotoxane Safe High Flash Point Degreaser			Metaklenz - Food Grade		
Lotoxane Fast- Aircraft Engines Cleaner			Superclean - Food Grade		
Lotoxane Fast Wipes	AWCH01 / AWCH02 / AWCH04 / AWCH05	P381	Sodaklenz - Food Grade		
Lotoxane Xf - Solvent Degreaser			Universal Powerwash - Food Grade	AWCH02 / AWCH09 / AWCH21	P385
Delta - Marine Degreaser			Qed - Quick Dry Electrical Degreaser		
Supersolve As - Aviation / Food Grade			Gl Label Remover		
Hdd - Emulsifiable Solvent Degreaser			Adhesive Spray		
Citrol - Microemulsion Degreaser	AWCH06 / AWCH20 / AWCH25 / AWCH30 / AWCH37	P382	S/Steel Cleaner		
Aquaklenz Lf - Water-Based Degreaser			Textra - Hand Cleaning Cream	AWCH10 / AWCH21 / AWCH22 / AWCH23	P386
Shield - Rust Inhibitor			Ecad - Onshore/Offshore Degreaser		
Chain Lube			Ecowash Autosshine - Exterior Train Wash		
Super Slaks - Graphite Penetrating Fluid			Britox Plus - Rust Remover		
Aircraft Cleaner	AWCH24 / AWCH37 / AWCH50 / AWCH55	P383	Silslide - Mould Release Spray	AWCH31 / AWCH32 / AWCH33 / AWCH34	P387
Water Based Anti Spatter			Spray Grease		
Wire Rope & Gear Lubricant			Handy Foam - Hard Surface Cleaner		
Bright Galva Aerosol			Supersolve Cc Contact Cleaner		
Zinc Galva					



Mr. Mckenic Chemicals Series

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9-In-1 Technology Oil	MKCH01 / MKCH02 / MKCH03 / MKCH17	P388	Adhesive Remover For Sensitive Surfaces	MKCH08 / MKCH09 / MKCH10 / MKCH11	P390
Air-Conditioner Cleaner (Self-Rinsing)			Safety Electrical Cleaner & Degreaser		
Magic Rust Converter			Citus Degreaser		
Choke Clear			Pump Cleaner		
Auto Brake & Parts Cleaner	MKCH04 / MKCH05 / MKCH06 / MKCH07	P389	Cream Polisher	MKCH12 / MKCH13 / MKCH14 / MKCH16	P391
5-In-1 Surface Cleaner			S/Steel Cleaner & Polisher		
Mould & Metal Cleaner			Silicone Spray		
Contact Cleaner & Lubriant			Anti-Seize Compound		

RUST-OLEUM Rust Oleum V2100 Series

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Big Wheel Air Wrench Supporting Cart	TFAT10 / TFLG05 / TFLG70	P393			
Pneumatic Tyred Mesh Carts					
PVC Traffic Cones					
Garbage Carts - Automated	TFLG40	P394			
Garbage Truck Compatible					
Wheelie Outdoor Rubbish Bins					
PPE	TFPP01 / TFPP04 / TFPP15 / TFPP20 / TFPP30 / TFBS01	P395 ~ P402			

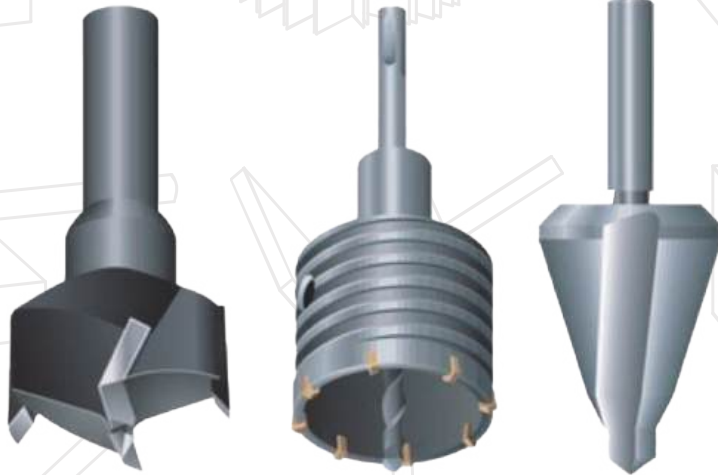


Business processes are integrated and managed with ERP system



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Carbide Burrs

Features



Made from high quality carbide materials, high wear-resistance, long life



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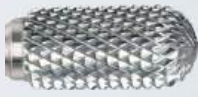





Misplaced designed top ensures the full cut effectivity of the top



Geometry design resulting in high effective and smooth surface.

Tooth Shapes and Applications

Tooth Shapes	Names of Shapes	Codes	Features	Processable Materials
	Diamond Cut	Q	Producing powdery chips, easy to control, resulting in smooth surface, suitable for high precision machining	Fiberglass, carbon fiber reinforced plastic, thermoplastic, hard rubber, ceramic, HRC40-60 extra hardness steel, nickel-based alloy steel
	Aluma Cut	W	Wide chip flute with very sharp edge, delivering fast chip removal	Aluminum, aluminum alloy, light metal, non-ferrous metal, plastic, hard rubber, wood
	Single Cut	P	Common tooth shape, long strip chips	Cast iron, cast steel, steel hardness less than HRC60, bronze, high-hard aluminum alloy, nickel-based alloy, stainless steel, titanium
	Double Cut	X	Universal tooth shape, short chips, delivering smooth performance, easy to control and resulting in smooth surface	Cast iron, cast steel, steel hardness less than HRC60, nickel-based alloy, nickel-cobalt alloy, austenitic stainless steel, titanium

Burr Types and Applications

Types	Names of Types	Letter Codes	Applications	Diagrams
	Cylindrical plain end	A	Suitable for processing surface profile	
	Cylindrical end cut	B	Suitable for processing surface profiles and intersections of right angles	
	Cylindrical round head	C	Suitable for processing surface profiles and arc contours	
	Ball	D	Suitable for processing arc contours, caliber deburring and pre-processing prior to welding	
	Oval	E	Suitable for arc contouring	
	Round tree	F	Suitable for processing arc contours at narrow areas	
	Pointed tree	G	Suitable for processing arc narrow outlines and contours with sharp angles	
	Flame shape	H	Suitable for arc contouring	
	60° conical	J	Suitable for 60° conical countersinking and chamfering	
	90° conical	K	Suitable for 90° conical countersinking and chamfering	
	14° conical	L	Suitable for processing narrow outlines and surface contours	
	Conical	M	Suitable for processing arc narrow outlines and contours with sharp angles	
	Inverted Cone	N	Suitable for internal chamfering	

Selection and Application Guide

To achieve the best results, please follows below steps:

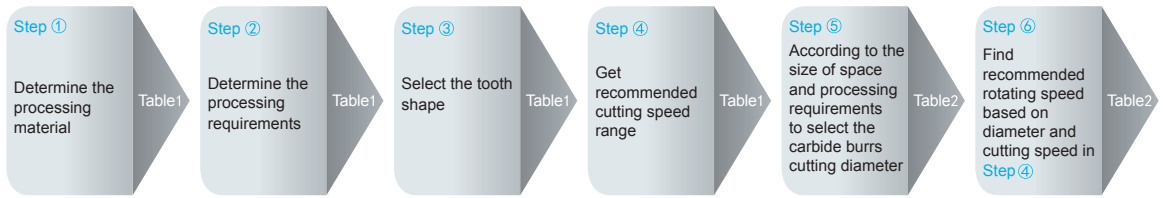


Table 1	① Processable Materials	② Processing Requirements	③ Selection of Tooth Shape	④ Cutting Speed
Steel and Cast Steel	Non-heat treated steel, including structure steel, carbon steel, tool steel, non-alloy steel, cast steel	Roughing	Single cut (P)	450 - 600m/min
			Double cut (X)	450 - 600m/min
	Finishing	Single cut (P)	450 - 600m/min	
	Quenched and heat treated steel HRC40-55, including tool steel, tempered steel, alloy steel, cast steel	Roughing	Single cut (P)	250 - 350m/min
		Double cut (X)	250 - 350m/min	
Stainless Steel	Austenitic stainless steel 301, 302, 303, 304, 304L, 316, 316L, 321, 317 etc. Ferrite stainless steel 409, 410L, 430, 439, 441, 434, 444, 436, 445, 447 and so on	Roughing	Single cut (P)	250 - 350m/min
			Double cut (X)	250 - 350m/min
Non-ferrous Metals	Low-hardness non-ferrous metals including aluminum alloy, aluminum, brass, copper, zinc and so on	Finishing	Aluma cut (W)	800 - 900m/min
	Hard-hardness non-ferrous metals including bronze, titanium, titanium ally, duralumin and so on	Roughing	Single cut (P)	250 - 350m/min
			Double cut (X)	250 - 350m/min
		Finishing	Single cut (P)	350 - 450m/min
Heat-resistant alloy steel such as nickel-based alloy, cobalt-based alloy (e.g. aircraft engine, turbocharger etc.)	Roughing	Single cut (P)	250 - 350m/min	
		Double cut (X)	250 - 350m/min	
Cast Iron	Gray iron, ductile iron and so on	Roughing	Double cut (X)	450 - 600m/min
			Single cut (P)	450 - 600m/min
		Finishing	Single cut (P)	500 - 600m/min
Plastic and Other Materials	Mainly including reinforced nylon, plastic, thermoplastic, hard rubber and so on	Roughing	Diamond cut (Q)	500 - 900m/min
		Finishing	Aluma cut (W)	500 - 900m/min
	Fiberglass, carbon fiber reinforced plastic, ceramic	Roughing	Diamond cut (Q)	500 - 900m/min

Selection and Application Guide

⑤ Diameter	④ Cutting Speed Recommendation (m/min)								
	250	300	350	400	450	500	600	900	1100
	⑥ Rotating Speed Recommendation (rpm)								
2mm	40,000	48,000	56,000	64,000	72,000	80,000	95,000	143,000	175,000
3mm	27,000	32,000	37,000	42,000	48,000	53,000	64,000	95,000	117,000
4mm	20,000	24,000	28,000	32,000	36,000	40,000	48,000	72,000	88,000
5mm	16,000	19,000	22,000	25,000	29,000	32,000	38,000	57,000	70,000
6mm	13,000	16,000	19,000	21,000	24,000	27,000	32,000	48,000	59,000
8mm	10,000	12,000	14,000	16,000	18,000	20,000	24,000	36,000	44,000
10mm	8,000	10,000	11,000	13,000	14,000	16,000	19,000	29,000	35,000
12mm	7,000	8,000	9,000	11,000	12,000	13,000	16,000	24,000	30,000
16mm	5,000	6,000	7,000	8,000	9,000	10,000	12,000	18,000	22,000
19mm	4,000	5,000	6,000	6,000	7,000	8,000	10,000	14,000	18,500
25mm	3,000	4,000	4,000	5,000	6,000	6,000	8,000	11,000	14,000

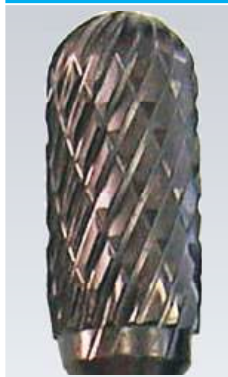
In order to improve the tool life and chip evacuation performance, the appropriate coatings can be applied to the different materials.

Titanium Nitride Coating (TiN)



A kind of cost-effective universal coating, be able to improve the tool surface hardness, high temperature stability, reduce tool surface coefficient to enhance tool life. Applied to steel, cast iron etc.

Titanium Carbonitride Coating (TiCN)



Compare to TiN coating, this TiCN coating has higher hardness and toughness, impact resistance, better high temperature stability. Applied to ordinary steel, alloy steel, stainless steel and wear-resistant cast iron etc.

Titanium Aluminum Nitride Coating (TiAlN)



A kind of coating with high hardness and high wear-resistant characteristic. Low thermal conductivity, good chemical stability, good anti-oxidation and good wear resistance. Applied to high-speed heat-resistant alloy, high alloy steel, stainless steel, titanium, nickel alloy and so on.

Diamond-Like-Carbon Coating (DLC)



A kind of coating has very high hardness, excellent wear resistance, very low friction coefficient, excellent corrosion resistance etc. Especially applied to aluminum alloy and other non-ferrous metals.

Special Aluma Cut Carbide Burrs

Precisely grinded by diamond wheel, clear & smooth surface finishing, fast chip removal

Unique edge shape design providing sharp and easy cutting

Wide arc flute, fast chip removal, especially applied to soft materials such as aluminum alloy etc.

High welding strength, bending & breaking resistance

High rigidity alloy steel shank



Made from ultra fine grain carbide, high strength, high wear-resistant

High rotation accuracy, smooth cutting when processing

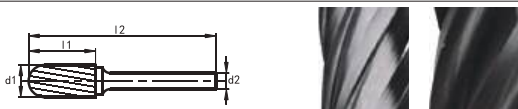
Large rake angle providing sharp and easy cutting

DLC coating, high hardness, high corrosion-resistant and wear-resistant



Special Aluma Cut Cylindrical Ball Nose

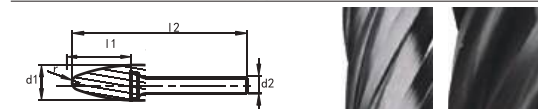
- Suitable for aluminum alloy surface profiling and welding scars cleaning



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Aluma Cut Uncoated Order Code TFCB03	Aluma Cut DLC Coated Order Code TFCB03
C1020	10	20	6	65	-01020Z	-21020Z
C1225	12	25	6	70	-01225Z	-21225Z

Special Aluma Cut Round Tree

- Suitable for aluminum alloy slotted processing before welding, contouring and welding scars cleaning after vertical welding



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Head R. (r) mm	Aluma Cut Uncoated Order Code TFCB06	Aluma Cut DLC Coated Order Code TFCB06
F0618	6	18	6	50	1.6	-00618Z	-20618Z
F1020	10	20	6	65	2.4	-01020Z	-21020Z
F1225	12	25	6	70	3	-01225Z	-21225Z

5Pc DLC Coating Carbide Burr Set (Aviation Grade, 6mm Shank, Aluma Cut)

- 5pc 6mm shank special aluma cut set
- Suitable for aluminum alloy surface contouring applications
- Packed in a quality ABS box, stronger protection, lightweight and durable for easy storage and stacking



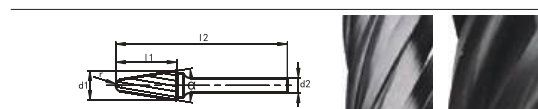
Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Order Code TFCB88
C1020	10	20	6	65	-20105Z
C1225	12	25	6	70	
F0618	6	18	6	50	
F1020	10	20	6	65	
F1225	12	25	6	70	

Spare ABS Box

Order Code	Size (mm)
TFCB00	145×105×40

Special Aluma Cut Conical Ball Nose

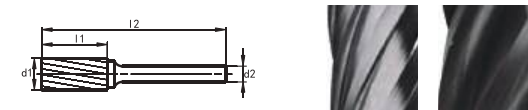
- Suitable for aluminum alloy surface contouring, narrow area contouring and welding scar cleaning



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Head R. (r) mm	Aluma Cut Uncoated Order Code TFCB09	Aluma Cut DLC Coated Order Code TFCB09
L1636	16	36	6	75	4.8	-01636Z	-21636Z

Aluma Cut Cylindrical Plain End

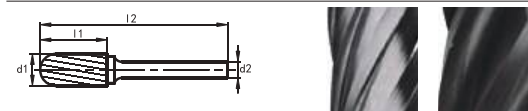
- Suitable for surface profiling



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Aluma Cut Uncoated Order Code TFCB01	Aluma Cut DLC Coated Order Code TFCB01
3mm Shank						
A0314	3	14	3	38	-00314W	-20314W
A0613	6	13	3	53	-00613W	-20613W
6mm Shank						
A0618	6	18	6	50	-00618W	-20618W
A0818	8	18	6	64	-00818W	-20818W
A1020	10	20	6	65	-01020W	-21020W
A1225	12	25	6	70	-01225W	-21225W
A1625	16	25	6	70	-01625W	-21625W
A1925	19	25	6	70	-01925W	-21925W
8mm Shank						
A1225W08	12	25	8	70	-01228W	-21228W

Aluma Cut Cylindrical Ball Nose

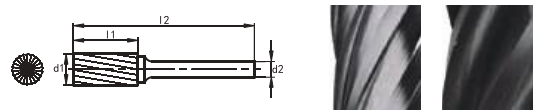
- Suitable for surface profiling and round edge contouring



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Aluma Cut Uncoated Order Code TFCB03	Aluma Cut DLC Coated Order Code TFCB03
3mm Shank						
C0314	3	14	3	38	-00314W	-20314W
C0613	6	13	3	53	-00613W	-20613W
6mm Shank						
C0618	6	18	6	50	-00618W	-20618W
C0818	8	18	6	63	-00818W	-20818W
C1020	10	20	6	65	-01020W	-21020W
C1225	12	25	6	70	-01225W	-21225W
C1625	16	25	6	70	-01625W	-21625W
C1925	19	25	6	70	-01925W	-21925W
8mm Shank						
C1225	12	25	8	70	-01228W	-21228W

Aluma Cut Cylindrical-End Cutting

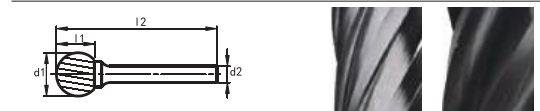
- Suitable for profiling surfaces and intersections of right angles



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Aluma Cut Uncoated Order Code TFCB02	Aluma Cut DLC Coated Order Code TFCB02
3mm Shank						
B0314	3	14	3	38	-00314W	-20314W
B0613	6	13	3	58	-00613W	-20613W
6mm Shank						
B0618	6	18	6	50	-00618W	-20618W
B0818	8	18	6	64	-00818W	-20818W
B1020	10	20	6	65	-01020W	-21020W
B1225	12	25	6	70	-01225W	-21225W
B1625	16	25	6	70	-01625W	-21625W
B1925	19	25	6	70	-01925W	-21925W
8mm Shank						
B1225	12	25	8	70	-01228W	-21228W

Aluma Cut Ball Shape

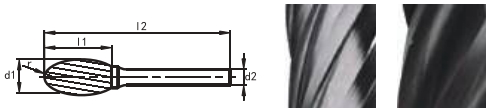
- Suitable for arc contouring, caliber deburring and pre-processing prior to welding



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Aluma Cut Uncoated Order Code TFCB04	Aluma Cut DLC Coated Order Code TFCB04
3mm Shank						
D0303	3	2.8	3	38	-00303W	-20303W
D0605	6	5.4	3	45	-00605W	-20605W
6mm Shank						
D0605	6	5.4	6	50	-00606W	-20606W
D0807	8	7.2	6	52	-00807W	-20807W
D1009	10	9	6	53	-01009W	-21009W
D1211	12	10.8	6	56	-01211W	-21211W
D1614	16	14.4	6	59	-01614W	-21614W
D1917	19	17.1	6	61	-01917W	-21917W
8mm Shank						
D1211	12	10.8	8	56	-01218W	-21218W

Aluma Cut Oval Shape

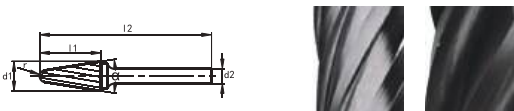
- Suitable for arc contouring



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Head R. (r) mm	Aluma Cut Uncoated Order Code TFCB05	Aluma Cut DLC Coated Order Code TFCB05
6mm Shank							
E0610	6	10	6	50	2.4	-00610W	-20610W
E0813	8	13	6	58	3.7	-00813W	-20813W
E1016	10	16	6	61	4.0	-01016W	-21016W
E1220	12	20	6	65	4.0	-01220W	-21220W
E1625	16	25	6	70	6.3	-01625W	-21625W
E1925	19	25	6	70	8.0	-01925W	-21925W

Aluma Cut Conical Ball Nose

- Suitable for surface and narrow area contouring

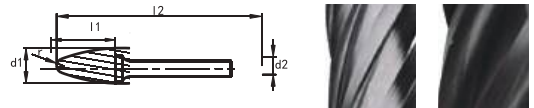


Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Head R. (r) mm	Aluma Cut Uncoated Order Code TFCB09	Aluma Cut DLC Coated Order Code TFCB09
6mm Shank							
L0616	6	16	6	50	1.2	-00616W	-20616W
L0822	8	22	6	67	1.4	-00822W	-20822W
L1027	10	27	6	72	1.6	-01027W	-21027W
L1230	12	30	6	75	3.2	-01230W	-21230W
L1630	16	30	6	75	4.8	-01630W	-21630W
L1938	19	38	6	83	5.6	-01938W	-21938W
8mm Shank							
L1230	12	30	8	75	3.2	-01238W	-21238W
L1630	16	30	8	75	4.8	-01638W	-21638W



Aluma Cut Round Tree

- Suitable for contouring in narrow areas



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Head R. (r) mm	Aluma Cut Uncoated Order Code TFCB06	Aluma Cut DLC Coated Order Code TFCB06
3mm Shank							
F0313	3	13	3	38	0.9	-00313W	-20313W
F0613	6	13	3	53	1.6	-00613W	-20613W
6mm Shank							
F0618	6	18	6	50	1.6	-00618W	-20618W
F0818	8	18	6	63	1.8	-00818W	-20818W
F1020	10	20	6	65	2.4	-01020W	-21020W
F1225	12	25	6	70	3	-01225W	-21225W
F1625	16	25	6	70	3.5	-01625W	-21625W
F1925	19	25	6	70	4.7	-01925W	-21925W
8mm Shank							
F1225	12	25	8	70	3	-01228W	-21228W

5Pc Carbide Burr Set (6mm Shank, Aluma Cut)

- 5pc common tooth shape assorted set
- Suitable for aluminum alloy surface contouring
- Packed in a quality ABS box, stronger protection, lightweight and durable for easy storage and stacking



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Order Code TFCB88
C1020	10	20	6	65	-00105W
C1225	12	25	6	70	
F0618	6	18	6	50	
F1020	10	20	6	65	
F1225	12	25	6	70	

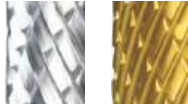
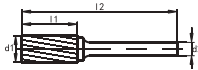
Spare ABS Box

Order Code TFCB00	Size (mm)
-01005B	145×105×40



General Series - Cylindrical Plain End

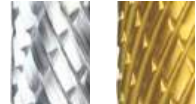
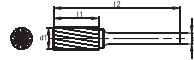
- Suitable for surface profiling



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Double Cut (X) Order Code TFCB01	TiN Double Cut (X) Order Code TFCB01
3mm Shank						
A0314	3	14	3	38	-40314X	-41314X
A0613	6	13	3	53	-40613X	-41613X
6mm Shank						
A0616	6	16	6	50	-40616X	-41616X
A0819	8	19	6	64	-40819X	-41819X
A1020	10	20	6	65	-50102X	-51102X
A1225	12	25	6	70	-50122X	-51122X
A1625	16	25	6	70	-50162X	-51162X
A1925	19	25	6	70	-50192X	-51192X
8mm Shank						
A1225	12	25	8	70	-50128X	-51128X

General Series - Cylindrical-End Cutting

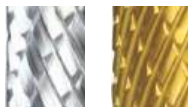
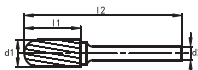
- Suitable for profiling surface and two right-angle intersections



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Double Cut (X) Order Code TFCB02	TiN Double Cut (X) Order Code TFCB02
3mm Shank						
B0314	3	14	3	38	-40314X	-41314X
B0613	6	13	3	53	-40613X	-41613X
6mm Shank						
B0619	6	19	6	50	-40619X	-41619X
B0819	8	19	6	64	-40819X	-41819X
B1020	10	20	6	65	-50102X	-51102X
B1225	12	25	6	70	-50122X	-51122X
B1625	16	25	6	70	-50162X	-51162X
B1925	19	25	6	70	-50192X	-51192X
8mm Shank						
B1225	12	25	8	70	-50128X	-51128X

General Series - Cylindrical Ball Nose

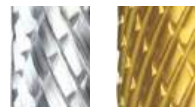
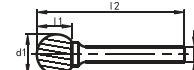
- Suitable for processing surface profiles and arc contours



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Double Cut (X) Order Code TFCB03	TiN Double Cut (X) Order Code TFCB03
3mm Shank						
C0314	3	14	3	38	-40314X	-41314X
C0613	6	13	3	53	-40613X	-41613X
6mm Shank						
C0616	6	16	6	50	-40616X	-41616X
C0819	8	19	6	64	-40819X	-41819X
C1020	10	20	6	65	-50102X	-51102X
C1225	12	25	6	70	-50122X	-51122X
C1625	16	25	6	70	-50162X	-51162X
C1925	19	25	6	70	-50192X	-51192X
8mm Shank						
C1225	12	25	8	70	-50128X	-51128X

General Series - Ball Shape

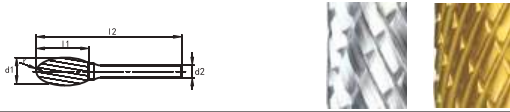
- Suitable for arc contouring, caliber deburring and pre-processing prior to welding



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Double Cut (X) Order Code TFCB04	TiN Double Cut (X) Order Code TFCB04
3mm Shank						
D0303	3	2.7	3	38	-40303X	-41303X
D0504	5	4.5	3	44	-40504X	-41504X
6mm Shank						
D0605	6	5.4	6	50	-40605X	-41605X
D0807	8	7.2	6	52	-40807X	-41807X
D1009	10	9	6	54	-50109X	-51109X
D1211	12	10.8	6	56	-50121X	-51121X
D1614	16	14.4	6	59	-50161X	-51161X
D1916	19	17.1	6	61	-50191X	-51191X
8mm Shank						
D1211	12	10.8	8	56	-50128X	-51128X

General Series - Oval Shape

- Suitable for arc contouring



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Head R. (r) mm	Double Cut (X) Order Code TFCB05	TiN Double Cut (X) Order Code TFCB05
3mm Shank							
E0306	3	6	3	38	1.2	-40306X	-41306X
E0609	6	9	3	50	2.4	-40609X	-41609X
6mm Shank							
E0610	6	10	6	50	2.4	-40610X	-41610X
E0813	8	13	6	58	3.7	-40813X	-41813X
E1016	10	16	6	61	4.0	-50101X	-51101X
E1220	12	20	6	65	4.0	-50122X	-51122X
E1625	16	25	6	70	6.3	-50162X	-51162X
E1925	19	25	6	70	8.0	-50192X	-51192X
8mm Shank							
E1220	12	20	8	65	4.0	-50128X	-51128X

General Series - Pointed Tree

- Suitable for processing arc narrow outlines and contours with sharp edges



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Double Cut (X) Order Code TFCB07	TiN Double Cut (X) Order Code TFCB07
3mm Shank						
G0313	3	13	3	38	-40313X	-41313X
G0613	6	13	3	53	-40613X	-41613X
6mm Shank						
G0618	6	18	6	50	-40618X	-41618X
G0818	8	18	6	63	-40818X	-41818X
G1020	10	20	6	65	-50102X	-51102X
G1225	12	25	6	70	-50122X	-51122X
G1625	16	25	6	70	-50162X	-51162X
G1925	19	25	6	70	-50192X	-51192X
8mm Shank						
G1225	12	25	8	70	-50128X	-51128X

General Series - Round Tree

- Suitable for processing arc contours at narrow areas



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Head R. (r) mm	Double Cut (X) Order Code TFCB06	TiN Double Cut (X) Order Code TFCB06
3mm Shank							
F0313	3	13	3	38	0.6	-40313X	-41313X
F0613	6	13	3	53	1.6	-40613X	-41613X
6mm Shank							
F0618	6	18	6	50	1.6	-40618X	-41618X
F0818	8	18	6	63	1.8	-40818X	-41818X
F1020	10	20	6	65	2.4	-50102X	-51102X
F1225	12	25	6	70	3.0	-50122X	-51122X
F1325	12.7	25	6	70	3.2	-50132X	-51132X
F1625	16	25	6	70	3.5	-50162X	-51162X
F1925	19	25	6	70	4.7	-50192X	-51192X
8mm Shank							
F1225	12	25	8	70	3.0	-50128X	-51128X
F1625	16	25	8	70	3.5	-50168X	-51168X

General Series - Flame Shape

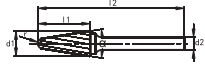
- Suitable for arc contouring



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Head R. (r) mm	Double Cut (X) Order Code TFCB08	TiN Double Cut (X) Order Code TFCB08
3mm Shank							
H0307	3	7	3	38	0.8	-40307X	-41307X
H0618	6	18	6	50	1.0	-40618X	-41618X
6mm Shank							
H0819	8	19	6	64	1.6	-40819X	-41819X
H1025	10	25	6	70	2.0	-50102X	-51102X
H1232	12	32	6	77	2.4	-50123X	-51123X
H1636	16	36	6	81	3.0	-50163X	-51163X
H1941	19	41	6	86	4.0	-50194X	-51194X

General Series - Conical Ball Nose

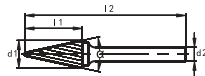
- Suitable for processing narrow outlines and surface contours



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Overall L. (l2) mm	Head R. (r) mm	Angle (α)	Double Cut (X) Order Code TFCB09	TiN Double Cut (X) Order Code TFCB09
3mm Shank							
L0313	3	13	38	0.6	8°	-40313X	-41313X
L0619	6	19	59	1.2	14°	-40619X	-41619X
6mm Shank							
L0616	6	16	50	1.2	14°	-40616X	-41616X
L0822	8	22	67	1.4	14°	-40822X	-41822X
L1027	10	27	72	1.6	14°	-50102X	-51102X
L1230	12	30	75	3.2	14°	-50123X	-51123X
L1630	16	30	75	4.8	14°	-50163X	-51163X
L1938	19	38	83	5.6	14°	-50193X	-51193X
8mm Shank							
L1230	12	30	75	3.2	14°	-50128X	-51128X

General Series - Conical

- Suitable for processing arc narrow outlines and contours with sharp angles

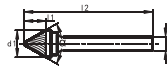


Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Angle (α)	Double Cut (X) Order Code TFCB10	TiN Double Cut (X) Order Code TFCB10
3mm Shank							
M0311	3	11	3	38	14°	-40311X	-41311X
M0613	6	13	3	53	22°	-40613X	-41613X
6mm Shank							
M0618	6	18	6	50	14°	-40618X	-41618X
M0820	8	20	6	65	28°	-40820X	-41820X
M1020	10	20	6	65	25°	-50102X	-51102X
M1225	12	25	6	70	25°	-50122X	-51122X
M1625	16	25	6	70	31°	-50163X	-51163X
8mm Shank							
M1225	12	25	8	70	25°	-50128X	-51128X

General Series - Conical 60°



- Suitable for countersinking and chamfering

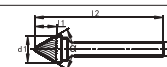


Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Angle (α)	Double Cut (X) Order Code TFCB11	TiN Double Cut (X) Order Code TFCB11
3mm Shank							
J03×2.5	3	2.5	3	38	60°	-40325X	-41325X
J0604	6	4	6	50	60°	-40604X	-41604X
6mm Shank							
J0807	8	7	6	52	60°	-40807X	-41807X
J1008	10	8	6	58	60°	-50108X	-51108X
J1210	12	10	6	60	60°	-50121X	-51121X
J1614	16	14	6	64	60°	-50161X	-51161X
J1916	19	16	6	66	60°	-50191X	-51191X

General Series - Conical 90°



- Suitable for countersinking and chamfering

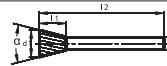


Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Angle (α)	Double Cut (X) Order Code TFCB12	TiN Double Cut (X) Order Code TFCB12
3mm Shank							
K0302	3	2	3	38	90°	-40302X	-41302X
K0603	6	3	6	50	90°	-40603X	-41603X
6mm Shank							
K0804	8	4	6	54	90°	-40804X	-41804X
K1005	10	5	6	55	90°	-50105X	-51105X
K1206	12	6	6	56	90°	-50126X	-51126X
K1608	16	8	6	58	90°	-50168X	-51168X
K1910	19	10	6	60	90°	-50191X	-51191X

General Series - Inverted Cone



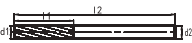
- Suitable for internal chamfering



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Angle (α)	Double Cut (X) Order Code TFCB13	TiN Double Cut (X) Order Code TFCB13
3mm Shank							
N0303	3	3	3	38	10°	-40303X	-41303X
N0606	6	6	3	46	10°	-40606X	-41606X
6mm Shank							
N0608	6	8	6	50	10°	-40608X	-41608X
N1010	10	10	6	55	13°	-50101X	-51101X
N1313	13	13	6	58	28°	-50131X	-51131X
N1619	16	19	6	64	18°	-50161X	-51161X
N1916	19	16	6	61	30°	-50191X	-51191X

Special Series - Fiberglass Routers

- Designed especially for cutting fiberglass, fiberglass PCB boards, composites, phenolic and other highly abrasive materials
- Burr end is suitable for end milling
- The upcut/downcut diamond design can effectively shear fibrous materials
- Plain end is suitable for trimming the edges
- Recommended speed: 20000 - 36000rpm



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	Burr End	Diamond	Plain End
					Order Code TFCB40	Order Code TFCB41	Order Code TFCB42
P0313Q03140	3	13	3	40	-00313Q	-00313D	-00313E
P0620Q06150	6	20	6	50	-00620Q	-00620D	-00620E
P0825Q08180	8	25	8	80	-00825Q	-00825D	-00825E
P1025Q10180	10	25	10	80	-01025Q	-01025D	-01025E
P1230Q12180	12	30	12	80	-01230Q	-01230D	-01230E

10Pc TiN Coated Carbide Burr Set (Aviation Grade, 6mm Shank, Double Cut)

- An aviation grade product, mainly used in aviation industry, military, high-speed rail and other heavy-duty equipment manufactures
- TiN coating enhances the wear resistance, reduces the coefficient of friction for longer tool life
- Packed in a rigid, stackable and light-weight ABS box



Ref. No.	Head Dia. mm	Head L. mm	Shank Dia. mm	Overall L. mm	Order Code TFCB88
A1225	12	25	6	70	-41010X
C0616	6	16	6	50	
C1225	12	25	6	70	
D1211	12	10.8	6	56	
D0605	6	5.4	6	50	
F0618	6	18	6	50	
F1225	12	25	6	70	
G0618	6	18	6	50	
L1230	12	30	6	75	
M0618	6	18	6	50	



Spare ABS Box

Order Code	Size (mm)
TFCB00	
-01005B	145×105×40

5Pc Carbide Burr Set for General Machining (6mm Shank, Double Cut)

- Used in machining industry
- Packed in a rigid, stackable and light-weight ABS box



Ref. No.	Head Dia. mm	Head L. mm	Shank Dia. mm	Overall L. mm	Order Code TFCB88
D1009	10	9	6	53	-40005X
E1220	12	20	6	65	
F1225	12	25	6	70	
G1225	12	25	6	70	
M1225	12	25	6	70	

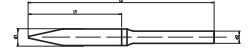


Spare ABS Box

Order Code	Size (mm)
TFCB00	
-01005B	145×105×40

Special Series - Carbide Tyre Wire Cutters

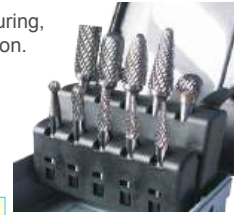
- Suitable for repairs to truck tires, tires for agricultural vehicles and construction vehicles tires, efficiently extending the tire life and greatly reducing the costs
- Mainly used in the heavy duty industries such as mining, oil fields, aerospace eTF.
- 3-flat shank allows stronger clamping of slip-free
- Maximum speed of working: 500rpm



Ref. No.	Head Dia. (d1) mm	Head L. (l1) mm	Shank Dia. (d2) mm	Overall L. (l2) mm	3-flat Shank Order Code TFCB50
M0331X03165	3	31	3	65	-10331C
M0452X04175	4	52	4	75	-10452C
M0652X06180	6	52	6	80	-10652C
M0852X061100	8	52	8	100	-10852C
M1065X9.5T10	10	65	10	110	-11065C
M1378X9.5T125	13	78	10	125	-11378C

10Pc Carbide Burr Set (High Performance Grade, 6mm Shank, Double Cut)

- Used in many industries such as shipbuilding, machinery manufacturing, automobile manufacturing and so on.
- Packed in a rigid, stackable and light-weight ABS box



Ref. No.	Head Dia. mm	Head L. mm	Shank Dia. mm	Overall L. mm	Order Code TFCB88
A1225	12	25	6	70	-40010X
C0616	6	16	6	50	
C1225	12	25	6	70	
D1211	12	10.8	6	56	
D0605	6	5	6	50	
F0618	6	18	6	56	
F1225	12	25	6	70	
G0618	6	18	6	50	
L1230	12	30	6	75	
M0618	6	18	6	50	



Spare ABS Box

Order Code	Size (mm)
TFCB00	
-02010B	145×105×40

10Pc Carbide Burr Set for Stainless Steel (6mm Shank, Single Cut)

- Especially for processing the stainless steel
- Packed in a rigid, stackable and light-weight ABS box



Ref. No.	Head Dia. mm	Head L. mm	Shank Dia. mm	Overall L. mm	Order Code TFCB88
B1225	12	25	6	70	-40010P
B0619	6	19	6	50	
C0616	6	16	6	50	
D0605	6	5.4	6	50	
D1211	12	10.8	6	56	
F0618	6	18	6	50	
F1225	12	25	6	70	
G0618	6	18	6	50	
G1225	12	25	6	70	
L1230	12	30	6	75	



Spare ABS Box

Order Code	Size (mm)
TFCB00	
-02010B	145×105×40

8Pc Carbide Burr Set for Moulding Repair (3mm Shank, Double Cut)

- Dedicated to the mold maker industry
- Unique plastic cylinder packaging, good fixity, easy to carry



Size	Head Dia. mm	Head L. mm	Shank Dia. mm	Overall L. mm	Order Code
A0314	3	14	3	38	-40008X
B0314	3	14	3	38	
C0314	3	14	3	38	
D0303	3	2.7	3	38	
E0306	3	6	3	38	
F0313	3	13	3	38	
G0313	3	13	3	38	
L0313	3	13	3	38	

ABS Plastic Box

Order Code	Size (mm)
TFCB00	
-03008B	65 × 100

8Pc Carbide Burr Set for Glass Fiber & TPE (6mm Shank, Diamond Cut)

- Dedicated to the mold maker industry
- Unique plastic cylinder packaging, good fixity, easy to carry



Size	Head Dia. mm	Head L. mm	Shank Dia. mm	Overall L. mm	Order Code
A0616	6	16	6	50	-40108Q
B0619	6	19	6	50	
C0616	6	16	6	50	
D0605	6	5	6	50	
E0610	6	10	6	50	
F0618	6	18	6	50	
G0618	6	18	6	50	
L0616	6	16	6	50	

ABS Plastic Box

Order Code	Size (mm)
TFCB00	
-03008B	65 × 100

5Pc Long Shank Carbide Burr Set

- Excellent handle rigidity, not easily deformed
- High accuracy slewing, smooth and efficient processing
- Mainly suitable for deep groove and not easy reached site



Size	Head Dia. mm	Head L. mm	Shank Dia. mm	Overall L. mm	Order Code
A1020	10	20	6	150	-70005X
C1020	10	20	6	150	
F1020	10	20	6	150	
G1020	10	20	6	150	
L1027	10	27	6	150	

6Pc Carbide Tyre Wire Cutter Set

- For big truck tire repair, can effectively extend the life of the tire, greatly reduce the cost
- Apply to mines, oil fields, military, aerospace, construction machinery, metallurgy and other areas of heavy industry



Head Dia. mm	Head L. mm	Shank Dia. mm	Overall L. mm	Order Code
3	31	3	65	-10006X
4	45	4	75	
6	52	6	80	
8	52	8	100	
10	65	10	111	
13	78	10	125	

TEMOTUF™ Special Carbide Burrs with INOX Cut EXCELLENT

- Specifically developed carbide burrs especially for work on stainless steel (INOX) in the form of the INOX cut
- The INOX cut is characterized by an extremely high stock removal rate on all austenitic steels, as well as rust-and-acid-resistant steels
- High performance grinding - ensuring production savings and reducing heat build up at the cutting edge and work-piece
- In excess of 100% more stock removal compared to conventional burr geometry
- Guaranteed high performance and durability

A Shape



Size	Head Dia. (mm)	Head L. (mm)	Shank Dia. (mm)	Overall L. (mm)	Order Code
A03*14N03138	3	14	3	38	-10314N
A06*18N06150	6	18	6	50	-10618N
A08*18N06T63	8	18	6	63	-10818N
A10*20N06T65	10	20	6	65	-11020N
A12*25N06T70	12	25	6	70	-11225N

C Shape



Size	Head Dia. (mm)	Head L. (mm)	Shank Dia. (mm)	Overall L. (mm)	Order Code
C03*14N03138	3	14	3	38	-20314N
C06*18N06150	6	18	6	50	-20618N
C08*18N06T63	8	18	6	63	-20818N
C10*20N06T65	10	20	6	65	-21020N
C12*25N06T70	12	25	6	70	-21225N

D Shape



Size	Head Dia. (mm)	Head L. (mm)	Shank Dia. (mm)	Overall L. (mm)	Order Code
D03*2.8N03138	3	2.8	3	38	-30303N
D06*05N06150	6	5	6	50	-30605N
D08*07N06T52	8	7	6	52	-30807N
F10*09N06T54	10	9	6	54	-31009N
D12*11N06T56	12	11	6	56	-31211N

F Shape



Size	Head Dia. (mm)	Head L. (mm)	Shank Dia. (mm)	Overall L. (mm)	Order Code
F03*13N03138	3	13	3	38	-40313N
F06*18N06150	6	18	6	50	-40618N
F08*18N06T63	8	18	6	63	-40818N
F10*20N06T65	10	20	6	65	-41020N
F12*25N06T70	12	25	6	70	-41225N

G Shape



Size	Head Dia. (mm)	Head L. (mm)	Shank Dia. (mm)	Overall L. (mm)	Order Code
G03*13N03138	3	13	3	38	-50313N
G06*18N06150	6	18	6	50	-50618N
G08*18N06T63	8	18	6	63	-50818N
G10*20N06T65	10	20	6	65	-51020N
G12*25N06T70	12	25	6	70	-51225N

5Pc Special Carbide Burrs with INOX Cut Set

- 10mm Head Dia Combination Set
- Rose Plastic Packaging

Size	Head Dia. (mm)	Head L. (mm)	Shank Dia. (mm)	Overall L. (mm)	Order Code
A10*20N06T65	10	20	6	65	-11005N
C10*20N06T65	10	20	6	65	
D10*09N06T54	10	9	6	54	
F10*20N06T65	10	20	6	65	
G10*20N06T65	10	20	6	65	

Black/Golden Finish Jobber Drills - Standard

- Made of quality HSS M2
- Fully ground flute, high precision, strong self centering ability
- 3-flat shank giving more clamping force to the drill bits
- Use with hand power drills, bench presses and pillar drills etc. Suitable for the materials such as grey cast iron, malleable cast iron, carbon steel, die-cast steel, nickel silver and graphite etc.
- Special black gold treatment enhancing the surface hardness, corrosion resistance and fast chip removal
- Manufactured to German standard DIN338



Order Code	Flute Dia. (mm)	Flute L. (mm)	Overall L. (mm)	Shank Type	Min PKG Qty
TFDR10					
-00100A	1.0	12	34	Straight	10
-00120A	1.2	16	38	Straight	10
-00150A	1.5	18	40	Straight	10
-00160A	1.6	20	43	Straight	10
-00200A	2.0	24	49	Straight	10
-00250A	2.5	30	57	Straight	10
-00280A	2.8	33	61	Straight	10
-00300A	3.0	33	61	Straight	10
-00320A	3.2	36	65	Straight	10
-00330A	3.3	36	65	Straight	10
-00350A	3.5	39	70	Straight	10
-00400A	4.0	43	75	Straight	10
-00420A	4.2	43	75	Straight	10
-00450A	4.5	47	80	Straight	10
-00480A	4.8	52	86	Straight	10
-00500A	5.0	52	86	Straight	10
-00520A	5.2	52	86	Straight	10
-00530A	5.3	52	86	Straight	10
-00550A	5.5	57	93	Straight	10
-00580A	5.8	57	93	Straight	10
-00600A	6.0	57	93	3-flat	10
-00640A	6.4	63	101	3-flat	10
-00650A	6.5	63	101	3-flat	10
-00680A	6.8	69	109	3-flat	10
-00700A	7.0	69	109	3-flat	10
-00720A	7.2	69	109	3-flat	10
-00750A	7.5	69	109	3-flat	10
-00800A	8.0	75	117	3-flat	5
-00850A	8.5	75	117	3-flat	5
-00900A	9.0	81	125	3-flat	5
-00950A	9.5	81	125	3-flat	5
-01000A	10.0	87	133	3-flat	5
-01020A	10.2	87	133	3-flat	5
-01030A	10.3	87	133	3-flat	5
-01050A	10.5	87	133	3-flat	5
-01100A	11.0	94	142	3-flat	5
-01150A	11.5	94	142	3-flat	5
-01200A	12.0	101	151	3-flat	5
-01250A	12.5	101	151	3-flat	5
-01300A	13.0	101	151	3-flat	5
-01350A	13.5	108	160	3-flat	5
-01400A	14.0	108	160	3-flat	5

HSS Cobalt Jobber Drills

- Made of quality HSS M35
- Fully ground flute, high precision, strong self centering ability
- Excellent cutting hardness, wear resistance and toughness under high temperature
- Quenching hardness up to HRC66-67, higher than M2 material
- Use with hand power drills, bench presses and pillar drills etc. Suitable for the materials such as stainless steel, heat-resistant steel and titanium etc.
- Manufactured to German standard DIN338



Order Code	Flute Dia. (mm)	Flute L. (mm)	Overall L. (mm)	Min PKG Qty
TFDR20				
-00100C	1.0	12	34	10
-00150C	1.5	18	40	10
-00160C	1.6	20	43	10
-00200C	2.0	24	49	10
-00250C	2.5	30	57	10
-00300C	3.0	33	61	10
-00320C	3.2	36	65	10
-00330C	3.3	36	65	10
-00350C	3.5	39	70	10
-00400C	4.0	43	75	10
-00420C	4.2	43	75	10
-00450C	4.5	47	80	10
-00480C	4.8	52	86	10
-00500C	5.0	52	86	10
-00520C	5.2	52	86	10
-00530C	5.3	52	86	10
-00550C	5.5	57	93	10
-00580C	5.8	57	93	10
-00600C	6.0	57	93	10
-00620C	6.2	63	101	10
-00650C	6.5	63	101	10
-00680C	6.8	69	109	10
-00700C	7.0	69	109	10
-00720C	7.2	69	109	10
-00750C	7.5	69	109	10
-00780C	7.8	75	117	10
-00800C	8.0	75	117	5
-00850C	8.5	75	117	5
-00900C	9.0	81	125	5
-00950C	9.5	81	125	5
-00980C	9.8	87	133	5
-01000C	10.0	87	133	5
-01030C	10.3	87	133	5
-01050C	10.5	87	133	5
-01100C	11.0	94	142	5
-01150C	11.5	94	142	5
-01200C	12.0	101	151	5
-01250C	12.5	101	151	5
-01300C	13.0	101	151	5
-01400C	14.0	108	160	5



HSS Jobber Drill Sets

Size	Number of pieces	Package	HSS	HSS Cobalt
			Order Code TFDR10	Order Code TFDR20
1.5, 2.0, 2.5, 3.0, 3.2, 3.5, 4.0, 4.5, 4.8, 5.0, 5.5, 6.0, 6.5(mm)	13Pc Metric	Metal Box	-80113M	-80113M
1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0(mm)	19Pc Metric	ABS Box	-80119M	-80119M
1.0, 1.5, 2.0, 2.5, 3.0, 3.5, 4.0, 4.5, 5.0, 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0, 10.5, 11.0, 11.5, 12.0, 12.5, 13.0(mm)	25Pc Metric	ABS Box	-80125M	-80125M
1/16", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 15/32", 1/2"	15Pc Inch (Bright Finish)	ABS Box	-90215N	-

150Pc HSS Black/Golden Finish Jobber Drill Set - Metric

- Made of quality HSS M2, fully ground flute
- Content as below:
5pcs of each size: 5.5, 6.0, 6.5, 7.0, 7.5, 8.0, 8.5, 9.0, 9.5, 10.0mm
10pcs of each size: 1.0, 1.5, 2.0, 2.5, 3.5, 4.0, 4.5, 5.0mm
20pcs: 3.0mm
- Packed in a rigid steel box
- DIN338 standard



Order Code	Size (mm)
TFDR10	
-80150M	1.0 ~ 10.0

Order spare steel box by below code:
TFOW06-00112A

Black/Golden Finish Jobber Drills - Long Series

- Manufactured to the German standard DIN340



Order Code	Dia. (mm)	Flute L. (mm)	Overall L. (mm)
TFDR11			
-00100L	1.0	33	56
-00150L	1.5	45	70
-00200L	2.0	56	85
-00250L	2.5	62	95
-00300L	3.0	66	100
-00350L	3.5	73	112
-00400L	4.0	78	119
-00450L	4.5	82	126
-00500L	5.0	87	132
-00520L	5.2	87	132
-00550L	5.5	91	139
-00600L	6.0	91	139
-00650L	6.5	97	148

Order Code	Dia. (mm)	Flute L. (mm)	Overall L. (mm)
TFDR11			
-00700L	7.0	102	156
-00750L	7.5	102	156
-00800L	8.0	109	165
-00850L	8.5	109	165
-00900L	9.0	115	175
-00950L	9.5	115	175
-01000L	10.0	121	184
-01050L	10.5	121	184
-01100L	11.0	128	195
-01150L	11.5	128	195
-01200L	12.0	134	205
-01250L	12.5	134	205
-01300L	13.0	134	205

Parabolic Flute 135° HSS Bright Jobber Drills - Long Series

- Made of high-performance high-speed steel (M2)
- Fully ground flute, sharp cutting edge, the parabolic flute contributing the faster chip removal
- Manufactured to German standard DIN1869-2



Order Code	Dia. (mm)	Flute L. (mm)	Overall L. (mm)
TFDR11			
-20300L	3.0	130	190
-20350L	3.5	145	210
-20400L	4.0	150	220
-20450L	4.5	160	235
-20500L	5.0	170	245
-20550L	5.5	180	260
-20600L	6.0	180	260
-20650L	6.5	190	275
-20700L	7.0	200	290
-20750L	7.5	200	290
-20800L	8.0	210	305

Order Code	Dia. (mm)	Flute L. (mm)	Overall L. (mm)
TFDR11			
-20850L	8.5	210	305
-20900L	9.0	220	320
-20950L	9.5	220	320
-21000L	10.0	235	340
-21050L	10.5	235	340
-21100L	11.0	250	365
-21150L	11.5	250	365
-21200L	12.0	260	375
-21250L	12.5	260	375
-21300L	13.0	260	375

Black/Golden Finish Inch Size Jobber Drills - Standard

- Made of quality HSS M2
- Fully ground flute, high precision, strong self centering ability
- 3-flat shank giving more clamping force to the drill bits
- Special black gold treatment enhancing the surface hardness, corrosion resistance and fast chip removal



Order Code	Flute Dia. (mm)	Flute L. (mm)	Overall L. (mm)	Shank Type	Min PKG Qty
TFDR10					
-10050F	1/64"	3/16"	3/4"	Straight	10
-10055F	3/64"	3/4"	1-3/4"	Straight	10
-10057F	1/16"	7/8"	1-7/8"	Straight	10
-10059F	5/64"	1"	2"	Straight	10
-10061F	3/32"	1-1/4"	2-1/4"	Straight	10
-10063F	7/64"	1-1/2"	2-5/8"	Straight	10
-10065F	1/8"	1-5/8"	2-3/4"	Straight	10
-10070F	9/64"	1-3/4"	2-7/8"	Straight	10
-10080F	5/32"	2"	3-1/8"	Straight	10
-10085F	11/64"	2-1/8"	3-1/4"	Straight	10
-10087F	3/16"	2-5/16"	3-1/2"	Straight	10
-10091F	13/64"	2-7/16"	3-5/8"	Straight	10
-10095F	7/32"	2-1/2"	3-3/4"	Straight	10
-10097F	15/64"	2-5/8"	3-7/8"	Straight	10
-10100F	1/4"	2-3/4"	4"	3-flat	10
-10105F	17/64"	2-7/8"	4-1/8"	3-flat	10
-10110F	9/32"	2-15/16"	4-1/4"	3-flat	10
-10120F	19/64"	3-3/8"	4-3/8"	3-flat	10
-10125F	5/16"	3-3/16"	4-1/2"	3-flat	5
-10127F	21/64"	3-5/16"	4-5/8"	3-flat	5
-10130F	11/32"	3-7/16"	4-3/4"	3-flat	5
-10135F	23/64"	3-1/2"	4-7/8"	3-flat	5
-10140F	3/8"	3-5/8"	5	3-flat	5
-10145F	25/64"	3-3/4"	5-1/8"	3-flat	5
-10155F	13/32"	3-7/8"	5-1/4"	3-flat	5
-10160F	27/64"	3-15/16"	5-3/8"	3-flat	5
-10165F	7/16"	4-1/16"	5-1/2"	3-flat	5
-10170F	29/64"	4-3/16"	5-5/8"	3-flat	5
-10175F	15/32"	4-5/16"	5-3/4"	3-flat	5
-10180F	31/64"	4-3/8"	5-7/8"	3-flat	5
-10185F	1/2"	4-1/2"	6	3-flat	5

Solid Carbide Jobber Drills

- High hardness and strength, good toughness and wear resistance
- Sharp cutting, fast chip removal
- Machinable cast iron, ductile iron, carbon steel and so on
- Manufactured to the German standard DIN338



Order Code	Dia. (mm)	Flute L. (mm)	Overall L. (mm)
TFDR30			
-00100K	1.0	12	34
-00150K	1.5	18	40
-00200K	2.0	24	49
-00250K	2.5	30	57
-00300K	3.0	33	61
-00330K	3.3	36	65
-00350K	3.5	39	70
-00400K	4.0	43	75
-00420K	4.2	43	75
-00450K	4.5	47	80
-00500K	5.0	52	86
-00550K	5.5	57	93
-00600K	6.0	57	93
-00650K	6.5	63	101
-00680K	6.8	69	109
-00700K	7.0	69	109
-00750K	7.5	69	109
-00800K	8.0	75	117
-00850K	8.5	75	117
-00900K	9.0	81	125
-00950K	9.5	81	125

Order Code	Dia. (mm)	Flute L. (mm)	Overall L. (mm)
TFDR30			
-01000K	10.0	87	133
-01030K	10.3	87	133
-01050K	10.5	87	133
-01100K	11.0	94	142
-01150K	11.5	94	142
-01200K	12.0	101	151
-01250K	12.5	101	151
-01300K	13.0	101	151

25Pc set

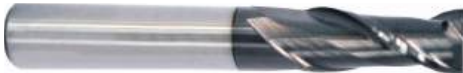


Order Code	Size (mm)	Increment (mm)
TFDR30		
-80125M	1.0 ~ 13.0	0.5

Carbide Co12% End Mills - TiAlN Coated

- Made of WC grain carbide HRA2.0 with 12% ultra high cobalt
- Suitable for roughing and semi-finishing on steel, cast iron and stainless steel
- Strengthened cutting edge and flute, effectively improving the tool life
- TiAlN coating for excellent thermal stability and wear resistance
- Diameter tolerance: h9; shank tolerance: h6
- 2-flute helix: 30°; 4-flute helix: 35°

2-Flute



3-Flute



4-Flute



2-Flute	3-Flute	4-Flute				
Order Code TFCT10	Order Code TFCT10	Order Code TFCT10	Dia. (mm)	Flute L. (mm)	Shank Dia. (mm)	Overall L. (mm)
-20100C	-30100C	-40100C	1.00	3.00	4.00	50.00
-20200C	-30200C	-40200C	2.00	6.00	4.00	50.00
-20300C	-30300C	-40300C	3.00	8.00	4.00	50.00
-20400C	-30400C	-40400C	4.00	10.00	4.00	50.00
-20500C	-30500C	-40500C	5.00	13.00	6.00	50.00
-20600C	-30600C	-40600C	6.00	16.00	6.00	50.00
-20800C	-30800C	-40800C	8.00	20.00	8.00	60.00
-21000C	-31000C	-41000C	10.00	25.00	10.00	75.00
-21200C	-31200C	-41200C	12.00	30.00	12.00	75.00

3-Flute Carbide End Mills for SUS - TiAlN Coated

- Unique design of arc clearance angle and chip angle
- Easy for chip cutting and fast chip removal
- Mirror-like cutting edge, high cutting precision, long tool life
- Best for stainless steel (HRC25 - 35), carbon steel (HRC30), alloy steel (HR25 - 35), tempered steel (HRC30 - 40) titanium alloy (HR25 - 35)
- Good for HRC55 sintered steel and copper



3-Flute

Order Code TFCT16	Dia. (mm)	Flute L. (mm)	Shank Dia. (mm)	Overall L. (mm)
-30300S	3	9	6	50
-30350S	3.5	10.5	6	50
-30400S	4	12	6	50
-30450S	4.5	13.5	6	50
-30500S	5	15	6	50
-30550S	5.5	16.5	6	50
-30600S	6	18	6	50
-30700S	7	21	8	60
-30800S	8	24	8	60
-30900S	9	27	10	75
-31000S	10	30	10	75
-31200S	12	36	12	75

High Performance Carbide 4-Flute End Mills with Special Coating

- Made of ultra fine grain carbide, 45° helix angle
- Unique arc clearance angle
- Special coating ensuring the high speed processing under high temperature
- Smooth cutting edge, fast chip removal, high cutting precision, long life, especially for the high speed processing
- Suitable for carbon structural steel such as A3, S45C, S50C, 40Cr, 42CrMo, 20Cr, 12Cr, H13, NAK80, 718, alloy structural steel, cast steel and mold steel (HRC≤55)



4-Flute

Order Code TFCT18	Dia. (mm)	Flute L. (mm)	Shank Dia. (mm)	Overall L. (mm)
-40300C	3	8	4	50
-40400C	4	10	4	50
-40500C	5	13	6	50
-40600C	6	15	6	50
-40800C	8	20	8	60
-41000C	10	25	10	75
-41200C	12	30	12	75
-41600C	16	40	16	100
-42000C	20	45	20	100

High Performance Carbide 2-Flute Ball Nose End Mills with Special Coating

- Made of ultra fine grain carbide, HRC≤55
- Special coating ensuring the high speed processing under high temperature
- Best for carbon steel (HRC30), alloy steel (HRC25 - 30), tempered steel (HRC30 - 40) and copper
- Good for sintered steel (HRC55) and stainless steel (HRC25 - 30)



2-Flute

Order Code TFCT18	R Dia.	Cutting Dia. (mm)	Flute L. (mm)	Shank Dia. (mm)	Overall L. (mm)
-40100B	0.5R	1	2	4	50
-40150B	0.75R	1.5	3	4	50
-40200B	1R	2	4	4	50
-40250B	1.25R	2.5	5	4	50
-40300B	1.5R	3	6	4	50
-40350B	1.75R	3.5	7	4	50
-40400B	2R	4	8	4	50
-40500B	2.5R	5	10	6	50
-40600B	3R	6	12	6	50
-40700B	3.5R	7	14	8	60
-40800B	4R	8	16	8	60
-40900B	4.5R	9	18	10	75
-41000B	5R	10	20	10	75
-41100B	5.5R	11	22	12	75
-41200B	6R	12	24	12	75
-41600B	8R	16	32	16	100
-42000B	10R	20	40	20	100

High Performance Solid Carbide Square Roughing End Mills

- These TiAlN coated roughing end mills are specially designed for ultimate performance, speed, and productivity.
- These cutters delivery a high level of surface smoothness and cutting precision.
- Applied to many different materials in different shapes such as steel, aluminum, copper, stainless steel and so on.
- Also good for high speed cutting, deep-hole processing etc.

Product Series	Most Suitable Materials to Process	Suitable Materials to Process
General-purpose	Carbon steel, alloy steel, cast iron, ductile iron and steel (HRC≤40)	Pre-hardened steel (HRC≤50), hardened steel, stainless steel, copper alloys and aluminum alloys
MA	Copper alloys and aluminum alloys	-
MS	High temperature aviation alloys, titanium alloys and other difficultly processing materials	Cast iron and ductile iron

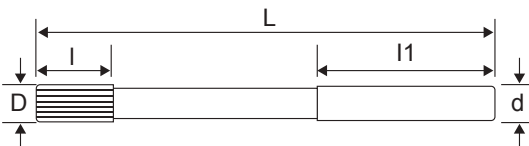


Dia (mm)	Flute L (mm)	Shank Dia (mm)	General-purpose series			MA series			MS series		
			Overall L (mm)	No. of Flute	Order Code TFCT20	Overall L (mm)	No. of Flute	Order Code TFCT20	Overall L (mm)	No. of Flute	Order Code TFCT20
6	16	6	50	4	-14060C	50	3	-23060A	50	4	-34060S
7	20	8	60	4	-14070C	60	3	-23070A	65	4	-34070S
8	20	8	60	4	-14080C	60	3	-23080A	65	4	-34080S
9	22	10	75	4	-14090C	75	3	-23090A	75	4	-34090S
10	25	10	75	4	-14100C	75	3	-23100A	75	4	-34100S
11	26	12	75	4	-14110C	75	3	-23110A	75	4	-34110S
12	30	12	75	4	-14120C	75	3	-23120A	75	4	-34120S
16	45	16	100	4	-14160C	100	3	-23160A	100	4	-34160S
20	45	20	100	4	-14200C	100	3	-23200A	105	4	-34200S

HSS-Co. Straight Shank Machine Reamers

- Made from high performance HSS Cobalt (M35)
- Fully ground, high precision (H7), sharp cutting edge, high-efficiency processing
- Tolerance: H7 cutting diameter / H9 shank
- Manufactured according to DIN standards

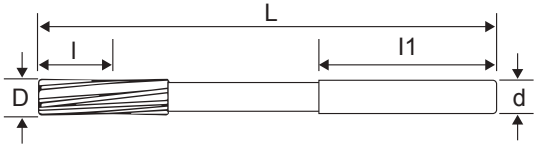
Straight Flute (Manufacturing Standard: DIN212A, C)



Straight Flute

Order Code	D(H7) Dia (mm)	d(H9) Shank (mm)	I Flute L (mm)	I1 Shank L (mm)	L Overall L (mm)	Z Nos Of Flutes
TFCT70						
-00306A	3.0	3.0	15.0	-	61.0	6
-00356A	3.5	3.5	18.0	-	70.0	6
-00406A	4.0	4.0	19.0	32.0	75.0	6
-00456A	4.5	4.5	21.0	33.0	80.0	6
-00506A	5.0	5.0	23.0	34.0	86.0	6
-00556A	5.5	5.6	26.0	36.0	93.0	6
-00606A	6.0	5.6	26.0	36.0	93.0	6
-00706A	7.0	7.1	31.0	40.0	109.0	6
-00806A	8.0	8.0	33.0	42.0	117.0	6
-00906A	9.0	9.0	36.0	44.0	125.0	6
-01006A	10.0	10.0	38.0	46.0	133.0	6
-01108A	11.0	10.0	41.0	46.0	142.0	6
-01208A	12.0	10.0	44.0	46.0	151.0	6
-01308A	13.0	10.0	44.0	46.0	151.0	6
-01408A	14.0	12.5	47.0	50.0	160.0	6
-01508A	15.0	12.5	50.0	50.0	162.0	6
-01608A	16.0	12.5	52.0	52.0	170.0	6
-01708A	17.0	14.0	54.0	52.0	175.0	6
-01808A	18.0	14.0	56.0	52.0	182.0	6
-02010A	20.0	16.0	60.0	58.0	195.0	6

Spiral Flute (Manufacturing Standard: DIN212B, D)

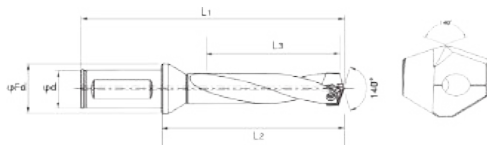


Spiral Flute

Order Code	D(H7) Dia (mm)	d(H9) Shank (mm)	I Flute L (mm)	I1 Shank L (mm)	L Overall L (mm)	Z Nos Of Flutes
TFCT70						
-10306A	3.0	3.0	15.0	-	61.0	6
-10356A	3.5	3.5	18.0	-	70.0	6
-10406A	4.0	4.0	19.0	32.0	75.0	6
-10456A	4.5	4.5	21.0	33.0	80.0	6
-10506A	5.0	5.0	23.0	34.0	86.0	6
-10556A	5.5	5.6	26.0	36.0	93.0	6
-10606A	6.0	5.6	26.0	36.0	93.0	6
-10706A	7.0	7.1	31.0	40.0	109.0	6
-10806A	8.0	8.0	33.0	42.0	117.0	6
-10906A	9.0	9.0	36.0	44.0	125.0	6
-11006A	10.0	10.0	38.0	46.0	133.0	6
-11108A	11.0	10.0	41.0	46.0	142.0	6
-11208A	12.0	10.0	44.0	46.0	151.0	6
-11308A	13.0	10.0	44.0	46.0	151.0	6
-11408A	14.0	12.5	47.0	50.0	160.0	6
-11508A	15.0	12.5	50.0	50.0	162.0	6
-11608A	16.0	12.5	52.0	52.0	170.0	6
-11708A	17.0	14.0	54.0	52.0	175.0	6
-11808A	18.0	14.0	56.0	52.0	182.0	6
-12010A	20.0	16.0	60.0	58.0	195.0	6

CNC U-Drills

- Long tool-life with perfect cutting effect.
- High efficient and wear resistant, stable and continuous production ability
- Supplied with inserts and other accessories, the additional need to be purchased separately.



3D Drill

Order Code TFCT01	Description	Shank (mm)	Flange (mm)	Shank L (mm)	Flute L (mm)	Overall L (mm)
-12503A	F16-SD12.5				37.5	111
-13003A	F16-SD13.0			48	39	114
-14003A	F16-SD14.0				42	119
-15003A	F20-SD15.0				45	127
-16003A	F20-SD16.0				48	132
-17003A	F20-SD17.0			20	51	132
-18003A	F20-SD18.0				54	135
-19003A	F20-SD19.0				57	138
-20003A	F25-SD20.0				60	146
-21003A	F25-SD21.0				63	149
-22003A	F25-SD22.0				66	153
-23003A	F25-SD23.0				69	156
-24003A	F32-SD24.0				72	164
-25003A	F32-SD25.0				75	166
-26003A	F32-SD26.0				78	169
-27003A	F32-SD27.0				81	173
-28003A	F32-SD28.0				84	178
-29003A	F32-SD29.0				87	182
-30003A	F32-SD30.0				90	186
-31003A	F32-SD31.0				93	191
-32003A	F32-SD32.0				96	195

5D Drill

Order Code TFCT01	Description	Shank (mm)	Flange (mm)	Shank L (mm)	Flute L (mm)	Overall L (mm)
-12505A	F16-SD12.5				62.5	136
-13005A	F16-SD13.0			48	65	140
-14005A	F16-SD14.0				70	147
-15005A	F20-SD15.0				75	157
-16005A	F20-SD16.0				80	164
-17005A	F20-SD17.0			20	85	166
-18005A	F20-SD18.0				90	171
-19005A	F20-SD19.0				95	176
-20005A	F25-SD20.0				100	186
-21005A	F25-SD21.0				105	191
-22005A	F25-SD22.0				110	197
-23005A	F25-SD23.0				115	202
-24005A	F32-SD24.0				120	212
-25005A	F32-SD25.0				125	216
-26005A	F32-SD26.0				130	221
-27005A	F32-SD27.0				135	227
-28005A	F32-SD28.0				140	234
-29005A	F32-SD29.0				145	240
-30005A	F32-SD30.0				150	246
-31005A	F32-SD31.0				155	253
-32005A	F32-SD32.0				160	259

Accessories

Screws	Wrenches
M3.0	
CS11-12.5SL	T10
M3.0	
CS12-14SL	
M3.5	
CS14-16SL	T15
M3.5	
CS16-18SL	
M4.0	
CS18-20SL	
M5.0	
CS20-22S	T20
M5.0	
CS22-24SL	
M6.0	
CS24-26SL	
M6.0	
CS26-28SL	T25
M6.0	
CS28-30SL	
M6.0	
CS30-34SL	

Replacement Inserts

Order Code TFCT01	Insert Codes
-00125B	SD12.5
-00130B	SD13
-00140B	SD14
-00150B	SD15
-00160B	SD16
-00170B	SD17
-00180B	SD18
-00190B	SD19
-00200B	SD20
-00210B	SD21
-00220B	SD22
-00230B	SD23
-00240B	SD24
-00250B	SD25
-00260B	SD26
-00270B	SD27
-00280B	SD28
-00290B	SD29
-00300B	SD30
-00310B	SD31
-00320B	SD32

7D Drill

Order Code TFCT01	Description	Shank (mm)	Flange (mm)	Shank L (mm)	Flute L (mm)	Overall L (mm)
-12507A	F16-SD12.5				87.5	161
-13007A	F16-SD13.0			48	91	166
-14007A	F16-SD14.0				98	175
-15007A	F20-SD15.0				105	187
-16007A	F20-SD16.0				112	196
-17007A	F20-SD17.0			20	119	200
-18007A	F20-SD18.0				126	207
-19007A	F20-SD19.0				133	214
-20007A	F25-SD20.0				140	226
-21007A	F25-SD21.0				147	233
-22007A	F25-SD22.0				154	241
-23007A	F25-SD23.0				161	248
-24007A	F32-SD24.0				168	261
-25007A	F32-SD25.0				175	266
-26007A	F32-SD26.0				182	273
-27007A	F32-SD27.0				189	281
-28007A	F32-SD28.0				196	290
-29007A	F32-SD29.0				203	298
-30007A	F32-SD30.0				210	306
-31007A	F32-SD31.0				217	315
-32007A	F32-SD32.0				224	323

10D Drill

Order Code TFCT01	Description	Shank (mm)	Flange (mm)	Shank L (mm)	Flute L (mm)	Overall L (mm)
-12510A	F16-SD12.5				125	199
-13010A	F16-SD13.0			48	130	205
-14010A	F16-SD14.0				140	217
-15010A	F20-SD15.0				150	232
-16010A	F20-SD16.0				160	244
-17010A	F20-SD17.0			20	170	251
-18010A	F20-SD18.0				180	261
-19010A	F20-SD19.0				190	271
-20010A	F25-SD20.0				200	286
-21010A	F25-SD21.0				210	296
-22010A	F25-SD22.0				220	307
-23010A	F25-SD23.0				230	317
-24010A	F32-SD24.0				240	332
-25010A	F32-SD25.0				250	341
-26010A	F32-SD26.0				260	351
-27010A	F32-SD27.0				270	362
-28010A	F32-SD28.0				280	374
-29010A	F32-SD29.0				290	385
-30010A	F32-SD30.0				300	396
-31010A	F32-SD31.0				310	408
-32010A	F32-SD32.0				320	419

Accessories

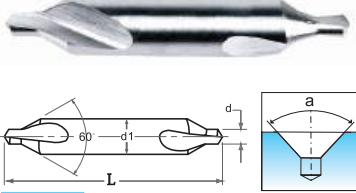
Screws	Wrenches
M3.0	
CS11-12.5SL	T10
M3.0	
CS12-14SL	
M3.5	
CS14-16SL	T15
M3.5	
CS16-18SL	
M4.0	
CS18-20SL	
M5.0	
CS20-22S	T20
M5.0	
CS22-24SL	
M6.0	
CS24-26SL	
M6.0	
CS26-28SL	T25
M6.0	
CS28-30SL	
M6.0	
CS30-34SL	

Replacement Inserts

Order Code TFCT01	Insert Codes
-00125B	SD12.5
-00130B	SD13
-00140B	SD14
-00150B	SD15
-00160B	SD16
-00170B	SD17
-00180B	SD18
-00190B	SD19
-00200B	SD20
-00210B	SD21
-00220B	SD22
-00230B	SD23
-00240B	SD24
-00250B	SD25
-00260B	SD26
-00270B	SD27
-00280B	SD28
-00290B	SD29
-00300B	SD30
-00310B	SD31
-00320B	SD32

HSS Center Drills Type A

- Made from quality HSS
- Fully ground flute
- Excellent cutting performance, durability, and resistance to wear
- Suitable for steel, cast iron, non-ferrous metals and light metals
- Manufactured to standard DIN333A

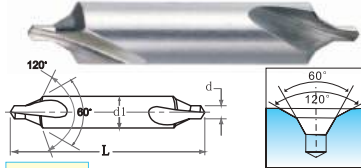


Type A

Order Code	Pilot Dia (d) (mm)	Body Dia (d1) (mm)	Overall L.(L) (mm)
TFDR50			
-00050A	0.50	3.15	31.5
-00080A	0.80	3.15	31.5
-00100A	1.00	3.15	31.5
-00125A	1.25	3.15	31.5
-00160A	1.60	4.00	35.5
-00200A	2.00	5.00	40.0
-00250A	2.50	6.30	45.0
-00315A	3.15	8.00	50.0
-00400A	4.00	10.00	56.0
-00500A	5.00	12.50	63.0
-00630A	6.30	16.00	71.0
-01000A	10.00	25.00	100.0

HSS Center Drills Type B

- Made from quality HSS
- Fully ground flute
- Excellent cutting performance, durability, and resistance to wear
- This bell-shaped design allows for precise and accurate centring, ensuring optimal alignment for subsequent drilling or machining operations
- Suitable for steel, cast iron, non-ferrous metals and light metals
- Manufactured to standard DIN333B

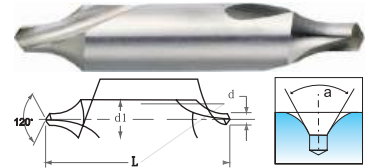


Type B

Order Code	Pilot Dia (d) (mm)	Body Dia (d1) (mm)	Overall L.(L) (mm)
TFDR51			
-00100B	1.00	4.00	35.50
-00125B	1.25	5.00	40.00
-00160B	1.60	6.30	45.00
-00200B	2.00	8.00	50.00
-00250B	2.50	10.00	56.00
-00315B	3.15	11.20	60.00
-00400B	4.00	14.00	67.00
-00500B	5.00	18.00	75.00
-00630B	6.30	20.00	80.00
-00800B	8.00	25.00	100.00
-01000B	10.00	31.50	125.00

HSS Center Drills Type R

- Made from quality HSS
- Fully ground flute
- Excellent cutting performance, durability, and resistance to wear
- Suitable for steel, cast iron, non-ferrous metals and light metals
- This forms a center hole that results in more holding accuracy because there is contact only at a single point, but the load bearing capacity of the hole (ability to withstand lateral forces resulting from cutting) would be less
- Manufactured to standard DIN333R



Type R

Order Code	Pilot Dia (d) (mm)	Body Dia (d1) (mm)	Overall L.(L) (mm)
TFDR52			
-00100R	1.00	3.15	31.50
-00160R	1.60	4.00	35.50
-00200R	2.00	5.00	40.00
-00250R	2.50	6.30	45.00
-00315R	3.15	8.00	50.00
-00400R	4.00	10.00	56.00
-00500R	5.00	12.50	63.00
-00630R	6.30	16.00	71.00
-01000R	10.00	25.00	100.00

5Pc HSS Center Drill Sets

Order Code	Type	Size (mm)
TFDR50-80105M	A	1.0, 2.0, 3.15, 4.0, 5.0
TFDR51-80105M	B	1.0, 2.0, 3.15, 4.0, 5.0
TFDR52-80105M	R	1.0, 2.0, 3.15, 4.0, 5.0

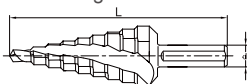


Spare ABS Box

Order Code	Size (mm)
TFDR00	
-03001B	120 x 85 x 34

HSS Spiral Flute Step Drills

- Made from quality HSS (M2), good self-centering for easy and accurate cutting
- CBN ground and spiral flutes guarantee quiet running and high cutting performance
- Smooth cutting behavior, no sticking in the material, less burrs on the work piece
- Lower cutting forces and longer service life
- Used in sheets, pipes, profiles, CrNi steel, non-ferrous metals, plexiglass, wood etc.
- 9-step (4 -12mm): 4, 5, 6, 7, 8, 9, 10, 11, 12mm
- 9-step (4 -20mm): 4, 6, 8, 10, 12, 14, 16, 18, 20mm
- 14-step (4 -30mm): 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30mm
- Manufacturing standard: DIN1412C



- TiN (Titanium nitride) is an extremely hard ceramic material, often used as a physical vapor deposition (PVD) coating on titanium alloys, steel, carbide, and aluminum components to improve the substrate's surface properties
- TiAlN (Titanium aluminium nitride) offers high resistance to heat and oxidation. This enables working with a higher cutting speed and thus accelerating working processes. Compared to uncoated tools, TiAlN coating, depending on the application, increase an up to ten times longer service life.



Range (mm)	Number of Steps	Shank Dia. (d) (mm)	Overall L.(L) (mm)	No Coating		TiN Coated		TiAlN Coated	
				Order Code	TFDR60	Order Code	TFDR61	Order Code	TFDR62
4 - 12	9	6	65	-10412A		-20412A		-30412A	
4 - 20	9	8	75	-10420A		-20420A		-30420A	
4 - 30	14	10	100	-10430A		-20430A		-30430A	
6 - 40	11	10	96	-10440A		-20440A		-30440A	

3Pc HSS Spiral Flute Step Drill Set

- Made from quality HSS (M2)
- Content (1 off each size):
4 - 12mm, 4 - 20mm & 4 - 30mm

Order Code	Size Range (mm)
TFDR60	4 ~ 30
-80103M	4 ~ 30

Spare ABS Box

Order Code	Size (mm)
TFDR00	145 × 105 × 40
-04001B	145 × 105 × 40



3Pc HSS Spiral Flute Step Drill Set - TiN Coated

- Made from quality TiN Coated HSS (M2)
- Content (1 off each size):
4 - 12mm, 4 - 20mm & 4 - 30mm

Order Code	Size Range (mm)
TFDR61	4 ~ 30 (TiN)
-80103M	4 ~ 30 (TiN)

Spare ABS Box

Order Code	Size (mm)
TFDR00	145 × 105 × 40
-04001B	145 × 105 × 40



3Pc HSS Spiral Flute Step Drill Set - TiAlN Coated

- Made from quality TiAlN Coated HSS (M2)
- Content (1 off each size):
4 - 12mm, 4 - 20mm & 4 - 30mm

Order Code	Size Range (mm)
TFDR62	4 ~ 30 (TiAlN)
-80103M	4 ~ 30 (TiAlN)

Spare ABS Box

Order Code	Size (mm)
TFDR00	145 × 105 × 40
-04001B	145 × 105 × 40



3Pc HSS Tube and Sheet Metal Drill Set

- Made from quality HSS (M2)
- Content (1 off each size):
3 - 14mm, 5 - 20mm & 16 - 30.5mm

Order Code	Size Range (mm)
TFDR65	3 ~ 30.5
-80103M	3 ~ 30.5

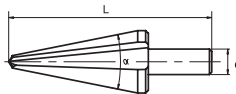
Spare ABS Box

Order Code	Size (mm)
TFDR00	145 × 105 × 40
-04002B	145 × 105 × 40



HSS Tube and Sheet Metal Drills

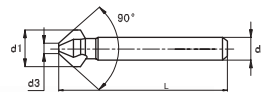
- Made from quality HSS (M2), good self-centering for easy and accurate cutting
- CBN ground and spiral flutes guarantee quiet running and high cutting performance
- Large groove for fast chip removal
- Used in non-ferrous metals, steel sheets and plastic etc.
- Dimensions to DIN1412C



Order Code	Drilling Range (mm)	Shank Dia. (d) (mm)	Overall L.(L) (mm)
-10314A	3 - 14	6	58
-10322A	3 - 22.5	8	73
-10325A	3 - 25.4	10	87
-10331A	3 - 31	9	102
-10620A	6 - 20	8	72
-10630A	6 - 30	10	94
-11630A	16 - 30.5	9	73

90° HSS 3-Flute Countersinks

- Made from quality HSS (M2), good self-centering
- This drills allows for direct contact with the workpiece, providing optimal cutting performance and chip evacuation. The 3-flute configuration ensures efficient chip removal, preventing clogging and ensuring clean and smooth countersinks
- Used in non-ferrous metals, steel, stainless steel, cast iron and other materials etc.
- Dimensions to DIN335C



Order Code	Cutting Dia. (d1) (mm)	Tip Dia. (d3) (mm)	Shank Dia. (d2) (mm)	Overall L.(L) (mm)
-00630A	6.30	1.5	5	45
-00830A	8.30	2.0	6	50
-01040A	10.4	2.5	6	50
-01240A	12.4	2.8	8	56
-01650A	16.5	3.2	10	60
-02050A	20.5	3.5	10	63
-02500A	25.0	3.8	10	67
-03100A	31.0	4.2	12	71

90° HSS Morse Taper Shank 3-Flute Countersinks

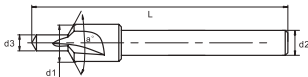
- Made from quality HSS (M2), good self-centering
- Good roughness, scratch-free and good roundness after processing
- Sharp edge, low cutting heat, smooth processing
- Suitable for non-ferrous metals, steel, stainless steel, cast iron and other materials etc.



Order Code	Cutting Dia.(D) (mm)	Tip Dia.(d1) (mm)	Overall L.(L) (mm)	Taper Shank (Morse)
TFDR76				
-01650A	16.5	3.2	85	NO.1
-02050A	20.5	3.5	100	NO.2
-02500A	25	3.8	106	NO.2
-03100A	31	4.2	112	NO.2
-04000A	40	10	140	NO.3
-05000A	50	14	150	NO.3
-06300A	63	16	180	NO.4
-08000A	80	22	190	NO.4

HSS-Co Precision Piloted 3-Flute Countersinks

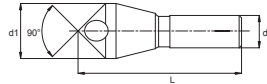
- Made from quality HSS 5% cobalt
- For the production of high precision concentrically centered countersinks in most metals where pilot holes have been pre-drilled.
- The improved cutting angle to ensure smooth finish without vibration



Cutting Dia. d1	Pilot d3	Shank Dia. d2	Overall L. L	90°	100°	120°
				Order Code TFDR78	Order Code TFDR78	Order Code TFDR78
3/16"(4.76mm)	3/32"(2.38mm)	3/16"(4.76mm)	2-1/2"(63mm)	-00476A	-10476A	-20476A
1/4"(6.35mm)	3/32"(2.38mm)	3/16"(4.76mm)	2-1/2"(63mm)	-00635A	-10635A	-20635A
1/4"(6.35mm)	1/8"(3.17mm)	3/16"(4.76mm)	2-1/2"(63mm)	-00635B	-10635B	-20635B
5/16"(7.93mm)	1/8"(3.17mm)	3/16"(4.76mm)	2-1/2"(63mm)	-00793A	-10793A	-20793A
5/16"(7.93mm)	5/32"(3.96mm)	3/16"(4.76mm)	2-1/2"(63mm)	-00793B	-10793B	-20793B
3/8"(9.53mm)	5/32"(3.96mm)	3/16"(4.76mm)	2-1/2"(63mm)	-00953A	-10953A	-20953A
3/8"(9.53mm)	3/16"(4.76mm)	3/16"(4.76mm)	2-1/2"(63mm)	-00953B	-10953B	-20953B
7/16"(11.11mm)	7/32"(5.56mm)	3/16"(4.76mm)	2-1/2"(63mm)	-01111A	-11111A	-21111A
7/16"(11.11mm)	1/4"(6.35mm)	3/16"(4.76mm)	2-1/2"(63mm)	-01111B	-11111B	-21111B
1/2"(12.7mm)	1/4"(6.35mm)	3/16"(4.76mm)	2-1/2"(63mm)	-01270A	-11270A	-21270A

90° HSS Single Hole Deburring Countersinks

- Made from quality HSS (M2)
- The chip flow through the hole prevents the chips from becoming jammed in the workpiece
- Good roughness and scratch-free after processing
- Sharp edge, low cutting heat, smooth processing
- Suitable for non-ferrous metals, light metals and plastic etc.



Order Code	Cutting Range(d1) (mm)	Shank Dia.(d2) (mm)	Overall L.(L) (mm)
TFDR77			
-00205A	2 - 5	6	45
-00510A	5 - 10	8	48
-01015A	10 - 15	10	65
-01520A	15 - 20	12	85
-02025A	20 - 25	15	102
-02530A	25 - 30	15	115
-03035A	30 - 35	15	127



7Pc 90° HSS 3-Flute Countersink Set

- Set Contents:
Φ6.3mm,
Φ8.3mm,
Φ10.4mm,
Φ12.4mm,
Φ16.5mm,
Φ20.5mm
& cutting paste



Order Code	Size Range (mm)
TFDR70	
-80107M	6.3 ~ 20.5

4Pc 90° HSS Single Hole Deburring Countersink Set

- Set Contents:
Φ2 - 5mm,
Φ5 - 10mm,
Φ10 - 15mm,
Φ15 - 20mm



Order Code	Size Range (mm)
TFDR77	
-80104M	2 ~ 20

Cutting Paste

- For use with cutting tools, taps, twist drills, reamers and countersinks, increases productivity
- Maximize tool life – reduces heat build-up in the tool
- Suitable for all metals including of hardened steel, titanium and nickel alloys etc.
- Comply with REACH guidelines



Order Code	Weight (g)
TFLB30	
-00120A	20

High Torque Screw Extractors

Coarse Pitch

- Made from high-strength chrome vanadium steel, overall heat treatment, high hardness, high toughness and durability
- Used to remove broken screws, bolts, threaded parts, dowels and internal tubes
- Easy to use



Order Code	No.	Drill Bits		Suitable Screw Sizes	
		Inch	(mm)	Metric	Inch
-20001B	No.1	5/64"	2.0	M5 ~ M6	3/16" ~ 1/4"
-20002B	No.2	7/64"	2.8	M6 ~ M8	1/4" ~ 5/16"
-20003B	No.3	5/32"	4.0	M8 ~ M11	5/16" ~ 7/16"
-20004B	No.4	1/4"	6.4	M11 ~ M14	7/16" ~ 9/16"
-20005B	No.5	19/64"	7.5	M14 ~ M19	9/16" ~ 3/4"
-20006B	No.6	13/32"	10.3	M19 ~ M25	3/4" ~ 1"

5Pc High Torque Coarse Pitch Screw Extractor Set in Canvas Pouch

- Durable Canvas Bag



No.	Suitable Screw Sizes	
	Metric	Inch
No.1	M5 ~ M6	3/16" ~ 1/4"
No.2	M6 ~ M8	1/4" ~ 5/16"
No.3	M8 ~ M11	5/16" ~ 7/16"
No.4	M11 ~ M14	7/16" ~ 9/16"
No.5	M14 ~ M19	9/16" ~ 3/4"

Order Code	Contents	Number of Pieces
TFDR80		
-80205M	No.1 ~ No.5	5Pcs

Fine Pitch

- Made from high-strength alloy steel
- High torque
- Easily remove damaged screws without damage of screw holes



Order Code	No.	Drill Bits		Suitable Screw Sizes
		(mm)	(mm)	
-10001A	No.1	2.0	M3 ~ M6	
-10002A	No.2	2.8	M6 ~ M8	
-10003A	No.3	4.0	M8 ~ M11	
-10004A	No.4	6.4	M11 ~ M14	
-10005A	No.5	6.8	M14 ~ M18	
-10006A	No.6	10.3	M18 ~ M25	

High Torque Fine Pitch Screw Extractor Sets



Order Code	Contents	Number of Pieces
TFDR80		
-80105M	No.1 ~ No.5	5Pcs
-80106M	No.1 ~ No.6	6Pcs

12Pc High Torque Fine Pitch Screw Extractor & Drill Set

- Contents: High torque screw extractors: No.1, No.2, No.3, No.4, No.5, No.6
Black golden finish jobber drills: 2.0mm, 3.0mm, 4.0mm, 6.5mm, 7.0mm, 10.2mm



Order Code
TFDR80
-80112M

Straight Flute

- Made from high-strength chrome vanadium steel, overall heat treatment, high hardness, high toughness and durability
- Remove broken screws, bolts, threaded parts, pins and internal tubes
- Easy to use



Order Code	No.	Drill Bits		Suitable Screw Sizes
		Inch	Metric(mm)	
-30001C	No.1	9/64"	3.6	3/16" - 5/16"
-30002C	No.2	3/16"	4.8	3/8"
-30003C	No.3	15/64"	6.0	7/16"
-30004C	No.4	5/16"	8.0	1/2" - 9/16"
-30005C	No.5	3/8"	9.5	5/8"
-30006C	No.6	15/32"	12.0	3/4"

5Pc Straight Flute Screw Extractor Set in Canvas Pouch

- Durable Canvas Bag



No.	Suitable Screw Sizes	
	Metric	Inch
No.1	3/16"	5/16"
No.2	3/8"	
No.3	7/16"	
No.4	1/2"	9/16"
No.5	5/8"	

Order Code	Contents	Number of Pieces
TFDR80		
-90305N	No.1 ~ No.5	5Pcs

Twist Socket Sets

- High strength chromium molybdenum steel, with good wear resistance, good toughness and impact resistance
- The special spiral profile on the inside enables the socket to grip sufficiently for loosening in cases where standard sockets and wrenches fail



Order Code	Square Drive	Number of Pieces	Contents
TFSK11			
-20110M	3/8"	10	9Pc Metric Twist Sockets Set (mm): 10, 11, 12, 13, 14, 15, 16, 17, 19 1 piece of punch
-30115M	1/2"	15	7Pc Metric Twist Sockets Set (mm): 10, 11, 12, 13, 14, 15, 16, 17 7Pc Inch Twist Sockets Set: (Inch) 3/4", 13/16", 7/8", 15/16", 1", 1-3/16" 1 piece of punch

Metric Solid Carbide Tap Extractors

- Made from ultra fine grain solid carbide
- Easily remove the damaged taps and high strength bolts etc. without damaging the parts themselves
- Also suitable for drilling holes on other hard materials such as hardened steel, glass etc.
- Cutting speed within 1500 - 3500rpm and no lubricants needed



Metric		Cutting Dia. (mm)	Flute L. (mm)	Overall L. (mm)	Suitable Tap Sizes	
Order Code	TFDR83				Metric	Inch
-00200C		2.0	10	31	M3	No.4
-00300C		3.0	14	40	M4, M5	No.8, No.10, No.12
-00400C		4.0	20	46	M6, M7	1/4", 5/16"
-00500C		5.0	24	50	M8, M10	5/16", 3/8"
-00600C		6.0	30	60	M10, M12	7/16", 1/2"

5Pc Metric Solid Carbide Tap Extractor Set

- Contents:
2.0mm, 3.0mm
4.0mm, 5.0mm
6.0mm



Order Code	Number of pieces	Size Range
TFDR83		
-80105M	5	2 ~ 6mm

Thread Repair Kits

- Used to remove and restore the damaged threads in tapped holes
- Taps and drills are made from HSS and inserts are made in stainless steel
- Insert length: 1.5D (in multiples of insert diameter)
- Contents :
10 x inserts
1 x installation tool
1 x break pin tool
1 x drill bit
1 x hex key



Order Code	Size	Drill Bit
TFTR88		
-71004M	M4 x 0.7	4.2mm
-71005M	M5 x 0.8	5.2mm
-71006M	M6 x 1	6.2mm
-71008M	M8 x 1.25	8.3mm
-71010M	M10 x 1.5	10.3mm
-71012M	M12 x 1.75	12.4mm
-71014M	M14 x 2	14.3mm

Stainless Steel Drill Gauges

- Used for quick measuring the diameters of the drill bits
- Metric: 1, 1.5, 2, 2.5, 3, 3.2, 3.5, 4, 4.2, 4.5, 4.8, 5, 5.2, 5.5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5 & 13mm
- Imperial: 1/32, 3/64, 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 10.5/64, 11/64, 3/16, 12.5/64, 13/64, 7/32, 15/64, 1/4, 17/64, 19/64, 5/16, 21/64, 11/32, 3/8, 25/64, 13/32, 7/16, 29/64, 15/32, 31/64 & 1/2



Order Code	Type	Range
TFME61		
-61130A	Metric	1 - 13mm
-61140B	Imperial	1/32"-1/2"

90° HSS-Co TiN Coated Spot Drills

- Made from HSS (M35)
- Suitable for stainless steel, alloy steel, tempered steel, cast iron, aluminum alloy and spring steel etc.
- High temperature and wear resistance, anti-stick, good machinability and long tool life
- Manufactured to DIN338



Order Code	Size (mm)	Flute L. (mm)	Overall L. (mm)
TFDR54			
-02003C	3	17	50
-02004C	4	20	55
-02005C	5	23	60
-02006C	6	25	65
-02008C	8	30	80
-02010C	10	35	90
-02012C	12	40	100

HSS Combined Drill Taps

- Made from heavy duty HSS (M2)
- Fully ground flutes
- Drilling and tapping a hole in one single step, guaranteed to save time a lot.

Square Head



1/4" Hex Head



Square Head	Hex Head	Size (mm)	Pitch (mm)	Overall L. (mm)	Thread L. (mm)	Drill L. (mm)	Drill Dia. (mm)
Order Code	Order Code						
TFTR50	TFTR50						
-10300S	-10300H	M3.0	0.50	66.0	13.0	4.0	2.5
-10400S	-10400H	M4.0	0.70	67.0	14.0	5.0	3.3
-10500S	-10500H	M5.0	0.80	68.0	15.0	6.0	4.2
-10600S	-10600H	M6.0	1.00	69.0	16.0	7.0	5.0
-10800S	-10800H	M8.0	1.25	71.0	18.0	9.0	6.8
-11000S	-11000H	M10.0	1.50	73.0	20.0	11.0	8.5

Metric Coarse HSS Taps

• Standard: ISO529

• Tolerance: H2

Hand Taps



Machine Taps



Size	Pitch (TPI)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Order Code TFTR10	Straight Flute Hand Taps			
							Taper	Second	Plug	Set of 3
							Order Code TFTR10	Order Code TFTR10	Order Code TFTR10	Order Code TFTR10
M1.6	0.35	41.00	8.00	2.50	2.00	-20160E	-10160A	-10160B	-10160C	-10160D
M2	0.40	41.00	8.00	2.50	2.00	-20200E	-10200A	-10200B	-10200C	-10200D
M2.2	0.45	44.50	9.50	2.80	2.24	-20220E	-10220A	-10220B	-10220C	-10220D
M2.5	0.45	44.50	9.50	2.80	2.24	-20250E	-10250A	-10250B	-10250C	-10250D
M2.6	0.45	44.50	9.50	2.80	2.24	-20260E	-10260A	-10260B	-10260C	-10260D
M3	0.50	48.00	11.00	3.15	2.50	-20300E	-10300A	-10300B	-10300C	-10300D
M3.5	0.60	50.00	13.00	3.55	2.80	-20350E	-10350A	-10350B	-10350C	-10350D
M4	0.70	53.00	13.00	4.00	3.15	-20400E	-10400A	-10400B	-10400C	-10400D
M4.5	0.75	53.00	13.00	4.50	3.55	-20450E	-10450A	-10450B	-10450C	-10450D
M5	0.80	58.00	16.00	5.00	4.00	-20500E	-10500A	-10500B	-10500C	-10500D
M6	1.00	66.00	19.00	6.30	5.00	-20600E	-10600A	-10600B	-10600C	-10600D
M7	1.00	66.00	19.00	7.10	5.60	-20700E	-10700A	-10700B	-10700C	-10700D
M8	1.25	72.00	22.00	8.00	6.30	-20800E	-10800A	-10800B	-10800C	-10800D
M9	1.25	72.00	22.00	9.00	7.10	-20900E	-10900A	-10900B	-10900C	-10900D
M10	1.50	80.00	24.00	10.00	8.00	-21000E	-11000A	-11000B	-11000C	-11000D
M11	1.50	85.00	25.00	8.00	6.30	-21100E	-11100A	-11100B	-11100C	-11100D
M12	1.75	89.00	29.00	9.00	7.10	-21200E	-11200A	-11200B	-11200C	-11200D
M14	2.00	95.00	30.00	11.20	9.00	-21400E	-11400A	-11400B	-11400C	-11400D
M16	2.00	102.00	32.00	12.50	10.00	-21600E	-11600A	-11600B	-11600C	-11600D
M18	2.50	112.00	37.00	14.00	11.20	-21800E	-11800A	-11800B	-11800C	-11800D
M20	2.50	112.00	37.00	14.00	11.20	-22000E	-12000A	-12000B	-12000C	-12000D
M22	2.50	118.00	38.00	16.00	12.50	-22200E	-12200A	-12200B	-12200C	-12200D
M24	3.00	130.00	45.00	18.00	14.00	-22400E	-12400A	-12400B	-12400C	-12400D
M27	3.00	135.00	45.00	20.00	16.00	-22700E	-12700A	-12700B	-12700C	-12700D
M30	3.50	138.00	48.00	20.00	16.00	-23000E	-13000A	-13000B	-13000C	-13000D
M33	3.50	151.00	51.00	22.40	18.00	-23300E	-13300A	-13300B	-13300C	-13300D
M36	4.00	162.00	57.00	25.00	20.00	-23600E	-13600A	-13600B	-13600C	-13600D
M39	4.00	170.00	60.00	28.00	22.40	-23900E	-13900A	-13900B	-13900C	-13900D
M42	4.50	170.00	60.00	28.00	22.40	-24200E	-14200A	-14200B	-14200C	-14200D
M45	4.50	187.00	67.00	31.50	25.00	-24500E	-14500A	-14500B	-14500C	-14500D
M48	5.00	187.00	67.00	31.50	25.00	-24800E	-14800A	-14800B	-14800C	-14800D
M52	5.00	200.00	70.00	35.50	28.00	-25200E	-15200A	-15200B	-15200C	-15200D
M56	5.50	200.00	70.00	35.50	28.00	-25600E	-15600A	-15600B	-15600C	-15600D

Metric Coarse HSS Spiral Flute Taps - Nitride Finish

• Standard: ISO529

• Tolerance: H2

Size	Pitch (TPI)	Overall Thread L.		Shank Dia. (mm)	Square (mm)	Order Code TFTR10
		L. (mm)	L. (mm)			
		M3	0.50			
M3.5	0.60	50.00	13.00	3.55	2.80	-30350F
M4	0.70	53.00	13.00	4.00	3.15	-30400F
M5	0.80	58.00	16.00	5.00	4.00	-30500F
M6	1.00	66.00	19.00	6.30	5.00	-30600F
M7	1.00	66.00	19.00	7.10	5.60	-30700F
M8	1.25	72.00	22.00	8.00	6.30	-30800F
M10	1.50	80.00	24.00	10.00	8.00	-31000F
M12	1.75	89.00	29.00	9.00	7.10	-31200F

Size	Pitch (TPI)	Overall Thread L.		Shank Dia. (mm)	Square (mm)	Order Code TFTR10
		L. (mm)	L. (mm)			
		M14	2.00			
M16	2.00	102.00	32.00	12.50	10.00	-31600F
M18	2.50	112.00	37.00	14.00	11.20	-31800F
M20	2.50	112.00	37.00	14.00	11.20	-32000F
M22	2.50	118.00	38.00	16.00	12.50	-32200F
M24	3.00	130.00	45.00	18.00	14.00	-32400F
M27	3.00	135.00	45.00	20.00	16.00	-32700F
M30	3.50	138.00	48.00	20.00	16.00	-33000F

Metric Coarse HSS Taps - Left Hand

• Standard: ISO529

• Tolerance: H2

Hand Taps



Machine Taps



Size	Pitch (TPI)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Straight Flute Machine Nitride Order Code TFTR10	Straight Flute Hand Taps			
							Taper	Second	Plug	Set of 3
							Order Code TFTR10	Order Code TFTR10	Order Code TFTR10	Order Code TFTR10
M3	0.50	48.00	11.00	3.15	2.50	-20300N	-10300J	-10300K	-10300L	-10300M
M4	0.70	53.00	13.00	4.00	3.15	-20400N	-10400J	-10400K	-10400L	-10400M
M5	0.80	58.00	16.00	5.00	4.00	-20500N	-10500J	-10500K	-10500L	-10500M
M6	1.00	66.00	19.00	6.30	5.00	-20600N	-10600J	-10600K	-10600L	-10600M
M8	1.25	72.00	22.00	8.00	6.30	-20800N	-10800J	-10800K	-10800L	-10800M
M10	1.50	80.00	24.00	10.00	8.00	-21000N	-11000J	-11000K	-11000L	-11000M
M12	1.75	89.00	29.00	9.00	7.10	-21200N	-11200J	-11200K	-11200L	-11200M
M14	2.00	95.00	30.00	11.20	9.00	-21400N	-11400J	-11400K	-11400L	-11400M
M16	2.00	102.00	32.00	12.50	10.00	-21600N	-11600J	-11600K	-11600L	-11600M
M18	2.50	112.00	37.00	14.00	11.20	-21800N	-11800J	-11800K	-11800L	-11800M
M20	2.50	112.00	37.00	14.00	11.20	-22000N	-12000J	-12000K	-12000L	-12000M
M24	3.00	130.00	45.00	18.00	14.00	-22400N	-12400J	-12400K	-12400L	-12400M

Metric Fine HSS Taps

• Standard: ISO529

• Tolerance: H2

Hand Taps



Machine Taps



Size	Pitch (TPI)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Straight Flute Machine Nitride Order Code TFTR10	Straight Flute Hand Taps			
							Taper	Second	Plug	Set of 3
							Order Code TFTR10	Order Code TFTR10	Order Code TFTR10	Order Code TFTR10
M3	0.35	48.00	11.00	3.15	2.50	-50300E	-40300A	-40300B	-40300C	-40300D
M3.5	0.35	50.00	13.00	3.55	2.80	-50350E	-40350A	-40350B	-40350C	-40350D
M4	0.50	53.00	13.00	4.00	3.15	-50400E	-40400A	-40400B	-40400C	-40400D
M4.5	0.50	53.00	13.00	4.50	3.55	-50450E	-40450A	-40450B	-40450C	-40450D
M5	0.50	58.00	16.00	5.00	4.00	-50500E	-40500A	-40500B	-40500C	-40500D
M5	0.90	58.00	16.00	5.00	4.00	-50501E	-40501A	-40501B	-40501C	-40501D
M6	0.75	66.00	19.00	6.30	5.00	-50600E	-40600A	-40600B	-40600C	-40600D
M7	0.75	66.00	19.00	7.10	5.60	-50700E	-40700A	-40700B	-40700C	-40700D
M8	0.75	69.00	19.00	8.00	6.30	-50800E	-40800A	-40800B	-40800C	-40800D
M8	1.00	69.00	19.00	8.00	6.30	-50801E	-40801A	-40801B	-40801C	-40801D
M9	1.00	69.00	19.00	9.00	7.10	-50900E	-40900A	-40900B	-40900C	-40900D
M10	1.00	76.00	20.00	10.00	8.00	-51000E	-41000A	-41000B	-41000C	-41000D
M10	1.25	76.00	20.00	10.00	8.00	-51001E	-41001A	-41001B	-41001C	-41001D
M12	1.00	84.00	24.00	9.00	7.10	-51200E	-41200A	-41200B	-41200C	-41200D
M12	1.25	84.00	24.00	9.00	7.10	-51201E	-41201A	-41201B	-41201C	-41201D
M12	1.50	89.00	29.00	9.00	7.10	-51202E	-41202A	-41202B	-41202C	-41202D
M14	1.00	90.00	25.00	11.20	9.00	-51400E	-41400A	-41400B	-41400C	-41400D
M14	1.25	90.00	25.00	11.20	9.00	-51401E	-41401A	-41401B	-41401C	-41401D
M14	1.50	95.00	30.00	11.20	9.00	-51402E	-41402A	-41402B	-41402C	-41402D
M16	1.00	95.00	25.00	12.50	10.00	-51600E	-41600A	-41600B	-41600C	-41600D
M16	1.50	102.00	32.00	12.50	10.00	-51601E	-41601A	-41601B	-41601C	-41601D
M18	1.00	104.00	29.00	14.00	11.20	-51800E	-41800A	-41800B	-41800C	-41800D
M18	1.50	104.00	29.00	14.00	11.20	-51801E	-41801A	-41801B	-41801C	-41801D
M20	1.00	104.00	29.00	14.00	11.20	-52000E	-42000A	-42000B	-42000C	-42000D
M20	1.50	104.00	29.00	14.00	11.20	-52001E	-42001A	-42001B	-42001C	-42001D
M20	2.00	112.00	37.00	14.00	11.20	-52002E	-42002A	-42002B	-42002C	-42002D
M22	1.50	113.00	33.00	16.00	12.50	-52200E	-42200A	-42200B	-42200C	-42200D
M24	1.50	120.00	35.00	18.00	14.00	-52400E	-42400A	-42400B	-42400C	-42400D
M24	2.00	120.00	35.00	18.00	14.00	-52401E	-42401A	-42401B	-42401C	-42401D
M25	1.50	120.00	35.00	18.00	14.00	-52500E	-42500A	-42500B	-42500C	-42500D
M27	2.00	127.00	37.00	20.00	16.00	-52700E	-42700A	-42700B	-42700C	-42700D
M30	1.50	127.00	37.00	20.00	16.00	-53000E	-43000A	-43000B	-43000C	-43000D
M30	2.00	127.00	37.00	20.00	16.00	-53001E	-43001A	-43001B	-43001C	-43001D
M32	1.50	137.00	37.00	22.40	18.00	-53200E	-43200A	-43200B	-43200C	-43200D

Metric Fine HSS Spiral Flute Taps - Nitride Finish

- Standard: ISO529
- Tolerance: H2



Spiral Flute Machine Nitride

Size	Pitch (TPI)	Overall Thread		Shank Dia. (mm)	Square (mm)	Order Code
		L. (mm)	L. (mm)			
M4	0.50	53.00	13.00	4.00	3.15	-60400F
M5	0.50	58.00	16.00	5.00	4.00	-60500F
M6	0.75	66.00	19.00	6.30	5.00	-60600F
M8	1.00	69.00	19.00	8.00	6.30	-60800F
M10	1.00	76.00	20.00	10.00	8.00	-61000F
M10	1.25	76.00	20.00	10.00	8.00	-61001F
M12	1.25	84.00	24.00	9.00	7.10	-61200F
M12	1.50	89.00	29.00	9.00	7.10	-61201F



Spiral Flute Machine Nitride

Size	Pitch (TPI)	Overall Thread		Shank Dia. (mm)	Square (mm)	Order Code
		L. (mm)	L. (mm)			
M14	1.25	90.00	25.00	11.20	9.00	-61400F
M14	1.50	95.00	30.00	11.20	9.00	-61401F
M16	1.50	102.00	32.00	12.50	10.00	-61600F
M18	1.50	104.00	29.00	14.00	11.20	-61800F
M20	1.50	104.00	29.00	14.00	11.20	-62000F
M22	1.50	113.00	33.00	16.00	12.50	-62200F

UNC HSS Taps

- Standard: ISO529
- Tolerance: H2

Hand Taps



Machine Taps



Size	Pitch (TPI)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Straight Flute Machine Nitride Order Code TFTR11	Straight Flute Hand Taps			
							Taper	Second	Plug	Set of 3
							Order Code TFTR11	Order Code TFTR11	Order Code TFTR11	Order Code TFTR11
No. 1	64.00	41.00	8.00	2.50	2.00	-20003E	-10003A	-10003B	-10003C	-10003D
No. 2	56.00	44.50	9.50	2.80	2.24	-20006E	-10006A	-10006B	-10006C	-10006D
No. 3	48.00	44.50	9.50	2.80	2.24	-20009E	-10009A	-10009B	-10009C	-10009D
No. 4	40.00	48.00	11.00	3.15	2.50	-20012E	-10012A	-10012B	-10012C	-10012D
No. 5	40.00	48.00	11.00	3.15	2.50	-20015E	-10015A	-10015B	-10015C	-10015D
No. 6	32.00	50.00	13.00	3.55	2.80	-20018E	-10018A	-10018B	-10018C	-10018D
No. 8	32.00	53.00	13.00	4.50	3.55	-20021E	-10021A	-10021B	-10021C	-10021D
No. 10	24.00	58.00	16.00	5.00	4.00	-20024E	-10024A	-10024B	-10024C	-10024D
No. 12	24.00	62.00	17.00	5.60	4.50	-20027E	-10027A	-10027B	-10027C	-10027D
1/4"	20.00	66.00	19.00	6.30	5.00	-20030E	-10030A	-10030B	-10030C	-10030D
5/16"	18.00	72.00	22.00	8.00	6.30	-20033E	-10033A	-10033B	-10033C	-10033D
3/8"	16.00	80.00	24.00	10.00	8.00	-20036E	-10036A	-10036B	-10036C	-10036D
7/16"	14.00	85.00	25.00	8.00	6.30	-20039E	-10039A	-10039B	-10039C	-10039D
1/2"	13.00	89.00	29.00	9.00	7.10	-20042E	-10042A	-10042B	-10042C	-10042D
9/16"	12.00	95.00	30.00	11.20	9.00	-20045E	-10045A	-10045B	-10045C	-10045D
5/8"	11.00	102.00	32.00	12.50	10.00	-20048E	-10048A	-10048B	-10048C	-10048D
3/4"	10.00	112.00	37.00	14.00	11.20	-20051E	-10051A	-10051B	-10051C	-10051D
7/8"	9.00	118.00	38.00	16.00	12.50	-20054E	-10054A	-10054B	-10054C	-10054D
1"	8.00	130.00	45.00	18.00	14.00	-20057E	-10057A	-10057B	-10057C	-10057D
1-1/8"	7.00	138.00	48.00	20.00	16.00	-20060E	-10060A	-10060B	-10060C	-10060D
1-1/4"	7.00	151.00	51.00	22.40	18.00	-20063E	-10063A	-10063B	-10063C	-10063D
1-3/8"	6.00	162.00	57.00	25.00	20.00	-20066E	-10066A	-10066B	-10066C	-10066D
1-1/2"	6.00	170.00	60.00	28.00	22.40	-20069E	-10069A	-10069B	-10069C	-10069D
1-3/4"	5.00	187.00	67.00	31.50	25.00	-20072E	-10072A	-10072B	-10072C	-10072D
2"	4.50	200.00	70.00	35.50	28.00	-20075E	-10075A	-10075B	-10075C	-10075D

UNC HSS Spiral Flute Taps - Nitride Finish

- Standard: ISO529
- Tolerance: H2



Spiral Flute Machine Nitride

Size	Pitch (TPI)	Overall		Thread L. (mm)	Dia. (mm)	Square (mm)	Order Code TFTR11
		L. (mm)	L. (mm)				
No. 4	40.00	48.00	11.00	3.15	2.50	-30012F	
No. 5	40.00	48.00	11.00	3.15	2.50	-30015F	
No. 6	32.00	50.00	13.00	3.55	2.80	-30018F	
No. 8	32.00	53.00	13.00	4.50	3.55	-30021F	
No. 10	24.00	58.00	16.00	5.00	4.00	-30024F	
No. 12	24.00	62.00	17.00	5.60	4.50	-30027F	
1/4"	20.00	66.00	19.00	6.30	5.00	-30030F	
5/16"	18.00	72.00	22.00	8.00	6.30	-30033F	
3/8"	16.00	80.00	24.00	10.00	8.00	-30036F	



Spiral Flute Machine Nitride

Size	Pitch (TPI)	Overall		Thread L. (mm)	Dia. (mm)	Square (mm)	Order Code TFTR11
		L. (mm)	L. (mm)				
7/16"	14.00	85.00	25.00	8.00	6.30	-30039F	
1/2"	13.00	89.00	29.00	9.00	7.10	-30042F	
9/16"	12.00	95.00	30.00	11.20	9.00	-30045F	
5/8"	11.00	102.00	32.00	12.50	10.00	-30048F	
3/4"	10.00	112.00	37.00	14.00	11.20	-30051F	
7/8"	9.00	118.00	38.00	16.00	12.50	-30054F	
1"	8.00	130.00	45.00	18.00	14.00	-30057F	
1-1/8"	7.00	138.00	48.00	20.00	16.00	-30060F	

UNC HSS Taps - Left Hand

- Standard: ISO529
- Tolerance: H2

Hand Taps



Machine Taps



Straight Flute Machine Nitride

Straight Flute Hand Taps

Size	Pitch (TPI)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Order Code TFTR11	Straight Flute Hand Taps			
							Taper Order Code TFTR11	Second Order Code TFTR11	Plug Order Code TFTR11	Set of 3 Order Code TFTR11
1/4"	20.00	66.00	19.00	6.30	5.00	-20030N	-10030J	-10030K	-10030L	-10030M
5/16"	18.00	72.00	22.00	8.00	6.30	-20033N	-10033J	-10033K	-10033L	-10033M
3/8"	16.00	80.00	24.00	10.00	8.00	-20036N	-10036J	-10036K	-10036L	-10036M
7/16"	14.00	85.00	25.00	8.00	6.30	-20039N	-10039J	-10039K	-10039L	-10039M
1/2"	13.00	89.00	29.00	9.00	7.10	-20042N	-10042J	-10042K	-10042L	-10042M
5/8"	11.00	102.00	32.00	12.50	10.00	-20048N	-10048J	-10048K	-10048L	-10048M
3/4"	10.00	112.00	37.00	14.00	11.20	-20051N	-10051J	-10051K	-10051L	-10051M
1"	8.00	130.00	45.00	18.00	14.00	-20057N	-10057J	-10057K	-10057L	-10057M

UNF HSS Taps

- Standard: ISO529
- Tolerance: H2

Hand Taps



Machine Taps



Straight Flute Machine Nitride

Straight Flute Hand Taps

Size	Pitch (TPI)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Order Code TFTR11	Straight Flute Hand Taps			
							Taper Order Code TFTR11	Second Order Code TFTR11	Plug Order Code TFTR11	Set of 3 Order Code TFTR11
No. 0	80.00	41.00	8.00	2.50	2.00	-50000E	-40000A	-40000B	-40000C	-40000D
No. 1	72.00	41.00	8.00	2.50	2.00	-50003E	-40003A	-40003B	-40003C	-40003D
No. 2	64.00	44.50	9.50	2.80	2.24	-50006E	-40006A	-40006B	-40006C	-40006D
No. 3	56.00	44.50	9.50	2.80	2.24	-50009E	-40009A	-40009B	-40009C	-40009D
No. 4	48.00	48.00	11.00	3.15	2.50	-50012E	-40012A	-40012B	-40012C	-40012D
No. 5	44.00	48.00	11.00	3.15	2.50	-50015E	-40015A	-40015B	-40015C	-40015D
No. 6	40.00	50.00	13.00	3.55	2.80	-50018E	-40018A	-40018B	-40018C	-40018D
No. 8	36.00	53.00	13.00	4.50	3.55	-50021E	-40021A	-40021B	-40021C	-40021D
No. 10	32.00	58.00	16.00	5.00	4.00	-50024E	-40024A	-40024B	-40024C	-40024D
No. 12	28.00	62.00	17.00	5.60	4.50	-50027E	-40027A	-40027B	-40027C	-40027D
1/4"	28.00	66.00	19.00	6.30	5.00	-50030E	-40030A	-40030B	-40030C	-40030D
5/16"	24.00	69.00	19.00	8.00	6.30	-50033E	-40033A	-40033B	-40033C	-40033D
3/8"	24.00	76.00	20.00	10.00	8.00	-50036E	-40036A	-40036B	-40036C	-40036D
7/16"	20.00	82.00	22.00	8.00	6.30	-50039E	-40039A	-40039B	-40039C	-40039D

See next page...

...From next page

UNF HSS Taps

Hand Taps



Machine Taps



Straight Flute Machine Nitride

Straight Flute Hand Taps

Size	Pitch (TPI)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Order Code TFTR11	Straight Flute Hand Taps			
							Taper	Second	Plug	Set of 3
							Order Code TFTR11	Order Code TFTR11	Order Code TFTR11	Order Code TFTR11
1/2"	20.00	84.00	24.00	9.00	7.10	-50042E	-40042A	-40042B	-40042C	-40042D
9/16"	18.00	90.00	25.00	11.20	9.00	-50045E	-40045A	-40045B	-40045C	-40045D
5/8"	18.00	95.00	25.00	12.50	10.00	-50048E	-40048A	-40048B	-40048C	-40048D
3/4"	16.00	104.00	29.00	14.00	11.20	-50051E	-40051A	-40051B	-40051C	-40051D
7/8"	14.00	113.00	33.00	16.00	12.50	-50054E	-40054A	-40054B	-40054C	-40054D
1"	12.00	120.00	35.00	18.00	14.00	-50057E	-40057A	-40057B	-40057C	-40057D
1-1/8"	12.00	127.00	37.00	20.00	16.00	-50060E	-40060A	-40060B	-40060C	-40060D
1-1/4"	12.00	137.00	37.00	22.40	18.00	-50063E	-40063A	-40063B	-40063C	-40063D
1-3/8"	12.00	144.00	39.00	25.00	20.00	-50066E	-40066A	-40066B	-40066C	-40066D
1-1/2"	12.00	149.00	39.00	28.00	22.40	-50069E	-40069A	-40069B	-40069C	-40069D

UNF HSS Spriral Flute Taps - Nitride Finish

- Standard: ISO529
- Tolerance: H2



Spiral Flute Machine Nitride



Spiral Flute Machine Nitride

Size	Pitch (TPI)	Overall L. (mm)		Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Order Code TFTR11	Size	Pitch (TPI)	Overall L. (mm)		Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Order Code TFTR11
		L. (mm)	L. (mm)							L. (mm)	L. (mm)				
No. 4	48.00	48.00	11.00	3.15	2.50	-60012F		3/8"	24.00	76.00	20.00	10.00	8.00	-60036F	
No. 5	44.00	48.00	11.00	3.15	2.50	-60015F		7/16"	20.00	82.00	22.00	8.00	6.30	-60039F	
No. 6	40.00	50.00	13.00	3.55	2.80	-60018F		1/2"	20.00	84.00	24.00	9.00	7.10	-60042F	
No. 8	36.00	53.00	13.00	4.50	3.55	-60021F		9/16"	18.00	90.00	25.00	11.20	9.00	-60045F	
No. 10	32.00	58.00	16.00	5.00	4.00	-60024F		5/8"	18.00	95.00	25.00	12.50	10.00	-60048F	
No. 12	28.00	62.00	17.00	5.60	4.50	-60027F		3/4"	16.00	104.00	29.00	14.00	11.20	-60051F	
1/4"	28.00	66.00	19.00	6.30	5.00	-60030F		7/8"	14.00	113.00	33.00	16.00	12.50	-60054F	
5/16"	24.00	69.00	19.00	8.00	6.30	-60033F		1"	12.00	120.00	35.00	18.00	14.00	-60057F	
								1-1/8"	12.00	127.00	37.00	20.00	16.00	-60060F	

UNF HSS Taps - Left Hand

- Standard: ISO529
- Tolerance: H2

Hand Taps



Machine Taps



Straight Flute Machine Nitride

Straight Flute Hand Taps

Size	Pitch (TPI)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Order Code TFTR11	Straight Flute Hand Taps			
							Taper	Second	Plug	Set of 3
							Order Code TFTR11	Order Code TFTR11	Order Code TFTR11	Order Code TFTR11
No. 10	32.00	58.00	16.00	5.00	4.00	-50024N	-40024J	-40024K	-40024L	-40024M
1/4"	28.00	66.00	19.00	6.30	5.00	-50030N	-40030J	-40030K	-40030L	-40030M
5/16"	24.00	69.00	19.00	8.00	6.30	-50033N	-40033J	-40033K	-40033L	-40033M
3/8"	24.00	76.00	20.00	10.00	8.00	-50036N	-40036J	-40036K	-40036L	-40036M
7/16"	20.00	82.00	22.00	8.00	6.30	-50039N	-40039J	-40039K	-40039L	-40039M
1/2"	20.00	84.00	24.00	9.00	7.10	-50042N	-40042J	-40042K	-40042L	-40042M
5/8"	18.00	95.00	25.00	12.50	10.00	-50048N	-40048J	-40048K	-40048L	-40048M
3/4"	16.00	104.00	29.00	14.00	11.20	-50051N	-40051J	-40051K	-40051L	-40051M
7/8"	14.00	113.00	33.00	16.00	12.50	-50054N	-40054J	-40054K	-40054L	-40054M
1"	12.00	120.00	35.00	18.00	14.00	-50057N	-40057J	-40057K	-40057L	-40057M

BSPT HSS Taps - 55°

- Standard : ISO529
- Tolerance : H2
- Used for sealing and bonding.



Straight Flute Hand Taps

Size	Pitch (TPI)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Square (mm)	Straight Flute Hand Taps			
						Taper	Second	Plug	Set of 3
						Order Code	Order Code	Order Code	Order Code
1/8"	28	59.0	15.0	8.0	6.3	TFTR12 -41028A	TFTR12 -41028B	TFTR12 -41028C	TFTR12 -41028D
1/4"	19	67.0	19.0	10.0	8.0	-41030A	-41030B	-41030C	-41030D
3/8"	19	75.0	21.0	12.0	10.0	-41036A	-41036B	-41036C	-41036D
1/2"	14	87.0	26.0	16.0	12.5	-41042A	-41042B	-41042C	-41042D
5/8"	14	91.0	26.0	18.0	14.0	-41048A	-41048B	-41048C	-41048D
3/4"	14	96.0	28.0	20.0	16.0	-41051A	-41051B	-41051C	-41051D
7/8"	14	102.0	29.0	22.4	18.0	-41054A	-41054B	-41054C	-41054D
1"	11	109.0	33.0	25.0	20.0	-41057A	-41057B	-41057C	-41057D
1-1/4"	11	119.0	36.0	31.5	25.0	-41063A	-41063B	-41063C	-41063D
1-1/2"	11	125.0	37.0	35.5	28.0	-41069A	-41069B	-41069C	-41069D

Double-ring Machine Taps

- European-produced cobalt powder high-speed steel (PM Bohler)
- High performance and long life
- Different color rings available, suitable for processing different materials
- Advanced design for better chip removal
- Manufacturing standard: German standard DIN 371/376
- Tolerance : 6H

**** Black rings are available in stock, for blue, red and yellow rings, please inquire on demand.**

Black ring (alloy steel)	Blue ring (stainless steel)	Red ring (steel)	Yellow ring (non-ferrous metal, light metal)
G01 Structural steel <1000 N/mm², G03 Surface-hardened steel <1000 N/mm², G08 Carbon tool steel, G10 Chromium stainless steel, G13 Easy cutting steel, G14 Cast iron <1000 N/mm²	G07 Nitride steel, G09 Heat-resistant steel, G11 Cr Stainless steel, Ferritic stainless steel and martensitic stainless steel, G12 Cr-Ni Stainless steel, Austenitic stainless steel, G31 Nickel alloy, G32 Titanium and titanium alloy	G02 Structural steel >900 N/mm², G04 Surface-hardened steel >900 N/mm², G05 Heat-treated steel <1000 N/mm², G06 Heat-treated steel >900 N/mm², G15 Cast steel >900 N/mm², G35 High-strength fine-grain structural steel	G20 Copper, G21 Hard brass (Ms58, short cutting), G22 Soft brass (Ms63, long cutting), G23 Red copper, G24 Phosphor bronze, G25 Forged aluminum alloy, G29 Forged magnesium alloy, G34 Thermoplastic composite materials, synthetic fibers

Straight Flute (Spiral Point)



Size (mm)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Pitch (mm)	Standard	Black ring	Blue ring	Red ring	Yellow ring
						Order Code TFTR10	Order Code TFTR10	Order Code TFTR10	Order Code TFTR10
M3 x 0.5	56.0	11.0	3.5	2.7	S/P, DIN371	-21030E	-22030E	-23030E	-24030E
M4 x 0.7	63.0	13.0	4.5	3.4	S/P, DIN371	-21040E	-22040E	-23040E	-24040E
M5 x 0.8	70.0	16.0	6.0	4.9	S/P, DIN371	-21050E	-22050E	-23050E	-24050E
M6 x 1.0	80.0	19.0	6.0	4.9	S/P, DIN371	-21060E	-22060E	-23060E	-24060E
M8 x 1.25	90.0	22.0	8.0	6.2	S/P, DIN371	-21080E	-22080E	-23080E	-24080E
M10 x 1.5	100.0	24.0	10.0	8.0	S/P, DIN371	-21100E	-22100E	-23100E	-24100E
M12 x 1.75	110.0	29.0	9.0	7.0	DIN376	-21200E	-22200E	-23200E	-24200E
M14 x 2.0	110.0	30.0	11.0	9.0	DIN376	-21400E	-22400E	-23400E	-24400E
M16 x 2.0	110.0	32.0	12.0	9.0	DIN376	-21600E	-22600E	-23600E	-24600E

Spiral Flute



Size (mm)	Overall L. (mm)	Thread L. (mm)	Shank Dia. (mm)	Pitch (mm)	Standard	Black ring	Blue ring	Red ring	Yellow ring
						Order Code TFTR10	Order Code TFTR10	Order Code TFTR10	Order Code TFTR10
M3 x 0.5	56.0	11.0	3.5	2.7	DIN371	-31030F	-32030F	-33030F	-34030F
M4 x 0.7	63.0	13.0	4.5	3.4	DIN371	-31040F	-32040F	-33040F	-34040F
M5 x 0.8	70.0	16.0	6.0	4.9	DIN371	-31050F	-32050F	-33050F	-34050F
M6 x 1.0	80.0	19.0	6.0	4.9	DIN371	-31060F	-32060F	-33060F	-34060F
M8 x 1.25	90.0	22.0	8.0	6.2	DIN371	-31080F	-32080F	-33080F	-34080F
M10 x 1.5	100.0	24.0	10.0	8.0	DIN371	-31100F	-32100F	-33100F	-34100F
M12 x 1.75	110.0	29.0	9.0	7.0	DIN376	-31200F	-32200F	-33200F	-34200F
M14 x 2.0	110.0	30.0	11.0	9.0	DIN376	-31400F	-32400F	-33400F	-34400F
M16 x 2.0	110.0	32.0	12.0	9.0	DIN376	-31600F	-32600F	-33600F	-34600F

Metric Coarse HSS Circular Dies

- Standard: ISO
- Tolerance: 6H



Size (mm)	Pitch (mm)	Outside Dia. (inch)	Thk. (inch)	Order Code TFTR30
M1.6	0.35	13/16"	1/4"	-10160G
M2.0	0.40	13/16"	1/4"	-10200G
M2.5	0.45	13/16"	1/4"	-10250G
M3.0	0.50	13/16"	1/4"	-10300G
M3.5	0.60	13/16"	1/4"	-10350G
M4.0	0.70	13/16"	1/4"	-10400G
M4.0	0.70	1"	3/8"	-10401G
M5.0	0.80	1"	3/8"	-10500G
M5.0	0.80	13/16"	1/4"	-10501G
M6.0	1.00	13/16"	1/4"	-10600G
M6.0	1.00	1"	3/8"	-10601G
M6.0	1.00	1-5/16"	7/16"	-10602G
M7.0	1.00	13/16"	1/4"	-10700G
M8.0	1.25	1"	3/8"	-10800G
M8.0	1.25	1-5/16"	7/16"	-10801G
M8.0	1.25	1-1/2"	1/2"	-10802G
M9.0	1.25	1"	3/8"	-10900G
M9.0	1.25	1-5/16"	3/8"	-10901G
M10.0	1.50	1"	3/8"	-11000G
M10.0	1.50	1-5/16"	7/16"	-11001G
M10.0	1.50	1-1/2"	1/2"	-11002G
M11.0	1.50	1-5/16"	7/16"	-11100G
M12.0	1.75	1-5/16"	7/16"	-11200G
M12.0	1.75	1-1/2"	1/2"	-11201G
M12.0	1.75	2"	5/8"	-11202G
M14.0	2.00	1-5/16"	7/16"	-11400G
M14.0	2.00	1-1/2"	1/2"	-11401G
M14.0	2.00	2"	5/8"	-11402G
M16.0	2.00	1-1/2"	1/2"	-11600G
M16.0	2.00	2"	5/8"	-11601G
M18.0	2.50	1-1/2"	1/2"	-11800G
M18.0	2.50	2"	5/8"	-11801G
M20.0	2.50	1-1/2"	1/2"	-12000G
M20.0	2.50	2"	5/8"	-12001G
M22.0	2.50	2"	5/8"	-12200G
M24.0	3.00	2"	5/8"	-12400G
M27.0	3.00	2"	5/8"	-12700G
M30.0	3.50	3"	7/8"	-13000G
M36.0	4.00	3"	7/8"	-13600G

Metric Fine HSS Circular Dies

- Standard: ISO
- Tolerance: 6H



Size (mm)	Pitch (mm)	Outside Dia. (inch)	Thk. (inch)	Order Code TFTR30
M4.0	0.50	13/16"	1/4"	-20400G
M5.0	0.50	13/16"	1/4"	-20500G
M6.0	0.50	13/16"	1/4"	-20600G
M6.0	0.75	13/16"	1/4"	-20601G
M8.0	1.00	1"	3/8"	-20800G
M10.0	1.25	1"	3/8"	-21000G
M10.0	1.25	1-5/16"	7/16"	-21001G
M12.0	1.25	1-5/16"	7/16"	-21200G
M14.0	1.00	1-5/16"	7/16"	-21400G
M14.0	1.50	1-5/16"	7/16"	-21401G
M16.0	1.50	1-1/2"	1/2"	-21600G
M18.0	1.00	2"	5/8"	-21800G
M18.0	1.50	1-1/2"	1/2"	-21801G
M20.0	1.50	1-1/2"	1/2"	-22000G
M20.0	1.50	2"	5/8"	-22001G
M22.0	1.50	2"	5/8"	-22200G
M24.0	2.00	2"	5/8"	-22400G
M30.0	2.00	3"	7/8"	-23000G

Metric Coarse HSS Circular Dies - Left Hand

- Standard: ISO
- Tolerance: 6H



Size (mm)	Pitch (mm)	Outside Dia. (inch)	Order Code TFTR30
M3.0	0.50	13/16"	-10300R
M4.0	0.70	13/16"	-10400R
M5.0	0.80	13/16"	-10500R
M6.0	1.00	13/16"	-10600R
M6.0	1.00	1"	-10601R
M8.0	1.25	1"	-10800R
M10.0	1.50	1"	-11000R
M12.0	1.75	5/16"	-11200R
M16.0	2.00	1-1/2"	-11601R

UNC HSS Circular Dies

- Standard: ISO
- Tolerance: 6H



Size	Pitch (TPI)	Outside Dia. (inch)	Thk. (inch)	Order Code TFTR31
No.2	56.00	13/16"	1/4"	-10012G
No.4	40.00	13/16"	1/4"	-10016G
No.6	32.00	13/16"	1/4"	-10020G
No.8	32.00	13/16"	1/4"	-10024G
No.10	24.00	13/16"	1/4"	-10028G
1/4"	20.00	13/16"	3/8"	-10032G
1/4"	20.00	1"	3/8"	-10033G
1/4"	20.00	1-5/16"	7/16"	-10034G
5/16"	18.00	1"	3/8"	-10036G
5/16"	18.00	1-5/16"	7/16"	-10037G
3/8"	16.00	1"	3/8"	-10040G
3/8"	16.00	1-5/16"	7/16"	-10041G
7/16"	14.00	1"	3/8"	-10044G
7/16"	14.00	1-5/16"	7/16"	-10045G
1/2"	13.00	1-5/16"	7/16"	-10048G
1/2"	13.00	1-1/2"	1/2"	-10049G
9/16"	12.00	1-5/16"	7/16"	-10052G
9/16"	12.00	1-1/2"	1/2"	-10053G
5/8"	11.00	1-1/2"	1/2"	-10056G
3/4"	10.00	1-1/2"	1/2"	-10060G
7/8"	9.00	2"	5/8"	-10064G
1"	8.00	2"	5/8"	-10068G

UNF HSS Circular Dies

- Standard: ISO
- Tolerance: 6H



Size	Pitch (TPI)	Outside Dia. (inch)	Thk. (inch)	Order Code TFTR31
No.6	40.00	13/16"	1/4"	-20020G
No.10	32.00	13/16"	1/4"	-20028G
No.10	32.00	1"	3/8"	-20029G
1/4"	28.00	13/16"	1/4"	-20032G
1/4"	28.00	1"	3/8"	-20033G
5/16"	24.00	1"	3/8"	-20036G
3/8"	24.00	1"	3/8"	-20040G
3/8"	24.00	1-5/16"	7/16"	-20041G
7/16"	20.00	1"	3/8"	-20044G
7/16"	20.00	1-5/16"	7/16"	-20045G
1/2"	20.00	1-5/16"	7/16"	-20048G
1/2"	20.00	1-1/2"	1/2"	-20049G
9/16"	18.00	1-5/16"	7/16"	-20052G
9/16"	18.00	1-1/2"	1/2"	-20053G
5/8"	18.00	1-1/2"	1/2"	-20056G
3/4"	16.00	1-1/2"	1/2"	-20060G
3/4"	16.00	2"	5/8"	-20063G
7/8"	14.00	2"	5/8"	-20064G
1"	12.00	2"	5/8"	-20068G

Metric Coarse HSS Die Nuts

• Tolerance: 6g



Size (mm)	Pitch (mm)	Width (mm)	Thk. (mm)	Order Code TFTR40
M2.0	0.40	18.0	6.3	-10200H
M2.5	0.45	18.0	6.3	-10250H
M3.0	0.50	18.0	6.3	-10300H
M3.5	0.60	17.0	6.3	-10350H
M4.0	0.70	18.0	6.3	-10400H
M5.0	0.80	18.0	6.3	-10500H
M6.0	1.00	18.0	6.3	-10600H
M7.0	1.00	20.8	7.7	-10700H
M8.0	1.25	17.5	8.0	-10800H
M9.0	1.25	19.8	9.0	-10900H
M10.0	1.50	22.0	11.0	-11000H
M11.0	1.50	22.0	10.8	-11100H
M12.0	1.75	27.0	12.7	-11200H
M14.0	2.00	27.0	12.7	-11400H
M16.0	2.00	33.0	12.7	-11600H
M18.0	2.50	37.5	18.0	-11800H
M20.0	2.50	37.5	16.0	-12000H
M22.0	2.50	42.0	22.0	-12200H
M24.0	3.00	46.0	25.4	-12400H
M27.0	3.00	50.8	25.0	-12700H
M30.0	3.50	57.0	25.4	-13000H
M33.0	3.50	57.0	25.4	-13300H
M36.0	4.00	57.0	25.4	-13600H

Metric Fine HSS Die Nuts

• Tolerance: 6g



Size (mm)	Pitch (mm)	Width (mm)	Thk. (mm)	Order Code TFTR40
M5.0	0.50	19.0	6.3	-20500H
M6.0	0.50	18.0	6.3	-20600H
M6.0	0.75	18.0	6.3	-20601H
M8.0	0.75	20.8	8.0	-20801H
M8.0	1.00	22.0	8.0	-20802H
M9.0	1.00	22.0	9.5	-20902H
M10.0	0.75	23.0	9.5	-21001H
M10.0	1.00	23.0	9.5	-21002H
M10.0	1.25	23.0	9.3	-21003H
M12.0	0.75	27.0	12.7	-21201H
M12.0	1.00	27.0	12.7	-21202H
M12.0	1.25	27.0	9.4	-21203H
M12.0	1.50	28.0	9.4	-21204H
M12.0	1.75	28.0	12.7	-21205H
M13.0	1.00	28.0	12.5	-21300H
M14.0	1.00	27.0	12.7	-21402H
M14.0	1.25	28.0	13.0	-21403H
M15.0	1.00	33.0	12.7	-21500H
M15.0	1.50	33.0	12.7	-21501H
M16.0	1.00	33.0	16.0	-21600H
M16.0	1.25	41.0	16.0	-21601H
M16.0	1.50	41.0	12.7	-21602H
M17.0	1.50	33.0	19.0	-21700H
M18.0	1.00	41.0	19.0	-21800H
M18.0	1.25	37.5	12.7	-21801H
M18.0	1.50	37.5	12.7	-21802H
M18.0	2.00	37.5	12.7	-21803H
M20.0	1.00	41.0	19.0	-22000H
M20.0	1.50	41.0	22.2	-22001H
M20.0	2.00	37.5	19.0	-22002H
M20.0	2.50	41.0	16.0	-22003H
M22.0	1.50	41.0	22.0	-22200H
M22.0	2.50	41.0	22.0	-22201H
M24.0	1.50	46.0	25.4	-22401H
M24.0	2.00	46.0	25.4	-22402H
M26.0	1.50	50.0	25.4	-22601H
M28.0	1.50	56.0	25.4	-22800H
M30.0	1.50	56.0	25.4	-23000H
M30.0	2.00	56.0	25.4	-23001H

UNC HSS Die Nuts

• Tolerance: 2A



Size	Pitch (TPI)	Width (mm)	Thk. (mm)	Order Code TFTR41
No.2	56.00	15.0	6.3	-10012H
No.3	48.00	15.0	6.3	-10014H
No.4	40.00	15.0	6.3	-10016H
No.5	40.00	15.0	6.3	-10018H
No.6	32.00	15.0	6.3	-10020H
No.8	32.00	15.0	6.3	-10024H
No.10	24.00	15.0	6.3	-10028H
No.12	24.00	15.0	6.3	-10030H
1/4"	20.00	17.0	6.3	-10032H
5/16"	18.00	17.4	8.0	-10036H
3/8"	16.00	19.8	9.5	-10040H
7/16"	14.00	22.2	11.0	-10044H
1/2"	13.00	25.4	12.7	-10048H
9/16"	12.00	36.5	12.7	-10052H
5/8"	11.00	36.5	16.0	-10056H
3/4"	10.00	36.5	13.0	-10060H
7/8"	9.00	41.0	22.2	-10064H
1"	8.00	46.0	19.0	-10068H
1-1/4"	7.00	55.5	25.4	-10072H
1-1/2"	6.00	65.0	25.4	-10080H

UNF HSS Die Nuts

• Tolerance: 2A



Size	Pitch (TPI)	Width (mm)	Thk. (mm)	Order Code TFTR41
No.4	48.00	15.0	6.3	-20016H
No.5	44.00	15.0	6.3	-20018H
No.6	40.00	15.0	6.3	-20020H
No.8	36.00	15.0	6.3	-20024H
No.10	32.00	15.0	6.3	-20028H
No.12	32.00	15.0	6.3	-20030H
1/4"	28.00	15.0	6.3	-20032H
5/16"	24.00	17.0	8.0	-20036H
3/8"	24.00	23.0	9.5	-20040H
7/16"	20.00	22.0	11.0	-20044H
1/2"	20.00	25.4	12.7	-20048H
9/16"	18.00	36.5	12.7	-20052H
5/8"	18.00	36.5	16.0	-20056H
3/4"	16.00	36.5	13.0	-20060H
7/8"	14.00	41.3	22.2	-20064H
1"	12.00	46.0	25.4	-20068H
1-1/4"	12.00	55.5	25.4	-20072H
1-1/2"	12.00	70.0	25.4	-20080H

29Pc HSS Metric Coarse Tap & Drill Set

- HSS metric coarse taps (Each size with 1 off taper, second and taper) M3, M4, M5, M6, M8, M10, M12
- Black/golden finish jobber drills (1 off each size): 2.5, 3.3, 4.2, 5.0, 6.8, 8.5, 10.2mm
- 1 off tap wrench: M3 - M12



Order Code TFTR88	Size Range
-81029M	M3 ~ M12

32Pc Metric Tap & Die Set

- Die stock: 25 × 9mm
- Tap wrench: No.1-1/2
- Small screwdriver
- Metric pitch gauge: 0.4 - 6.0mm
- Hand taps (21pcs in total) (each size with 1 off taper, second & plug): M3, M4, M5, M6, M8, M10, M12
- Dies (7pcs in total): M3, M4, M5, M6, M8, M10, M12



Order Code	Size Range
TFTR88	
-80032M	M3 ~ M12

32Pc UNC Tap & Die Set

- Die stock: 25 × 9mm
- Tap wrench: No.1-1/2
- Small screwdriver
- American SAE pitch gauge: 12 - 40TPI
- Hand taps (21pcs in total) (each size with 1 off taper, second & plug): UNC 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 1/2"
- Dies (7pcs in total): UNC 1/8", 5/32", 3/16", 1/4", 5/16", 3/8", 1/2"



Order Code	Size Range (inch)
TFTR88	
-91032N	1/8" ~ 1/2"

Die Stocks

- Made from zinc alloy
- Manufactured to DIN225



Order Code	Die Outside Dia. (mm)	Die Thickness (mm)	Die Range
TFTR75			
-01605D	16	5	M1 - M2.6
-02005D	20	5	M3 - M4
-02007D	20	7	M5 - M6
-0 2509D	25	9	M7 - M9
-03011D	30	11	M10 - M11
-03814D	38	14	M12 - M14
-04518D	45	18	M16 - M20
-05522D	55	22	M22 - M24
-06525D	65	25	M27 - M36
-09036D	90	36	M45 - M52
-10536D	105	36	M55 - M60
-12500D	125	\	M64 - M68
-15000D	150	\	M72

54pc Metric Tap & Die Set in Steel Box

- Die Stocks (6pcs in total): 20 x 5mm, 20 x 7mm, 25 x 9mm, 30 x 11mm, 38 x 14mm, 45 x 18mm
- Tap wrenches (2pcs in total): No.1, No.3
- Small screwdriver: 1pc
- Metric pitch gauge: 0.4 - 6.0mm
- HSS hand taps (33pcs in total) (Each size with 1 off taper, second and taper): M3, M4, M5, M6, M8, M10, M12, M14, M16, M18, M20
- HSS dies (11pcs in total): M3, M4, M5, M6, M8, M10, M12, M14, M16, M18, M20



Order Code	Size Range
TFTR88	
-80054M	M3 - M20

Tap Wrenches

- Made from zinc alloy
- Manufactured to DIN1814



Order Code	Size	For Metric Tap Range	For American Tap Range (UNC / UNF)
TFTR70			
-00000T	No.0	M1 - M8	1/16" - 5/16"
-00010T	No.1	M1 - M10	1/16" - 3/8"
-00015T	No.1-1/2	M1 - M12	1/16" - 1/2"
-00020T	No.2	M4 - M12	3/16" - 5/8"
-00030T	No.3	M5 - M20	1/4" - 3/4"
-00040T	No.4	M9 - M27	3/8" - 1"
-00050T	No.5	M13 - M32	5/8" - 1-1/4"
-00060T	No.6	M18 - M42	3/4" - 1-1/2"
-00070T	No.7	M25 - M52	7/8" - 2"
-00080T	No.8	M25 - M70	1" - 2-7/8"

Ratchet Tap Wrenches

- Reversible
- Easy to use



Order Code	For Metric Tap Range	For American Tap Range (UNC / UNF)	Length (mm)
TFTR71			
-00310T	M3 - M10	1/8" - 3/8"	85
-00512T	M5 - M12	7/32" - 1/2"	100
Extended Type			
-00310L	M3 - M10	1/8" - 3/8"	250
-00512L	M5 - M12	7/32" - 1/2"	300

HSS Metric Multi Flute Core Drills

- Made from quality HSS
- The specially designed teeth ensure the precise drilling and a long service life for a range of cutting depths from 35 to 100 mm.
- This weldon shank is suitable for magnetic drilling machines of Temo, Alfa Rotabest, DBS, Bux, Ruko, Magnetor, Euroboor, Universal, Nitto, Jancy, Hougen, Magtron, Promac, Rotabroach and all other machines with weldon shank.
- Excellent durable, high chemical and corrosion resistance.
- Mainly for cutting steel panels, cast steel, non-ferrous metals and alloys etc.

Magnetic drill
machines see page
P147, P148



Order Code TFCD10	Drilling Dia. (mm)	Cutting Depth (mm)	Shank Dia. (mm)	Order Code TFCD10	Drilling Dia. (mm)	Cutting Depth (mm)	Shank Dia. (mm)	Order Code TFCD10	Drilling Dia. (mm)	Cutting Depth (mm)	Shank Dia. (mm)	Order Code TFCD10	Drilling Dia. (mm)	Cutting Depth (mm)	Shank Dia. (mm)
-03012A	12	35	19	-05012A	12	50	19	-07518A	18	75	19	-10018A	18	100	19
-03013A	13	35	19	-05013A	13	50	19	-07519A	19	75	19	-10019A	19	100	19
-03014A	14	35	19	-05014A	14	50	19	-07520A	20	75	19	-10020A	20	100	19
-03015A	15	35	19	-05015A	15	50	19	-07521A	21	75	19	-10021A	21	100	19
-03016A	16	35	19	-05016A	16	50	19	-07522A	22	75	19	-10022A	22	100	19
-03017A	17	35	19	-05017A	17	50	19	-07523A	23	75	19	-10023A	23	100	19
-03018A	18	35	19	-05018A	18	50	19	-07524A	24	75	19	-10024A	24	100	19
-03019A	19	35	19	-05019A	19	50	19	-07525A	25	75	19	-10025A	25	100	19
-03020A	20	35	19	-05020A	20	50	19	-07526A	26	75	19	-10026A	26	100	19
-03021A	21	35	19	-05021A	21	50	19	-07527A	27	75	19	-10027A	27	100	19
-03022A	22	35	19	-05022A	22	50	19	-07528A	28	75	19	-10028A	28	100	19
-03023A	23	35	19	-05023A	23	50	19	-07529A	29	75	19	-10029A	29	100	19
-03024A	24	35	19	-05024A	24	50	19	-07530A	30	75	19	-10030A	30	100	19
-03025A	25	35	19	-05025A	25	50	19	-07531A	31	75	19	-10031A	31	100	19
-03026A	26	35	19	-05026A	26	50	19	-07532A	32	75	19	-10032A	32	100	19
-03027A	27	35	19	-05027A	27	50	19	-07533A	33	75	19	-10033A	33	100	19
-03028A	28	35	19	-05028A	28	50	19	-07534A	34	75	19	-10034A	34	100	19
-03029A	29	35	19	-05029A	29	50	19	-07535A	35	75	19	-10035A	35	100	19
-03030A	30	35	19	-05030A	30	50	19	-07536A	36	75	19	-10036A	36	100	19
-03031A	31	35	19	-05031A	31	50	19	-07537A	37	75	19	-10037A	37	100	19
-03032A	32	35	19	-05032A	32	50	19	-07538A	38	75	19	-10038A	38	100	19
-03033A	33	35	19	-05033A	33	50	19	-07539A	39	75	19	-10039A	39	100	19
-03034A	34	35	19	-05034A	34	50	19	-07540A	40	75	19	-10040A	40	100	19
-03035A	35	35	19	-05035A	35	50	19	-07541A	41	75	19	-10041A	41	100	19
-03036A	36	35	19	-05036A	36	50	19	-07542A	42	75	19	-10042A	42	100	19
-03037A	37	35	19	-05037A	37	50	19	-07543A	43	75	19	-10043A	43	100	19
-03038A	38	35	19	-05038A	38	50	19	-07544A	44	75	19	-10044A	44	100	19
-03039A	39	35	19	-05039A	39	50	19	-07545A	45	75	19	-10045A	45	100	19
-03040A	40	35	19	-05040A	40	50	19	-07546A	46	75	19	-10046A	46	100	19
-03041A	41	35	19	-05041A	41	50	19	-07547A	47	75	19	-10047A	47	100	19
-03042A	42	35	19	-05042A	42	50	19	-07548A	48	75	19	-10048A	48	100	19
-03043A	43	35	19	-05043A	43	50	19	-07549A	49	75	19	-10049A	49	100	19
-03044A	44	35	19	-05044A	44	50	19	-07550A	50	75	19	-10050A	50	100	19
-03045A	45	35	19	-05045A	45	50	19	-07551A	51	75	19	-10051A	51	100	19
-03046A	46	35	19	-05046A	46	50	19	-07552A	52	75	19	-10052A	52	100	19
-03047A	47	35	19	-05047A	47	50	19	-07553A	53	75	19	-10053A	53	100	19
-03048A	48	35	19	-05048A	48	50	19	-07554A	54	75	19	-10054A	54	100	19
-03049A	49	35	19	-05049A	49	50	19	-07555A	55	75	19	-10055A	55	100	19
-03050A	50	35	19	-05050A	50	50	19	-07556A	56	75	19	-10056A	56	100	19
-03051A	51	35	19	-05051A	51	50	19	-07557A	57	75	19	-10057A	57	100	19
-03052A	52	35	19	-05052A	52	50	19	-07558A	58	75	19	-10058A	58	100	19
-03053A	53	35	19	-05053A	53	50	19	-07559A	59	75	19	-10059A	59	100	19
-03054A	54	35	19	-05054A	54	50	19	-07560A	60	75	19	-10060A	60	100	19
-03055A	55	35	19	-05055A	55	50	19								
-03056A	56	35	19	-05056A	56	50	19								
-03057A	57	35	19	-05057A	57	50	19								
-03058A	58	35	19	-05058A	58	50	19								
-03059A	59	35	19	-05059A	59	50	19								
-03060A	60	35	19	-05060A	60	50	19								

7Pc Metric HSS Core Drill Kit in Plastic Box - 35mm Cutting Depth

- Contents (35mm cutting depth):
6pcs of core drills: 14, 16, 18, 20, 22, 24mm
1pc of pilot pin: 6.34/5.3 x 77mm



Magnetic drill machines see page P147, P148

Order Code	Size Range (mm)
TFCD10	
-83007M	14 ~ 24

7Pc Metric HSS Core Drill Kit in Plastic Box - 50mm Cutting Depth

- Contents (50mm cutting depth):
6pcs of core drills: 14, 16, 18, 20, 22, 24mm
1pc of pilot pin: 6.34/5.3 x 77mm



Magnetic drill machines see page P147, P148

Order Code	Size Range (mm)
TFCD10	
-85007M	14 ~ 24

7Pc Inch HSS Core Drill Kit in Plastic Box - 1" Cutting Depth

- Contents (1" cutting depth):
6pcs of core drills: 9/16", 5/8", 3/4", 7/8", 15/16", 1"
1pc of pilot pin: 6.34/5.3 x 77mm



Magnetic drill machines see page P147, P148

Order Code	Size Range (inch)
TFCD10	
-90107N	9/16" ~ 1"

7Pc Metric T.C.T. Core Drill Kit in Plastic Box - 35mm Cutting Depth

- Contents (35mm cutting depth):
5pcs of core drills: 14, 16, 18, 20, 22mm
2pcs of pilot pins: 6.34/5.3 x 77mm & 7.98 x 105mm



Magnetic drill machines see page P147, P148

Order Code	Size Range (mm)
TFCD20	
-83507M	14 ~ 22

7Pc Metric T.C.T. Core Drill Kit in Plastic Box - 50mm Cutting Depth

- Contents (50mm cutting depth):
5pcs of core drills: 14, 16, 18, 20, 22mm
2pcs of pilot pins: 6.34/5.3 x 77mm & 7.98 x 105mm



Magnetic drill machines see page P147, P148

Order Cod	Size Range (mm)
TFCD20	
-85007M	14 ~ 22

7Pc Inch T.C.T. Core Drill Kit in Plastic Box - 1-3/8" Cutting Depth

- Contents (1-3/8" cutting depth):
5pcs of core drills: 9/16", 5/8", 3/4", 7/8", 15/16"
2pcs of pilot pins: 6.34/5.3 x 77mm & 7.98 x 105mm



Magnetic drill machines see page P147, P148

Order Code	Size Range (inch)
TFCD20	
-90107N	9/16" ~ 15/16"

Morse Taper Arbors - Screw Clamping, Internal Coolant

- Fitted with weldon shanks and quick change shanks such as Nitto shanks
- Used with magnetic drills, drill presses and drilling/milling machines
- Internal cooling



Magnetic drill machines see page P147, P148

Order Code	Clamping Diameter	Morse Taper	Overall L. (mm)	Cutting Depth (mm)
-19168A	19.05mm (3/4")	MT2	168	50
-19187A	19.05mm (3/4")	MT3	187	50
-19203A	19.05mm (3/4")	MT3	203	75
-32250A	31.75mm (1-1/4")	MT4	250	100
-32269A	31.75mm (1-1/4")	MT5	269	100

Morse Taper Arbors - Screw Clamping, External Coolant

- Fitted with weldon shanks and quick change shanks such as Nitto shanks
- Used with magnetic drills, drill presses and drilling/milling machines
- External cooling



Magnetic drill machines see page P147, P148

Order Code	Clamping Diameter	Morse Taper	Overall L. (mm)	Cutting Depth (mm)
-19162A	19.05mm (3/4")	MT2	162	50
-19176A	19.05mm (3/4")	MT3	176	50

Pilot Pins



Order Code TFCD72	Size(mm)	Type of Magnetic Core Drill	Cutting Diameter of Magnetic Core Drill (mm)	Cutting Depth of Magnetic Core Drill
-63077P	6.34/5.3 × 77	HSS	12-60	25mm (1")
-63090P	6.34/5.3 × 90	T.C.T. Solid Carbide Tooth	12-17	35mm (1-3/8")
-63102P	6.34/5.3 × 102	HSS	12-60	50mm (2")
		T.C.T. Solid Carbide Tooth	12-17	
-80090P	7.98 × 90	T.C.T. Solid Carbide Tooth	18-60	35mm (1-3/8")
-80105P	7.98 × 105	T.C.T. Solid Carbide Tooth	18-60	50mm (2")
-80130P	7.98 × 130	HSS	14-60	75mm (3")
		T.C.T. Solid Carbide Tooth	18-60	
-80155P	7.98 × 155	HSS	14-60	100mm (4")
		T.C.T. Solid Carbide Tooth	18-60	

11Pc T.C.T. Holesaw Kit

- Contents: 7pcs of TCT holesaws; 19, 22, 25, 29, 35, 44 & 51mm
1pc of 6.0mm drill
1pc of spring
2pcs of hex keys
- Packed in an EVA box



Order Code: TFCD40-80111M

8Pc Interchangeable HSS Holesaw Kit

- Contents: 5pcs of HSS holesaws; 16, 20, 22, 25 & 30mm
2pcs of K1 arbors
1pc of hex key
- Packed in an EVA box



Order Code: TFCD30-80108M

Tungsten Carbide Tipped Holesaws

- This range of tungsten carbide tipped holesaws are perfect for cutting clean and precise holes in a range of materials.
- The holesaw has a cutting depth up to 25mm and an arbor with a 10mm diameter shank that allows the cutter to be easily attached to many keyless chucks in drills, ensuring a safe and reliable connection for cutting.
- The holesaw also includes an ejector spring that provides safe and easy removal of waste material after cutting is completed, ensuring the hole cutter is free of debris with every use.
- The tungsten carbide construction ensures excellent durability with a high chemical and corrosion resistance.



Order Code TFCD40	Cutting Dia. (mm)	Cutting Dia. (inch)	Overall L. (mm)	Cutting Depth (mm)	Shank Dia. (mm)
-28014K	14	9/16"	107	25	10
-28016K	16	5/8"	107	25	10
-28017K	17	11/16"	107	25	10
-28019K	19	3/4"	107	25	10
-28020K	20	25/32"	107	25	10
-28021K	21	13/16"	107	25	10
-28022K	22	7/8"	107	25	10
-28024K	24	15/16"	107	25	10
-28025K	25	1"	107	25	10
-28027K	27	1-1/16"	107	25	10
-28029K	29	1-1/8"	107	25	10
-28030K	30	1-3/16"	107	25	10
-28032K	32	1-1/4"	107	25	10
-28033K	33	1-5/16"	107	25	10
-28035K	35	1-3/8"	107	25	10
-28037K	37	1-7/16"	107	25	10
-28038K	38	1-1/2"	107	25	10
-28040K	40	1-9/16"	107	25	10
-28041K	41	1-5/8"	107	25	10
-28043K	43	1-11/16"	107	25	10
-28044K	44	1-3/4"	107	25	10
-28046K	46	1-13/16"	107	25	10
-28048K	48	1-7/8"	107	25	10
-28051K	51	2"	107	25	10
-28052K	52	2-1/16"	107	25	10
-28054K	54	2-1/8"	107	25	10
-28057K	57	2-1/4"	107	25	10
-28059K	59	2-5/16"	107	25	10
-28060K	60	2-3/8"	107	25	10
-28065K	65	2-9/16"	107	25	10
-28070K	70	2-3/4"	135	25	13
-28075K	75	3"	135	25	13
-28080K	80	3-1/8"	135	25	13
-28085K	85	3-3/8"	135	25	13
-28090K	90	3-1/2"	135	25	13
-28095K	95	3-3/4"	135	25	13
-28100K	100	3-7/8"	135	25	13
-28105K	105	4-1/8"	135	25	13
-28110K	110	4-3/8"	135	25	13
-28115K	115	4-1/2"	135	25	13
-28120K	120	4-3/4"	135	25	13
-28125K	125	5"	135	25	13
-28130K	130	5-1/4"	135	25	13
-28140K	140	5-1/2"	135	25	13
-28150K	150	6"	135	25	13

HSS Holesaws

- Made from quality HSS, specially designed for cutting holes in sheet metals up to 25mm in thickness.
- The unique ejector spring that provides safe and easy removal of waste material after cutting is completed, ensuring the hole cutter is free of debris with every use.
- One-piece body ensures the smooth cutting with less vibration and resonance.



Order Code TFCD30	Cutting Dia. (mm)	Overall L. (mm)	Cutting Depth (mm)	Shank Dia. (mm)
-07014A	14	70	2	10
-07015A	15	70	2	10
-07016A	16	70	2	10
-07017A	17	70	2	10
-07018A	18	70	2	10
-07019A	19	70	2	10
-07020A	20	70	2	10
-07021A	21	70	2	10
-07022A	22	70	2	10
-07023A	23	70	2	10
-07024A	24	70	2	10
-07025A	25	70	2	10
-07026A	26	70	2	10
-07027A	27	70	2	10
-07028A	28	70	2	10
-07029A	29	70	2	10
-07030A	30	70	2	10
-07032A	32	70	2	10
-07033A	33	70	2	10
-07035A	35	70	2	10
-07036A	36	70	2	10
-07038A	38	70	2	10
-07039A	39	70	2	10
-07040A	40	70	2	13
-07042A	42	70	2	13
-07045A	45	70	2	13
-07048A	48	70	2	13
-07050A	50	70	2	13
-07053A	53	70	2	13
-07055A	55	70	2	13
-07060A	60	70	2	13
-07065A	65	70	2	13
-07070A	70	70	2	13
-07075A	75	70	2	13
-07080A	80	70	2	13
-07085A	85	70	2	13
-07090A	90	70	2	13
-07100A	100	70	2	13

Bi-Metal Holesaws

- Suitable for processing a variety of plates thickness within 4.5mm such as steel, stainless steel, cast iron, plastic board, wood and other plates



Order Code	Cutting Dia.		Arbors Type	Cutting Depth (mm)
	(mm)	(inch)		
-38014B	14	9/16"	K1, K4	38
-38016B	16	5/8"	K1, K4	38
-38017B	17	11/16"	K1, K4	38
-38019B	19	3/4"	K1, K4	38
-38020B	20	25/32"	K1, K4	38
-38021B	21	13/16"	K1, K4	38
-38022B	22	7/8"	K1, K4	38
-38024B	24	15/16"	K1, K4	38
-38025B	25	1"	K1, K4	38
-38027B	27	1-1/16"	K1, K4	38
-38029B	29	1-1/8"	K1, K4	38
-38030B	30	1-3/16"	K1, K4	38
-38032B	32	1-1/4"	K2, K10	38
-38033B	33	1-5/16"	K2, K10	38
-38035B	35	1-3/8"	K2, K10	38
-38037B	37	1-7/16"	K2, K10	38
-38038B	38	1-1/2"	K2, K10	38
-38040B	40	1-9/16"	K2, K10	38
-38041B	41	1-5/8"	K2, K10	38
-38043B	43	1-11/16"	K2, K10	38
-38044B	44	1-3/4"	K2, K10	38
-38046B	46	1-13/16"	K2, K10	38
-38048B	48	1-7/8"	K2, K10	38
-38051B	51	2"	K2, K10	38
-38052B	52	2-1/16"	K2, K10	38
-38054B	54	2-1/8"	K2, K10	38
-38057B	57	2-1/4"	K2, K10	38
-38059B	59	2-5/16"	K2, K10	38
-38060B	60	2-3/8"	K2, K10	38
-38064B	64	2-1/2"	K2, K10	38
-38065B	65	2-9/16"	K2, K10	38
-38067B	67	2-5/8"	K2, K10	38
-38068B	68	2-11/16"	K2, K10	38
-38070B	70	2-3/4"	K2, K10	38
-38073B	73	2-7/8"	K2, K10	38
-38076B	76	3"	K2, K10	38
-38079B	79	3-1/8"	K2, K10	38
-38083B	83	3-1/4"	K2, K10	38
-38086B	86	3-3/8"	K2, K10	38
-38089B	89	3-1/2"	K2, K10	38
-38092B	92	3-5/8"	K2, K10	38
-38095B	95	3-3/4"	K2, K10	38
-38098B	98	3-7/8"	K2, K10	38
-38102B	102	4"	K2, K10	38
-38105B	105	4-1/8"	K2, K10	38
-38108B	108	4-1/4"	K2, K10	38
-38111B	111	4-3/8"	K2, K10	38
-38114B	114	4-1/2"	K2, K10	38
-38121B	121	4-3/4"	K2, K10	38
-38127B	127	5"	K2, K10	38
-38133B	133	5-1/4"	K2, K10	38
-38140B	140	5-1/2"	K2, K10	38
-38146B	146	5-3/4"	K2, K10	38
-38152B	152	6"	K2, K10	38
-38160B	160	6-19/64"	K2, K10	38
-38168B	168	6-5/8"	K2, K10	38
-38177B	177	6-31/32"	K2, K10	38
-38200B	200	7-7/8"	K2, K10	38

Bi-Metal Holesaw Kits

- Used in variety of industrial applications & maintenance circumstances

9Pcs Set

- Contents:
6pcs of holesaws; 16, 20, 25, 32, 40 & 51mm
2pcs of arbors (K1 & K2)
1pc of mandrel adapter
- Packed in an EVA box

16Pcs Set

- Contents:
11pcs of holesaws; 19, 22, 25, 32, 35, 38, 44, 51, 57, 64 & 76mm
2pcs of arbors (K1 & K10)
1pc of 300mm extension
1pc of 6.35mm drill
1pc of spring
- Packed in an EVA box

19Pcs Set

- Contents:
13pcs of holesaws; 19, 22, 25, 29, 32, 35, 38, 44, 51, 57, 64, 76 & 83mm
2pcs of arbors (K1 & K10)
1pc of 300mm extension
2pcs of 6.35mm drills
1pc of spring
- Packed in an EVA box



Order Code	Number of Pieces
TFCD50	
-80109M	9
-80116M	16
-80119M	19

Arbors

Types	Order code TFCD55	Codes	Cutting Diameters of Holesaws (mm)	Shank Diameters	Shapes of Shanks
	-10004K	K4	14-30	1/4"	Round
	-20001K	K1	14-30	3/8"	Hexagon
	-20002K	K2	32-210	3/8"	Hexagon
	-20010K	K10	32-210	7/16"	Hexagon

Inserts - ISO Designation

Insert Shape			Metric				
Symbol	Hole	Chipbreaker	Profile	Symbol	Hole	Chipbreaker	Profile
	A	Without		N	Without Hole	Without	
	B	Without		R	Without Hole	Single-sided	
	C	Without		F	Without Hole	Double-sided	
	D	Single-sided		A	With Hole	Without	
	E	Single-sided		M	With Hole	Single-sided	
	H	Single-sided		G	With Hole	Double-sided	
	K	Double-sided		X	---	---	Special
	L	Double-sided		U	With Hole	Double-sided	
	M	Without					
	O	Without					
	P	Without					
	R	Without					
	S	Without					
	T	Without					
	T	Without					
	V	Without					
	W	Without					
	Z	Without					

C N M G

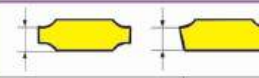
Clearance Angle			
Symbol	Normal Clearance	Symbol	Normal Clearance
A		B	
C		D	
E		F	
G		N	
P		O	Others

Tolerance Class										
Symbol	Nose Height (m) (mm)	I.C. Dia (d) (mm)	Thickness (s) (mm)	Detail of M Class Insert Tolerance						
A	±0.005	±0.025	±0.025	● Tolerance of Nose Height m (mm)						
F	±0.005	±0.013	±0.025	D.I.C.	Triangular	Square	Rhombic 80°	Rhombic 55°	Rhombic 35°	Round
C	±0.013	±0.025	±0.025	6.35	±0.08	±0.08	±0.08	±0.11	±0.16	---
H	±0.013	±0.013	±0.025	9.525	±0.08	±0.08	±0.08	±0.11	±0.16	---
E	±0.025	±0.025	±0.025	12.7	±0.13	±0.13	±0.13	±0.15	---	---
G	±0.025	±0.025	±0.13	15.875	±0.15	±0.15	±0.15	±0.18	---	---
J	±0.005	±0.05±0.13	±0.025	19.05	±0.15	±0.15	±0.15	±0.18	---	---
K	±0.013	±0.05±0.13	±0.025	25.4	---	±0.18	---	---	---	---
L	±0.025	±0.05±0.13	±0.025	● Tolerance of Inscribed Circle (mm)						
M	±0.08±0.18	±0.05±0.13	±0.13	D.I.C.	Triangular	Square	Rhombic 80°	Rhombic 55°	Rhombic 35°	Round
N	±0.08±0.18	±0.05±0.13	±0.025	6.35	±0.05	±0.05	±0.05	±0.05	±0.05	---
U	±0.13±0.38	±0.08±0.25	±0.13	9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
				12.7	±0.08	±0.08	±0.08	±0.08	±0.08	±0.08
				15.875	±0.10	±0.10	±0.10	±0.10	±0.10	±0.10
				19.05	±0.10	±0.10	±0.10	±0.10	±0.10	±0.10
				25.4	---	±0.13	---	---	---	±0.13

Inserts - ISO Designation

I.C. dia. (mm)	Insert Shape							
	C	D	R	S	T	V	W	K
3.97					06			
5.0			05					
5.56					09			
6.0			06					
6.35	06	07			11	11		
8.0			08					
9.525	09	11	09	09	16	16	06	16
10.0			10					
12.0			12					
12.7	12	15	12	12	22	22	08	
15.875	16		15	15	27			
16.0		19	16					
19.05	19		19	19	33			
20.0			20					
25.0	25	25	25					
25.4			25	25				
31.75			31					
32			32					

Cutting Edge Length



The thickness for chipbreaker inserts is the height from the bottom face to the cutting edge

Symbol	Thickness(mm)
00	0.79
T0	0.99
01	1.59
T1	1.98
02	2.38
T2	2.58
03	3.18
T3	3.97
04	4.76
T4	4.96
05	5.56
T5	5.95
06	6.35
T6	6.75
07	7.94
09	9.52
T9	9.72
11	11.11
12	12.70

Thickness

12 04 08 - BM (ISO)
4 3 2 (Inch)

I.C.	
Symbol	I.C. dia (mm)
2	6.35
3	9.525
4	12.7
5	15.875
6	19.05
8	25.4

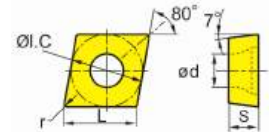
Thickness	
Symbol	Thickness (mm)
2	3.18
3	4.76
4	6.35
5	7.94
6	9.52

Corner Radius	
Symbol	Corner Radius (mm)
0	0.2
1	0.4
2	0.8
3	1.2
4	1.6
5	2.0
6	2.4

Corner Configuration	
Symbol	Corner Radius (mm)
00	Sharp Nose
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
32	3.2
X	Others
M0: Metric	Round Insert

Chipbreakers		
GF	GM	GR
HF	HM	HR
BF	BM	BR
GS	GR	ZR
AH	AC	GF

CCGT Carbide Turning Inserts for Aluminum



Positive Angle

Shape*	Order Code	Designation**	Size					Application	Workpiece Material
	TFCT40		L	D I.C	s	d	r		
	-01202A	CCGT060202-AK	6.4	6.35	2.38	2.8	0.2	Finishing	Aluminium Brass
	-01204A	CCGT060204-AK	6.4	6.35	2.38	2.8	0.4	Semi finishing	Aluminium Brass
	-01208A	CCGT060208-AK	6.4	6.35	2.38	2.8	0.8	Roughing	Aluminium Brass
	-01302A	CCGT09T302-AK	9.7	9.525	3.97	4.4	0.2	Finishing	Aluminium Brass
	-01304A	CCGT09T304-AK	9.7	9.525	3.97	4.4	0.4	Semi finishing	Aluminium Brass
	-01308A	CCGT09T308-AK	9.7	9.525	3.97	4.4	0.8	Roughing	Aluminium Brass
	-01402A	CCGT120402-AK	12.9	12.7	4.76	5.56	0.8	Finishing	Aluminium Brass
	-01404A	CCGT120404-AK	12.9	12.7	4.76	5.56	0.4	Semi finishing	Aluminium Brass
-01408A	CCGT120408-AK	12.9	12.7	4.76	5.56	0.8	Roughing	Aluminium Brass	

Suitable for External/Internal Toolholders

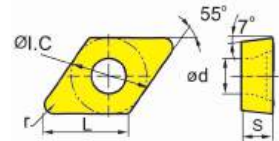
SCLCR/L



* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.

DCGT Carbide Turning Inserts for Aluminum



Positive Angle

Shape*	Order Code	Designation**	Size					Application	Workpiece Material
	TFCT40		L	D I.C	s	d	r		
	-02202A	DCGT070202-AK	7.8	6.35	2.38	2.8	0.2	Finishing	Aluminium Brass
	-02204A	DCGT070204-AK	7.8	6.35	2.38	2.8	0.4	Semi finishing	Aluminium Brass
	-02302A	DCGT11T302-AK	11.6	9.525	3.97	4.4	0.2	Finishing	Aluminium Brass
	-02304A	DCGT11T304-AK	11.6	9.525	3.97	4.4	0.4	Semi finishing	Aluminium Brass
	-02308A	DCGT11T308-AK	11.6	9.525	3.97	4.4	0.8	Roughing	Aluminium Brass

Suitable for External/Internal Toolholders

SDQGR/L

SDUGR/L

SDZCR/L

SDJCR/L

SDACR/L

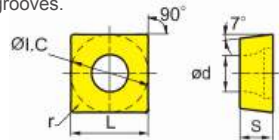
SDNCN



* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.

SCGT Carbide Turning Inserts for Aluminum



Positive Angle

Shape*	Order Code	Designation**	Size					Application	Workpiece Material
	TFCT40		L	D I.C	s	d	r		
	-03302A	SCGT09T302-AK	9.7	9.525	3.97	4.4	0.2	Finishing	Aluminium Brass
	-03304A	SCGT09T304-AK	9.7	9.525	3.97	4.4	0.4	Semi finishing	Aluminium Brass
	-03308A	SCGT09T308-AK	9.7	9.525	3.97	4.4	0.8	Roughing	Aluminium Brass
	-03402A	SCGT120402-AK	12.9	12.7	4.76	5.56	0.2	Finishing	Aluminium Brass
	-03404A	SCGT120404-AK	12.9	12.7	4.76	5.56	0.4	Semi finishing	Aluminium Brass
	-03408A	SCGT120408-AK	12.9	12.7	4.76	5.56	0.8	Roughing	Aluminium Brass

Suitable for External/Internal Toolholders

SSKCR/L

SSBCR/L

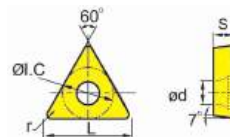
SSSCR/L



* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.

TCGT Carbide Turning Inserts for Aluminum



Positive Angle

Shape*	Order Code	Specifications**	Size					Application	Workpiece Material
	TFCT40		L	D.I.C	s	d	r		
	-04202A	TCGT090202-AK	9.6	5.56	2.38	2.5	0.2	Finishing	Aluminium Brass
	-04204A	TCGT090204-AK	9.6	5.56	2.38	2.5	0.4	Semi finishing	Aluminium Brass
	-04202B	TCGT110202-AK	11	6.35	2.38	2.8	0.2	Finishing	Aluminium Brass
	-04204B	TCGT110204-AK	11	6.35	2.38	2.8	0.4	Semi finishing	Aluminium Brass
	-04208A	TCGT110208-AK	11	6.35	2.38	2.8	0.8	Roughing	Aluminium Brass
	-04302A	TCGT16T302-AK	16.5	9.525	3.97	4.4	0.2	Finishing	Aluminium Brass
-04304A	TCGT16T304-AK	16.5	9.525	3.97	4.4	0.4	Semi finishing	Aluminium Brass	

Suitable for External/Internal Toolholders

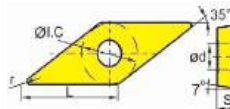
STFCR/L
STGCR/L

* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.


P64
P64

VCGT Carbide Turning Inserts for Aluminum



Positive Angle

Shape*	Order Code	Specifications**	Size					Application	Workpiece Material
	TFCT40		L	D.I.C	s	d	r		
	-05202A	VCGT110202-AK	11	6.35	2.38	2.8	0.2	Finishing	Aluminium Brass
	-05204A	VCGT110204-AK	11	6.35	2.38	2.8	0.4	Semi finishing	Aluminium Brass
	-05302A	VCGT110302-AK	11	6.35	3.18	2.8	0.2	Finishing	Aluminium Brass
	-05304A	VCGT110304-AK	11	6.35	3.18	2.8	0.4	Semi finishing	Aluminium Brass
	-05308A	VCGT110308-AK	11	6.35	3.18	2.8	0.8	Roughing	Aluminium Brass
	-05402A	VCGT160402-AK	16.6	9.525	4.76	4.4	0.2	Finishing	Aluminium Brass
	-05404A	VCGT160404-AK	16.6	9.525	4.76	4.4	0.4	Semi finishing	Aluminium Brass
	-05408A	VCGT160408-AK	16.6	9.525	4.76	4.4	0.8	Roughing	Aluminium Brass
	-05412A	VCGT160412-AK	16.6	9.525	4.76	4.4	1.2	Roughing	Aluminium Brass

Suitable for External/Internal Toolholders

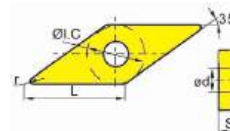
SVUCR/L
SVQCR/L
SVJCR/L
SVVCN

* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.


P65
P65

VNMG Carbide Turning Inserts - CVD, PVD Coated



Negative Angle

Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code	Order Code	Order Code		L	D.I.C	s	d	r	
	-20404A	-20404J	-20404V	VNMG160404-BF	16.6	9.525	4.76	3.81	0.4	Semi finishing
	-20408A	-20408J	-20408V	VNMG160408-BF	16.6	9.525	4.76	3.81	0.8	Roughing
	-20405A	-20405J	-20405V	VNMG160404-GM	16.6	9.525	4.76	3.81	0.4	Semi finishing
	-20409A	-20409J	-20409V	VNMG160408-GM	16.6	9.525	4.76	3.81	0.8	Roughing
	-20404B	-20404K	-20404U	VNMG160404	16.6	9.525	4.76	3.81	0.4	Semi finishing
	-20408B	-20408K	-20408U	VNMG160408	16.6	9.525	4.76	3.81	0.8	Roughing

Suitable for External/Internal Toolholders

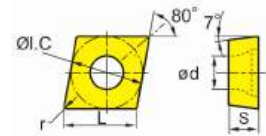
MVJNR/L
MVVNN

* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.


P61
P60

CCMT Carbide Turning Inserts - CVD, PVD Coated



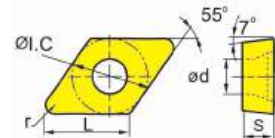
Positive Angle

Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT41	Order Code TFCT42		L	D.I.C	s	d	r	
	-06202A	-06202J	-06202T	CCMT060202-HF	6.4	6.35	2.38	2.8	0.2	Finishing
	-06204A	-06204J	-06204T	CCMT060204-HF	6.4	6.35	2.38	2.8	0.4	Finishing
	-06302A	-06302J	-06302T	CCMT09T302-HF	9.7	9.525	3.97	4.4	0.2	Finishing
	-06304A	-06304J	-06304T	CCMT09T304-HF	9.7	9.525	3.97	4.4	0.4	Finishing
	-06404A	-06404J	-06404T	CCMT120404-HF	12.9	12.7	4.76	5.56	0.4	Finishing
	-06204B	-06204K	-06204V	CCMT060204-HM	6.4	6.35	2.38	2.8	0.4	Semi finishing
	-06208B	-06208K	-06208V	CCMT060208-HM	6.4	6.35	2.38	2.8	0.8	Semi finishing
	-06304B	-06304K	-06304V	CCMT09T304-HM	9.7	9.525	3.97	4.4	0.4	Semi finishing
	-06308B	-06308K	-06308V	CCMT09T308-HM	9.7	9.525	3.97	4.4	0.8	Semi finishing
	-06404B	-06404K	-06404V	CCMT120404-HM	12.9	12.7	4.76	5.56	0.4	Semi finishing
	-06408B	-06408K	-06408V	CCMT120408-HM	12.9	12.7	4.76	5.56	0.8	Semi finishing
	-06308C	-06308L	-06308U	CCMT09T308-HR	9.7	9.525	3.97	4.4	0.8	Roughing
	-06312C	-06312L	-06312U	CCMT09T312-HR	9.7	9.525	3.97	4.4	1.2	Roughing
	-06408C	-06408L	-06408U	CCMT120408-HR	12.9	12.7	4.76	5.56	0.8	Roughing
	-06412C	-06412L	-06412U	CCMT120412-HR	12.9	12.7	4.76	5.56	1.2	Roughing

Suitable for External/Internal Toolholders

		* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces. ** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.
P62	P61	

DCMT Carbide Turning Inserts - CVD, PVD Coated



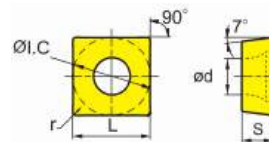
Positive Angle

Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT41	Order Code TFCT42		L	D.I.C	s	d	r	
	-07202A	-07202J	-07202T	DCMT070202-HF	7.8	6.35	2.38	2.8	0.2	Finishing
	-07204A	-07204J	-07204T	DCMT070204-HF	7.8	6.35	2.38	2.8	0.4	Finishing
	-07302A	-07302J	-07302T	DCMT11T302-HF	11.6	9.525	3.97	4.4	0.2	Finishing
	-07304A	-07304J	-07304T	DCMT11T304-HF	11.6	9.525	3.97	4.4	0.4	Finishing
	-07308A	-07308J	-07308T	DCMT11T308-HF	11.6	9.525	3.97	4.4	0.8	Finishing
	-07204B	-07204K	-07204V	DCMT070204-HM	7.8	6.35	2.38	2.8	0.4	Semi finishing
	-07208B	-07208K	-07208V	DCMT070208-HM	7.8	6.35	2.38	2.8	0.8	Semi finishing
	-07304B	-07304K	-07304V	DCMT11T304-HM	11.6	9.525	3.97	4.4	0.4	Semi finishing
	-07308B	-07308K	-07308V	DCMT11T308-HM	11.6	9.525	3.97	4.4	0.8	Semi finishing
	-07312B	-07312K	-07312V	DCMT11T312-HM	11.6	9.525	3.97	4.4	1.2	Semi finishing
	-07204C	-07204L	-07204U	DCMT070204-HR	7.8	6.35	2.38	2.8	0.4	Roughing
	-07208C	-07208L	-07208U	DCMT070208-HR	7.8	6.35	2.38	2.8	0.8	Roughing
	-07308C	-07308L	-07308U	DCMT11T308-HR	11.6	9.525	3.97	4.4	0.8	Roughing
	-07312C	-07312L	-07312U	DCMT11T312-HR	11.6	9.525	3.97	4.4	1.2	Roughing

Suitable for External/Internal Toolholders

						* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces. ** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.
			P63	P63	P62	

SCMT Carbide Turning Inserts - CVD, PVD Coated



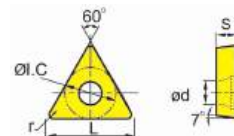
Positive Angle

Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT41	Order Code TFCT4 2		L	D I.C	s	d	r	
	-08302A	-08302J	-08302T	SCMT09T302-HF	9.7	9.525	3.97	4.4	0.2	Finishing
	-08304A	-08304J	-08304T	SCMT09T304-HF	9.7	9.525	3.97	4.4	0.4	Finishing
	-08404A	-08404J	-08404T	SCMT120404-HF	12.9	12.7	4.76	5.56	0.4	Finishing
	-08304B	-08304K	-08304V	SCMT09T304-HM	9.7	9.525	3.97	4.4	0.4	Semi finishing
	-08308B	-08308K	-08308V	SCMT09T308-HM	9.7	9.525	3.97	4.4	0.8	Semi finishing
	-08404B	-08404K	-08404V	SCMT120404-HM	12.9	12.7	4.76	5.56	0.4	Semi finishing
	-08408B	-08408K	-08408V	SCMT120408-HM	12.9	12.7	4.76	5.56	0.8	Semi finishing
	-08308C	-08308L	-08308U	SCMT09T308-HR	9.7	9.525	3.97	4.4	0.8	Roughing
	-08312C	-08312L	-08312U	SCMT09T312-HR	9.7	9.525	3.97	4.4	1.2	Roughing
	-08408C	-08408L	-08408U	SCMT120408-HR	12.9	12.7	4.76	5.56	0.8	Roughing
	-08412C	-08412L	-08412U	SCMT120412-HR	12.9	12.7	4.76	5.56	1.2	Roughing

Suitable for External/Internal Toolholders

			<p>* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.</p> <p>** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.</p>
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TCMT Carbide Turning Inserts - CVD, PVD Coated



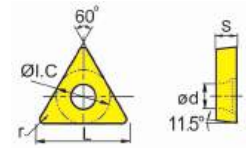
Positive Angle

Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT41	Order Code TFCT42		L	D I.C	s	d	r	
	-09202A	-09202J	-09202T	TCMT090202-HF	9.6	5.56	2.38	2.5	0.2	Finishing
	-09204A	-09204J	-09204T	TCMT090204-HF	9.6	5.56	2.38	2.5	0.4	Finishing
	-09203A	-09203J	-09203T	TCMT110202-HF	11	6.35	2.38	2.8	0.2	Finishing
	-09205A	-09205J	-09205T	TCMT110204-HF	11	6.35	2.38	2.8	0.4	Finishing
	-09302A	-09302J	-09302T	TCMT16T302-HF	16.5	9.525	3.97	4.4	0.2	Finishing
	-09304A	-09304J	-09304T	TCMT16T304-HF	16.5	9.525	3.97	4.4	0.4	Finishing
	-09204B	-09204K	-09204V	TCMT090204-HM	9.6	5.56	2.38	2.5	0.4	Semi finishing
	-09208B	-09208K	-09208V	TCMT090208-HM	9.6	5.56	2.38	2.5	0.8	Semi finishing
	-09205B	-09205K	-09205V	TCMT110204-HM	11	6.35	2.38	2.8	0.4	Semi finishing
	-09209B	-09209K	-09209V	TCMT110208-HM	11	6.35	2.38	2.8	0.8	Semi finishing
	-09304B	-09304K	-09304V	TCMT16T304-HM	16.5	9.525	3.97	4.4	0.4	Semi finishing
	-09308B	-09308K	-09308V	TCMT16T308-HM	16.5	9.525	3.97	4.4	0.8	Semi finishing
	-09312B	-09312K	-09312V	TCMT16T312-HM	16.5	9.525	3.97	4.4	1.2	Semi finishing
	-09208C	-09208L	-09208U	TCMT090208-HR	9.6	5.56	2.38	2.5	0.8	Roughing
	-09209C	-09209L	-09209U	TCMT110208-HR	11	6.35	2.38	2.8	0.8	Roughing
	-09212C	-09212L	-09212U	TCMT110212-HR	11	6.35	2.38	2.8	1.2	Roughing
	-09308C	-09308L	-09308U	TCMT16T308-HR	16.5	9.525	3.97	4.4	0.8	Roughing
	-09312C	-09312L	-09312U	TCMT16T312-HR	16.5	9.525	3.97	4.4	1.2	Roughing

Suitable for External/Internal Toolholders

		<p>* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.</p> <p>** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.</p>
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TPGT/TPGW Carbide Turning Inserts - CVD, PVD Coated



Positive Angle

Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT41	Order Code TFCT42		L	D I.C	s	d	r	
	-10204A	-10204J	-10204T	TPGT090204-HF	9.6	5.56	2.38	2.5	0.4	Finishing
	-10208A	-10208J	-10208T	TPGT090208-HF	9.6	5.56	2.38	2.5	0.8	Finishing
	-10202A	-10202J	-10202T	TPGT110202-HF	11	6.35	2.38	2.8	0.2	Finishing
	-10205A	-10205J	-10205T	TPGT110204-HF	11	6.35	2.38	2.8	0.4	Finishing
	-10209A	-10209J	-10209T	TPGT110208-HF	11	6.35	2.38	2.8	0.8	Finishing
	-10208B	-10208K	-10208V	TPGT090208-HM	9.6	5.56	2.38	2.5	0.8	Semi finishing
	-10202B	-10202K	-10202V	TPGT110202-HM	11	6.35	2.38	2.8	0.2	Semi finishing
	-10204B	-10204K	-10204V	TPGT110204-HM	11	6.35	2.38	2.8	0.4	Semi finishing
	-10209B	-10209K	-10209V	TPGT110208-HM	11	6.35	2.38	2.8	0.8	Semi finishing
	-10204C	-10204L	-10204U	TPGW090204	9.6	5.56	2.38	2.5	0.4	Roughing
	-10208C	-10208L	-10208U	TPGW090208	9.6	5.56	2.38	2.5	0.8	Roughing
	-10304C	-10304L	-10304U	TPGW110304	11	6.35	3.18	2.8	0.4	Roughing
	-10308C	-10308L	-10308U	TPGW110308	11	6.35	3.18	2.8	0.8	Roughing
	-10309C	-10309L	-10309U	TPGW160308	16.5	9.525	3.97	4.4	0.8	Roughing
	-10312C	-10312L	-10312U	TPGW16T312	16.5	9.525	3.97	4.4	1.2	Roughing
	-10408C	-10408L	-10408U	TPGW220408	22	12.7	4.76	5.5	0.8	Roughing

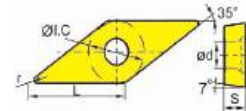
Suitable for External/Internal Toolholders

STUPR/L



* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.
 ** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.

CNC VCMT Carbide Turning Inserts - CVD, PVD Coated



Positive Angle

Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT41	Order Code TFCT42		L	D I.C	s	d	r	
	-11302A	-11302J	-11302T	VCMT110302-HF	11	6.35	3.18	2.8	0.2	Finishing
	-11304A	-11304J	-11304T	VCMT110304-HM	11	6.35	3.18	2.8	0.4	Finishing
	-11308A	-11308J	-11308T	VCMT110308-HM	11	6.35	3.18	2.8	0.4	Finishing
	-11404A	-11404J	-11404T	VCMT160404-HM	16	9.525	4.76	4.4	0.4	Finishing
	-11408A	-11408J	-11408T	VCMT160408-HM	16	9.525	4.76	4.4	0.8	Finishing
	-11412A	-11412J	-11412T	VCMT160412-HM	16	9.525	4.76	4.4	1.2	Finishing
	-11404B	-11404K	-11404V	VCMT160404	16	9.525	4.76	4.4	0.4	Semi finishing
	-11408B	-11408K	-11408V	VCMT160408	16	9.525	4.76	4.4	0.8	Semi finishing

Suitable for External/Internal Toolholders

SVUCR/L

SVQCR/L

SVJCR/L

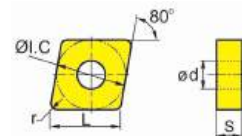
SVVCN


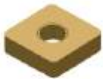






* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.
 ** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.

CNMG/CNMA/CNMM Carbide Turning Inserts - CVD, PVD Coated

Negative Angle



Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT41	Order Code TFCT42		L	D.I.C	s	d	r	
	-12404A	-12404J	-12404T	CNMG120404	12.9	12.7	4.76	5.16	0.4	Semi finishing
	-12408A	-12408J	-12408T	CNMG120408	12.9	12.7	4.76	5.16	0.8	Roughing
	-12412A	-12412J	-12412T	CNMG120412	12.9	12.7	4.76	5.16	1.2	Roughing
	-12608A	-12608J	-12608T	CNMG160608	12.9	12.7	4.76	5.16	0.8	Semi finishing
	-12612A	-12612J	-12612T	CNMG160612	12.9	12.7	4.76	5.16	1.2	Semi finishing
	-12616A	-12616J	-12616T	CNMG160616	12.9	12.7	4.76	5.16	1.6	Roughing
	-12609A	-12609J	-12609T	CNMG190608	12.9	12.7	4.76	5.16	0.8	Semi finishing
	-12613A	-12613J	-12613T	CNMG190612	12.9	12.7	4.76	5.16	1.2	Semi finishing
-12617A	-12617J	-12617T	CNMG190616	12.9	12.7	4.76	5.16	1.6	Roughing	
	-12404B	-12404K	-12404V	CNMA120404	12.9	12.7	4.76	5.16	0.4	Semi finishing
	-12408B	-12408K	-12408V	CNMA120408	12.9	12.7	4.76	5.16	0.8	Semi finishing
	-12412B	-12412K	-12412V	CNMA120412	12.9	12.7	4.76	5.16	1.2	Roughing
	-12416B	-12416K	-12416V	CNMA120416	12.9	12.7	4.76	5.16	1.6	Roughing
	-12608B	-12608K	-12608V	CNMA160608	12.9	12.7	4.76	5.16	0.8	Semi finishing
	-12612B	-12612K	-12612V	CNMA160612	12.9	12.7	4.76	5.16	1.2	Semi finishing
	-12616B	-12616K	-12616V	CNMA160616	12.9	12.7	4.76	5.16	1.6	Roughing
	-12609B	-12609K	-12609V	CNMA190608	12.9	12.7	4.76	5.16	0.8	Semi finishing
-12613B	-12613K	-12613V	CNMA190612	12.9	12.7	4.76	5.16	1.2	Semi finishing	
-12617B	-12617K	-12617V	CNMA190616	12.9	12.7	4.76	5.16	1.6	Roughing	
	-12412C	-12412L	-12412U	CNMM120412-GR	12.9	12.7	4.76	5.16	1.2	Roughing
	-12612C	-12612L	-12612U	CNMM160612-GR	12.9	12.7	4.76	5.16	1.2	Roughing
	-12616C	-12616L	-12616U	CNMM160616-GR	12.9	12.7	4.76	5.16	1.6	Roughing
	-12613C	-12613L	-12613U	CNMM190612-GR	12.9	12.7	4.76	5.16	1.2	Roughing
	-12617C	-12617L	-12617U	CNMM190616-GR	12.9	12.7	4.76	5.16	1.6	Roughing
	-12624C	-12624L	-12624U	CNMM190624-GR	12.9	12.7	4.76	5.16	2.4	Roughing
-12625C	-12625L	-12625U	CNMM250924-GR	25.79	25.4	9.525	9.12	2.4	Roughing	
	-13404A	-13404J	-13404T	CNMG112404-BF	12.9	12.7	4.76	5.16	0.4	Finishing
	-13408A	-13408J	-13408T	CNMG112408-BF	12.9	12.7	4.76	5.16	0.8	Finishing
	-13405A	-13405J	-13405T	CNMG112404-GF	12.9	12.7	4.76	5.16	0.4	Finishing
	-13409A	-13409J	-13409T	CNMG112408-GF	12.9	12.7	4.76	5.16	0.8	Finishing
	-13404B	-13404K	-13404V	CNMG112404-GM	12.9	12.7	4.76	5.16	0.4	Semi finishing
	-13408B	-13408K	-13408V	CNMG112408-GM	12.9	12.7	4.76	5.16	0.8	Semi finishing
	-13412B	-13412K	-13412V	CNMG112412-GM	12.9	12.7	4.76	5.16	1.2	Semi finishing
	-13608B	-13608K	-13608V	CNMG160608-GM	12.9	12.7	4.76	5.16	0.8	Semi finishing
	-13612B	-13612K	-13612V	CNMG160612-GM	12.9	12.7	4.76	5.16	1.2	Semi finishing
	-13616B	-13616K	-13616V	CNMG160616-GM	12.9	12.7	4.76	5.16	1.6	Semi finishing
	-13609B	-13609K	-13609V	CNMG190608-GM	12.9	12.7	4.76	5.16	0.8	Semi finishing
	-13613B	-13613K	-13613V	CNMG190612-GM	12.9	12.7	4.76	5.16	1.2	Semi finishing
-13617B	-13617K	-13617V	CNMG190616-GM	12.9	12.7	4.76	5.16	1.6	Semi finishing	
	-13404C	-13404L	-13404U	CNMG112404-GS	12.9	12.7	4.76	5.16	0.4	Roughing
	-13408C	-13408L	-13408U	CNMG112408-GS	12.9	12.7	4.76	5.16	0.8	Roughing
	-13409C	-13409L	-13409U	CNMG112408-GR	12.9	12.7	4.76	5.16	0.8	Roughing
	-13612C	-13612L	-13612U	CNMG160612-GR	12.9	12.7	4.76	5.16	1.2	Roughing
	-13616C	-13616L	-13616U	CNMG160616-GR	12.9	12.7	4.76	5.16	1.6	Roughing
	-13613C	-13613L	-13613U	CNMG190612-GR	12.9	12.7	4.76	5.16	1.2	Roughing
	-13617C	-13617L	-13617U	CNMG190616-GR	12.9	12.7	4.76	5.16	1.6	Roughing

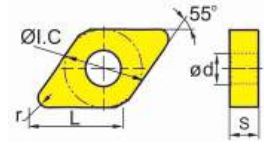
Suitable for External/Internal Toolholders



* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.

DNMG/DNMA Carbide Turning Inserts
- CVD, PVD Coated



Negative Angle

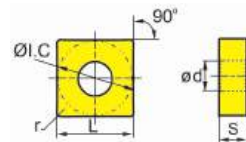
Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT41	Order Code TFCT42		L	D I.C	s	d	r	
	-14604A	-14604J	-14604T	DNMG150604	15.5	12.7	6.35	5.16	0.4	Semi finishing
	-14608A	-14608J	-14608T	DNMG150608	15.5	12.7	6.35	5.16	0.8	Semi finishing
	-14612A	-14612J	-14612T	DNMG150612	15.5	12.7	6.35	5.16	1.2	Roughing
	-14609A	-14609J	-14609T	DNMG190608	19.3	15.875	6.35	7.94	0.8	Semi finishing
	-14613A	-14613J	-14613T	DNMG190612	19.3	15.875	6.35	7.94	1.2	Roughing
	-14416B	-14416K	-14416V	DNMA110416	11.6	9.525	4.76	3.81	1.6	Roughing
	-14424B	-14424K	-14424V	DNMA110424	11.6	9.525	4.76	3.81	2.4	Roughing
	-14404B	-14404K	-14404V	DNMA150404	15.5	12.7	6.35	5.16	0.4	Semi finishing
	-14408B	-14408K	-14408V	DNMA150408	15.5	12.7	6.35	5.16	0.8	Semi finishing
	-14604B	-14604K	-14604V	DNMA150604	15.5	12.7	6.35	5.16	0.4	Semi finishing
	-14608B	-14608K	-14608V	DNMA150608	15.5	12.7	6.35	5.16	0.8	Semi finishing
	-14612B	-14612K	-14612V	DNMA150612	15.5	12.7	6.35	5.16	1.2	Roughing
	-15404A	-15404J	-15404T	DNMG110404-BF	11.6	9.525	4.76	3.81	0.4	Finishing
	-15408A	-15408J	-15408T	DNMG110408-BF	11.6	9.525	4.76	3.81	0.8	Finishing
	-15404B	-15404K	-15404V	DNMG110404-GM	11.6	9.525	4.76	3.81	0.4	Semi finishing
	-15408B	-15408K	-15408V	DNMG110408-GM	11.6	9.525	4.76	3.81	0.8	Semi finishing
	-15412B	-15412K	-15412V	DNMG110412-GM	11.6	9.525	4.76	3.81	1.2	Semi finishing
	-15405B	-15405K	-15405V	DNMG150404-GM	15.5	12.7	6.35	5.16	0.4	Semi finishing
	-15409B	-15409K	-15409V	DNMG150408-GM	15.5	12.7	6.35	5.16	0.8	Semi finishing
	-15413B	-15413K	-15413V	DNMG150412-GM	15.5	12.7	6.35	5.16	1.2	Semi finishing
	-15408C	-15408L	-15408U	DNMG150408-GR	15.5	12.7	6.35	5.16	0.8	Roughing
	-15412C	-15412L	-15412U	DNMG150412-GR	15.5	12.7	6.35	5.16	1.2	Roughing
	-15416C	-15416L	-15416U	DNMG150416-GR	15.5	12.7	6.35	5.16	1.6	Roughing
	-15608C	-15608L	-15608U	DNMG150608-GR	15.5	12.7	6.35	5.16	0.8	Roughing
	-15612C	-15612L	-15612U	DNMG150612-GR	15.5	12.7	6.35	5.16	1.2	Roughing
	-15616C	-15616L	-15616U	DNMG150616-GR	15.5	12.7	6.35	5.16	1.6	Roughing

* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.

Suitable for External/Internal Toolholders



SNMG/SNMA/SNMM Carbide Turning Inserts
- CVD, PVD Coated

Negative Angle

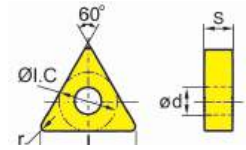
Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT41	Order Code TFCT42		L	D.I.C	s	d	r	
	-16304A	-16304J	-16304T	SNMG090304	9.525	8.525	3.18	3.81	0.4	Semi finishing
	-16308A	-16308J	-16308T	SNMG090308	9.525	8.525	3.18	3.81	0.8	Semi finishing
	-16404A	-16404J	-16404T	SNMG120404	12.7	12.7	4.76	5.16	0.4	Semi finishing
	-16408A	-16408J	-16408T	SNMG120408	12.7	12.7	4.76	5.16	0.8	Roughing
	-16412A	-16412J	-16412T	SNMG120412	12.7	12.7	4.76	5.16	1.2	Roughing
	-16416A	-16416J	-16416T	SNMG120416	12.7	12.7	4.76	5.16	1.6	Roughing
	-16608A	-16608J	-16608T	SNMG150608	15.875	15.875	6.35	6.35	0.8	Semi finishing
	-16612A	-16612J	-16612T	SNMG150612	15.875	15.875	6.35	6.35	1.2	Roughing
	-16613A	-16613J	-16613T	SNMG190612	19.05	19.05	6.35	7.94	1.2	Roughing
	-16616A	-16616J	-16616T	SNMG190616	19.05	19.05	6.35	7.94	1.6	Roughing
	-16724A	-16724J	-16724T	SNMG250724	25.4	25.4	7.94	9.12	2.4	Roughing
	-16924A	-16924J	-16924T	SNMG250924	25.4	25.4	9.53	9.12	2.4	Roughing
	-16304B	-16304K	-16304V	SNMA090304	9.525	8.525	3.18	3.81	0.4	Semi finishing
	-16308B	-16308K	-16308V	SNMA090308	9.525	8.525	3.18	3.81	0.8	Roughing
	-16404B	-16404K	-16404V	SNMA120404	12.7	12.7	4.76	5.16	0.4	Semi finishing
	-16408B	-16408K	-16408V	SNMA120408	12.7	12.7	4.76	5.16	0.8	Roughing
	-16412B	-16412K	-16412V	SNMA120412	12.7	12.7	4.76	5.16	1.2	Roughing
	-16608B	-16608K	-16608V	SNMA150608	15.875	15.875	6.35	6.35	0.8	Roughing
	-16612B	-16612K	-16612V	SNMA190612	19.05	19.05	6.35	7.94	1.2	Roughing
	-16616B	-16616K	-16616V	SNMA190616	19.05	19.05	6.35	7.94	1.6	Roughing
	-16408C	-16408L	-16408U	SNMM120408-GR	12.7	12.7	4.76	5.16	0.8	Roughing
	-16412C	-16412L	-16412U	SNMM120412-GR	12.7	12.7	4.76	5.16	1.2	Roughing
	-16416C	-16416L	-16416U	SNMM120416-GR	12.7	12.7	4.76	5.16	1.6	Roughing
	-16608C	-16608L	-16608U	SNMM150608-GR	15.875	15.875	6.35	6.35	0.8	Roughing
	-16612C	-16612L	-16612U	SNMM150612-GR	15.875	15.875	6.35	6.35	1.2	Roughing
	-16616C	-16616L	-16616U	SNMM150616-GR	15.875	15.875	6.35	6.35	1.6	Roughing
	-16624C	-16624L	-16624U	SNMM150624-GR	15.875	15.875	6.35	6.35	2.4	Roughing
	-16613C	-16613L	-16613U	SNMM190612-GR	19.05	19.05	6.35	7.94	1.2	Roughing
	-16617C	-16617L	-16617U	SNMM190616-GR	19.05	19.05	6.35	7.94	1.6	Roughing
	-16625C	-16625L	-16625U	SNMM190624-GR	19.05	19.05	6.35	7.94	2.4	Roughing
	-16724C	-16724L	-16724U	SNMM250724-GR	25.4	25.4	7.94	9.12	2.4	Roughing
	-16924C	-16924L	-16924U	SNMM250924-GR	25.4	25.4	9.53	9.12	2.4	Roughing
	-17304A	-17304J	-17304T	SNMG090304-GM	9.525	8.525	3.18	3.81	0.4	Semi finishing
	-17308A	-17308J	-17308T	SNMG090308-GM	9.525	8.525	3.18	3.81	0.8	Semi finishing
	-17404A	-17404J	-17404T	SNMG120404-GM	12.7	12.7	4.76	5.16	0.4	Semi finishing
	-17408A	-17408J	-17408T	SNMG120408-GM	12.7	12.7	4.76	5.16	0.8	Semi finishing
	-17412A	-17412J	-17412T	SNMG120412-GM	12.7	12.7	4.76	5.16	1.2	Semi finishing
	-17416A	-17416J	-17416T	SNMG120416-GM	12.7	12.7	4.76	5.16	1.6	Semi finishing
	-17608A	-17608J	-17608T	SNMG150608-GM	15.875	15.875	6.35	6.35	0.8	Semi finishing
	-17612A	-17612J	-17612T	SNMG150612-GM	15.875	15.875	6.35	6.35	1.2	Semi finishing
	-17613A	-17613J	-17613T	SNMG190612-GM	19.05	19.05	6.35	7.94	1.2	Semi finishing
	-17616A	-17616J	-17616T	SNMG190616-GM	19.05	19.05	6.35	7.94	1.6	Semi finishing
	-17408B	-17408K	-17408V	SNMG120408-GR	12.7	12.7	4.76	5.16	0.8	Roughing
	-17412B	-17412K	-17412V	SNMG120412-GR	12.7	12.7	4.76	5.16	1.2	Roughing
	-17416B	-17416K	-17416V	SNMG120416-GR	12.7	12.7	4.76	5.16	1.6	Roughing
	-17608B	-17608K	-17608V	SNMG150608-GR	15.875	15.875	6.35	6.35	0.8	Roughing
	-17612B	-17612K	-17612V	SNMG150612-GR	15.875	15.875	6.35	6.35	1.2	Roughing
	-17616B	-17616K	-17616V	SNMG150616-GR	15.875	15.875	6.35	6.35	1.6	Roughing
	-17624B	-17624K	-17624V	SNMG150624-GR	15.875	15.875	6.35	6.35	2.4	Roughing
	-17613B	-17613K	-17613V	SNMG190612-GR	19.05	19.05	6.35	7.94	1.2	Roughing
	-17617B	-17617K	-17617V	SNMG190616-GR	19.05	19.05	6.35	7.94	1.6	Roughing
	-17625B	-17625K	-17625V	SNMG190624-GR	19.05	19.05	6.35	7.94	2.4	Roughing

Suitable for External/Internal Toolholders


* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.

TNMG/TNMA/TNMM Carbide Turning Inserts
- CVD, PVD Coated



Negative Angle

Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT4 1	Order Code TFCT42		L	D.I.C	s	d	r	
	-18404A	-18404J	-18404T	TNMG160404	16.5	9.525	4.76	3.81	0.4	Semi finishing
	-18408A	-18408J	-18408T	TNMG160408	16.5	9.525	4.76	3.81	0.8	Semi finishing
	-18412A	-18412J	-18412T	TNMG160412	16.5	9.525	4.76	3.81	1.2	Roughing
	-18409A	-18409J	-18409T	TNMG220408	22	12.7	4.76	5.16	0.8	Roughing
	-18413A	-18413J	-18413T	TNMG220412	22	12.7	4.76	5.16	1.2	Roughing
	-18404B	-18404K	-18404V	TNMA160404	16.5	9.525	4.76	3.81	0.4	Semi finishing
	-18408B	-18408K	-18408V	TNMA160408	16.5	9.525	4.76	3.81	0.8	Semi finishing
	-18412B	-18412K	-18412V	TNMA160412	16.5	9.525	4.76	3.81	1.2	Roughing
	-18409B	-18409K	-18409V	TNMA220408	22	12.7	4.76	5.16	0.8	Roughing
	-18413B	-18413K	-18413V	TNMA220412	22	12.7	4.76	5.16	1.2	Roughing
	-19404A	-19404J	-19404T	TNMG160404-GF	16.5	9.525	4.76	3.81	0.4	Finishing
	-19408A	-19408J	-19408T	TNMG160408-GF	16.5	9.525	4.76	3.81	0.8	Finishing
	-19404B	-19404K	-19404V	TNMG160404-GS	16.5	9.525	4.76	3.81	0.4	Semi finishing
	-19408B	-19408K	-19408V	TNMG160408-GS	16.5	9.525	4.76	3.81	0.8	Semi finishing
	-19405B	-19405K	-19405V	TNMG160404-GM	16.5	9.525	4.76	3.81	0.4	Semi finishing
	-19409B	-19409K	-19409V	TNMG160408-GM	16.5	9.525	4.76	3.81	0.8	Semi finishing
	-19412B	-19412K	-19412V	TNMG160412-GM	16.5	9.525	4.76	3.81	1.2	Roughing
	-19410B	-19410K	-19410V	TNMG220408-GM	22	12.7	4.76	5.16	0.8	Semi finishing
	-19413B	-19413K	-19413V	TNMG220412-GM	22	12.7	4.76	5.16	1.2	Roughing
	-19408C	-19408L	-19408U	TNMG160408-GR	16.5	9.525	4.76	3.81	0.8	Roughing
	-19412C	-19412L	-19412U	TNMG160412-GR	16.5	9.525	4.76	3.81	1.2	Roughing
	-19409C	-19409L	-19409U	TNMG220408-GR	22	12.7	4.76	5.16	0.8	Roughing
	-19413C	-19413L	-19413U	TNMG220412-GR	22	12.7	4.76	5.16	1.2	Roughing
	-19608C	-19608L	-19608U	TNMG270608-GR	27.515	15.875	6.35	6.35	0.8	Roughing
	-19612C	-19612L	-19612U	TNMG270612-GR	27.515	15.875	6.35	6.35	1.2	Roughing
	-19616C	-19616L	-19616U	TNMG270616-GR	27.515	15.875	6.35	6.35	1.6	Roughing
	-19408D	-19408M	-19408W	TNMM160408-GR	16.5	9.525	4.76	3.81	0.8	Roughing
	-19412D	-19412M	-19412W	TNMM160412-GR	16.5	9.525	4.76	3.81	1.2	Roughing
	-19409D	-19409M	-19409W	TNMM220408-GR	22	12.7	4.76	5.16	0.8	Roughing
	-19413D	-19413M	-19413W	TNMM220412-GR	22	12.7	4.76	5.16	1.2	Roughing
	-19608D	-19608M	-19608W	TNMM270608-GR	27.515	15.875	6.35	6.35	0.8	Roughing
	-19612D	-19612M	-19612W	TNMM270612-GR	27.515	15.875	6.35	6.35	1.2	Roughing
	-19616D	-19616M	-19616W	TNMM270616-GR	27.515	15.875	6.35	6.35	1.6	Roughing

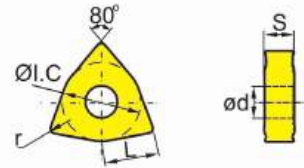
* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.

Suitable for External/Internal Toolholders



WNMG Carbide Turning Inserts - CVD, PVD Coated



Negative Angle

Shape*	For Steel	For S/Steel	For Cast Iron	Specifications**	Size					Application
	Order Code TFCT40	Order Code TFCT4 1	Order Code TFCT42		L	D I.C	s	d	r	
	-21404A	-21404J	-21404T	WNMG060404	6.5	9.525	4.76	3.81	0.4	Semi finishing
	-21408A	-21408J	-21408T	WNMG060408	6.5	9.525	4.76	3.81	0.8	Roughing
	-21405A	-21405J	-21405T	WNMG080404	8.7	12.7	4.76	5.16	0.4	Semi finishing
	-21409A	-21409J	-21409T	WNMG080408	8.7	12.7	4.76	5.16	0.8	Roughing
	-21412A	-21412J	-21412T	WNMG080412	8.7	12.7	4.76	5.16	1.2	Roughing
	-21404B	-21404K	-21404U	WNMA060404	6.5	9.525	4.76	3.81	0.4	Semi finishing
	-21408B	-21408K	-21408U	WNMA060408	6.5	9.525	4.76	3.81	0.8	Roughing
	-21412B	-21412K	-21412U	WNMA060412	6.5	9.525	4.76	3.81	1.2	Roughing
	-21405B	-21405K	-21405U	WNMA080404	8.7	12.7	4.76	5.16	0.4	Semi finishing
	-21409B	-21409K	-21409U	WNMA080408	8.7	12.7	4.76	5.16	0.8	Roughing
	-21413B	-21413K	-21413U	WNMA080412	8.7	12.7	4.76	5.16	1.2	Roughing
	-21416B	-21416K	-21416U	WNMA080416	8.7	12.7	4.76	5.16	1.6	Roughing
	-22404A	-22404J	-22404T	WNMG060404-GM	6.5	9.525	4.76	3.81	0.4	Semi finishing
	-22408A	-22408J	-22408T	WNMG060408-GM	6.5	9.525	4.76	3.81	0.8	Semi finishing
	-22405A	-22405J	-22405T	WNMG080404-GM	8.7	12.7	4.76	5.16	0.4	Semi finishing
	-22409A	-22409J	-22409T	WNMG080408-GM	8.7	12.7	4.76	5.16	0.8	Semi finishing
	-22412A	-22412J	-22412T	WNMG080412-GM	8.7	12.7	4.76	5.16	1.2	Roughing
	-22404B	-22404K	-22404V	WNMG060404-GS	6.5	9.525	4.76	3.81	0.4	Semi finishing
	-22408B	-22408K	-22408V	WNMG060408-GS	6.5	9.525	4.76	3.81	0.8	Semi finishing
	-22405B	-22405K	-22405V	WNMG080404-GS	8.7	12.7	4.76	5.16	0.4	Semi finishing
	-22409B	-22409K	-22409V	WNMG080408-GS	8.7	12.7	4.76	5.16	0.8	Semi finishing
	-22412B	-22412K	-22412V	WNMG080412-GS	8.7	12.7	4.76	5.16	1.2	Roughing
	-22408C	-22408L	-22408U	WNMG060408-GR	6.5	9.525	4.76	3.81	0.8	Roughing
	-22412C	-22412L	-22412U	WNMG060412-GR	6.5	9.525	4.76	3.81	1.2	Roughing
	-22409C	-22409L	-22409U	WNMG080408-GR	8.7	12.7	4.76	5.16	0.8	Roughing
	-22413C	-22413L	-22413U	WNMG080412-GR	8.7	12.7	4.76	5.16	1.2	Roughing
	-22416C	-22416L	-22416U	WNMG080416-GR	8.7	12.7	4.76	5.16	1.6	Roughing

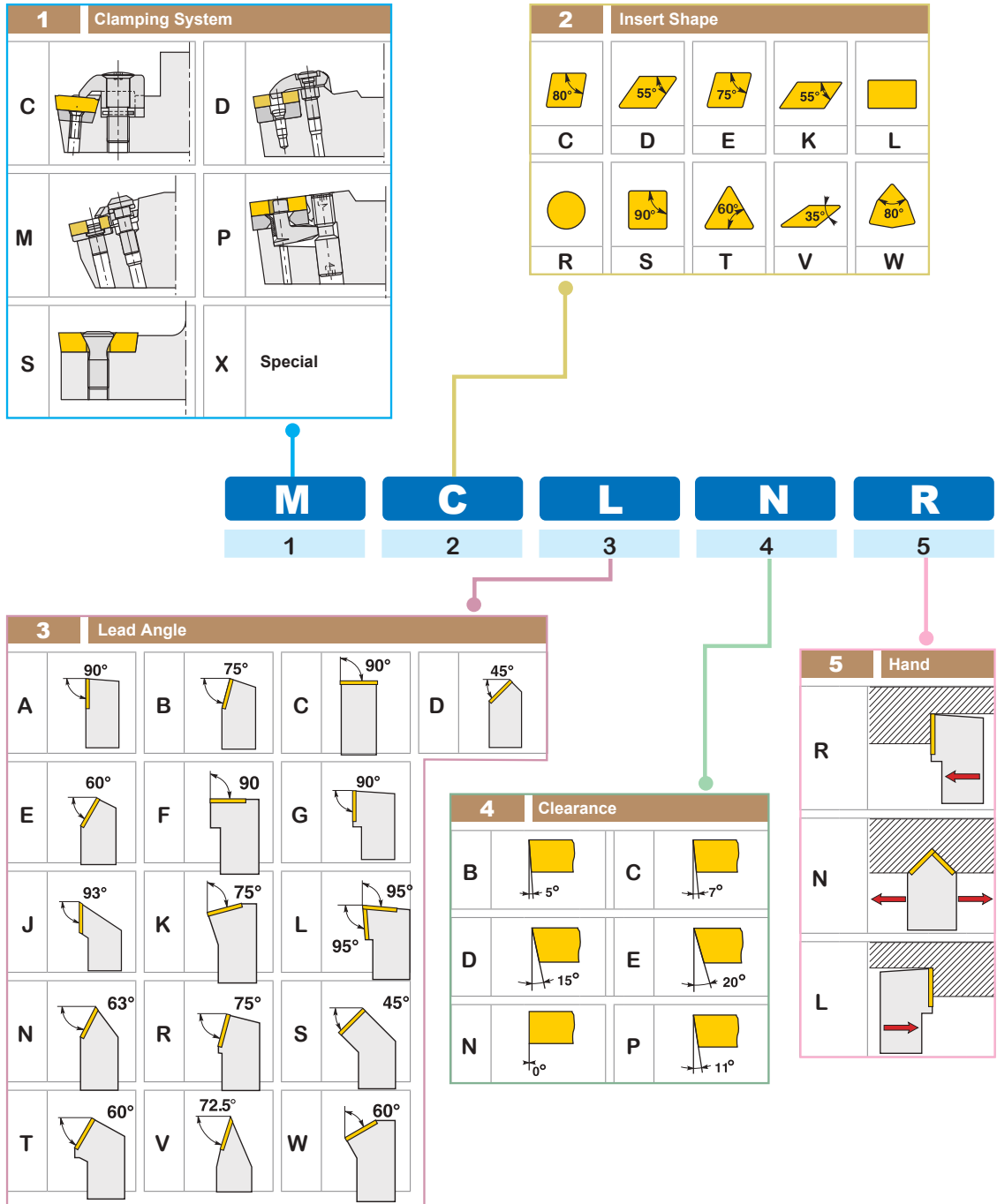
* The "Shape" column mainly displays the geometric shape of the inserts and the specific coating is selected based on the factors such as the materials of the workpieces.

** The chip groove description in the "Designation" column is mainly for steel, for processing stainless steel or cast iron etc. may select the different chip grooves.

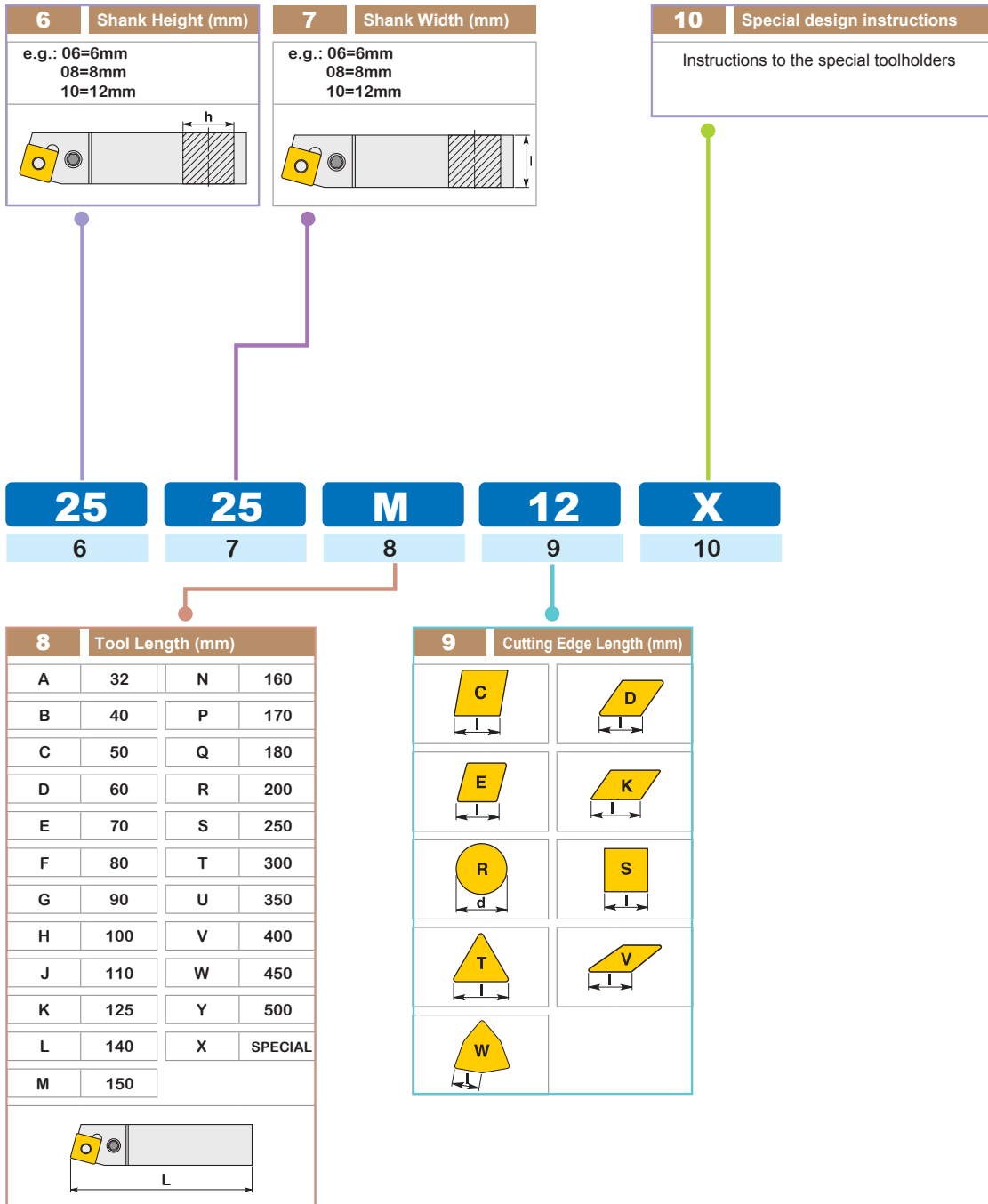
Suitable for External/Internal Toolholders



External Toolholders - ISO Designation



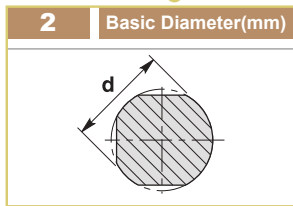
External Toolholders - ISO Designation



Internal Toolholders - ISO Designation

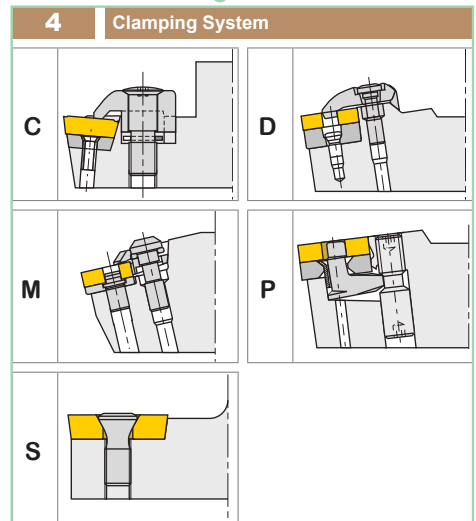
1	Bar Type
S	Solid Steel Bar
A	Solid Steel With Through Coolant
B	Solid Steel Anti-Vibration
D	Solid Steel Anti-Vibration With Through Coolant
C	Carbide Shank
E	Carbide Shank With Through Coolant
H	High Speed Steel Bar

5					Insert Shape
C	D	E	K	L	
R	S	T	V	W	



3 Bar Length(mm)

F	80	Q	180
G	90	R	200
H	100	S	250
J	110	T	300
K	125	U	350
L	140	V	400
M	150	W	450
N	160	Y	500
P	170	X	SPECIAL



Internal Toolholders - ISO Designation

7		Clearance	
B		C	
D		E	
N		P	

8		Hand	
R			
L			

10		Special design instructions	
Instructions to the special toolholders			

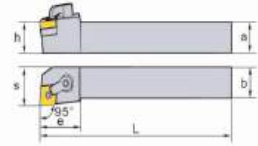


6		Lead Angle	
F		U	
K		W	
L		Y	
Q		X	SPECIAL
S			

9		Cutting Edge Length(mm)	
C		D	
E		K	
R		S	
T		V	
W			

External Toolholders

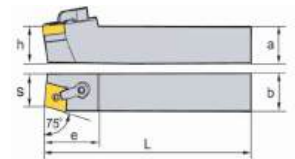
- M-style clamping toolholders for negative type C inserts
- Tool cutting edge angle: 95°



Order Code TFTH01	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201R	MCLNR2020K12	125	20	25	20	20	32	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25251R	MCLNR2525M12	150	25	32	25	25	32	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32321R	MCLNR3232P12	170	32	40	32	32	38	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25252R	MCLNR2525M16	150	25	32	25	25	38	CN □□ 1606 □□	MC1604	CTM822	HL2217	ML0830	L3.0,L4.0
-32322R	MCLNR3232P16	170	32	40	32	32	38	CN □□ 1606 □□	MC1604	CTM822	HL2217	ML0830	L3.0,L4.0
-32323R	MCLNR3232P19	170	32	40	32	32	45	CN □□ 1906 □□	MC1904	CTM1022	HL2217	ML0830	L4.0
-40401R	MCLNR4040R19	200	40	50	40	40	45	CN □□ 1906 □□	MC1904	CTM1022	HL2217	ML0830	L4.0
-20201L	MCLNL2020K12	125	20	25	20	20	32	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25251L	MCLNL2525M12	150	25	32	25	25	32	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32321L	MCLNL3232P12	170	32	40	32	32	38	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25252L	MCLNL2525M16	150	25	32	25	25	38	CN □□ 1606 □□	MC1604	CTM822	HL2217	ML0830	L3.0,L4.0
-32322L	MCLNL3232P16	170	32	40	32	32	38	CN □□ 1606 □□	MC1604	CTM822	HL2217	ML0830	L3.0,L4.0
-32323L	MCLNL3232P19	170	32	40	32	32	45	CN □□ 1906 □□	MC1904	CTM1022	HL2217	ML0830	L4.0
-40401L	MCLNL4040R19	200	40	50	40	40	45	CN □□ 1906 □□	MC1904	CTM1022	HL2217	ML0830	L4.0

External Toolholders

- M-style clamping toolholders for negative type C inserts
- Tool cutting edge angle: 75°



Order Code TFTH02	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201R	MCBNR2020K12	125	20	17	20	20	32	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25251R	MCBNR2525M12	150	25	22	20	25	32	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32321R	MCBNR3232P12	170	32	22	32	32	38	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25252R	MCBNR2525M16	150	25	22	25	25	40	CN □□ 1606 □□	MC1604	CTM822	HL2217	ML0830	L3.0,L4.0
-32322R	MCBNR3232P16	170	32	27	32	32	40	CN □□ 1606 □□	MC1604	CTM822	HL2217	ML0830	L3.0,L4.0
-32323R	MCBNR3232P19	170	32	27	32	32	45	CN □□ 1906 □□	MC1904	CTM1022	HL2217	ML0830	L4.0
-40401R	MCBNR4040R19	200	40	35	40	40	45	CN □□ 1906 □□	MC1904	CTM1022	HL2217	ML0830	L4.0
-20201L	MCBNL2020K12	125	20	17	20	20	32	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25251L	MCBNL2525M12	150	25	22	20	25	32	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32321L	MCBNL3232P12	170	32	22	32	32	38	CN □□ 1204 □□	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25252L	MCBNL2525M16	150	25	22	25	25	40	CN □□ 1606 □□	MC1604	CTM822	HL2217	ML0830	L3.0,L4.0
-32322L	MCBNL3232P16	170	32	27	32	32	40	CN □□ 1606 □□	MC1604	CTM822	HL2217	ML0830	L3.0,L4.0
-32323L	MCBNL3232P19	170	32	27	32	32	45	CN □□ 1906 □□	MC1904	CTM1022	HL2217	ML0830	L4.0
-40401L	MCBNL4040R19	200	40	35	40	40	45	CN □□ 1906 □□	MC1904	CTM1022	HL2217	ML0830	L4.0

External Toolholders

- M-style clamping toolholders for negative type D inerts
- Tool cutting edge angle: 93°



Order Code TFTH03	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201R	MDJNR2020K11	125	20	25	20	20	32	DN □ □ 1104 □ □	MD1103	CTM513	HL1814	HL0625	L2.0,L3.0
-25251R	MDJNR2525M11	150	25	32	25	25	32	DN □ □ 1104 □ □	MD1103	CTM513	HL1814	HL0625	L2.0,L3.0
-32321R	MDJNR3232P11	170	32	38	32	32	38	DN □ □ 1104 □ □	MD1103	CTM513	HL1814	HL0625	L2.0,L3.0
-20202R	MDJNR2020K15	125	20	25	20	20	38	DN □ □ 1504 □ □ DN □ □ 1506 □ □	MD1504/ MD1506	CTM619	HL2114	HL0625	L2.5,L3.0
-25252R	MDJNR2525M15	150	25	32	25	25	38	DN □ □ 1504 □ □ DN □ □ 1506 □ □	MD1504/ MD1506	CTM619	HL2114	HL0625	L2.5,L3.0
-32322R	MDJNR3232P15	170	32	38	32	32	38	DN □ □ 1504 □ □ DN □ □ 1506 □ □	MD1504/ MD1506	CTM619	HL2114	HL0625	L2.5,L3.0
-20201L	MDJNL2020K11	125	20	25	20	20	32	DN □ □ 1104 □ □	MD1103	CTM513	HL1814	HL0625	L2.0,L3.0
-25251L	MDJNL2525M11	150	25	32	25	25	32	DN □ □ 1104 □ □	MD1103	CTM513	HL1814	HL0625	L2.0,L3.0
-32321L	MDJNL3232P11	170	25	32	32	32	32	DN □ □ 1104 □ □	MD1103	CTM513	HL1814	HL0625	L2.0,L3.0
-20202L	MDJNL2020K15	125	20	25	20	20	38	DN □ □ 1504 □ □ DN □ □ 1506 □ □	MD1504/ MD1506	CTM619	HL2114	HL0625	L2.5,L3.0
-25252L	MDJNL2525M15	150	25	32	25	25	38	DN □ □ 1504 □ □ DN □ □ 1506 □ □	MD1504/ MD1506	CTM619	HL2114	HL0625	L2.5,L3.0
-32322L	MDJNL3232P15	170	32	38	32	32	38	DN □ □ 1504 □ □ DN □ □ 1506 □ □	MD1504/ MD1506	CTM619	HL2114	HL0625	L2.5,L3.0

External Toolholders

- M-style clamping toolholders for negative type D inerts
- Tool cutting edge angle: 62°30'



Order Code TFTH04	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201N	MDPNN2020K11	125	20	10	20	20	35	DN □ □ 1104 □ □	MD1103	CTM513	HL1814	HL0625	L2.0,L3.0
-25251N	MDPNN2525M11	150	25	12.5	25	25	35	DN □ □ 1104 □ □	MD1103	CTM513	HL1814	HL0625	L2.0,L3.0
-32321N	MDPNN3232P11	170	32	12.5	32	32	35	DN □ □ 1104 □ □	MD1103	CTM513	HL1814	HL0625	L2.0,L3.0
-20202N	MDPNN2020K15	125	20	10	20	20	40	DN □ □ 1504 □ □ DN □ □ 1506 □ □	MD1504 MD1506	CTM619	HL2114	HL0625	L2.5,L3.0
-25252N	MDPNN2525M15	150	25	12.5	25	25	40	DN □ □ 1504 □ □ DN □ □ 1506 □ □	MD1504 MD1506	CTM619	HL2114	HL0625	L2.5,L3.0
-32322N	MDPNN3232P15	170	32	12.5	32	32	40	DN □ □ 1504 □ □ DN □ □ 1506 □ □	MD1504 MD1506	CTM619	HL2114	HL0625	L2.5,L3.0

External Toolholders

- M-style clamping toolholders for negative type S inserts
- Tool cutting edge angle: 75°



Order Code TFTH05	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201R	MSBNR2020K12	125	20	17	20	20	32	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25251R	MSBNR2525M12	150	25	22	25	25	32	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32321R	MSBNR3232P12	170	32	22	32	32	38	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25252R	MSBNR2525M15	150	25	22	25	25	38	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-32322R	MSBNR3232P15	170	32	29	32	32	38	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-40321R	MSBNR4032R15	200	32	27	40	40	38	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-32323R	MSBNR3232P19	170	32	27	32	32	45	SN □ □ 1906 □ □	MS1904	CTM1022	HL2217	ML0830	L4.0
-40401R	MSBNR4040R19	200	40	35	40	40	45	SN □ □ 1906 □ □	MS1904	CTM1022	HL2217	ML0830	L4.0
-20201L	MSBNL2020K12	125	20	17	20	20	32	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25251L	MSBNL2525M12	150	25	22	25	25	32	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32321L	MSBNL3232P12	170	32	22	32	32	38	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25252L	MSBNL2525M15	150	25	22	25	25	38	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-32322L	MSBNL3232P15	170	32	29	32	32	38	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-40321L	MSBNL4032R15	200	32	27	40	40	38	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-32323L	MSBNL3232P19	170	32	27	32	32	45	SN □ □ 1906 □ □	MS1904	CTM1022	HL2217	ML0830	L4.0
-40401L	MSBNL4040R19	200	40	35	40	40	45	SN □ □ 1906 □ □	MS1904	CTM1022	HL2217	ML0830	L4.0

External Toolholders

- M-style clamping toolholders for negative type S inserts
- Tool cutting edge angle: 75°



Order Code TFTH06	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201N	MSDNN2020K12	125	20	10	20	20	35	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25251N	MSDNN2525M12	150	25	12.5	25	25	35	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32321N	MSDNN3232P12	170	32	12.5	32	32	38	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25252N	MSDNN2525M15	150	25	12.5	25	25	42	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-32322N	MSDNN3232P15	170	32	16	32	32	42	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-40401N	MSDNN4040R15	200	32	16	40	40	42	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0

External Toolholders

- M-style clamping toolholders for negative type S inserts
- Tool cutting edge angle: 75°



Order Code TFTH07	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201R	MSKNR2020K12	125	20	25	20	20	32	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25251R	MSKNR2525M12	150	25	32	25	25	32	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32321R	MSKNR3232P12	170	32	32	32	32	38	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25252R	MSKNR2525M15	150	25	32	25	25	28	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-32322R	MSKNR3232P15	170	32	40	32	32	38	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-40401R	MSKNR4040R15	200	32	40	40	40	38	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-32323R	MSKNR3232P19	170	32	40	32	32	45	SN □ □ 1906 □ □	MS1904	CTM1022	HL2217	ML0830	L4.0
-40402R	MSKNR4040R19	200	40	50	40	40	45	SN □ □ 1906 □ □	MS1904	CTM1022	HL2217	ML0830	L4.0
-20201L	MSKNL2020K12	125	20	25	20	20	32	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25251L	MSKNL2525M12	150	25	32	25	25	32	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32321L	MSKNL3232P12	170	32	32	32	32	38	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25252L	MSKNL2525M15	150	25	32	25	25	28	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-32322L	MSKNL3232P15	170	32	40	32	32	38	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-40401L	MSKNL4040R15	200	32	40	40	40	38	SN □ □ 1506 □ □	MS1504	CTM0822	HL2217	ML0830	L3.0,L4.0
-32323L	MSKNL3232P19	170	32	40	32	32	45	SN □ □ 1906 □ □	MS1904	CTM1022	HL2217	ML0830	L4.0
-40402L	MSKNL4040R19	200	40	50	40	40	45	SN □ □ 1906 □ □	MS1904	CTM1022	HL2217	ML0830	L4.0

External Toolholders

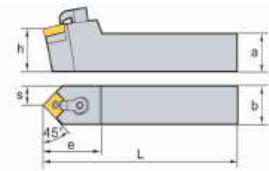
- M-style clamping toolholders for negative type T inserts
- Tool cutting edge angle: 90°



Order Code TFTH08	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201R	MTFNR2020K16	125	20	25	20	20	32	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25251R	MTFNR2525M16	150	25	32	25	25	32	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32321R	MTFNR3232P16	170	32	32	32	32	38	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25252R	MTFNR2525M22	150	25	32	25	25	36	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0
-32322R	MTFNR3232P22	170	32	32	32	32	38	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0
-20201L	MTFNL2020K16	125	20	25	20	20	32	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25251L	MTFNL2525M16	150	25	32	25	25	32	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32321L	MTFNL3232P16	170	32	32	32	32	38	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25252L	MTFNL2525M22	150	25	32	25	25	36	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0
-32322L	MTFNL3232P22	170	32	32	32	32	38	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0

External Toolholders

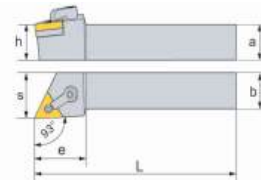
- M-style clamping toolholders for negative type T inerts
- Tool cutting edge angle: 45°



Order Code TFTH09	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201R	MTGNR2020K16	125	20	25	20	20	33	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25251R	MTGNR2525M16	150	25	32	25	25	33	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32321R	MTGNR3232P16	170	32	32	32	32	38	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25252R	MTGNR2525M22	150	25	32	25	25	35	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0
-32322R	MTGNR3232P22	170	32	32	32	32	38	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0
-20201L	MTGNL2020K16	125	20	25	20	20	33	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25251L	MTGNL2525M16	150	25	32	25	25	33	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32321L	MTGNL3232P16	170	32	32	32	32	38	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25252L	MTGNL2525M22	150	25	32	25	25	35	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0
-32322L	MTGNL3232P22	170	32	32	32	32	38	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0

External Toolholders

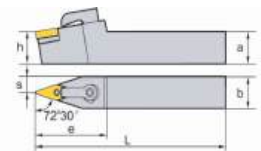
- M-style clamping toolholders for negative type T inerts
- Tool cutting edge angle: 93°



Order Code TFTH10	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201R	MTJNR2020K16	125	20	25	20	20	32	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25251R	MTJNR2525M16	150	25	32	25	25	32	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32321R	MTJNR3232P16	170	32	32	32	32	38	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25252R	MTJNR2525M22	150	25	32	25	25	36	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0
-32322R	MTJNR3232P22	170	32	32	32	32	38	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0
-20201L	MTJNL2020K16	125	20	25	20	20	32	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25251L	MTJNL2525M16	150	25	32	25	25	32	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32321L	MTJNL3232P16	170	32	32	32	32	38	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25252L	MTJNL2525M22	150	25	32	25	25	36	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0
-32322L	MTJNL3232P22	170	32	32	32	32	38	TN □ □ 2204 □ □	MT2204	CTM617	HL1917	ML0830	L2.5,L4.0

External Toolholders

- M-style clamping toolholders for negative type V inerts
- Tool cutting edge angle: 72°30'



Order Code TFTH11	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201N	MVVNN2020K16	125	20	10	20	20	45	VN □ □ 1604 □ □	MV1603	CTM513	HL2414	ML0625	L2.0,L4.0
-25251N	MVVNN2525M16	150	25	12.5	25	25	45	VN □ □ 1604 □ □	MV1603	CTM513	HL2414	ML0625	L2.0,L4.0
-32321N	MVVNN3232P16	170	32	16	32	32	45	VN □ □ 1604 □ □	MV1603	CTM513	HL2414	ML0625	L2.0,L4.0

External Toolholders

- M-style clamping toolholders for negative type V inerts
- Tool cutting edge angle: 93°



Order Code TFTH12	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201R	MVJNR2020K16	125	20	25	20	20	45	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25251R	MVJNR2525M16	150	25	32	25	25	45	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32321R	MVJNR3232P16	170	32	40	32	32	45	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-20201L	MVJNL2020K16	125	20	25	20	20	45	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25251L	MVJNL2525M16	150	25	32	25	25	45	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32321L	MVJNL3232P16	170	32	40	32	32	45	TN □ □ 1604 □ □	MT1603	CTM513	HL1814	ML0625	L2.0,L3.0

External Toolholders

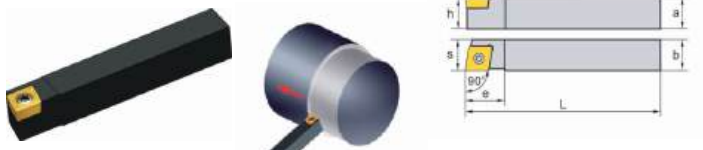
- M-style clamping toolholders for negative type W inerts
- Tool cutting edge angle: 95°



Order Code TFTH13	Designation	L	b	S	h	a	e	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20201R	MWLNR2020K06	125	20	25	20	20	30	WN □ □ 0604 □ □	MW0603	CTM513	HL1814	ML0625	L2.0,L3.0
-25251R	MWLNR2525M06	150	25	32	25	25	30	WN □ □ 0604 □ □	MW0603	CTM513	HL1814	ML0625	L2.0,L3.0
-20202R	MWLNR2020K08	125	20	25	20	20	30	WN □ □ 0804 □ □	MW0804	CTM619	HL1814	ML0625	L2.5,L3.0
-25252R	MWLNR2525M08	150	25	32	25	25	35	WN □ □ 0804 □ □	MW0804	CTM619	HL1814	ML0625	L2.5,L3.0
-32321R	MWLNR3232P08	170	32	40	32	32	35	WN □ □ 0804 □ □	MW0804	CTM619	HL1814	ML0625	L2.5,L3.0
-20201L	MWLN2020K06	125	20	25	20	20	30	WN □ □ 0604 □ □	MW0603	CTM513	HL1814	ML0625	L2.0,L3.0
-25251L	MWLN2525M06	150	25	32	25	25	30	WN □ □ 0604 □ □	MW0603	CTM513	HL1814	ML0625	L2.0,L3.0
-20202L	MWLN2020K08	125	20	25	20	20	30	WN □ □ 0804 □ □	MW0804	CTM619	HL1814	ML0625	L2.5,L3.0
-25252L	MWLN2525M08	150	25	32	25	25	35	WN □ □ 0804 □ □	MW0804	CTM619	HL1814	ML0625	L2.5,L3.0
-32321L	MWLN3232P08	170	32	40	32	32	35	WN □ □ 0804 □ □	MW0804	CTM619	HL1814	ML0625	L2.5,L3.0

External Toolholders

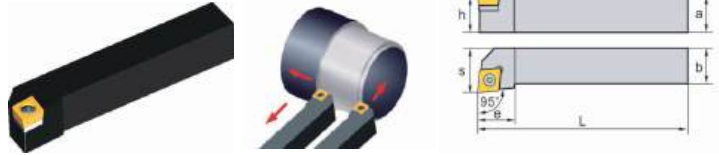
- S-style clamping toolholders for positive type C inerts
- Tool cutting edge angle: 90°



Order Code TFTH14	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-10101R	SCACR1010E06	70	10	10	10	10	10	CC □ □ 0602 □ □	M2.5×8	T8
-12121R	SCACR1212F09	80	12	12	12	12	16	CC □ □ 09T3 □ □	M3.5×9	T9
-10101L	SCACL1010E06	70	10	10	10	10	10	CC □ □ 0602 □ □	M2.5×8	T8
-12121L	SCACL1212F09	80	12	12	12	12	16	CC □ □ 09T3 □ □	M3.5×9	T9

External Toolholders

- S-style clamping toolholders for positive type C inerts
- Tool cutting edge angle: 93°



Order Code TFTH15	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-08081R	SCLCR0808D06	60	8	10	8	8	10	CC □ □ 0602 □ □	M2.5×8	T8
-10101R	SCLCR1010E06	70	10	12	10	10	10	CC □ □ 0602 □ □	M2.5×8	T8
-12121R	SCLCR1212F09	80	12	16	12	12	16	CC □ □ 09T3 □ □	M3.5×9	T15
-16161R	SCLCR1616H09	100	16	20	16	16	16	CC □ □ 09T3 □ □	M3.5×9	T15
-20201R	SCLCR2020K12	125	20	25	20	20	25	CC □ □ 1204 □ □	M5×12	T20
-25251R	SCLCR2525M12	150	25	32	25	25	26	CC □ □ 1204 □ □	M5×12	T20
-32321R	SCLCR3232P12	170	32	32	32	32	26	CC □ □ 1204 □ □	M5×12	T20
-08081L	SCLCL0808D06	60	8	10	8	8	10	CC □ □ 0602 □ □	M2.5×8	T8
-10101L	SCLCL1010E06	70	10	12	10	10	10	CC □ □ 0602 □ □	M2.5×8	T8
-12121L	SCLCL1212F09	80	12	16	12	12	16	CC □ □ 09T3 □ □	M3.5×9	T15
-16161L	SCLCL1616H09	100	16	20	16	16	16	CC □ □ 09T3 □ □	M3.5×9	T15
-20201L	SCLCL2020K12	125	20	25	20	20	25	CC □ □ 1204 □ □	M5×12	T20
-25251L	SCLCL2525M12	150	25	32	25	25	26	CC □ □ 1204 □ □	M5×12	T20
-32321L	SCLCL3232P12	170	32	32	32	32	26	CC □ □ 1204 □ □	M5×12	T20

External Toolholders

- S-style clamping toolholders for positive type D inerts
- Tool cutting edge angle: 93°



Order Code TFTH16	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-10101R	SDJCR1010E07	70	10	12	10	10	15	DC □ □ 0702 □ □	M2.5×8	T8
-12121R	SDJCR1212F07	80	12	16	12	12	15	DC □ □ 0702 □ □	M2.5×8	T8
-16161R	SDJCR1616H07	100	16	20	16	16	18	DC □ □ 0702 □ □	M2.5×8	T8
-16162R	SDJCR1616H11	100	16	20	16	16	24	DC □ □ 11T3 □ □	M3.5×9	T15
-20201R	SDJCR2020K11	125	20	25	20	20	24	DC □ □ 11T3 □ □	M3.5×9	T15
-25251R	SDJCR2525M11	150	25	32	25	25	29	DC □ □ 11T3 □ □	M3.5×9	T15
-32321R	SDJCR3232P11	170	32	32	32	32	29	DC □ □ 11T3 □ □	M3.5×9	T15
-10101L	SDJCL1010E07	70	10	12	10	10	15	DC □ □ 0702 □ □	M2.5×8	T8
-12121L	SDJCL1212F07	80	12	16	12	12	15	DC □ □ 0702 □ □	M2.5×8	T8
-16161L	SDJCL1616H07	100	16	20	16	16	18	DC □ □ 0702 □ □	M2.5×8	T8
-16162L	SDJCL1616H11	100	16	20	16	16	24	DC □ □ 11T3 □ □	M3.5×9	T15
-20201L	SDJCL2020K11	125	20	25	20	20	24	DC □ □ 11T3 □ □	M3.5×9	T15
-25251L	SDJCL2525M11	150	25	32	25	25	29	DC □ □ 11T3 □ □	M3.5×9	T15
-32321L	SDJCL3232P11	170	32	32	32	32	29	DC □ □ 11T3 □ □	M3.5×9	T15

- S-style clamping toolholders for positive type D inerts
- Tool cutting edge angle: 90°



Order Code TFTH17	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-10101R	SDACR1010E07	70	10	10	10	10	15	DC □ □ 0702 □ □	M2.5×8	T8
-12121R	SDACR1212F11	80	12	12	12	12	15	DC □ □ 11T3 □ □	M3.5×9	T15
-16161R	SDACR1616H11	100	16	16	16	16	24	DC □ □ 11T3 □ □	M3.5×9	T15
-10101L	SDACL1010E07	70	10	10	10	10	15	DC □ □ 0702 □ □	M2.5×8	T8
-12121L	SDACL1212F11	80	12	12	12	12	15	DC □ □ 11T3 □ □	M3.5×9	T15
-16161L	SDACL1616H11	100	16	16	16	16	24	DC □ □ 11T3 □ □	M3.5×9	T15

External Toolholders

- S-style clamping toolholders for positive type D inerts
- Tool cutting edge angle: 62°30'



Order Code TFTH18	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-10101N	SDNCN1010E07	70	10	5	10	10	20	DC □ □ 0702 □ □	M2.5×8	T8
-12121N	SDNCN1212F07	80	12	6	12	12	20	DC □ □ 0702 □ □	M2.5×8	T8
-12122N	SDNCN1212H11	100	12	6	12	12	30	DC □ □ 11T3 □ □	M3.5×9	T15
-16161N	SDNCN1616H11	100	16	8	16	16	30	DC □ □ 11T3 □ □	M3.5×9	T15
-20201N	SDNCN2020K11	125	20	10	20	20	30	DC □ □ 11T3 □ □	M3.5×9	T15
-25251N	SDNCN2525M11	150	25	12.5	25	25	30	DC □ □ 11T3 □ □	M3.5×9	T15

External Toolholders

- S-style clamping toolholders for positive type S inerts
- Tool cutting edge angle: 75°



Order Code TFTH19	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-12121R	SSBCR1212F09	80	12	11	12	12	16	SC □ □ 09T3 □ □	M3.5×9	T15
-16161R	SSBCR1616H09	100	16	13	16	16	16	SC □ □ 09T3 □ □	M3.5×9	T15
-20201R	SSBCR2020K12	125	20	17	20	20	25	SC □ □ 1204 □ □	M5×12	T20
-12121L	SSBCL1212F09	80	12	11	12	12	16	SC □ □ 09T3 □ □	M3.5×9	T15
-16161L	SSBCL1616H09	100	16	13	16	16	16	SC □ □ 09T3 □ □	M3.5×9	T15
-20201L	SSBCL2020K12	125	20	17	20	20	25	SC □ □ 1204 □ □	M5×12	T20

External Toolholders

- S-style clamping toolholders for positive type S inerts
- Tool cutting edge angle: 45°



Order Code TFTH20	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-16161R	SSSCR1616H09	100	16	17	16	16	16	SC □ □ 09T3 □ □	M3.5×9	T15
-20201R	SSSCR2020K12	125	20	21	20	20	24	SC □ □ 1204 □ □	M5×12	T20
-16161L	SSSCL1616H09	100	16	17	16	16	16	SC □ □ 09T3 □ □	M3.5×9	T15
-20201L	SSSCL2020K12	125	20	21	20	20	24	SC □ □ 1204 □ □	M5×12	T20

External Toolholders

- S-style clamping toolholders for positive type T inerts
- Tool cutting edge angle: 91°



Order Code TFTH21	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-12121R	STFCR1212F11	80	12	16	12	12	14	TC □ □ 1102 □ □	M2.5×8	T8
-16161R	STFCR1616H11	100	16	20	16	16	14	TC □ □ 1102 □ □	M2.5×8	T8
-16162R	STFCR1616H16	100	16	20	16	16	19	TC □ □ 16T3 □ □	M3.5×9	T15
-20201R	STFCR2020K16	125	20	25	20	20	19	TC □ □ 16T3 □ □	M3.5×9	T15
-12121L	STFCL1212F11	80	12	16	12	12	14	TC □ □ 1102 □ □	M2.5×8	T8
-16161L	STFCL1616H11	100	16	20	16	16	14	TC □ □ 1102 □ □	M2.5×8	T8
-16162L	STFCL1616H16	100	16	20	16	16	19	TC □ □ 16T3 □ □	M3.5×9	T15
-20201L	STFCL2020K16	125	20	25	20	20	19	TC □ □ 16T3 □ □	M3.5×9	T15

External Toolholders

- S-style clamping toolholders for positive type T inerts
- Tool cutting edge angle: 91°



Order Code TFTH22	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-08081R	STGCR0808D09	60	8	10	8	8	11	TC □ □ 09T3 □ □	M2.5×8	T8
-10101R	STGCR1010E09	70	10	12	10	10	11	TC □ □ 09T3 □ □	M2.5×8	T8
-12121R	STGCR1212F11	80	12	16	12	12	14	TC □ □ 1102 □ □	M2.5×8	T8
-16161R	STGCR1616H11	100	16	20	16	16	16	TC □ □ 1102 □ □	M2.5×8	T8
-20201R	STGCR2020K16	125	20	25	20	20	21	TC □ □ 16T3 □ □	M3.5×9	T15
-25251R	STGCR2525M16	150	25	32	25	25	21	TC □ □ 16T3 □ □	M3.5×9	T15
-08081L	STGCL0808D09	60	8	10	8	8	11	TC □ □ 09T3 □ □	M2.5×8	T8
-10101L	STGCL1010E09	70	10	12	10	10	11	TC □ □ 09T3 □ □	M2.5×8	T8
-12121L	STGCL1212F11	80	12	16	12	12	14	TC □ □ 1102 □ □	M2.5×8	T8
-16161L	STGCL1616H11	100	16	20	16	16	16	TC □ □ 1102 □ □	M2.5×8	T8
-20201L	STGCL2020K16	125	20	25	20	20	21	TC □ □ 16T3 □ □	M3.5×9	T15
-25251L	STGCL2525M16	150	25	32	25	25	21	TC □ □ 16T3 □ □	M3.5×9	T15

External Toolholders

- S-style clamping toolholders for positive type V inerts
- Tool cutting edge angle: 93°



Order Code TFTH23	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-10101R	SVJCR1010E11	70	10	12	10	10	22	VC □ □ 1103 □ □	M2.5×8	T8
-12121R	SVJCR1212F11	80	12	16	12	12	27	VC □ □ 1103 □ □	M2.5×8	T8
-16161R	SVJCR1616H11	100	16	20	16	16	27	VC □ □ 1103 □ □	M2.5×8	T8
-20201R	SVJCR2020K11	125	20	25	20	20	27	VC □ □ 1103 □ □	M2.5×8	T8
-25251R	SVJCR2525M11	150	25	32	25	25	27	VC □ □ 1103 □ □	M2.5×8	T8
-16162R	SVJCR1616H16	100	16	20	16	16	36	VC □ □ 1604 □ □	M3.5×9	T15
-20202R	SVJCR2020K16	125	20	25	20	20	41	VC □ □ 1604 □ □	M3.5×9	T15
-25252R	SVJCR2525M16	150	25	32	25	25	41	VC □ □ 1604 □ □	M3.5×9	T15
-32321R	SVJCR3232P16	170	32	32	32	32	41	VC □ □ 1604 □ □	M3.5×9	T15
-10101L	SVJCL1010E11	70	10	12	10	10	22	VC □ □ 1103 □ □	M2.5×8	T8
-12121L	SVJCL1212F11	80	12	16	12	12	27	VC □ □ 1103 □ □	M2.5×8	T8
-16161L	SVJCL1616H11	100	16	20	16	16	27	VC □ □ 1103 □ □	M2.5×8	T8
-20201L	SVJCL2020K11	125	20	25	20	20	27	VC □ □ 1103 □ □	M2.5×8	T8
-25251L	SVJCL2525M11	150	25	32	25	25	27	VC □ □ 1103 □ □	M2.5×8	T8
-16162L	SVJCL1616H16	100	16	20	16	16	36	VC □ □ 1604 □ □	M3.5×9	T15
-20202L	SVJCL2020K16	125	20	25	20	20	41	VC □ □ 1604 □ □	M3.5×9	T15
-25252L	SVJCL2525M16	150	25	32	25	25	41	VC □ □ 1604 □ □	M3.5×9	T15
-32321L	SVJCL3232P16	170	32	32	32	32	41	VC □ □ 1604 □ □	M3.5×9	T15

External Toolholders

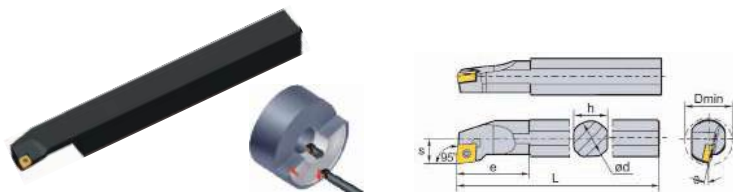
- S-style clamping toolholders for positive type V inerts
- Tool cutting edge angle: 72°30'



Order Code TFTH24	Designation	L	b	S	h	a	e	Suitable Inserts	Screw	Hex Key
-12121N	SVVCN1212F11	80	12	6	12	12	27	VC □ □ 1103 □ □	M2.5×8	T8
-12122N	SVVCN1212M11	150	12	6	12	12	27	VC □ □ 1103 □ □	M2.5×8	T8
-16161N	SVVCN1616H11	100	16	8	16	16	27	VC □ □ 1103 □ □	M2.5×8	T8
-20201N	SVVCN2020K11	125	20	10	20	20	30	VC □ □ 1103 □ □	M2.5×8	T8
-25251N	SVVCN2525M11	150	25	12.5	25	25	38	VC □ □ 1103 □ □	M2.5×8	T8
-16162N	SVVCN1616H16	100	16	8	16	16	33	VC □ □ 1604 □ □	M3.5×9	T15
-20202N	SVVCN2020K16	125	20	10	20	20	33	VC □ □ 1604 □ □	M3.5×9	T15
-25252N	SVVCN2525M16	150	25	12.5	25	25	38	VC □ □ 1604 □ □	M3.5×9	T15

Internal Toolholders

- S-style clamping toolholders for positive type C inerts
- Tool cutting edge angle: 95°



Order Code TFTH50	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Screw	Hex Key
-08061R	S08K-SCLCR06	8	125	10	5	7	14	-15°	CC □ □ 0602 □ □	M2.5×6	T8
-10061R	S10M-SCLCR06	10	150	12	6	9	14	-13°	CC □ □ 0602 □ □	M2.5×6	T8
-12061R	S12M-SCLCR06	12	150	16	9	11	25	-10°	CC □ □ 0602 □ □	M2.5×6	T8
-12091R	S12M-SCLCR09	12	150	16	9	11	25	-10°	CC □ □ 09T3 □ □	M3.5×9	T15
-16091R	S16M-SCLCR09	16	150	20	11	15	32.5	-12°	CC □ □ 09T3 □ □	M3.5×9	T15
-16092R	S16R-SCLCR09	16	200	20	11	15	32.5	-12°	CC □ □ 09T3 □ □	M3.5×9	T15
-20091R	S20Q-SCLCR09	20	180	25	13	18	38	-8°	CC □ □ 09T3 □ □	M3.5×9	T15
-20092R	S20S-SCLCR09	20	250	25	13	18	38	-8°	CC □ □ 09T3 □ □	M3.5×9	T15
-25091R	S25Q-SCLCR09	25	180	32	17	23	45	-6°	CC □ □ 09T3 □ □	M3.5×9	T15
-25092R	S25T-SCLCR09	25	300	32	17	23	45	-6°	CC □ □ 09T3 □ □	M3.5×9	T15
-25121R	S25Q-SCLCR12	25	180	32	17	23	45	-6°	CC □ □ 1204 □ □	M5×12	T20
-25122R	S25T-SCLCR12	25	300	32	17	23	45	-6°	CC □ □ 1204 □ □	M5×12	T20
-32121R	S32R-SCLCR12	32	200	40	22	30	50	-10°	CC □ □ 1204 □ □	M5×12	T20
-32122R	S32U-SCLCR12	32	350	40	22	30	50	-10°	CC □ □ 1204 □ □	M5×12	T20
-40121R	S40S-SCLCR12	40	250	50	27	37	60	-8°	CC □ □ 1204 □ □	M5×12	T20
-40122R	S40V-SCLCR12	40	400	50	27	37	60	-8°	CC □ □ 1204 □ □	M5×12	T20
-08062R	A08F-SCLCR06	8	80	10	5	7.5	14	-15°	CC □ □ 0602 □ □	M2.5×6	T8
-10062R	A10H-SCLCR06	10	100	12	6	9.5	14	-13°	CC □ □ 0602 □ □	M2.5×6	T8
-12062R	A12K-SCLCR06	12	125	16	9	11.5	25	-10°	CC □ □ 0602 □ □	M2.5×6	T8
-12092R	A12K-SCLCR09	12	125	16	9	11.5	25	-10°	CC □ □ 09T3 □ □	M3.5×9	T15
-16093R	A16M-SCLCR09	16	150	20	11	15.5	32.5	-12°	CC □ □ 09T3 □ □	M3.5×9	T15
-20093R	A20Q-SCLCR09	20	180	25	13	19	38	-8°	CC □ □ 09T3 □ □	M3.5×9	T15
-25093R	A25R-SCLCR09	25	200	32	17	24	45	-6°	CC □ □ 09T3 □ □	M3.5×9	T15
-25123R	A25R-SCLCR12	25	200	32	17	24	45	-6°	CC □ □ 1204 □ □	M5×12	T20
-32123R	A32S-SCLCR12	32	250	40	22	31	50	-10°	CC □ □ 1204 □ □	M5×12	T20
-08061L	S08K-SCLCL06	8	125	10	5	7	14	-15°	CC □ □ 0602 □ □	M2.5×6	T8
-10061L	S10M-SCLCL06	10	150	12	6	9	14	-13°	CC □ □ 0602 □ □	M2.5×6	T8
-12061L	S12M-SCLCL06	12	150	16	9	11	25	-10°	CC □ □ 0602 □ □	M2.5×6	T8
-12091L	S12M-SCLCL09	12	150	16	9	11	25	-10°	CC □ □ 09T3 □ □	M3.5×9	T15
-16091L	S16M-SCLCL09	16	150	20	11	15	32.5	-12°	CC □ □ 09T3 □ □	M3.5×9	T15
-16092L	S16R-SCLCL09	16	200	20	11	15	32.5	-12°	CC □ □ 09T3 □ □	M3.5×9	T15
-20091L	S20Q-SCLCL09	20	180	25	13	18	38	-8°	CC □ □ 09T3 □ □	M3.5×9	T15
-20092L	S20S-SCLCL09	20	250	25	13	18	38	-8°	CC □ □ 09T3 □ □	M3.5×9	T15
-25091L	S25Q-SCLCL09	25	180	32	17	23	45	-6°	CC □ □ 09T3 □ □	M3.5×9	T15
-25092L	S25T-SCLCL09	25	300	32	17	23	45	-6°	CC □ □ 09T3 □ □	M3.5×9	T15
-25121L	S25Q-SCLCL12	25	180	32	17	23	45	-6°	CC □ □ 1204 □ □	M5×12	T20
-25122L	S25T-SCLCL12	25	300	32	17	23	45	-6°	CC □ □ 1204 □ □	M5×12	T20
-32121L	S32R-SCLCL12	32	200	40	22	30	50	-10°	CC □ □ 1204 □ □	M5×12	T20
-32122L	S32U-SCLCL12	32	350	40	22	30	50	-10°	CC □ □ 1204 □ □	M5×12	T20
-40121L	S40S-SCLCL12	40	250	50	27	37	60	-8°	CC □ □ 1204 □ □	M5×12	T20
-40122L	S40V-SCLCL12	40	400	50	27	37	60	-8°	CC □ □ 1204 □ □	M5×12	T20

Internal Toolholders

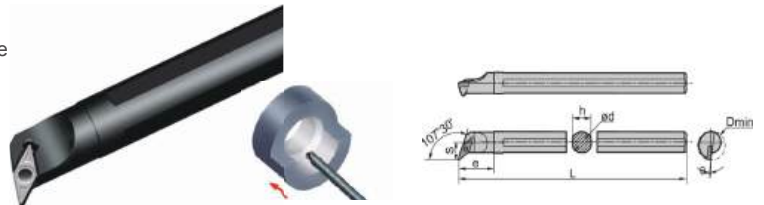
- S-style clamping toolholders for positive type D inserts
- Tool cutting edge angle: 107°30'



Order Code TFTH51	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Screw	Hex Key
-10071R	S10M-SDQCR07	10	150	13	7	9	20	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-12071R	S12M-SDQCR07	12	150	16	9	11	22	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-16071R	S16M-SDQCR07	16	150	20	11	15	27	-6°	DCMT □□ 0702 □□	M2.5×8	T8
-16072R	S16R-SDQCR07	16	200	20	11	15	27	-6°	DCMT □□ 0702 □□	M2.5×8	T8
-20111R	S20Q-SDQCR11	20	180	25	13	18	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-20112R	S20S-SDQCR11	20	250	25	13	18	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25111R	S25Q-SDQCR11	25	180	32	17	23	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25112R	S25T-SDQCR11	25	300	32	17	23	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-10072R	A10H-SDQCR07	10	100	13	7	9.5	20	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-12072R	A12K-SDQCR07	12	125	16	9	11.5	22	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-16111R	A16M-SDQCR11	16	150	20	11	15.5	27	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-20113R	A20Q-SDQCR11	20	180	25	13	19	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25113R	A25R-SDQCR11	25	200	32	17	24	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-10071L	S10M-SDQCL07	10	150	13	7	9	20	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-12071L	S12M-SDQCL07	12	150	16	9	11	22	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-16071L	S16M-SDQCL07	16	150	20	11	15	27	-6°	DCMT □□ 0702 □□	M2.5×8	T8
-16072L	S16R-SDQCL07	16	200	20	11	15	27	-6°	DCMT □□ 0702 □□	M2.5×8	T8
-20111L	S20Q-SDQCL11	20	180	25	13	18	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-20112L	S20S-SDQCL11	20	250	25	13	18	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25111L	S25Q-SDQCL11	25	180	32	17	23	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25112L	S25T-SDQCL11	25	300	32	17	23	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-10072L	A10H-SDQCL07	10	100	13	7	9.5	20	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-12072L	A12K-SDQCL07	12	125	16	9	11.5	22	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-16111L	A16M-SDQCL11	16	150	20	11	15.5	27	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-20113L	A20Q-SDQCL11	20	180	25	13	19	32	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25113L	A25R-SDQCL11	25	200	32	17	24	32	-	DCMT □□ 11T3 □□	M3.5×9	T15

Internal Toolholders

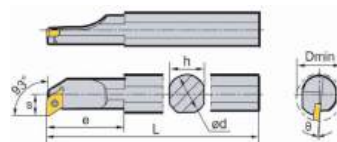
- S-style clamping toolholders for positive type V inserts
- Tool cutting edge angle: 107°30'



Order Code TFTH52	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Screw	Hex Key
-16111R	S16Q-SVQCR11	16	180	22	13	15	28	-6°	VC □□ 1103 □□	M2.5×8	T8
-20111R	S20R-SVQCR11	20	200	26	15	18	32	-4°	VC □□ 1103 □□	M2.5×8	T8
-16111L	S16Q-SVQCL11	16	180	22	13	15	28	-6°	VC □□ 1103 □□	M2.5×8	T8
-20111L	S20R-SVQCL11	20	200	26	15	18	32	-4°	VC □□ 1103 □□	M2.5×8	T8

Internal Toolholders

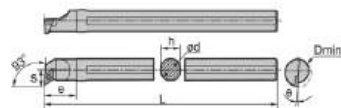
- S-style clamping toolholders for positive type D inerts
- Tool cutting edge angle: 93°



Order Code TFTH53	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Screw	Hex Key
-10071R	S10M-SDUCR07	10	150	13	7	9	0	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-12071R	S12M-SDUCR07	12	150	16	9	11	22	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-16071R	S16M-SDUCR07	16	150	20	11	15	27	-6°	DCMT □□ 0702 □□	M2.5×6	T8
-16072R	S16R-SDUCR07	16	200	20	11	15	27	-6°	DCMT □□ 0702 □□	M2.5×6	T8
-20111R	S20Q-SDUCR11	20	180	25	13	18	40	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-20112R	S20S-SDUCR11	20	250	25	13	18	40	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25111R	S25Q-SDUCR11	25	180	32	17	23	46	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25112R	S25T-SDUCR11	25	300	32	17	23	46	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-10072R	A10H-SDUCR07	10	100	13	7	9.5	0	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-12072R	A12K-SDUCR07	12	125	16	9	11.5	22	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-16073R	A16M-SDUCR07	16	150	20	11	15.5	27	-6°	DCMT □□ 0702 □□	M2.5×6	T8
-20113R	A20Q-SDUCR11	20	180	25	13	19	40	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25113R	A25R-SDUCR11	25	200	32	17	24	46	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-10071L	S10M-SDUCL07	10	150	13	7	9	0	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-12071L	S12M-SDUCL07	12	150	16	9	11	22	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-16071L	S16M-SDUCL07	16	150	20	11	15	27	-6°	DCMT □□ 0702 □□	M2.5×6	T8
-16072L	S16R-SDUCL07	16	200	20	11	15	27	-6°	DCMT □□ 0702 □□	M2.5×6	T8
-20111L	S20Q-SDUCL11	20	180	25	13	18	40	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-20112L	S20S-SDUCL11	20	250	25	13	18	40	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25111L	S25Q-SDUCL11	25	180	32	17	23	46	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25112L	S25T-SDUCL11	25	300	32	17	23	46	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-10072L	A10H-SDUCL07	10	100	13	7	9.5	0	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-12072L	A12K-SDUCL07	12	125	16	9	11.5	22	-8°	DCMT □□ 0702 □□	M2.5×6	T8
-16073L	A16M-SDUCL07	16	150	20	11	15.5	27	-6°	DCMT □□ 0702 □□	M2.5×6	T8
-20113L	A20Q-SDUCL11	20	180	25	13	19	40	-6°	DCMT □□ 11T3 □□	M3.5×9	T15
-25113L	A25R-SDUCL11	25	200	32	17	24	46	-6°	DCMT □□ 11T3 □□	M3.5×9	T15

Internal Toolholders

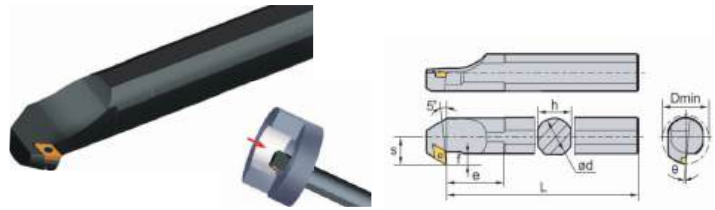
- S-style clamping toolholders for positive type V inerts
- Tool cutting edge angle: 93°



Order Code TFTH54	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Screw	Hex Key
-16111R	S16Q-SVUCR11	16	180	24	15	15	25	-6°	VC □□ 1103 □□	M2.5×8	T8
-20111R	S20R-SVUCR11	20	200	28	17	18	30	-4°	VC □□ 1103 □□	M2.5×8	T8
-16111L	S16Q-SVUCL11	16	180	24	15	15	25	-6°	VC □□ 1103 □□	M2.5×8	T8
-20111L	S20R-SVUCL11	20	200	28	17	18	30	-4°	VC □□ 1103 □□	M2.5×8	T8

Internal Toolholders

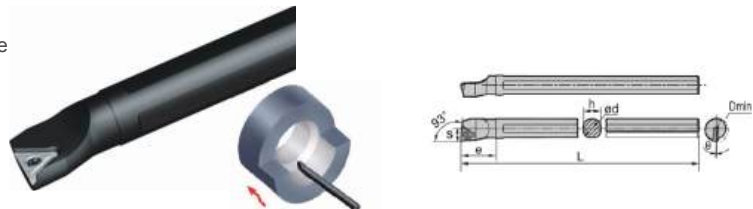
- S-style clamping toolholders for positive type D inerts
- Tool cutting edge angle: 93°



Order Code TFTH55	Designation	ød	L	Dmin	S	h	e	θ	f	Suitable Inserts	Screw	Hex Key
-25111R	S25Q-SDZCR11	25	180	32	17	23	30	-6°	6.9	DCMT □□ 11T3 □□	M3.5×9	T15
-25112R	S25T-SDZCR11	25	300	32	17	23	30	-6°	6.9	DCMT □□ 11T3 □□	M3.5×9	T15
-32111R	S32R-SDZCR11	32	200	40	22	30	39	-6°	8.4	DCMT □□ 11T3 □□	M3.5×9	T15
-32112R	S32U-SDZCR11	32	350	40	22	30	39	-6°	8.4	DCMT □□ 11T3 □□	M3.5×9	T15
-40111R	S40S-SDZCR11	40	250	50	27	37	47	-4°	9.4	DCMT □□ 11T3 □□	M3.5×9	T15
-40112R	S40V-SDZCR11	40	400	50	27	37	47	-4°	9.4	DCMT □□ 11T3 □□	M3.5×9	T15
-25113R	A25R-SDZCR11	25	200	32	17	24	30	-6°	4.5	DCMT □□ 11T3 □□	M3.5×9	T15
-32113R	A32S-SDZCR11	32	250	40	22	31	39	-6°	6	DCMT □□ 11T3 □□	M3.5×9	T15
-25111L	S25Q-SDZCL11	25	180	32	17	23	30	-6°	6.9	DCMT □□ 11T3 □□	M3.5×9	T15
-25112L	S25T-SDZCL11	25	300	32	17	23	30	-6°	6.9	DCMT □□ 11T3 □□	M3.5×9	T15
-32111L	S32R-SDZCL11	32	200	40	22	30	39	-6°	8.4	DCMT □□ 11T3 □□	M3.5×9	T15
-32112L	S32U-SDZCL11	32	350	40	22	30	39	-6°	8.4	DCMT □□ 11T3 □□	M3.5×9	T15
-40111L	S40S-SDZCL11	40	250	50	27	37	47	-4°	9.4	DCMT □□ 11T3 □□	M3.5×9	T15
-40112L	S40V-SDZCL11	40	400	50	27	37	47	-4°	9.4	DCMT □□ 11T3 □□	M3.5×9	T15
-25113L	A25R-SDZCL11	25	200	32	17	24	30	-6°	4.5	DCMT □□ 11T3 □□	M3.5×9	T15
-32113L	A32S-SDZCL11	32	250	40	22	31	39	-6°	6	DCMT □□ 11T3 □□	M3.5×9	T15

Internal Toolholders

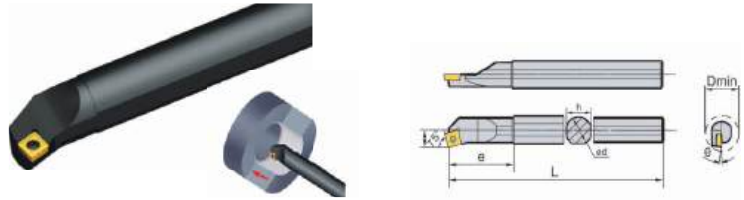
- S-style clamping toolholders for positive type T inerts
- Tool cutting edge angle: 93°



Order Code TFTH56	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Screw	Hex Key
-10091R	S10K-STUPR09	10	125	12	6	9	20	-6°	TP □□ 0902 □□	M2.5×6	T8
-12091R	S12M-STUPR09	12	150	16	8	11	22	-4°	TP □□ 0902 □□	M2.5×6	T8
-12111R	S12M-STUPR11	12	150	16	8	11	25	-4°	TP □□ 1103 □□	M3×8	T8
-16111R	S16Q-STUPR11	16	180	20	10	15	27	-3°	TP □□ 1103 □□	M3×8	T8
-10091L	S10K-STUPL09	10	125	12	6	9	20	-6°	TP □□ 0902 □□	M2.5×6	T8
-12091L	S12M-STUPL09	12	150	16	8	11	22	-4°	TP □□ 0902 □□	M2.5×6	T8
-12111L	S12M-STUPL11	12	150	16	8	11	25	-4°	TP □□ 1103 □□	M3×8	T8
-16111L	S16Q-STUPL11	16	180	20	10	15	27	-	TP □□ 1103 □□	M3×8	T8

Internal Toolholders

- S-style clamping toolholders for positive type S inserts
- Tool cutting edge angle: 75°



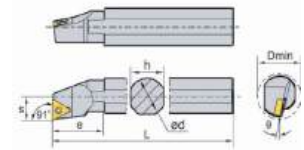
Order Code TFTH57	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Screw	Hex Key
-12091R	S12M-SSKCR09	12	150	16	9	11	26	-10	SC □ □ 09T3 □ □	M3.5×9	T15
-16091R	S16M-SSKCR09	16	150	20	11	15	32.5	-11	SC □ □ 09T3 □ □	M3.5×9	T15
-16092R	S16R-SSKCR09	16	200	20	11	15	32.5	-11	SC □ □ 09T3 □ □	M3.5×9	T15
-20091R	S20Q-SSKCR09	20	180	25	13	18	34.5	-6	SC □ □ 09T3 □ □	M3.5×9	T15
-20092R	S20S-SSKCR09	20	250	25	13	18	34.5	-6	SC □ □ 09T3 □ □	M3.5×9	T15
-25121R	S25Q-SSKCR12	25	180	32	17	23	36.3	-8	SC □ □ 1204 □ □	M5×12	T20
-25122R	S25T-SSKCR12	25	300	32	17	23	36.3	-8	SC □ □ 1204 □ □	M5×12	T20
-32121R	S32R-SSKCR12	32	200	40	22	30	43.5	-10	SC □ □ 1204 □ □	M5×12	T20
-32122R	S32U-SSKCR12	32	350	40	22	30	43.5	-10	SC □ □ 1204 □ □	M5×12	T20
-12092L	A12K-SSKCR09	12	125	16	9	11	26	-10	SC □ □ 09T3 □ □	M3.5×9	T15
-16093R	A16M-SSKCR09	16	150	20	11	15	32.5	-11	SC □ □ 09T3 □ □	M3.5×9	T15
-20093R	A20Q-SSKCR09	20	180	25	13	19	34.5	-6	SC □ □ 09T3 □ □	M3.5×9	T15
-25123R	A25R-SSKCR12	25	200	32	17	24	41.3	-8	SC □ □ 1204 □ □	M5×12	T20
-32123R	A32S-SSKCR12	32	250	40	22	31	42.8	-10	SC □ □ 1204 □ □	M5×12	T20
-12091L	S12M-SSKCL09	12	150	16	9	11	26	-10	SC □ □ 09T3 □ □	M3.5×9	T15
-16091L	S16M-SSKCL09	16	150	20	11	15	32.5	-11	SC □ □ 09T3 □ □	M3.5×9	T15
-16092L	S16R-SSKCL09	16	200	20	11	15	32.5	-11	SC □ □ 09T3 □ □	M3.5×9	T15
-20091L	S20Q-SSKCL09	20	180	25	13	18	34.5	-6	SC □ □ 09T3 □ □	M3.5×9	T15
-20092L	S20S-SSKCL09	20	250	25	13	18	34.5	-6	SC □ □ 09T3 □ □	M3.5×9	T15
-25121L	S25Q-SSKCL12	25	180	32	17	23	36.3	-8	SC □ □ 1204 □ □	M5×12	T20
-25122L	S25T-SSKCL12	25	300	32	17	23	36.3	-8	SC □ □ 1204 □ □	M5×12	T20
-32121L	S32R-SSKCL12	32	200	40	22	30	43.5	-10	SC □ □ 1204 □ □	M5×12	T20
-32122L	S32U-SSKCL12	32	350	40	22	30	43.5	-10	SC □ □ 1204 □ □	M5×12	T20
-12092L	A12K-SSKCL09	12	125	16	9	11	26	-10	SC □ □ 09T3 □ □	M3.5×9	T15
-16093L	A16M-SSKCL09	16	150	20	11	15	32.5	-11	SC □ □ 09T3 □ □	M3.5×9	T15
-20093L	A20Q-SSKCL09	20	180	25	13	19	34.5	-6	SC □ □ 09T3 □ □	M3.5×9	T15
-25123L	A25R-SSKCL12	25	200	32	17	24	41.3	-8	SC □ □ 1204 □ □	M5×12	T20
-32123L	A32S-SSKCL12	32	250	40	22	31	42.8	-10	SC □ □ 1204 □ □	M5×12	T20

Internal turning toolholder Clamping method Introduction



Internal Toolholders

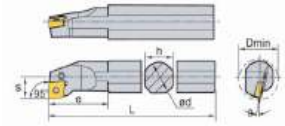
- S-style clamping toolholders for positive type T inserts
- Tool cutting edge angle: 91°



Order Code TFTH58	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Screw	Hex Key
-12111R	S12M-STFCR11	12	150	16	9	11	30	-10°	TC □ □ 1102 □ □	M2.5×6	T8
-16111R	S16M-STFCR11	16	150	20	11	15	35	-6°	TC □ □ 1102 □ □	M2.5×6	T8
-16112R	S16R-STFCR11	16	200	20	11	15	35	-6°	TC □ □ 1102 □ □	M2.5×6	T8
-20111R	S20Q-STFCR11	20	180	25	13	18	36	-3°	TC □ □ 1102 □ □	M2.5×6	T8
-20112R	S20S-STFCR11	20	250	25	13	18	36	-3°	TC □ □ 1102 □ □	M2.5×6	T8
-25161R	S25Q-STFCR16	25	180	32	17	23	49	-6°	TC □ □ 16T3 □ □	M3.5×9	T15
-25162R	S25T-STFCR16	25	300	32	17	23	49	-6°	TC □ □ 16T3 □ □	M3.5×9	T15
-32161R	S32R-STFCR16	32	200	40	22	30	50	-10°	TC □ □ 16T3 □ □	M3.5×9	T15
-32162R	S32U-STFCR16	32	350	40	22	30	50	-10°	TC □ □ 16T3 □ □	M3.5×9	T15
-40161R	S40S-STFCR16	40	250	50	27	37	60	-8°	TC □ □ 16T3 □ □	M3.5×9	T15
-40162R	S40V-STFCR16	40	400	50	27	37	60	-8°	TC □ □ 16T3 □ □	M3.5×9	T15
-12112R	A12K-STFCR11	12	125	16	9	11.5	26	-10°	TC □ □ 1102 □ □	M2.5×6	T8
-16113R	A16M-STFCR11	16	150	20	11	15.5	30	-6°	TC □ □ 1102 □ □	M2.5×6	T8
-20113R	A20Q-STFCR11	20	180	25	13	19	36	-3°	TC □ □ 1102 □ □	M2.5×6	T8
-25163R	A25R-STFCR16	25	200	32	17	24	45	-6°	TC □ □ 16T3 □ □	M3.5×9	T15
-32163R	A32S-STFCR16	32	250	40	22	31	49	-10°	TC □ □ 16T3 □ □	M3.5×9	T15
-12111L	S12M-STFCL11	12	150	16	9	11	30	-10°	TC □ □ 1102 □ □	M2.5×6	T8
-16111L	S16M-STFCL11	16	150	20	11	15	35	-6°	TC □ □ 1102 □ □	M2.5×6	T8
-16112L	S16R-STFCL11	16	200	20	11	15	35	-6°	TC □ □ 1102 □ □	M2.5×6	T8
-20111L	S20Q-STFCL11	20	180	25	13	18	36	-3°	TC □ □ 1102 □ □	M2.5×6	T8
-20112L	S20S-STFCL11	20	250	25	13	18	36	-3°	TC □ □ 1102 □ □	M2.5×6	T8
-25161L	S25Q-STFCL16	25	180	32	17	23	49	-6°	TC □ □ 16T3 □ □	M3.5×9	T15
-25162L	S25T-STFCL16	25	300	32	17	23	49	-6°	TC □ □ 16T3 □ □	M3.5×9	T15
-32161L	S32R-STFCL16	32	200	40	22	30	50	-10°	TC □ □ 16T3 □ □	M3.5×9	T15
-32162L	S32U-STFCL16	32	350	40	22	30	50	-10°	TC □ □ 16T3 □ □	M3.5×9	T15
-40161L	S40S-STFCL16	40	250	50	27	37	60	-8°	TC □ □ 16T3 □ □	M3.5×9	T15
-40162L	S40V-STFCL16	40	400	50	27	37	60	-8°	TC □ □ 16T3 □ □	M3.5×9	T15
-12112L	A12K-STFCL11	12	125	16	9	11.5	26	-10°	TC □ □ 1102 □ □	M2.5×6	T8
-16113L	A16M-STFCL11	16	150	20	11	15.5	30	-6°	TC □ □ 1102 □ □	M2.5×6	T8
-20113L	A20Q-STFCL11	20	180	25	13	19	36	-3°	TC □ □ 1102 □ □	M2.5×6	T8
-25163L	A25R-STFCL16	25	200	32	17	24	45	-6°	TC □ □ 16T3 □ □	M3.5×9	T15
-32163L	A32S-STFCL16	32	250	40	22	31	49	-10	TC □ □ 16T3 □ □	M3.5×9	T15

Internal Toolholders

- M-style clamping toolholders for negative type C inerts
- Tool cutting edge angle: 95°



Order Code TFTH59	Designation	Ød	L	Dmin	S	h	e	θ	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-25121R	S25Q-MCLNR12	25	180	32	17	23	40	-12°	CN □ □ 1204 □ □	MC1204	CTM613	HL1810	ML0620	L2.5,L3.0
-25122R	S25T-MCLNR12	25	300	32	17	23	40	-12°	CN □ □ 1204 □ □	MC1204	CTM613	HL1810	ML0620	L2.5,L3.0
-32121R	S32R-MCLNR12	32	200	44	22	30	50	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32122R	S32U-MCLNR12	32	350	44	22	30	50	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-40121R	S40S-MCLNR12	40	250	54	27	37	55	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-40122R	S40V-MCLNR12	40	400	54	27	37	55	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-50121R	S50S-MCLNR12	50	250	63	35	47	56	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-50122R	S50W-MCLNR12	50	450	63	35	47	56	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-50191R	S50S-MCLNR19	50	250	63	35	47	63	-10°	CN □ □ 1906 □ □	MC1904	CTM1022	HL2217	ML0803	L4.0
-50192R	S50W-MCLNR19	50	450	63	35	47	63	-10°	CN □ □ 1906 □ □	MC1904	CTM1022	HL2217	ML0803	L4.0
-25123R	A25R-MCLNR12	25	200	32	17	24	40	-12°	CN □ □ 1204 □ □	MC1204	CTM613	HL1810	ML0620	L2.5,L3.0
-32123R	A32S-MCLNR12	32	250	44	22	31	50	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25121L	S25Q-MCLNL12	25	180	32	17	23	40	-12°	CN □ □ 1204 □ □	MC1204	CTM613	HL1810	ML0620	L2.5,L3.0
-25122L	S25T-MCLNL12	25	300	32	17	23	40	-12°	CN □ □ 1204 □ □	MC1204	CTM613	HL1810	ML0620	L2.5,L3.0
-32121L	S32R-MCLNL12	32	200	44	22	30	50	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32122L	S32U-MCLNL12	32	350	44	22	30	50	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-40121L	S40S-MCLNL12	40	250	54	27	37	55	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-40122L	S40V-MCLNL12	40	400	54	27	37	55	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-50121L	S50S-MCLNL12	50	250	63	35	47	56	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-50122L	S50W-MCLNL12	50	450	63	35	47	56	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0
-50191L	S50S-MCLNL19	50	250	63	35	47	63	-10°	CN □ □ 1906 □ □	MC1904	CTM1022	HL2217	ML0803	L4.0
-50192L	S50W-MCLNL19	50	450	63	35	47	63	-10°	CN □ □ 1906 □ □	MC1904	CTM1022	HL2217	ML0803	L4.0
-25123L	A25S-MCLNL12	25	200	32	17	24	40	-12°	CN □ □ 1204 □ □	MC1204	CTM613	HL1810	ML0620	L2.5,L3.0
-32123L	A32S-MCLNL12	32	250	44	22	31	50	-10°	CN □ □ 1204 □ □	MC1204	CTM617	HL1814	ML0625	L2.5,L3.0



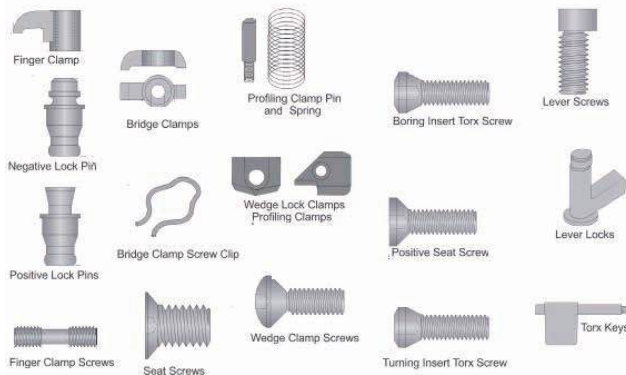
Internal Toolholders

- M-style clamping toolholders for negative type W inserts
- Tool cutting edge angle: 95°



Order Code TFTH60	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-16061R	S16M-MWLNRO6	16	150	20	11	15	25	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0518	L2.0,L2.5
-16062R	S16R-MWLNRO6	16	200	20	11	15	25	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0518	L2.0,L2.5
-20061R	S20Q-MWLNRO6	20	180	25	13	18	35	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0520	L2.0,L2.5
-20062R	S20S-MWLNRO6	20	250	25	13	18	35	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0520	L2.0,L2.5
-25061R	S25Q-MWLNRO6	25	180	32	17	23	35	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0520	L2.0,L2.5
-25062R	S25T-MWLNRO6	25	300	32	17	23	35	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0520	L2.0,L2.5
-20081R	S20Q-MWLNRO8	20	180	25	13	18	32	-13°	WN □ □ 0804 □ □	MW0804	CTM613	HL1810	ML0620	L2.5,L3.0
-20082R	S20S-MWLNRO8	20	250	25	13	18	32	-13°	WN □ □ 0804 □ □	MW0804	CTM613	HL1810	ML0620	L2.5,L3.0
-25081R	S25Q-MWLNRO8	25	180	32	17	23	45	-13°	WN □ □ 0804 □ □	MW0804	CTM613	HL1810	ML0620	L2.5,L3.0
-25082R	S25T-MWLNRO8	25	300	32	17	23	45	-13°	WN □ □ 0804 □ □	MW0804	CTM613	HL1810	ML0620	L2.5,L3.0
-32081R	S32R-MWLNRO8	32	200	40	22	30	50	-15°	WN □ □ 0804 □ □	MW0804	CTM617	HL1814	ML0625	L2.5,L3.0
-32082R	S32U-MWLNRO8	32	350	40	22	30	50	-15°	WN □ □ 0804 □ □	MW0804	CTM617	HL1814	ML0625	L2.5,L3.0
-25083R	A25T-MWLNRO8	25	300	32	17	23	45	-13°	WN □ □ 0804 □ □	MW0804	CTM613	HL1810	ML0620	L2.5,L3.0
-32083R	A32R-MWLNRO8	32	200	40	22	30	50	-15°	WN □ □ 0804 □ □	MW0804	CTM617	HL1814	ML0620	L2.5,L3.0
-16061L	S16M-MWLNLO6	16	150	20	11	15	25	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0518	L2.0,L2.5
-16062L	S16R-MWLNLO6	16	200	20	11	15	25	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0518	L2.0,L2.5
-20061L	S20Q-MWLNLO6	20	180	25	13	18	35	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0520	L2.0,L2.5
-20062L	S20S-MWLNLO6	20	250	25	13	18	35	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0520	L2.0,L2.5
-25061L	S25Q-MWLNLO6	25	180	32	17	23	35	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0520	L2.0,L2.5
-25062L	S25T-MWLNLO6	25	300	32	17	23	35	-13°	WN □ □ 0604 □ □	MW0604	CTM510	HL1511	ML0520	L2.0,L2.5
-20081L	S20Q-MWLNLO8	20	180	25	13	18	32	-13°	WN □ □ 0804 □ □	MW0804	CTM613	HL1810	ML0620	L2.5,L3.0
-20082L	S20S-MWLNLO8	20	250	25	13	18	32	-13°	WN □ □ 0804 □ □	MW0804	CTM613	HL1810	ML0620	L2.5,L3.0
-25081L	S25Q-MWLNLO8	25	180	32	17	23	45	-13°	WN □ □ 0804 □ □	MW0804	CTM613	HL1810	ML0620	L2.5,L3.0
-25082L	S25T-MWLNLO8	25	300	32	17	23	45	-13°	WN □ □ 0804 □ □	MW0804	CTM613	HL1810	ML0620	L2.5,L3.0
-32081L	S32R-MWLNLO8	32	200	40	22	30	50	-15°	WN □ □ 0804 □ □	MW0804	CTM617	HL1814	ML0625	L2.5,L3.0
-32082L	S32U-MWLNLO8	32	350	40	22	30	50	-15°	WN □ □ 0804 □ □	MW0804	CTM617	HL1814	ML0625	L2.5,L3.0
-25083L	A25T-MWLNLO8	25	300	32	17	23	45	-13°	WN □ □ 0804 □ □	MW0804	CTM613	HL1810	ML0620	L2.5,L3.0
-32083L	A32R-MWLNLO8	32	200	40	22	30	50	-15°	WN □ □ 0804 □ □	MW0804	CTM617	HL1814	ML0625	L2.5,L3.0

Spare Parts For Tool Holders & Boring Bars



Internal Toolholders

- M-style clamping toolholders for negative type D inerts
- Tool cutting edge angle: 93°



Order Code TFTH61	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-20111R	S20Q-MDUNR11	20	180	25	13	18	30	-16°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-20112R	S20S-MDUNR11	20	250	25	13	18	30	-16°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-25111R	S25Q-MDUNR11	25	180	32	17	23	35	-13°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-25112R	S25T-MDUNR11	25	300	32	17	23	35	-13°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-32111R	S32R-MDUNR11	32	200	40	22	30	40	-16°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-32112R	S32U-MDUNR11	32	350	40	22	30	40	-16°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-32151R	S32R-MDUNR15	32	200	40	22	30	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-32152R	S32U-MDUNR15	32	350	40	22	30	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-32153R	S32R-MDUNR15-3	32	200	40	22	30	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-32154R	S32U-MDUNR15-3	32	350	40	22	30	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-40151R	S40S-MDUNR15	40	250	50	27	37	50	-11°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-40152R	S40V-MDUNR15	40	400	50	27	37	50	-11°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-40153R	S40S-MDUNR15-3	40	250	50	27	37	50	-11°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-40154R	S40V-MDUNR15-3	40	400	50	27	37	50	-11°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-32155R	A32S-MDUNR15	32	250	40	22	31	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-32156R	A32S-MDUNR15-3	32	250	40	22	31	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-20111L	S20Q-MDUNL11	20	180	25	13	18	30	-16°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-20112L	S20S-MDUNL11	20	250	25	13	18	30	-16°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-25111L	S25Q-MDUNL11	25	180	32	17	23	35	-13°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-25112L	S25T-MDUNL11	25	300	32	17	23	35	-13°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-32111L	S32R-MDUNL11	32	200	40	22	30	40	-16°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-32112L	S32U-MDUNL11	32	350	40	22	30	40	-16°	DN □ □ 1104 □ □	MD1104	CTM513	HL1814	ML0625	L2.0,L3.0
-32151L	S32R-MDUNL15	32	200	40	22	30	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-32152L	S32U-MDUNL15	32	350	40	22	30	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-32153L	S32R-MDUNL15-3	32	200	40	22	30	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-32154L	S32U-MDUNL15-3	32	350	40	22	30	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-40151L	S40S-MDUNL15	40	250	50	27	37	50	-11°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-40152L	S40V-MDUNL15	40	400	50	27	37	50	-11°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-40153L	S40S-MDUNL15-3	40	250	50	27	37	50	-11°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-40154L	S40V-MDUNL15-3	40	400	50	27	37	50	-11°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-32155L	A32S-MDUNL15	32	250	40	22	31	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0
-32156L	A32S-MDUNL15-3	32	250	40	22	31	50	-16°	DN □ □ 1504 □ □	MD1504	CTM617	HL2214	ML0625	L2.5,L3.0

Internal Toolholders

- M-style clamping toolholders for negative type S inerts
- Tool cutting edge angle: 75°



Order Code TFTH62	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-25121R	S25Q-MSKNR12	25	180	32	17	23	42	-12°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25122R	S25T-MSKNR12	25	300	32	17	23	42	-12°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32121R	S32R-MSKNR12	32	200	44	22	30	45	-10°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32122R	S32U-MSKNR12	32	350	44	22	30	45	-10°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-40121R	S40S-MSKNR12	40	250	54	27	37	50	-10°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-40122R	S40V-MSKNR12	40	400	54	27	37	50	-10°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25123R	A25R-MSKNR12	25	200	32	17	24	42	-12°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32123R	A32S-MSKNR12	32	250	44	22	31	50	-12°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25121L	S25Q-MSKNL12	25	180	32	17	23	42	-12°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25122L	S25T-MSKNL12	25	300	32	17	23	42	-12°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32121L	S32R-MSKNL12	32	200	44	22	30	45	-10°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32122L	S32U-MSKNL12	32	350	44	22	30	45	-10°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-40121L	S40S-MSKNL12	40	250	54	27	37	50	-10°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-40122L	S40V-MSKNL12	40	400	54	27	37	50	-10°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-25123L	A25R-MSKNL12	25	200	32	17	24	42	-12°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0
-32123L	A32S-MSKNL12	32	250	44	22	31	50	-12°	SN □ □ 1204 □ □	MS1204	CTM617	HL1814	ML0625	L2.5,L3.0

Internal Toolholders

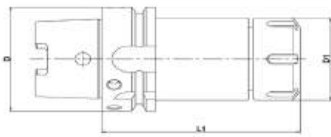
- M-style clamping toolholders for negative type T inerts
- Tool cutting edge angle: 90°



Order Code TFTH63	Designation	ød	L	Dmin	S	h	e	θ	Suitable Inserts	Shim	Lock Pin	Clamp Assembly	Clamp Screw	Hex Key
-25161R	S25Q-MTFNR16	25	180	32	17	23	42	-12°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25162R	S25T-MTFNR16	25	300	32	17	23	42	-12°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32161R	S32R-MTFNR16	32	200	44	22	30	50	-10°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32162R	S32U-MTFNR16	32	350	44	22	30	50	-10°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-40161R	S40S-MTFNR16	40	250	54	27	37	55	-10°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-40162R	S40V-MTFNR16	40	400	54	27	37	55	-10°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25163R	A25R-MTFNR16	25	200	32	17	24	40	-12°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32163R	A32S-MTFNR16	32	250	44	22	31	50	-10°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25161L	S25Q-MTFNL16	25	180	32	17	23	42	-12°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25162L	S25T-MTFNL16	25	300	32	17	23	42	-12°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32161L	S32R-MTFNL16	32	200	44	22	30	50	-10°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32162L	S32U-MTFNL16	32	350	44	22	30	50	-10°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-40161L	S40S-MTFNL16	40	250	54	27	37	55	-10°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-40162L	S40V-MTFNL16	40	400	54	27	37	55	-10°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-25163L	A25R-MTFNL16	25	200	32	17	24	40	-12°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0
-32163L	A32S-MTFNL16	32	250	44	22	31	50	-10°	TN □ □ 1604 □ □	MV1603	CTM513	HL1814	ML0625	L2.0,L3.0

HSK-A-ER Chucks

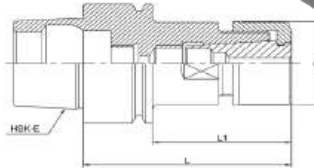
- HSK E Chucks are the best tool holders for your CNC machining center. Perfect for automotive and aerospace manufacturing
- For clamping tools with straight shank in ER collets
- Balanced to 25,000 RPM at G2.5
- Collet, wrench and coolant pipe need to be ordered separately



Order Code TFAC01	Model	Shank	D	D1	L1	Collet Series	Clamping Range
-06108B	HSK63A-ER16B-80	HSK63A	63	28	80	ER16	1 - 10
-06110B	HSK63A-ER16B-100	HSK63A	63	28	100	ER16	1 - 10
-06112B	HSK63A-ER16B-125	HSK63A	63	28	125	ER16	1 - 10
-06116B	HSK63A-ER16B-160	HSK63A	63	28	160	ER16	1 - 10
-06208C	HSK63A-ER20B-80	HSK63A	63	34	80	ER20	1 - 13
-06210C	HSK63A-ER20B-100	HSK63A	63	34	100	ER20	1 - 13
-06212C	HSK63A-ER20B-125	HSK63A	63	34	125	ER20	1 - 13
-06216C	HSK63A-ER20B-160	HSK63A	63	34	160	ER20	1 - 13
-06308D	HSK63A-ER25B-80	HSK63A	63	42	80	ER25	2 - 16
-06310D	HSK63A-ER25B-100	HSK63A	63	42	100	ER25	2 - 16
-06312D	HSK63A-ER25B-125	HSK63A	63	42	125	ER25	2 - 16
-06316D	HSK63A-ER25B-160	HSK63A	63	42	160	ER25	2 - 16
-06410E	HSK63A-ER32B-100	HSK63A	63	50	100	ER32	2 - 20
-06412E	HSK63A-ER32B-125	HSK63A	63	50	125	ER32	2 - 20
-06416E	HSK63A-ER32B-160	HSK63A	63	50	160	ER32	2 - 20
-06510F	HSK63A-ER40B-100	HSK63A	63	63	100	ER40	4 - 26
-06512F	HSK63A-ER40B-120	HSK63A	63	63	120	ER40	4 - 26
-06516F	HSK63A-ER40B-160	HSK63A	63	63	160	ER40	4 - 26
-10110B	HSK100A-ER16B-100	HSK100A	100	28	100	ER16	1 - 10
-10112B	HSK100A-ER16B-125	HSK100A	100	28	125	ER16	1 - 10
-10116B	HSK100A-ER16B-160	HSK100A	100	28	160	ER16	1 - 10
-10210C	HSK100A-ER20B-100	HSK100A	100	34	100	ER20	1 - 13
-10212C	HSK100A-ER20B-125	HSK100A	100	34	125	ER20	1 - 13
-10216C	HSK100A-ER20B-160	HSK100A	100	34	160	ER20	1 - 13
-10310D	HSK100A-ER25B-100	HSK100A	100	42	100	ER25	2 - 16
-10312D	HSK100A-ER25B-125	HSK100A	100	42	125	ER25	2 - 16
-10316D	HSK100A-ER25B-160	HSK100A	100	42	160	ER25	2 - 16
-10410E	HSK100A-ER32B-100	HSK100A	100	50	100	ER32	2 - 20
-10412E	HSK100A-ER32B-125	HSK100A	100	50	125	ER32	2 - 20
-10416E	HSK100A-ER32B-160	HSK100A	100	50	160	ER32	2 - 20
-10510F	HSK100A-ER40B-100	HSK100A	100	63	100	ER40	4 - 26
-10512F	HSK100A-ER40B-125	HSK100A	100	63	125	ER40	4 - 26
-10516F	HSK100A-ER40B-160	HSK100A	100	63	160	ER40	4 - 26

HSK-E-GSK Collet Chucks

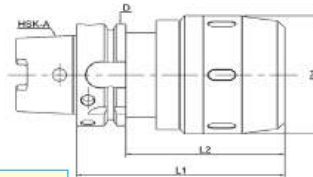
- Featured with less protrusion length and more contact area than normal CSK chucks so that it can provide higher radial cutting force and greatly increase the clamping force. GSK chuck has more stable characteristics in high speed cutting process, improving service life. The GSK chucks are more suitable for higher speed and high precision cutting.
- Balanced to 40,000 RPM at G2.5
- Run-out = 5µm



Order Code TFAC04	Model	D	D1	L1	Clamping Range
-04006A	HSK40E-GSK10-60	27.5	60	40	2 - 10
-04106B	HSK40E-GSK16-60	40	60	40	3 - 16
-05008A	HSK50E-GSK10-80	27.5	80	54	2 - 10
-05108B	HSK50E-GSK16-80	40	80	54	3 - 16

HSK-A-HEC Power Milling Chucks

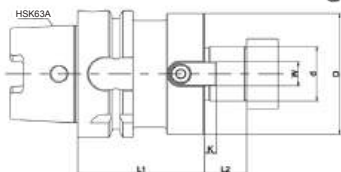
- Use with specially designed HEC collet with the small angle for milling
- The collet can be completely covered in the collet chuck
- Excellent vibration damping thanks to the strong contact between the collet and chuck
- Balanced to 15,000 RPM at G6.3
- Run-out = 8µm



Order Code TFAC05	Model	D	D1	L1	L2	Collet Series	Clamping Range
-06009A	HSK63A-HEC20B-95	63	55	95	69	C20	3 - 20
-06011A	HSK63A-HEC20B-110	63	55	110	84	C20	3 - 20
-06110B	HSK63A-HEC25B-100	63	60	100	74	C25	3 - 25
-06113B	HSK63A-HEC25B-130	63	60	130	104	C25	3 - 25
-06211C	HSK63A-HEC32B-110	63	73	110	84	C32	3 - 32
-06213C	HSK63A-HEC32B-130	63	73	130	104	C32	3 - 32
-10010A	HSK100A-HEC20B-105	100	55	105	76	C20	3 - 20
-10011A	HSK100A-HEC20B-115	100	55	115	86	C20	3 - 20
-10013A	HSK100A-HEC20B-135	100	55	135	106	C20	3 - 20
-10110B	HSK100A-HEC25B-105	100	60	105	76	C25	3 - 25
-10111B	HSK100A-HEC25B-115	100	60	115	86	C25	3 - 25
-10113B	HSK100A-HEC25B-135	100	60	135	106	C25	3 - 25
-10210C	HSK100A-HEC32B-105	100	73	105	76	C32	3 - 32
-10211C	HSK100A-HEC32B-115	100	73	115	86	C32	3 - 32
-10213C	HSK100A-HEC32B-135	100	73	135	106	C32	3 - 32
-10216C	HSK100A-HEC32B-165	100	73	165	136	C32	3 - 32
-10311D	HSK100A-HEC42B-115	100	95	115	86	C42	3 - 42
-10313D	HSK100A-HEC42B-135	100	95	135	106	C42	3 - 42

HSK-A-FMB Mill Adapters

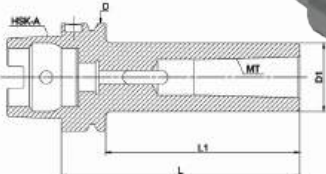
- Used in the clamping of the cutter with the radial drive groove, such as the face milling cutter, the vertical disc cutter, the set type end mill, high speed and high precision machining
- The face milling cutter is with parts(d) shaft
- Tolerance h6



Order Code TFAC08	Model	d	D	L1	L2	W	K
-06005A	HSK63A-FMB22B-50	22	50	50	19	10	4.8
-06010A	HSK63A-FMB22B-100	22	50	100	19	10	4.8
-06016A	HSK63A-FMB22B-160	22	50	160	19	10	4.8
-06106B	HSK63A-FMB27B-60	27	60	60	21	12	5.8
-06110B	HSK63A-FMB27B-100	27	60	100	21	12	5.8
-06116B	HSK63A-FMB27B-160	27	60	160	21	12	5.8
-06206C	HSK63A-FMB32B-60	32	78	60	24	14	6.8
-06210C	HSK63A-FMB32B-100	32	78	100	24	14	6.8
-06216C	HSK63A-FMB32B-160	32	78	160	24	14	6.8
-06306D	HSK63A-FMB40B-60	40	89	60	27	16	8.3
-06310D	HSK63A-FMB40B-100	40	89	100	27	16	8.3
-06316D	HSK63A-FMB40B-160	40	89	160	27	16	8.3
-10005A	HSK100A-FMB22B-50	22	50	50	19	10	4.8
-10010A	HSK100A-FMB22B-100	22	50	100	19	10	4.8
-10016A	HSK100A-FMB22B-160	22	50	160	19	10	4.8
-10105B	HSK100A-FMB27B-50	27	60	50	21	12	5.8
-10110B	HSK100A-FMB27B-100	27	60	100	21	12	5.8
-10116B	HSK100A-FMB27B-160	27	60	160	21	12	5.8
-10205C	HSK100A-FMB32B-50	32	78	50	24	14	6.8
-10210C	HSK100A-FMB32B-100	32	78	100	24	14	6.8
-10216C	HSK100A-FMB32B-160	32	78	160	24	14	6.8
-10306D	HSK100A-FMB40B-60	40	89	60	27	16	8.3
-10310D	HSK100A-FMB40B-100	40	89	100	27	16	8.3
-10316D	HSK100A-FMB40B-160	40	89	160	27	16	8.3

HSK-A-MTA Morse Taper Adapters

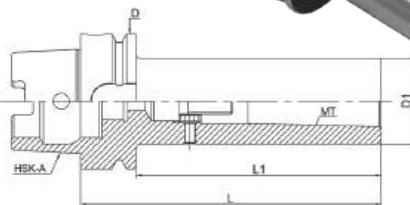
- For tools with Morse Taper shank & tang
- Also for tools with drawbar thread



Order Code TFAC09	Model	L	L1	D	D1	MT No.
-06010A	HSK63A-MTA1-100	100	74	63	25	#1
-06012A	HSK63A-MTA2-120	120	94	63	32	#2
-06014A	HSK63A-MTA3-140	140	114	63	40	#3
-06016A	HSK63A-MTA4-160	160	134	63	48	#4
-10111A	HSK100A-MTA1-110	110	81	100	25	#1
-10112A	HSK100A-MTA2-120	120	91	100	32	#2
-10115A	HSK100A-MTA3-150	150	121	100	40	#3
-10117A	HSK100A-MTA4-170	170	141	100	48	#4
-10120A	HSK100A-MTA5-200	200	171	100	63	#5

HSK-A-MTB Morse Taper Adapters

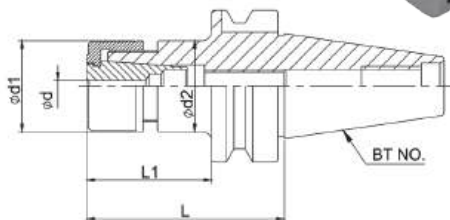
- For tools with Morse Taper (type B) shank & tang
- Also for tools with drawbar thread



Order Code TFAC09	Model	L	L1	D	D1	MT No.
-06610B	HSK63A-MTB1-100	100	74	63	25	#1
-06612B	HSK63A-MTB2-120	120	94	63	32	#2
-06614B	HSK63A-MTB3-140	140	114	63	40	#3
-06616B	HSK63A-MTB4-160	160	134	63	48	#4
-10711B	HSK100A-MTB1-110	110	81	100	25	#1
-10712B	HSK100A-MTB2-120	120	91	100	32	#2
-10715B	HSK100A-MTB3-150	150	121	100	40	#3
-10717B	HSK100A-MTB4-170	170	141	100	48	#4
-10720B	HSK100A-MTB5-200	200	171	100	63	#5

BT-GSK High Speed Collet Chucks

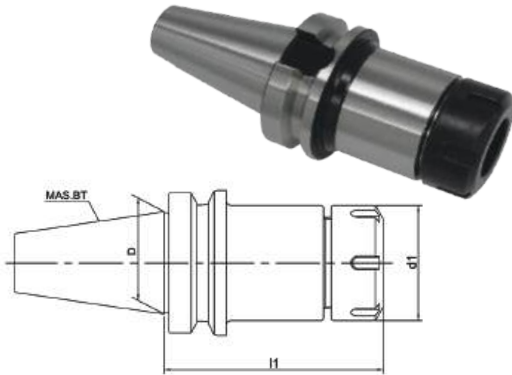
- Suitable for high speed and high precision cutting
- Enhancing the life of cutting tools
- Reliable cutting and reducing vibration
- Run-out = 5µm



Order Code TFAC16	Model	d1	d2	L	L1	Clamping Range ϕd
-03006K	BT30-GSK10-60	27.5	27.5	60	38	2.0 - 10.0
-03009K	BT30-GSK10-90	27.5	27.5	90	68	2.0 - 10.0
-03012K	BT30-GSK10-120	27.5	27.5	120	98	2.0 - 10.0
-03106K	BT30-GSK16-60	40	40	60	38	3.0 - 16.0
-03109K	BT30-GSK16-90	40	40	90	68	3.0 - 16.0
-03112K	BT30-GSK16-120	40	40	120	98	3.0 - 16.0
-04009K	BT40-GSK10-90	27.5	27.5	90	63	2.0 - 10.0
-04012K	BT40-GSK10-120	27.5	27.5	120	93	2.0 - 10.0
-04109K	BT40-GSK16-90	40	40	90	63	3.0 - 16.0
-04112K	BT40-GSK16-120	40	40	120	93	3.0 - 16.0

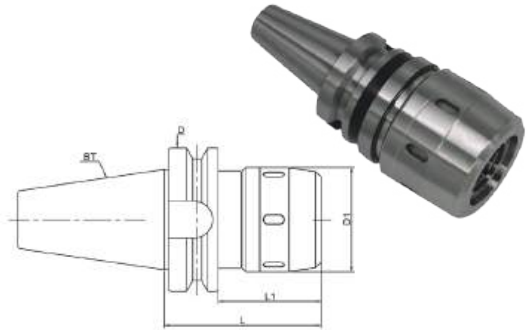
BT/ER Collet Chuck Adapters

- Balanced to 15,000 RPM at G6.3
- Collet, wrench and coolant pipe need to be ordered separately



Order Code TFAC15	Model	l1	d1	D	Collet
-03007A	BT30-ER16B-70	70	28	31.75	ER16
-03010A	BT30-ER16B-100	100	28	31.75	ER16
-03107B	BT30-ER20B-70	70	34	31.75	ER20
-03110B	BT30-ER20B-100	100	34	31.75	ER20
-03207C	BT30-ER25B-70	70	42	31.75	ER25
-03210C	BT30-ER25B-100	100	42	31.75	ER25
-03307D	BT30-ER32B-70	70	50	31.75	ER32
-03310D	BT30-ER32B-100	100	50	31.75	ER32
-03408E	BT30-ER40B-80	80	63	31.75	ER40
-04007A	BT40-ER16B-70	70	28	44.45	ER16
-04010A	BT40-ER16B-100	100	28	44.45	ER16
-04015A	BT40-ER16B-150	150	28	44.45	ER16
-04107B	BT40-ER20B-70	70	34	44.45	ER20
-04110B	BT40-ER20B-100	100	34	44.45	ER20
-04115B	BT40-ER20B-150	150	34	44.45	ER20
-04207C	BT40-ER25B-70	70	42	44.45	ER25
-04210C	BT40-ER25B-100	100	42	44.45	ER25
-04215C	BT40-ER25B-150	150	42	44.45	ER25
-04307D	BT40-ER32B-70	70	50	44.45	ER32
-04310D	BT40-ER32B-100	100	50	44.45	ER32
-04315D	BT40-ER32B-150	150	50	44.45	ER32
-04408E	BT40-ER40B-80	80	63	44.45	ER40
-04410E	BT40-ER40B-100	100	63	44.45	ER40
-04415E	BT40-ER40B-150	150	63	44.45	ER40
-05007A	BT50-ER16B-70	70	28	69.85	ER16
-05010A	BT50-ER16B-100	100	28	69.85	ER16
-05015A	BT50-ER16B-150	150	28	69.85	ER16
-05107B	BT50-ER20B-70	70	34	69.85	ER20
-05110B	BT50-ER20B-100	100	34	69.85	ER20
-05115B	BT50-ER20B-150	150	34	69.85	ER20
-05120B	BT50-ER20B-200	200	34	69.85	ER20
-05207C	BT50-ER25B-70	70	42	69.85	ER25
-05210C	BT50-ER25B-100	100	42	69.85	ER25
-05215C	BT50-ER25B-150	150	42	69.85	ER25
-05308D	BT50-ER32B-80	80	50	69.85	ER32
-05310D	BT50-ER32B-100	100	50	69.85	ER32
-05315D	BT50-ER32B-150	150	50	69.85	ER32
-05320D	BT50-ER32B-200	200	50	69.85	ER32
-05408E	BT50-ER40B-80	80	63	69.85	ER40
-05410E	BT50-ER40B-100	100	63	69.85	ER40
-05415E	BT50-ER40B-150	150	63	69.85	ER40

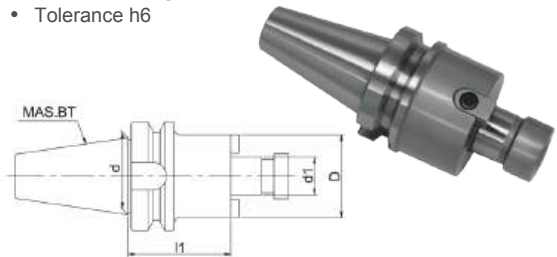
BT Power Milling Chucks



Order Code TFAC17	Model	D	D1	L	L1	Collet
-04210W	BT40-HEC32B-105	63	73	105	78	C32
-05211W	BT50-HEC32B-110	100	73	110	72	C32
-05213W	BT50-HEC32B-135	100	73	135	97	C32
-05216W	BT50-HEC32B-165	100	73	165	127	C32
-05311W	BT50-HEC42B-110	100	95	110	72	C42
-05313W	BT50-HEC42B-130	100	95	130	92	C42

BT/FMB Face Mill Adapters

- The face milling cutter is with parts(d1) shaft
- Tolerance h6



Order Code TFAC20	Model	d1	D	l1	d
-03004A	BT30-FMB22B-45	22	48	45	31.8
-03006A	BT30-FMB22B-60	22	48	60	31.8
-03104B	BT30-FMB27B-45	27	60	45	31.8
-03106B	BT30-FMB27B-60	27	60	60	31.8
-03204C	BT30-FMB32B-45	32	78	45	31.8
-04004A	BT40-FMB22B-45	22	48	45	44.45
-04006A	BT40-FMB22B-60	22	48	60	44.45
-04010A	BT40-FMB22B-100	22	48	100	44.45
-04104B	BT40-FMB27B-45	27	60	45	44.45
-04106B	BT40-FMB27B-60	27	60	60	44.45
-04110B	BT40-FMB27B-100	27	60	100	44.45
-04204C	BT40-FMB32B-45	32	78	45	44.45
-04206C	BT40-FMB32B-60	32	78	60	44.45
-04306D	BT40-FMB40B-60	40	80	60	44.45
-05004A	BT50-FMB22B-45	22	48	45	69.85
-05010A	BT50-FMB22B-100	22	48	100	69.85
-05015A	BT50-FMB22B-150	22	48	150	69.85
-05020A	BT50-FMB22B-200	22	48	200	69.85
-05025A	BT50-FMB22B-250	22	48	250	69.85
-05105B	BT50-FMB27B-50	27	60	50	69.85
-05110B	BT50-FMB27B-100	27	60	100	69.85
-05115B	BT50-FMB27B-150	27	60	150	69.85
-05120B	BT50-FMB27B-200	27	60	200	69.85
-05125B	BT50-FMB27B-250	27	60	250	69.85
-05205C	BT50-FMB32B-50	32	78	50	69.85
-05210C	BT50-FMB32B-100	32	78	100	69.85
-05305D	BT50-FMB40B-50	40	89	50	69.85
-05309D	BT50-FMB40B-90	40	89	90	69.85

BT/MTA Morse Taper Adapters

- For tools with Morse Taper shank & tang

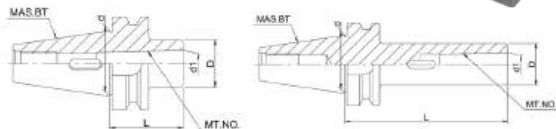


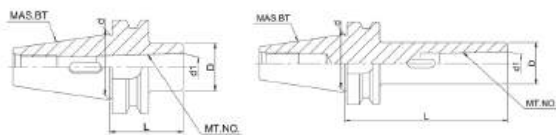
Figure 1

Figure 2

Order Code TFAC21	Model	MT No.	L	D	d	d1	Figure Drawing
-03104A	BT30-MTA1-45	#1	45	25	31.8	12.065	1
-03110A	BT30-MTA1-105	#1	105	25	31.8	12.065	2
-03206B	BT30-MTA2-60	#2	60	32	31.8	17.78	1
-03212B	BT30-MTA2-120	#2	120	32	31.8	17.78	2
-03308C	BT30-MTA3-80	#3	80	40	31.8	23.825	1
-04105A	BT40-MTA1-45	#1	45	25	44.45	12.065	1
-04112A	BT40-MTA1-120	#1	120	25	44.45	12.065	2
-04205B	BT40-MTA2-50	#2	50	32	44.45	17.78	1
-04212B	BT40-MTA2-120	#2	120	32	44.45	17.78	2
-04307C	BT40-MTA3-70	#3	70	40	44.45	23.825	1
-04313C	BT40-MTA3-135	#3	135	40	44.45	23.825	2
-04409D	BT40-MTA4-95	#4	95	48	44.45	31.267	1
-04416D	BT40-MTA4-165	#4	165	48	44.45	31.267	2
-05104A	BT50-MTA1-45	#1	45	25	69.85	12.065	1
-05112A	BT50-MTA1-120	#1	120	25	69.85	12.065	2
-05118A	BT50-MTA1-180	#1	180	25	69.85	12.065	2
-05206B	BT50-MTA2-60	#2	60	32	69.85	17.78	1
-05213B	BT50-MTA2-135	#2	135	32	69.85	17.78	2
-05218B	BT50-MTA2-180	#2	180	32	69.85	17.78	2
-05306C	BT50-MTA3-65	#3	65	40	69.85	23.825	1
-05315C	BT50-MTA3-150	#3	150	40	69.85	23.825	2
-05318C	BT50-MTA3-180	#3	180	40	69.85	23.825	2
-05409D	BT50-MTA4-95	#4	95	48	69.85	31.267	1
-05418D	BT50-MTA4-180	#4	180	48	69.85	31.267	2

BT/MTB Morse Taper Adapters

- For tools with Morse Taper shank & tang



Supplied with special BT pull stud

Optional BT pull stud

Order Code TFAC22	Model	MT No.	L	D	d	d1	G	Figure Drawing
-03104A	BT30-MTB1-45	#1	45	25	31.8	12.065	M6 x 1	1
-03206B	BT30-MTB2-60	#2	60	32	31.8	17.78	M10 x 1.5	2
-04104A	BT40-MTB1-45	#1	45	25	44.45	12.065	M6 x 1	1
-04204B	BT40-MTB2-45	#2	45	32	44.45	17.78	M10 x 1.5	1
-04307C	BT40-MTB3-75	#3	75	40	44.45	23.825	M12 x 1.75	2
-04309C	BT40-MTB4-90	#4	90	48	44.45	31.267	M16 x 2	2
-05104A	BT50-MTB1-45	#1	45	25	69.85	12.065	M6 x 1	1
-05204B	BT50-MTB2-45	#2	45	32	69.85	17.78	M10 x 1.5	1
-05306C	BT50-MTB3-60	#3	60	40	69.85	23.825	M12 x 1.75	1
-05407D	BT50-MTB4-75	#4	75	50	69.85	31.267	M16 x 2	1

HSK-A Test Bars



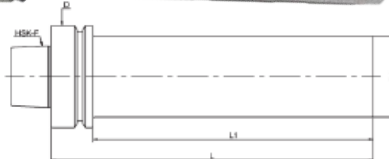
Order Code TFAC67	Model	L	L1	D	D1
-14318H	HSK40A-32-L180SD	180	160	40	32
-15324H	HSK50A-32-L240SD	240	214	50	32
-16520H	HSK63A-50-L200SD	200	174	63	50
-16535H	HSK63A-50-L350SD	350	324	63	50
-17520H	HSK100A-50-L200SD	200	171	100	50
-17535H	HSK100A-50-L350SD	350	321	100	50

HSK-E Test Bars



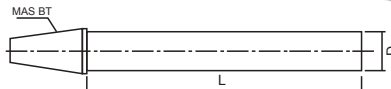
Order Code TFAC67	Model	L	L1	D	D1
-22217H	HSK25E-20-L175	175	165	25	20
-23218H	HSK32E-20-L180	180	160	32	20
-24318H	HSK40E-32-L180	180	160	40	32
-25324H	HSK50E-32-L240	240	214	50	32

HSK-63F Test Bars



Order Code TFAC67	Model	L	L1	D	D1
-36520H	HSK63F-50-L200	200	174	63	50
-36535H	HSK63F-50-L350	350	324	63	50

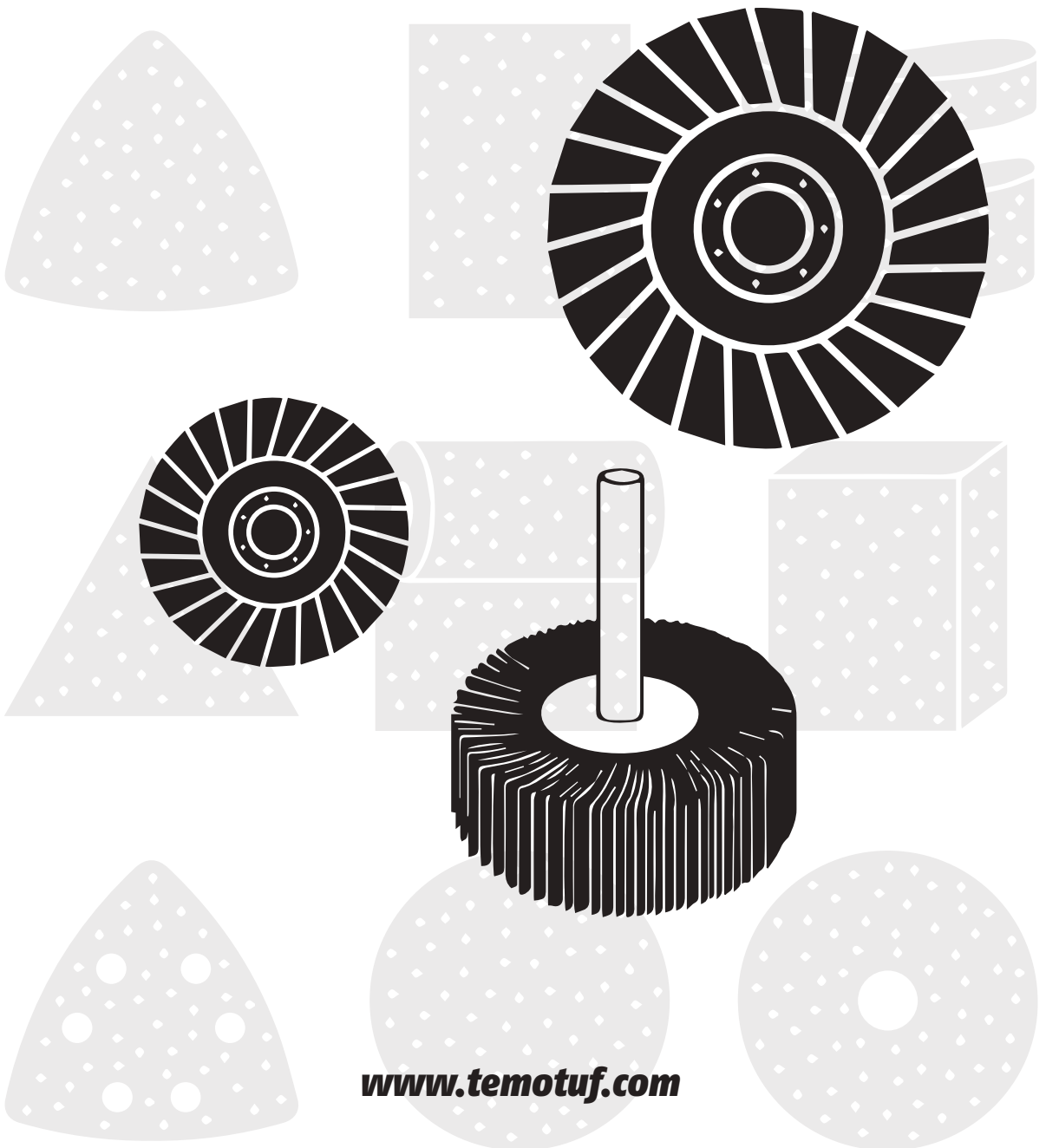
BT Test Bars



Order Code TFAC67	Model	D	L
-53325B	BT30-30-250L	30	250
-54430B	BT40-40-300L	40	300
-55531B	BT50-50-315L	50	315

TEMOTUF™

Abrasives



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Reinforced Resin Grinding Discs (T27)

- Made of quality raw aluminum oxide grain, reinforced resin bonded
- For general metal grinding applications on ferrous and non-ferrous metals, including weld and surface preparation
- For use with angle grinders
- Linear velocity: 80m/s
- Comply with EN12413
- 5pcs per pack

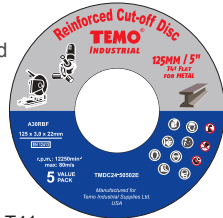


T27

Order Code TFDC21	Grit (mm)	Diameter (mm)	Thickness (mm)	Bore Diameter (mm)
-30501E	A24RBF	100	4	9.6
-50501E	A24RBF	125	6	22
-60501E	A24RBF	150	6	22
-70501E	A24RBF	180	6	22

Reinforced Resin Cutting Discs (T41)

- Made of quality raw aluminum oxide grain, reinforced resin bonded
- Ideal for cutting carbon steel, stainless steel, aluminum or various other metals. Premium resin bond and reinforced fiberglass help increase life length. Open, non-woven structure increases flexibility and reduces heat build-up.
- For use with angle grinders
- Linear velocity: 80m/s
- Comply with EN12413
- 5pcs per pack

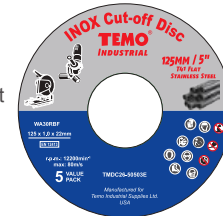


T41

Order Code TFDC24	Grit (mm)	Diameter (mm)	Thickness (mm)	Bore Diameter (mm)
-30502E	A30RBF	100	3	16
-50502E	A30RBF	125	3	22
-60502E	A30RBF	150	3	22
-70502E	A30RBF	180	3	22
-90502E	A30RBF	335	3	25.4

Reinforced Resin Extra-Thin Cutting Discs for Stainless Steel (T41)

- Made of quality raw aluminum oxide grain, reinforced resin bonded
- Ultra thin design enable to achieve fast precise cutting with minimal material loss, and make the burr-free cutting edges possible.
- Optimized for cutting various ferrous and non-ferrous metal, including alloy steel, stainless steel, HSS, iron, angle iron, cast iron, welds, aluminum, brass, bronze etc.
- For use with angle grinders
- Linear velocity: 80m/s
- Comply with EN12413
- 5pcs per pack



T41

Order Code TFDC26	Grit (mm)	Diameter (mm)	Thickness (mm)	Bore Diameter (mm)
-30503E	WA60RBF	100	1.0	16
-50503E	WA60RBF	125	1.0	22
-60503E	WA60RBF	150	1.0	22
-70503E	WA60RBF	180	1.6	22

Nylon Clean & Strip CNS wheels

Color Classification:

Black - low density, used to remove light coatings and clean. Can be used on stainless steel, low carbon steel, aluminum, plastic, cement, wood and stone surfaces

Blue - Medium density, the hardness between purple and black wheels, used to remove rust, polish the corrosive surfaces, clean the concrete surface. Suitable for shipbuilding and bridge industries etc.

Purple - high density, used to clean welding slag and line or deburring on metals and woods, used to remove severe rust and polish severe corrosive surfaces

CNS Wheels - Fiberglass Backed



Outer Dia.(mm)	Bore Dia. (mm)	Black	Blue	Purple
		Order Code TFGW10	Order Code TFGW10	Order Code TFGW10
100	16	-31010B	-32010B	-33010B
125	22	-51010B	-52010B	-53010B
150	22	-61010B	-62010B	-63010B
180	22	-71010B	-72010B	-73010B

CNS Wheels - Flat



Outer Dia.(mm)	Bore Dia. (mm)	Black	Blue	Purple
		Order Code TFGW11	Order Code TFGW11	Order Code TFGW11
75	6	-21010C	-22010C	-23010C
100	12	-31010C	-32010C	-33010C
125	12	-51010C	-52010C	-53010C
150	16	-61010C	-62010C	-63010C
180	22	-71010C	-72010C	-73010C
200	22	-81010C	-82010C	-83010C

CNS Wheels - Shaft Mounted



Outer Dia.(mm)	Shank Dia.(mm)	Black	Blue	Purple
		Order Code TFGW12	Order Code TFGW12	Order Code TFGW12
50	6	-01010D	-02010D	-03010D
75	6	-21010D	-22010D	-23010D
100	6	-31010D	-32010D	-33010D
125	6	-41010D	-42010D	-43010D

Fiber Discs

- Made of vulcanized fiber that is coated on one side with resin and abrasive grain
- Fitted to back pads and used on angle grinders for fresh removal from welds and metal fabrication
- Widely used in shipbuilding, aviation, automobile, architecture and decoration industries



Zirconium Grade Fiber Discs

- Zirconium fibre discs, with a very aggressive cut. For all metals and in particular for heavy work on welding residues and corners, also suitable for stainless steel and special steels. Long lasting
- 25 pieces per pack

Hole Groove	Outer Dia. (mm)	Bore Dia. (mm)	Thickness (mm)	Grit P60 Order Code TFDC30	Grit P80 Order Code TFDC30	Grit P120 Order Code TFDC30
Round Hole						
	100	16	0.8	-31061Z	-31081Z	-31121Z
	115	22	0.8	-41061Z	-41081Z	-41121Z
	125	22	0.8	-51061Z	-51081Z	-51121Z
	150	22	0.8	-61061Z	-61081Z	-61121Z
	180	22	0.8	-71061Z	-71081Z	-71121Z



Alumium Oxide Fiber Discs

- Ideal for general purpose applications ranging from heavy stock removal to surface blending used with a back-up pad on portable angle grinders
- 25 pieces per pack

Hole Groove	Outer Dia. (mm)	Bore Dia. (mm)	Thickness (mm)	Grit P60 Order Code TFDC31	Grit P80 Order Code TFDC31	Grit P120 Order Code TFDC31
Round Hole						
	100	16	0.8	-31061G	-31081G	-31121G
	115	22	0.8	-41061G	-41081G	-41121G
	125	22	0.8	-51061G	-51081G	-51121G
	150	22	0.8	-61061G	-61081G	-61121G
	180	22	0.8	-71061G	-71081G	-71121G



Silicon Carbide Fiber Discs

- Suitable for marble, cast iron, parquet and glass etc.
- 25 pieces per pack

Hole Groove	Outer Dia. (mm)	Bore Dia. (mm)	Thickness (mm)	Grit P60 Order Code TFDC32	Grit P80 Order Code TFDC32	Grit P120 Order Code TFDC32
Round Hole						
	100	16	0.8	-31061C	-31081C	-31121C
	115	22	0.8	-41061C	-41081C	-41121C
	125	22	0.8	-51061C	-51081C	-51121C
	150	22	0.8	-61061C	-61081C	-61121C
	180	22	0.8	-71061C	-71081C	-71121C



Aluminium Oxide Quick Change Discs

- Providing exceptional grinding, deburring and blending flexibility in smaller areas with a convenient twist-on and off fastening system. This tool-free attachment design makes fast work of disc changes to maximize productivity and minimize downtime.
- Used on working surfaces such as stainless steel, standard steel, alloyed steel, aluminum, nonferrous metals, alloys and cast iron etc.
- Type TR mounting system
- 100pcs per pack



Order Code TFDC22	Diameter (mm)	Grit
-03808A	38	P80
-03810A	38	P100
-03812A	38	P120
-03818A	38	P180
-05003A	50	P36
-05006A	50	P60
-05008A	50	P80
-05010A	50	P100
-05012A	50	P120
-05018A	50	P180
-07503A	75	P36
-07506A	75	P60
-07508A	75	P80
-07510A	75	P100
-07512A	75	P120
-07518A	75	P180

Quick Change Surface Conditioning Discs (Nylon)

- Made up of an open nylon web (non-woven material) impregnated with premium abrasive grains
- These discs are perfect for hard to reach surfaces and odd angles
- Used for deburring and surface prep, gasket removal, coating removal, cleaning weld splatter, removing heat discoloration, blending and finishing, rust removal etc. Useful for final cleaning, deburring, finishing or rust and gasket removal
- Type TR mounting system
- 10pcs per pack



Order Code	Diameter (mm)	Colour	Grade	Grit
TFDC21				
-11010A	50	Brown	Aluminum Oxide	Coarse
-12010A		Red	Aluminum Oxide	Medium
-13010A		Blue	Aluminum Oxide	Fine
-14010A		Grey	Silicon Carbide	X-Fine
-21010A	75	Brown	Aluminum Oxide	Coarse
-22020A		Red	Aluminum Oxide	Medium
-23030A		Blue	Aluminum Oxide	Fine
-24040A		Grey	Silicon Carbide	X-Fine

6mm(1/4") Holder

Order Code	Diameter (mm)	Shank Diameter (mm)
TFDC00		
-60050P	50	6
-60075P	75	6

Surface Conditioning Discs (Hook & Loop)

- Made up of an open nylon web (non-woven material) impregnated with premium abrasive grains
- These discs are perfect for hard to reach surfaces and odd angles
- Used for deburring and surface prep, gasket removal, coating removal, cleaning weld splatter, removing heat discoloration, blending and finishing, rust removal etc. Useful for final cleaning, deburring, finishing or rust and gasket removal
- 10pcs per pack



Order Code	Diameter (mm)	Colour	Grade	Grit
TFDC20				
-41001A	115	Brown	Aluminum Oxide	Coarse
-42002A		Red	Aluminum Oxide	Medium
-43003A		Blue	Aluminum Oxide	Fine
-44004A		Grey	Silicon Carbide	X-Fine
-51001A	125	Brown	Aluminum Oxide	Coarse
-52002A		Red	Aluminum Oxide	Medium
-53003A		Blue	Aluminum Oxide	Fine
-54004A		Grey	Silicon Carbide	X-Fine
-61001A	150	Brown	Aluminum Oxide	Coarse
-62002A		Red	Aluminum Oxide	Medium
-63003A		Blue	Aluminum Oxide	Fine
-64004A		Grey	Silicon Carbide	X-Fine
-81001A	200	Brown	Aluminum Oxide	Coarse
-82002A		Red	Aluminum Oxide	Medium
-83003A		Blue	Aluminum Oxide	Fine
-84004A		Grey	Silicon Carbide	X-Fine

Hand Pads

Colour	Abrasive	Grit	Features
White	Non-abrasive	/	Ideal for polishing and light cleaning
Green	Aluminium Oxide	Industrial Fine	Ideal for removing buildup of rust or corrosion. May be used with most solvents
Maroon	Aluminium Oxide	Fine	Ideal for basic cleaning and finishing. May be used with most solvents
Grey	Silicon Carbide	X-Fine	Ideal for final high quality polishing
Black	Aluminium Oxide	Medium	Heavy-duty cleaning or fast action finishing. May be used with most solvents
Tan	Aluminium Oxide	Coarse	Ideal for stainless steel, aluminum etc. Used to replace steel wool, wire brushes, flap wheels and similar products

- Premium non-woven synthetic webbing
- Durable and long lasting
- Washable and reusable
- Easily cut
- Non-clogging
- Can be used with water or solvents
- Pad size: 155 x 225mm
- 10pcs per pack



Order Code	Colour	Grit
TFDC60		
-00010B	White	/
-03020B	Green	Industrial-Fine
-03030B	Maroon	Very Fine
-05040B	Grey	X-Fine
-02050B	Black	Medium
-01060B	Tan	Coarse

Non-Woven Flap Wheels

- Ideal for conforming to concave, flat, and irregular surfaces.
- Create matte and satin finishes without lines on work piece
- Excellent for blending, cleaning welds, and removing corrosion, rust, or scaling
- 5pcs per pack

General

Mainly used for polishing, deburring



Interleaf

Mainly used for roughing, rust removal



General	Interleaf	Dia. (mm)	THK (mm)	Shank Dia. (mm)	Max Speed (r/min)	Grit
TFGW10	TFGW11					
-15025A	-25025A	50	25	6	11000	Coarse
-15025B	-25025B					Medium
-15025C	-25025C					Fine
-15050A	-25050A	50	50	6	11000	Coarse
-15050B	-25050B					Medium
-15050C	-25050C					Fine
-17525A	-27525A	75	25	6	8000	Coarse
-17525B	-27525B					Medium
-17525C	-27525C					Fine
-17550A	-27550A	75	50	6	8000	Coarse
-17550B	-27550B					Medium
-17550C	-27550C					Fine

Flap Wheels

- These soft cloth flap wheels are ideal for deburring, blending parting lines and polishing
- Best for hard to reach areas and inside and outside tube diameters
- Use on all ferrous and non-ferrous materials, stainless steel, iron, brass, aluminum, plastic, fiberglass, wood and glass
- MPQ: 10pcs



Dia. (mm)	Thickness (mm)	Shank Dia. (mm)	Grit P60	Grit P80	Grit P120
			Order Code TFGW20	Order Code TFGW20	Order Code TFGW20
25	10	3	-12510A	-12510B	-12510C
30	10	3	-13010A	-13010B	-13010C
30	15	3	-13015A	-13015B	-13015C
30	15	6	-13016A	-13016B	-13016C
25	25	6	-12525A	-12525B	-12525C
30	25	6	-13025A	-13025B	-13025C
30	30	6	-13030A	-13030B	-13030C
40	10	6	-14010A	-14010B	-14010C
40	15	6	-14015A	-14015B	-14015C
40	20	6	-14020A	-14020B	-14020C
40	25	6	-14025A	-14025B	-14025C
40	50	6	-14050A	-14050B	-14050C
50	25	6	-15025A	-15025B	-15025C
50	50	6	-15050A	-15050B	-15050C
60	20	6	-16020A	-16020B	-16020C
60	25	6	-16025A	-16025B	-16025C
60	50	6	-16050A	-16050B	-16050C
80	25	6	-18025A	-18025B	-18025C
80	50	6	-18050A	-18050B	-18050C

Felt Flap Wheels

- These felt flap wheels are a very versatile buffing product made with 100% Australian wool
- Choose the correct buffing compound or polishing paste and they can get a perfect finish on most materials including ferrous & non-ferrous materials as well as stones, plastics and glass
- These felt flap wheels are used in the final stage of polishing for a high gloss or mirror finish
- MPQ: 10pcs



Order Code TFGW40	Dia. (mm)	Thickness (mm)	Shank Dia. (mm)
-13025F	30	25	6
-14025F	40	25	6
-15025F	50	25	6
-16025F	60	25	6
-18025F	80	25	6

T27 Flap Discs

- Widely used in processing industries such as daily hardware, tank processing, automotive, train and shipbuilding, mainly to remove the oxide layer, rust, welding spots from the surface
- MPQ: 5pcs

Alumium Oxide

Best for steel and all general metals

Zirconium

Best for stainless steel

Silicon Carbide

Best for marble and glass etc



T27

Dia. (mm)	Bore Dia. (mm)	Grit P40	Grit P60	Grit P80	Grit P120
		Order Code TFDC70	Order Code TFDC70	Order Code TFDC70	Order Code TFDC70
Alumium Oxide					
100	16	-30410G	-30610G	-30810G	-31210G
125	22	-50411G	-50611G	-50811G	-51211G
150	22	-60412G	-60612G	-60812G	-61212G
180	22	-70413G	-70613G	-70813G	-71213G
Zirconium					
100	16	-30410Z	-30610Z	-30810Z	-31210Z
125	22	-50411Z	-50611Z	-50811Z	-51211Z
150	22	-60412Z	-60612Z	-60812Z	-61212Z
180	22	-70413Z	-70613Z	-70813Z	-71213Z
Silicon Carbide					
100	16	-30410C	-30610C	-30810C	-31210C
125	22	-50411C	-50611C	-50811C	-51211C
150	22	-60412C	-60612C	-60812C	-61212C
180	22	-70413C	-70613C	-70813C	-71213C

T27 Surface Conditioning Flap Discs for Stainless Steel

- Made with premium surface conditioning material for surface preparation and is great for blending, finishing, deburring, rust removal and cleaning
- Suitable for stainless steel and steel
- MPQ: 5pcs



T27

Order Code TFDC10	Dia. (mm)	Bore Dia. (mm)	Grit	Max Speed (rpm)
-41010B	115	22	Coarse	13,300
-42011B	115	22	Medium	13,300
-43012B	115	22	Fine	13,300
-51020B	125	22	Coarse	12,200
-52021B	125	22	Medium	12,200
-53022B	125	22	Fine	12,200

T27 Curved Flap Discs

- This unique flap disc has a curved edge for grinding in corners and tight spaces where standard discs won't work. It can also be used for all other standard flap disc applications
- Designed for grinding, blending, sanding and finishing on a wide range of materials

Cloth	Suitable Working Surface
Reinforced Aluminum Oxide	Alloy steel, carbon steel, aluminum, non-ferrous metals, alloys, plastic, wood etc.
100% Zirconium	Stainless steel, alloy steel, non-alloy steel, aluminum, non-ferrous metals, alloys, structural steel, cast iron and titanium etc.
Top Ceramic	Designed for aggressive grinding with maximum stock removal to steel, stainless steel or aluminum etc. Top coat additives improve stock removal, prevent clogging and allow cooler grinding. It gives significantly longer life than resin fiber discs

- MPQ: 5pcs



Dia x Bore dia (mm)	Max speed (rpm)	Grit P40	Grit P60	Grit P80	Grit P120
		Order Code TFDC72	Order Code TFDC72	Order Code TFDC72	Order Code TFDC72
Reinforced Aluminum Oxide					
100 x 16	15,300	-10401G	-10601G	-10801G	-11201G
115 x 22	13,300	-10403G	-10603G	-10803G	-11203G
125 x 22	12,200	-10405G	-10605G	-10805G	-11205G
150 x 22	10,200	-10406G	-10606G	-10806G	-11206G
180 x 22	8,500	-10407G	-10607G	-10807G	-11207G
100% Zirconium					
100 x 16	15,300	-30401Z	-30601Z	-30801Z	-31201Z
115 x 22	13,300	-30403Z	-30603Z	-30803Z	-31203Z
125 x 22	12,200	-30405Z	-30605Z	-30805Z	-31205Z
150 x 22	10,200	-30406Z	-30606Z	-30806Z	-31206Z
180 x 22	8,500	-30407Z	-30607Z	-30807Z	-31207Z
Top Ceramic					
100 x 16	15,300	-40401R	-40601R	-40801R	-41201R
115 x 22	13,300	-40403R	-40603R	-40803R	-41203R
125 x 22	12,200	-40405R	-40605R	-40805R	-41205R
150 x 22	10,200	-40406R	-40606R	-40806R	-41206R
180 x 22	8,500	-40407R	-40607R	-40807R	-41207R

Sanding Belts

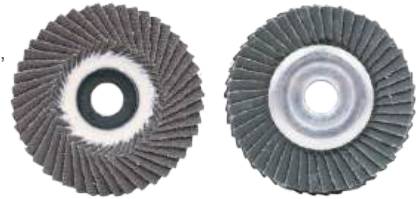
- Made of tough, durable abrasive grain. This type of grain is well suitable for a wide range of ferrous and non-ferrous metals, stainless steel as well as on soft and hard woods
- Sturdy cloth backing for reliable performance
- Highly flexible backing
- Please purchase according to MPQ (minimum pack quantity)



T27 Flexible Discs - Korean Type

- This flap disc is made of quality calcined aluminum oxide or zirconium with cloth backing, by overlapping coated abrasive flaps and adhering flaps firmly to a backup plate. Owing to its design the layer of abrasive are constantly being exposed, and a very consistent finish is provided during the life of the disc. These flap discs are recommended for high speed sanding and heavy duty removal on the materials such as stainless steel, carbon steel and aluminum etc.
- Widely used on alloyed and unalloyed steel, aluminum, non-ferrous metal and alloys, steel, plastic and wood etc.

- MPQ: 5pcs



Dia x Bore dia (mm)	Max speed (rpm)	Grit P40	Grit P60	Grit P80	Grit P120
		Order Code TFDC73	Order Code TFDC73	Order Code TFDC73	Order Code TFDC73
Reinforced Aluminum Oxide					
100 x 16	15,300	-20401G	-20601G	-20801G	-
115 x 22	13,300	-20403G	-20603G	-20803G	-21203G
125 x 22	12,200	-20405G	-20605G	-20805G	-21205G
165 x 22	9,300	-20407G	-20607G	-20807G	-21207G
100% Zirconium					
100 x 16	15,300	-40401Z	-40601Z	-40801Z	-
115 x 22	13,300	-40403Z	-40603Z	-40803Z	-41203Z
125 x 22	12,200	-40405Z	-40605Z	-40805Z	-41205Z
165 x 22	9,300	-40407Z	-40607Z	-40807Z	-41207Z

Width x Length (mm)	Grit P40	Grit P60	Grit P80	Grit P120	MPQ (Pcs/Pk)
	Order Code TFAB02	Order Code TFAB02	Order Code TFAB02	Order Code TFAB02	
Reinforced Aluminum Oxide					
6 x 330	-04005G	-06005G	-08005G	-12005G	100
10 x 330	-04010G	-06010G	-08010G	-12010G	100
20 x 520	-04015G	-06015G	-08015G	-12015G	20
25 x 610	-04020G	-06020G	-08020G	-12020G	10
50 x 915	-04025G	-06025G	-08025G	-12025G	10
50 x 1220	-04030G	-06030G	-08030G	-12030G	10
50 x 1520	-04035G	-06035G	-08035G	-12035G	10
50 x 2745	-04040G	-06040G	-08040G	-12040G	10
75 x 2000	-04045G	-06045G	-08045G	-12045G	10
100 x 610	-04050G	-06050G	-08050G	-12050G	10
100 x 1520	-04055G	-06055G	-08055G	-12055G	10
100 x 2745	-04060G	-06060G	-08060G	-12060G	10
150 x 1220	-04065G	-06065G	-08065G	-12065G	10
150 x 1520	-04070G	-06070G	-08070G	-12070G	10
100% Zirconium					
6 x 330	-04005Z	-06005Z	-08005Z	-12005Z	100
10 x 330	-04010Z	-06010Z	-08010Z	-12010Z	100
20 x 520	-04015Z	-06015Z	-08015Z	-12015Z	20
25 x 610	-04020Z	-06020Z	-08020Z	-12020Z	10
50 x 915	-04025Z	-06025Z	-08025Z	-12025Z	10
50 x 1220	-04030Z	-06030Z	-08030Z	-12030Z	10
50 x 1520	-04035Z	-06035Z	-08035Z	-12035Z	10
50 x 2745	-04040Z	-06040Z	-08040Z	-12040Z	10
75 x 2000	-04045Z	-06045Z	-08045Z	-12045Z	10
100 x 610	-04050Z	-06050Z	-08050Z	-12050Z	10
100 x 1520	-04055Z	-06055Z	-08055Z	-12055Z	10
100 x 2745	-04060Z	-06060Z	-08060Z	-12060Z	10
150 x 1220	-04065Z	-06065Z	-08065Z	-12065Z	10
150 x 1520	-04070Z	-06070Z	-08070Z	-12070Z	10

T27 Felt Polishing Flap Discs

- High-precision polishing of surfaces such as stainless steel, carbon steel, aluminum, glass, plastic, marble, stone, etc.
- Particularly suitable for polishing applications on unconventional surfaces and curved surfaces.
- Made of 100% Australian wool, reinforced with a fiberglass backing.
- Used in combination with polishing wax, it can achieve a top-grade mirror finish.
- Minimum packaging quantity: 5 pieces.

** Different thicknesses can be customized according to customer requirements.

Radial



Vertical



Dia (mm)	Bore dia (mm)	Thickness (mm)	Recommended Speed (rpm)	Radial	Vertical
				Order Code TFDC40	Order Code TFDC40
100	15	5	15,300	-10105F	-20105F
100	16	5	15,300	-10205F	-20205F
115	22	5	13,300	-10705F	-20705F
125	22	5	12,200	-11405F	-21405F
180	22	5	8,500	-12805F	-22805F

T27 Flat Wool Polishing Discs

- High-precision polishing of surfaces such as stainless steel, carbon steel, aluminum, glass, plastic, marble, stone, etc.
- Made of 100% Australian wool, reinforced with a fiberglass backing.
- Minimum packaging quantity: 5 pieces.

** Different thicknesses can be customized according to customer requirements.



Dia (mm)	Bore dia (mm)	Recommended Speed (rpm)	10mm Thickness	15mm Thickness	20mm Thickness
			Order Code TFDC41	Order Code TFDC41	Order Code TFDC41
100	15	15,300	-10110F	-10115F	-10120F
100	16	15,300	-10210F	-10215F	-10220F
115	22	13,300	-10710F	-10715F	-10720F
125	22	12,200	-11410F	-11415F	-11420F
180	22	8,500	-12810F	-12815F	-12820F

Quick Change Felt Discs

- High-precision surface polishing for stainless steel, carbon steel, aluminum, glass, plastic, marble, stone, and other materials.
- Made of 100% Australian wool.
- Installation method: screw-on.

** Customizable thickness based on customer requirements.

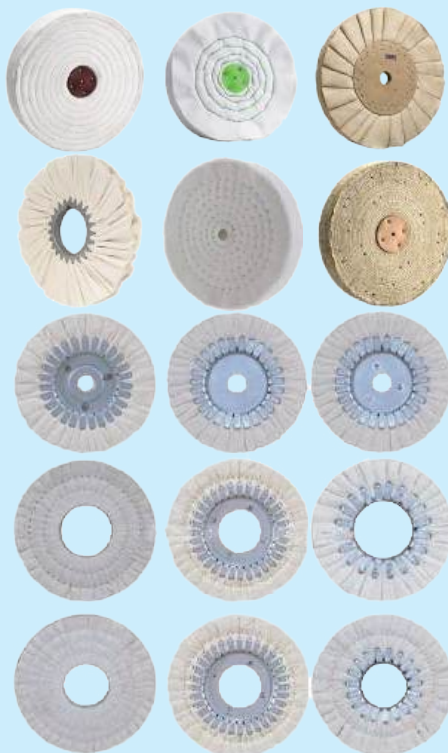


Dia (mm)	Recommended Speed (rpm)	Minimum packing (Pcs/Pk)	10mm Thickness	15mm Thickness	20mm Thickness
			Order Code TFDC42	Order Code TFDC42	Order Code TFDC42
25	30,000	100	-02510F	-02515F	-02520F
40	30,000	50	-04010F	-04015F	-04020F
50	22,000	20	-05010F	-05015F	-05020F
75	22,000	20	-07510F	-07515F	-07520F

TEMO® Cloth & Sisal Wheels

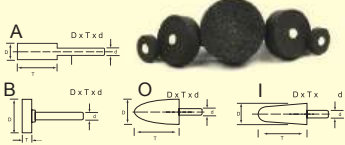
- Our company provides a wide range of cloth wheels and sisal wheels for various materials and applications, offering excellent quality that meets the needs of industrial customers. Our range includes airway wheels, jewelry wheels, sewn wheels, loose wheels, mini wheels, sisal wheels, razor edge wheels, cloth rolls, felt bobs, gobeltes, tapered and cylinder buffs etc.
- To use with buffing compound can achieve a smooth and mirror finish on a widely variety items surfaces, help you handle most kinds of projects.

** Cloth (sisal) wheels are often customized products, and we welcome inquiries and price requests.



Resin Bonded Mounted Points for Stainless Steel

- Ideal for fast stock removal in tough and aggressive applications
- These resin mounted points have a vibration reducing effect due to their composition and therefore boast low impact sensitivity. Due to their special quality, these points are best suited to deburring, beveling and edge breaking on stainless steel.
- MPQ: 10pcs



Order Code TFGW25	Shape	Diameter D (mm)	Length T (mm)	Dia. d (mm)
-10196A	A	10	19	6
-10256A	A	10	25	6
-10326A	A	10	32	6
-13256A	A	13	25	6
-13286A	A	13	38	6
-16256A	A	16	25	6
-16326A	A	16	32	6
-16326Q	O	16	32	6
-16386A	A	16	38	6
-19196A	A	19	19	6
-19256A	A	19	25	6
-19326A	A	19	32	6
-19386A	A	19	38	6
-19386Q	O	19	38	6
-19386R	I	19	38	6
-25106B	B	25	10	6
-25256A	A	25	25	6
-25326A	A	25	32	6
-25386A	A	25	38	6
-25386Q	O	25	38	6
-25506A	A	25	50	6
-25506Q	O	25	50	6
-25506R	I	25	50	6
-28326A	A	28	32	6
-32106B	B	32	10	6
-32136B	B	32	13	6
-32256B	B	32	25	6
-32036B	B	32	3	6
-32386A	A	32	38	6
-32506A	A	32	50	6
-32506Q	O	32	50	6
-38086B	B	38	8	6
-38136B	B	38	13	6
-38196B	B	38	19	6
-38256B	B	38	25	6
-38386A	A	38	38	6
-45066B	B	45	6	6
-45106B	B	45	10	6
-50066B	B	50	6	6
-50106B	B	50	10	6
-50136B	B	50	13	6
-50196B	B	50	19	6
-50256B	B	50	25	6
-60066B	B	60	6	6

Blue Grade Mounted Points

- Blue grade mounted points are made of premium aluminum oxide grains and known for their strength & rigidity
- Can hold their shape well, yet cut fast and accurate, good for chrome and non-precious alloys
- MPQ: 10pcs














Series A (6mm Shank)












Shape	Order Code TFGW26	Diameter (mm)	Length (mm)	Dia. (mm)
A1	-10001A	20	63	6
A2	-10002A	25	32	6
A3	-10003A	25	70	6
A4	-10004A	32	32	6
A5	-10005A	20	28	6
A6	-10006A	19	28	6
A11	-10011A	21	50	6
A12	-10012A	18	32	6
A13	-10013A	28	28	6
A14	-10014A	18	22	6
A15	-10015A	6	28	6
A21	-10021A	25	25	6
A22	-10022A	19	16	6
A23	-10023A	19	25	6
A24	-10024A	6	22	6
A25	-10025A	25	25	6
A26	-10026A	16	16	6
A31	-10031A	35	25	6
A32	-10032A	25	16	6
A33	-10033A	25	13	6
A34	-10034A	38	9	6
A35	-10035A	25	10	6
A36	-10036A	40	10	6
A37	-10037A	32	6	6
A38	-10038A	25	25	6
A39	-10039A	19	19	6

Series B & W (3mm Shank)

Shape	Order Code TFGW26	Diameter (mm)	Length (mm)	Dia. (mm)
B41	-00041B	16	16	3
B42	-00042B	13	19	3
B43	-00043B	6	8	3
B44	-00044B	6	10	3
B45	-00045B	5	8	3
B52	-00052B	10	20	3
B53	-00053B	8	14	3
B54	-00054B	6	13	3
B55	-00055B	3	6	3
B61	-00061B	19	8	3
B70	-00070B	19	3	3
B71	-00071B	16	2	3
B73	-00073B	13.5	3	3
B81	-00081B	19	5	3
B82	-00082B	13	6	3
B91	-00091B	13	16	3
B92	-00092B	6	6	3
B96	-00096B	3	6	3
B97	-00097B	3	10	3
B122	-00122B	10	10	3
B123	-00123B	5	5	3
B131	-00131B	13	13	3
B132	-00132B	10	13	3
B133	-00133B	10	10	3
B135	-00135B	6	11	3
W144	-00144W	3	6	3
W145	-00145W	3	10	3
W146	-00146W	3	13	3
W152	-00152W	5	6	3
W153	-00153W	5	10	3
W154	-00154W	5	13	3
W160	-00160W	6	6	3
W162	-00162W	6	10	3
W163	-00163W	6	13	3
W164	-00164W	6	19	3
W170	-00170W	8	13	3
W175	-00175W	10	10	3
W176	-00176W	10	13	3

Series W (6mm Shank)

Shape	Order Code TFGW26	Diameter (mm)	Length (mm)	Dia. (mm)
 W185	-10185W	13	13	6
 W186	-10186W	13	19	6
 W187	-10187W	13	25	6
 W188	-10188W	13	38	6
 W189	-10189W	13	50	6
 W196	-10196W	16	25	6
 W200	-10200W	19	3	6
 W204	-10204W	19	19	6
 W205	-10205W	19	25	6
 W208	-10208W	19	50	6
 W215	-10215W	25	3	6

Shape	Order Code TFGW26	Diameter (mm)	Length (mm)	Dia. (mm)
 W218	-10218W	25	13	6
 W220	-10220W	25	25	6
 W221	-10221W	25	38	6
 W222	-10222W	25	50	6
 W225	-10225W	32	6	6
 W230	-10230W	32	32	6
 W235	-10235W	38	6	6
 W236	-10236W	38	13	6
 W237	-10237W	38	25	6
 W238	-10238W	38	38	6
 W242	-10242W	50	25	6

**Resin Bonded Mounted Point Sets
5 Piece Set**

Order Code TFGW25	Shape	Dia. (mm)	Length (mm)	Shank Dia. (mm)	Qty.
-80005T	A	10	25	6	1
	A	16	32	6	1
	A	19	32	6	1
	B	25	10	6	1
	B	32	10	6	1



8 Piece Set

Order Code TFGW25	Shape	Dia. (mm)	Length (mm)	Shank Dia. (mm)	Qty.
-80008T	A	10	25	6	1
	A	16	32	6	1
	A	19	32	6	1
	B	25	10	6	1
	B	32	10	6	1
	I	19	38	6	1
	O	16	32	6	1
	O	19	38	6	1



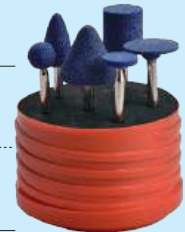
10 Piece Set

Order Code TFGW25	Shape	Dia. (mm)	Length (mm)	Shank Dia. (mm)	Qty.
-80010T	A	10	19	6	1
	A	10	25	6	1
	A	13	25	6	1
	A	19	32	6	1
	B	25	10	6	1
	A	25	25	6	1
	B	32	10	6	1
	B	32	13	6	1
	O	16	32	6	2



**Blue Grade Mounted Point Sets
6 Piece Set**

Order Code TFGW26	Shape	Dia. (mm)	Length (mm)	Shank Dia. (mm)	Qty.
-80006T	A5	20	28	6	1
	A25	25	25	6	1
	A26	16	16	6	1
	A37	32	6	6	1
	A11	21	50	6	1
	W178	10	25	6	1



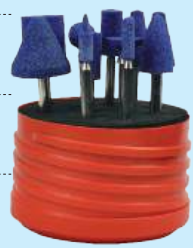
8 Piece Set

Order Code TFGW26	Shape	Dia. (mm)	Length (mm)	Shank Dia. (mm)	Qty.
-80008T	A4	32	32	6	1
	A5	20	28	6	1
	A11	21	50	6	1
	A25	25	25	6	1
	A26	16	16	6	1
	A37	32	6	6	1
	A38	25	25	6	1
	W178	10	25	6	1



12 Piece Set

Order Code TFGW26	Shape	Dia. (mm)	Length (mm)	Shank Dia. (mm)	Qty.
-80012T	A4	32	32	6	1
	A5	20	28	6	1
	A11	21	50	6	1
	A15	6	28	6	1
	A24	6	22	6	1
	A26	16	16	6	1
	A37	32	6	6	1
	A38	25	25	6	1
	W178	10	25	6	1
	W187	13	25	6	1
	W201	19	6	6	1
	W217	25	10	6	1



Flex-hone Brushes

- The brush tool is a perfect solution for many of your finishing, deburring and edge-bending needs. Available in a variety of sizes and abrasive types, our tools provide a superior surface finish on any base material.
- The elimination of peaks results in rapid ring seating, better oil control, reduced seepage in hydraulic and pneumatic applications and provides better seal performance and longer seal life. Successful applications include firearm chambers, shotgun barrels, musical instruments, combustion chambers, air compressors, pumps, valve bodies, valve guides, brake cylinders, wheel cylinders and so on. They are also very effective for deburring cross drilled holes, port radiusing and edge blending.
- Self-centering, self-aligning, self-compensating for wear
- Use by hand or in CNC equipment
- General rotation speed range is from 500 to 100rpm and 8 to 10 reciprocating movements are effective.



Dia. (mm)	Head L. (mm)	Overall L. (mm)	P180	P240	P400
			Order code TFGW60	Order code TFGW60	Order code TFGW60
12	50	200	-18012F	-24012F	-40012F
15	50	200	-18015F	-24015F	-40015F
20	50	200	-18020F	-24020F	-40020F
25	60	200	-18025F	-24025F	-40025F
30	60	200	-18030F	-24030F	-40030F
35	60	200	-18035F	-24035F	-40035F
40	60	200	-18040F	-24040F	-40040F
45	60	200	-18045F	-24045F	-40045F
49	60	200	-18049F	-24049F	-40049F
52	65	200	-18052F	-24052F	-40052F
56	65	200	-18056F	-24056F	-40056F
60	70	200	-18060F	-24060F	-40060F
65	70	200	-18065F	-24065F	-40065F
70	80	200	-18070F	-24070F	-40070F

30pc Diamond Coated Burr Set - 3mm Shank

- Widely used in various industries such as mechanical processing, electrical and electronics, arts and crafts, and daily necessities.
- Can be used for the processing of parts such as crankshafts, main bearings, connecting rod bearings, piston rods, piston ring grooves, valve heads and stems, gears, racks, threads, and journals etc.
- Also used for shaping and repairing molds.



Order code	Shank Dia. (mm)	Length (mm)
TFCC01		
-03030A	3	45

Flexible Aluminum Oxide Blocks

- Selected materials with various unique properties, high safety, good shape retention, exceptional durability, and high efficiency.
- These features highlight the product's superior quality, safety, durability, and efficiency.
- MOQ(MPQ): 50pcs

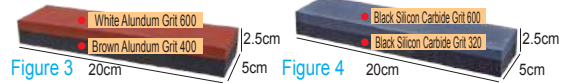
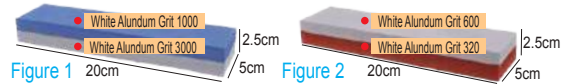


Order Code	Grit	Size (mm)	Weight / piece (g)
TFAB01			
-00060A	P60	100 x 70 x 25	20
-00080A	P80		
-00100A	P100		
-00120A	P120		

Order Code	Grit	Size (mm)	Weight / piece (g)
TFAB01			
-00150A	P150	100 x 70 x 25	20
-00180A	P180		
-00240A	P240		

Bench Oil Stones

- Made of selected aluminum oxide or silicon carbide grains, long lasting
- Ideal for sharpening and maintaining razor sharp edges on knives and tools
- Combination bench stone with a dual side sharpening system for wider usage
- Size(cm): 20 x 5.0 x 2.5(h)



Order Code	Color	Material	Grit	Figure
TFAB01				
-01001A	Blue / White	White Alundum	1000 x 3000	1
-01002A	White / Red	White Alundum	600 x 320	2
-01003A	Red / Blue	White Alundum / Brown Alundum	600 x 400	3
-01101C	Blue / Black	Black Silicon Carbide	600 x 320	4
-02101C	Green	Green Silicon Carbide	800	5

Black Plastic Handled Sharpener

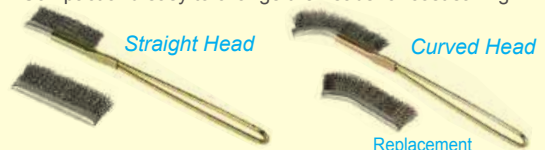
- This sharpener is the essential tool to keep your knives properly honed. It is recommended to use it once a week or on a regular basis.
- Featured with stainless steel blade and ergonomic handle with hanging loop



Order Code	Overall (mm)	Flute L. (mm)
TFAB01		
-07001A	415	270

Interchangeable Stainless Steel Wire Knife Brushes

- Ideal for removing rust and stains
- Compact and easy to change the heads for cost saving



Order Code	Head Type	Overall L. (mm)	Shank L. (mm)	Head L. (mm)	Wire width (mm)	Replacement Heads	Order Code	MOQ (Pcs)
TFWB32							TFWB32	
-01001D	Straight	225	194	65	18		-01011P	10
-01002D	Curved	245	194	85	18		-01022P	10

Fiber Stones

- This product is manufactured by combining high-purity ceramic fibers with thermoplastic resin and is designed for precision polishing in fine or intricate areas. It can be categorized into flat and round shapes.
- The flat-shaped fibers are known for their strong flexibility, uniform and well-packed grain particles, high hardness, and resistance to shedding. They do not produce scratches on the surface during the polishing process. These fibers are suitable for fine and intricate polishing in areas like the grooves at the bottom of molds and narrow crevices. They are used for processing narrow grooves, curved surfaces, and deep areas that are difficult to polish on items such as plastic molds, jade crafts, hard alloy workpieces, and similar objects. Additionally, they are applicable for removing the hardened surface after mold electrical discharge machining, mechanical cutting, eliminating rough tool marks, erasing fine machining traces, and for general polishing, fine grinding, or pre-mirror finishing.



- Brown Grit #150**
 - Green Grit #180**
 - Orange Grit #220**
 - Orange Grit #240**
 - Coffee Grit #280**
 - Black Grit #320**
 - Blue Grit #400**
 - Yellow Grit #600**
 - Red Grit #800**
 - White Grit #1000**
 - Purple-red Grit #1200**
 - Pink Grit #1500**
- Oil stone grade below Grit #400 is primarily used for post-electrical discharge machining to remove carbon buildup on the surface, commonly referred to as spark erosion grinding.
- Oil stone grade below Grit #1000 is specifically used for grinding or polishing to remove tool marks.
- Oil stone grade greater than Grit #1000 degrees is used for grinding prior to red polishing or mirror finishing.

Size (mm)	Brown #150	Green #180	Orange #220	Orange #240	Coffee #280	Black #320	Blue #400	Yellow #600	Red #800	White #1000	Purple-red #1200	Pink #1500
100(L) x 1(T) x 4(W)	-10104A	-10104B	-10104C	-10104D	-10104E	-10104F	-10104G	-10104J	-10104K	-10104M	-10104N	-10104Q
100(L) x 1(T) x 6(W)	-10106A	-10106B	-10106C	-10106D	-10106E	-10106F	-10106G	-10106J	-10106K	-10106M	-10106N	-10106Q
100(L) x 1(T) x 8(W)	-10108A	-10108B	-10108C	-10108D	-10108E	-10108F	-10108G	-10108J	-10108K	-10108M	-10108N	-10108Q
100(L) x 1(T) x 10(W)	-10110A	-10110B	-10110C	-10110D	-10110E	-10110F	-10110G	-10110J	-10110K	-10110M	-10110N	-10110Q
100(L) x Ø3	-11003A	-11003B	-11003C	-11003D	-11003E	-11003F	-11003G	-11003J	-11003K	-11003M	-11003N	-11003Q

Fiber Stone Holders

- The oilstone handle is used for hand-polishing fiber stones.
- During the polishing process, it is necessary to control the force to prevent the oilstone from breaking.



Order Code	Suitable Stone Size (mm)
TFAB01	
-70041H	1(T) x 4(W)
-70061H	1(T) x 6(W)
-70101H	1(T) x 10(W)

Twisted Knot Wire Bowl Wheels

- Suitable for various angle grinders for rust removal, polishing, and deburring
- Highly efficient cleaning, high sharpness, and high surface smoothness for a durable performance
- Made of high-quality 0.5mm steel wire with uniform distribution



Order Code	Diameter	Hole Pattern	Weight (g)
TFWB01			
-01025A	2.5" / 65mm	M10 x 1.5 Threaded hole	150
-01030A	3" / 75mm	M10 x 1.5 Threaded hole	250
-01130A	3" / 75mm	M14 x 2.0 Threaded hole	250
-01140A	4" / 100mm	M14 x 2.0 Threaded hole	500
-01150A	5" / 125mm	M14 x 2.0 Threaded hole	470
-01160A	6" / 150mm	M14 x 2.0 Threaded hole	730

Twisted Knot Wire Cup Wheels

- Suitable for various angle grinders, rust removal, polishing, deburring, etc.
- Highly efficient cleaning, high sharpness, and high surface smoothness for a durable performance.
- Made of 0.5mm high-quality steel wire with uniform distribution.
- Safety support ring effectively prevents loose wire.



Order Code	Diameter	Hole Pattern
TFWB01		
-02030A	3" / 75mm	M10 x 1.5 Threaded hole
-02130A	3" / 75mm	M14 x 2.0 Threaded hole
-02140A	4" / 100mm	M14 x 2.0 Threaded hole

Bowl Type Brass-Coated Wire Derusting Wheels

- Used for large-area rust removal, paint stripping, deburring, and more on both metal and non-metal materials.
- Highly efficient cleaning, high sharpness, and high surface smoothness for a durable performance.
- Made of 0.3mm high-quality steel wire with uniform distribution.



Order Code	Diameter	Hole Pattern
TFWB02		
-01030A	3" / 75mm	M10 x 1.5 Threaded hole
-01130A	3" / 75mm	M14 x 2.0 Threaded hole
-01140A	4" / 100mm	M14 x 2.0 Threaded hole
-01150A	5" / 125mm	M14 x 2.0 Threaded hole
-01160A	6" / 150mm	M14 x 2.0 Threaded hole

Twisted Knot Wire Plain Bore Brushes

- Suitable for grinding various material surfaces, rust removal, paint stripping, etc.
- Efficient cleaning, high sharpness, high smoothness, long-lasting durability.
- Made of 0.3mm high-quality steel wire with uniform distribution.

Order Code	Diameter x Bore Diameter (mm)
-01040A	100 x 16
-01045A	115 x 16
-01050A	125 x 16
-01060A	150 x 22
-01070A	175 x 22
-01080A	200 x 22
-01100A	250 x 32
-01120A	300 x 32



Twisted Knot Wire Beveled Brushes

- Suitable for large-scale rust removal, paint stripping, and deburring of both metal and non-metal materials.
- Efficient cleaning, high sharpness, high smoothness, long-lasting durability.
- Made of 0.5mm high-quality steel wire with uniform distribution.



Order Code	Diameter	Hole Type
-01040A	4" / 100mm	M10 x 1.5 Threaded hole
-01140A	4" / 100mm	M14 x 2.0 Threaded hole
-01150A	5" / 125mm	M14 x 2.0 Threaded hole

Circular Wire Wheels

- Suitable for metal polishing, grinding, and rust removal; polishing and grinding of non-metal materials.
- Efficient cleaning, high sharpness, high smoothness, long-lasting durability.
- Brass-coated wire: 0.3mm ; Pure brass wire: 0.13mm

Brass-Coated Wire

Pure Brass Wire



Brass-Coated Wire		Pure Brass Wire	
Order Code	Diameter x Bore Diameter (mm)	Order Code	Diameter x Bore Diameter (mm)
-02040B	100 x 16	-03040C	100 x 16
-02050B	125 x 16	-03050C	125 x 16
-02060B	150 x 22	-03060C	150 x 22
-02080B	200 x 25	-03080C	200 x 25
-02081B	200 x 32	-03081C	200 x 32
-02100B	250 x 25	-03100C	250 x 25
-02101B	250 x 32	-03101C	250 x 32
-02120B	300 x 25	-03120C	300 x 25
-02121B	300 x 32	-03121C	300 x 32

Circular Wire Brushes - Shaft Mounted

- Used for surface cleaning, rust removal, polishing, and deburring, with long-lasting durability.
- The steel wire is made of 0.3mm wire, which is not prone to breakage and is evenly distributed.

Crimped Cup Wire Brushes - Shaft Mounted

- Used for surface cleaning, rust removal, polishing, and deburring, with long-lasting durability.
- The steel wire is made of 0.3mm thick wire, which is not prone to breakage and is evenly distributed.

Brass-Coated Wire

Stainless Steel Wire



Dia (mm)	Cup Height (mm)	Shank Dia. (mm)	Brass-Coated Wire	Stainless Steel Wire
			Order Code	Order Code
38	24	6	-02040B	-04040D
50	35	6	-02050B	-04050D
60	38	6	-02060B	-04060D
75	43	6	-02075B	-04075D
100	44	6	-02100B	-04100D

** The above dimensions are measured manually and may have slight deviations from the actual product.

Flat End Decarbonising Brushes

- Suitable for rust removal, carbon removal, debris removal, cleaning, and wire drawing in various internal holes, corners, and grooves.
- The shank is cold-drawn and high-tonnage pressed for greater durability.
- The steel wire is made of 0.3mm wire that is not easily broken and evenly distributed.
- Use with various powerful electric drills, grinders and other tools with a 6mm clamping diameter.

Brass-Coated Wire

Stainless Steel Wire



Dia (mm)	Flute Length (mm)	Total Length (mm)	Shank Dia. (mm)	Brass-Coated Wire	MOQ	Stainless Steel Wire	MOQ
				Order Code	Order Code		
10	29	66	6	-02010B	50	-04010D	20
12	29	70	6	-02012B	50	-04012D	20
16	29	72	6	-02016B	50	-04016D	20
20	33	71	6	-02020B	50	-04020D	20
25	33	75	6	-02025B	50	-04025D	20
30	33	80	6	-02030B	50	-04030D	20

Brass-Coated Wire

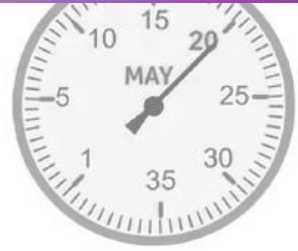
Stainless Steel Wire



Dia (mm)	Wire Thick (mm)	Shank Dia. (mm)	Shank Length (mm)	Shank Dia. (mm)	Brass-Coated Wire	MOQ	Stainless Steel Wire	MOQ
					Order Code	Order Code		
25	10	0.3	25	6	-00250B	20	-00250D	10
38	4.5	0.3	32	6	-00350B	20	-	-
38	10	0.3	25	6	-00400B	20	-00400D	10
50	10	0.3	25	6	-00500B	20	-00500D	10
60	20	0.3	30	6	-00600B	20	-	-
65	10	0.3	25	6	-06500B	20	-06500D	10
75	10	0.3	25	6	-07500B	20	-07500D	10
100	10	0.3	25	6	-10000B	20	-10000D	10

TEMOTUF™

Measuring Tools



www.temotuf.com

IP Ratings (Ingress Protection)

A two-digit number established by the International Electro Technical Commission, is used to provide an Ingress Protection rating to a piece of electronic equipment or to an enclosure for electronic equipment.

The protection class after EN60529 are indicated by short symbols that consist of the two code letters IP and a code numeral for the amount of the protection.

Example: IP65 (NEMA 4)

The two digits represent different forms of environmental influence:

- The first digit represents protection against ingress of solid objects.
- The second digit represents protection against ingress of liquids.

The larger the value of each digit, the greater the protection. As an example, a product rated IP54 would be better protected against environmental factors than another similar product rated as IP42.

IP..	First digit: Ingress of solid objects	Second digit: Ingress of liquids
0	No protection	No protection
1	Protected against solid objects over 50mm e.g. hands, large tools.	Protected against vertically falling drops of water or condensation.
2	Protected against solid objects over 12.5mm e.g. hands, large tools.	Protected against falling drops of water, if the case is disposed up to 15° from vertical.
3	Protected against solid objects over 2.5mm e.g. wire, small tools.	Protected against sprays of water from any direction, even if the case is disposed up to 60° from vertical.
4	Protected against solid objects over 1.0mm e.g. wires.	Protected against splash water from any direction.
5	Limited protection against dust ingress. (no harmful deposit)	Protected against low pressure water jets from any direction. Limited ingress permitted.
6	Totally protected against dust ingress.	Protected against high pressure water jets from any direction. Limited ingress permitted.
7	N/A	Protected against short periods of immersion in water.
8	N/A	Protected against long, durable periods of immersion in water.
9K	N/A	Protected against close-range high pressure, high temperature spray downs.

IP protection of the PIP:

A PIP in the standard PIP housing is generally IP51 protected. Higher IP protection level with the standard PIP housing (up to IP54) can be reached with good positioning / orientation of the PIP. In other special PIP-housings, like a MIL-housing up to IP67 protection is possible.

IP protection of the PANEL-PIP:

The PANEL-PIP is available in various housings. Those allow a protection level of up to all around IP65.

Outside Micrometers

- Carbide tipped measuring faces
- Equipped with Ratchet Stop for constant measuring force
- Heat insulating grip covers the entire handling portion of the micrometer frame



Order Code TFME10	Range (mm)	Graduation (mm)	Accuracy (mm)
-20025B	0-25	0.01	±0.004
-20050B	25-50	0.01	±0.004
-20075B	50-75	0.01	±0.005
-20100B	75-100	0.01	±0.005

Mechanical Outside Micrometers

- Carbide tipped measuring faces
- Enamel finished frame



Order Code TFME10	Range (mm)	Graduation (mm)	Accuracy (mm)
-30125C	100-125	0.01	±0.006
-30150C	125-150	0.01	±0.006
-30175C	150-175	0.01	±0.007
-30200C	175-200	0.01	±0.007
-30225C	200-225	0.01	±0.008
-30250C	225-250	0.01	±0.008
-30275C	250-275	0.01	±0.009
-30300C	275-300	0.01	±0.009

U-Type Sheet Metal Micrometers

- For gauging sheet metal, fibre etc. with a deep throat frame
- Carbide tipped measuring faces



Order Code TFME10	Range (mm)	Throat Depth (mm)	Graduation (mm)	Accuracy (mm)
-80025H	0-25	50	0.01	±0.004
-81025H	0-25	100	0.01	±0.004
-82025H	0-25	150	0.01	±0.005
-80050H	25-50	50	0.01	±0.004
-81050H	25-50	100	0.01	±0.004
-82050H	25-50	150	0.01	±0.005

Professional Waterproof Digital Micrometers

- Imperial or Metric reading, resetting function, simple to use
- Large LCD display
- Protected to IP54 for use where coolant may be present
- Original setting and auto power off
- Carbide tipped measuring faces



IP 54

Order Code TFME10	Range	Resolution	Accuracy
-10025A	0-25mm / 0- 1"	0.001mm	±0.002mm
-10050A	25-50mm / 1"- 2"	0.001mm	±0.002mm
-10075A	50-75mm / 2"- 3"	0.001mm	±0.003mm
-10100A	75-100mm / 3"- 4"	0.001mm	±0.003mm

Interchangeable Anvil Micrometers

- This micrometer has been thoroughly tested to ensure accuracy, and consistency, suitable for measure the large diameters
- Carbide tipped measuring faces
- Enamel finished frame
- Supplied with standard interchangeable anvils



Order Code TFME10	Range (mm)	Graduation (mm)	Accuracy (mm)
-40400D	300-400	0.01	±0.011
-40500D	400-500	0.01	±0.013
-40600D	500-600	0.01	±0.014
-40700D	600-700	0.01	±0.016
-40800D	700-800	0.01	±0.018
-40900D	800-900	0.01	±0.020
-41000D	900-1000	0.01	±0.020

Blade Micrometers

- Ideal for measuring grooves, keyways, and hard-to-reach areas with high accuracy
- Carbide tipped measuring faces
- Enamel finished frame



Order Code TFME10	Range (mm)	Graduation (mm)	Accuracy (mm)
-70025G	0-25	0.01	±0.004
-70050G	25-50	0.01	±0.004
-70075G	50-75	0.01	±0.005
-70100G	75-100	0.01	±0.005
-70125G	100-125	0.01	±0.006
-70150G	125-150	0.01	±0.006
-70175G	150-175	0.01	±0.007

Point Micrometers

- This point anvil micrometer is for measurement in restricted spaces
- Carbide anvil, 30° point angle
- Enamel finished frame with heat insulating grip cover



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)
TFME10			
-50025E	0-25	0.01	±0.004
-50050E	25-50	0.01	±0.004
-50075E	50-75	0.01	±0.005
-50100E	75-100	0.01	±0.005

3 Point Rod Bore Micrometers

- Ideal for accurate measurement of internal diameters
- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod
- Carbide tipped measuring faces
- Self-centering and self-aligning guaranteed by 3-line contact
- Equipped with ratchet thimble



Range (mm)	Accuracy (mm)	Mechanical		Digital	
		Order Code	Resolution (mm)	Order Code	Resolution (mm)
6-8	±0.004	-30008A	0.001	-30008B	0.001
8-10	±0.004	-30010A	0.001	-30010B	0.001
10-12	±0.004	-30012A	0.001	-30012B	0.001
12-16	±0.004	-30016A	0.005	-30016B	0.005
16-20	±0.004	-30020A	0.005	-30020B	0.005
20-25	±0.004	-30025A	0.005	-30025B	0.005
25-30	±0.004	-30030A	0.005	-30030B	0.005
30-40	±0.004	-30040A	0.005	-30040B	0.005
40-50	±0.005	-30050A	0.005	-30050B	0.005
50-63	±0.005	-30063A	0.005	-30063B	0.005
62-75	±0.005	-30075A	0.005	-30075B	0.005
75-88	±0.005	-30088A	0.005	-30088B	0.005
87-100	±0.005	-30100A	0.005	-30100B	0.005

Micrometer Heads

- Multifunction-used for XY tables, LCD production, machine tools, fixtures, special measuring tools and other equipment requiring millimeter accuracy
- Carbide anvil for accurate and durable measurement



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)
TFME11			
-00065H	0-6.5	0.01	±0.004
-00130H	0-13	0.01	±0.004
-00150H	0-15	0.01	±0.004
-00250H	0-25	0.01	±0.004
-00500H	0-50	0.01	±0.005

Spherical Micrometers

- Designed to measure the wall thickness of various tubing.
- Carbide tipped measuring faces
- Heat insulating grip covers the entire handling portion of the micrometer frame



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)
TFME10			
-60025F	0-25	0.01	±0.004
-60050F	25-50	0.01	±0.004
-60075F	50-75	0.01	±0.005
-60100F	75-100	0.01	±0.005

Single Rod Bore Micrometers

- Carbide-tipped measuring faces, with locking clamp
- Zero point can be readjusted by rotating the micrometer head sleeve
- Clear, crisp graduations on the satin chrome finished micrometer head
- A setting ring can be used to accurately set this micrometer.
- A key wrench is supplied



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)
TFME12			
-10075A	50-75	0.01	±0.005
-10100A	75-100	0.01	±0.005
-10125A	100-125	0.01	±0.006
-10150A	125-150	0.01	±0.006
-10175A	150-175	0.01	±0.007
-10200A	175-200	0.01	±0.007
-10225A	200-225	0.01	±0.008
-10250A	225-250	0.01	±0.008
-10275A	250-275	0.01	±0.009
-10300A	275-300	0.01	±0.009

Caliper Type Internal Micrometers

- This caliper style internal micrometer has a satin chrome finish and is used for ID measurements of rings, cylinders and parallel surfaces.
- The caliper jaws are made of high grade steel. The locking clamp allows for positive locking of the spindle.
- A setting ring can be used to accurately set this micrometer.



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)
TFME12			
-00030A	5-30	0.01	±0.005
-00050A	25-50	0.01	±0.006
-00075A	50-75	0.01	±0.007
-00100A	75-100	0.01	±0.008
-00125A	100-125	0.01	±0.009
-00150A	125-150	0.01	±0.009
-00175A	150-175	0.01	±0.010
-00200A	175-200	0.01	±0.010

Stainless Steel Digital Calipers

- Made of hardened stainless steel with aluminum alloy housing
- Internal, external and height dimensions can be easily and accurately measured
- With easy to read large LCD display
- Direct Inch/Metric conversion • Zero setting in any position
- With a small locking thumb screw which locks the jaws in place



Order Code TFME20	Range	Graduation	Accuracy
-20150B	0-150mm / 6"	0.01mm	±0.02mm
-20200B	0-200mm / 8"	0.01mm	±0.03mm
-20300B	0-300mm / 10"	0.01mm	±0.04mm

Professional Waterproof Stainless Steel Digital Calipers

- Stainless steel frame, hardened, ground and lapped measuring surfaces
- Electronic components sealed to improve its anti-liquid ability
- Not only IP67 against water and dust, but also coolant-proof ability
- Featured with big digital screen ensure error-free reading
- Direct Inch/Metric conversion
- Zero setting in any position. With a small locking thumb screw which locks the jaws in place



Order Code TFME20	Range	Resolution	Accuracy
-10150A	0-150mm / 0-6"	0.01mm	±0.03mm
-10200A	0-200mm / 0-8"	0.01mm	±0.03mm
-10300A	0-300mm / 0-12"	0.01mm	±0.04mm

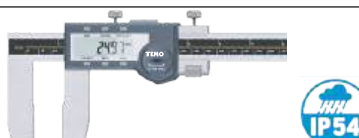
IP54 Digital Calipers with Data Output

- Finely polished stainless steel frame with knurled thumb roller and locking screw ensure smooth sliding and accurate positioning in use
- IP54 waterproof, fine adjustable thumb roller, level A anti-static
- 3ms fast response speed, eliminating overspeed errors
- Direct Inch/Metric conversion
- Equipped with data output function



Order Code TFME20	Range	Graduation (mm)	Accuracy (mm)
-51150B	150mm / 6"	0.01	±0.02
-51200B	200mm / 8"	0.01	±0.03
-51300B	300mm / 12"	0.01	±0.04

Long-reach Single Jaw (Square Head)



Order Code TFME20	Range	Jaw depth (mm)	Graduation (mm)	Accuracy (mm)
-52500B	500mm / 20"	100	0.01	±0.05
-52600B	600mm / 24"	100	0.01	±0.07

Prof. Extra Long External Stainless Steel Digital Calipers

- Made of high quality stainless steel
- Equipped with knurled thumb roller and locking screw ensure smooth sliding and accurate positioning in use
- Super big read display can be set to zero in any position, metric or imperial display and auto shut off
- Relative and absolute measurement conversion at any position
- Zero setting in any position



Order Code TFME20	Range	Resolution	Accuracy
-10500L	0-500mm / 20"	0.01mm	±0.05mm
-10600L	0-600mm / 24"	0.01mm	±0.05mm
-10800L	0-800mm / 32"	0.01mm	±0.05mm
-11000L	0-1000mm / 40"	0.01mm	±0.07mm
-11500L	0-1500mm / 60"	0.01mm	±0.11mm
-12000L	0-2000mm / 80"	0.01mm	±0.14mm
-12500L	0-2500mm / 100"	0.01mm	±0.22mm
-13000L	0-3000mm / 120"	0.01mm	±0.26mm
-13500L	0-3500mm / 140"	0.01mm	±0.30mm
-14000L	0-4000mm / 160"	0.01mm	±0.34mm

Stainless Steel Vernier Calipers

- Made of high stainless steel with satin-chromed scales
- Four-way measuring for outside, inside, depth and step



Order Code TFME18	Range (mm)	Graduation (mm)	Accuracy (mm)
-00100A	0-100	0.05	±0.05
-00150A	0-150	0.02	±0.02
-00200A	0-200	0.02	±0.03
-00300A	0-300	0.02	±0.04

Economy Vernier Calipers

- Made of carbon steel, an industrial-grade economical option, with built-in depth measurement capability.
- Chrome-plated surface with laser-engraved markings for clear and visible scales.



Order Code TYME18	Range	Graduation (mm)	Accuracy (mm)
-61150C	150mm / 6"	0.02	±0.02
-61200C	200mm / 8"	0.02	±0.02
-61300C	300mm / 12"	0.02	±0.02

Long Jaw Internal Digital Calipers

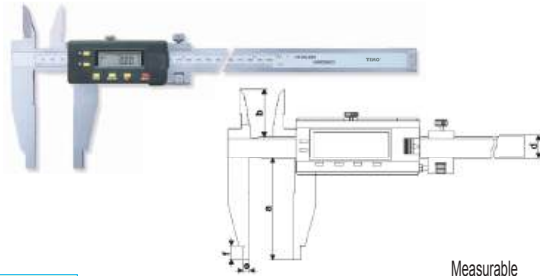
- Made of stainless steel
- Both upper & lower jaws carry knife edge measuring surface
- Zero setting in any position
 - Come with preset and data output function



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	a	b	d
TFME20						
-80500K	0-500	0.01	±0.05	100	45	24
-80600K	0-600	0.01	±0.05	100	45	24
-80800K	0-800	0.01	±0.07	125	45	24
-81000K	0-1000	0.01	±0.07	125	60	31

Long Jaw Internal Vernier Calipers

- Made of stainless steel, wear proof
- Upper jaws are good for small hole measurement as well as the lower jaws are good for deep internal holes
- Zero setting in any position
- Come with preset and data output function



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	a	b	d	e	f	Measurable Hole Range (mm)
TFME20									
-60500A	0-500	0.01	±0.05	100	45	24	10	18	20-500
-60600A	0-600	0.01	±0.06	100	45	24	10	18	20-600
-60800A	0-800	0.01	±0.07	125	45	24	10	24	20-800
-61000A	0-1000	0.01	±0.07	125	60	31	10	24	20-1000

Long Jaw External Digital Calipers

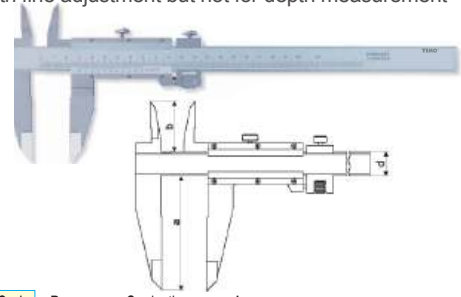
- Made of stainless steel, wear proof
- Upper jaws are good for external measurement as well as the lower jaws are good for deep internal holes
- Zero setting in any position
- Come with preset and data output function



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	a	b	d	e	f	Measurable Hole Range (mm)
TFME20									
-70500A	0-500	0.01	±0.05	100	45	24	10	18	20-500
-70600A	0-600	0.01	±0.06	100	45	24	10	18	20-600
-70800A	0-800	0.01	±0.07	125	45	24	10	24	20-800
-71000A	0-1000	0.01	±0.07	125	60	31	10	24	20-1000

Knife-Edge Jaw Vernier Calipers

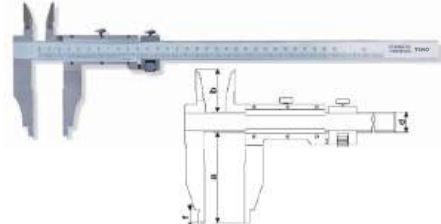
- Made of stainless steel
- Both upper & lower jaws carry knife edge measuring surface
- With fine adjustment but not for depth measurement



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	a	b	d
TFME18						
-80500K	0-500	0.02	±0.05	100	45	24
-80600K	0-600	0.02	±0.05	100	45	24
-81000K	0-1000	0.02	±0.07	125	60	31

Long Jaw Internal Vernier Calipers

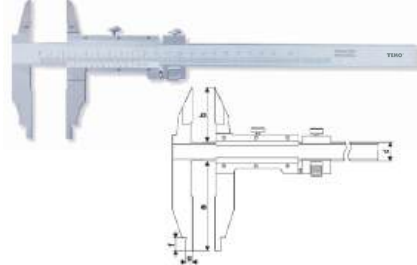
- Made of stainless steel, wear proof
- Upper jaws are good for small hole measurement as well as the lower jaws are good for deep internal holes
- Curved jaws provide more accurate measurement of internal diameters
- With fine adjustment but not for depth measurement



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	a	b	d	e	f
TFME18								
-60500A	0-500	0.02	±0.05	100	60	31	10	24
-60600A	0-600	0.02	±0.06	100	45	24	10	18
-61000A	0-1000	0.02	±0.07	125	60	31	10	24

Long Jaw External Vernier Calipers

- Made of stainless steel, wear proof
- Upper jaws are good for external measurement as well as the lower jaws are good for deep internal holes
- Curved jaws provide more accurate measurement of internal diameters
- With fine adjustment but not for depth measurement



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	a	b	d	e	f
TFME18								
-70500A	0-500	0.02	±0.05	100	56	24	10	18
-70600A	0-600	0.02	±0.06	100	56	24	10	18
-70800A	0-800	0.02	±0.07	125	67	31	10	24
-71000A	0-1000	0.02	±0.07	125	67	31	10	24

Dial Calipers

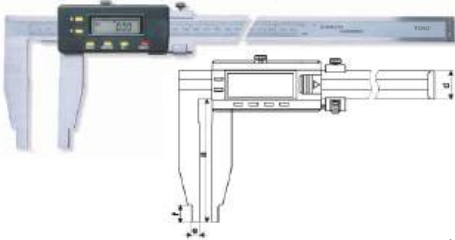
- Made of rustless steel and it features a satin-finish making the measurement easier to read
- Provide quick, accurate measurements of outside dimensions, inside dimensions, and depth
- The dial rotates and can be locked for zero error
- Shock resistant, anti-backlash control



Order Code	Range (mm)	Dial Reading		Accuracy (mm)
		Graduation (mm)	mm per Rev.	
-00150D	0-150	0.02	2	±0.02
-01150D	0-150	0.01	1	±0.02
-00200D	0-200	0.02	2	±0.03
-01200D	0-200	0.01	1	±0.03
-00300D	0-300	0.02	2	±0.04

Long Jaw Digital Calipers

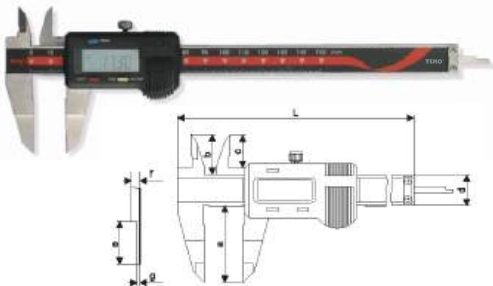
- Made of stainless steel, wear proof
- The long lower jaws are good for measuring deep internal holes
- Curved jaws provide more accurate measurement of internal diameters
 - Zero setting in any position
- Come with preset and data output function



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	Measurable Hole Range (mm)				
				a	b	c	d	
-50500A	0-500	0.01	±0.04	100	24	10	18	20-500
-50600A	0-600	0.01	±0.04	100	24	10	24	20-600
-50800A	0-800	0.01	±0.06	150	31	10	24	20-800
-51000A	0-1000	0.01	±0.06	150	42	10	24	20-1000
-51500A	0-1500	0.01	±0.08	150	42	10	24	20-1500

Digital Blade Calipers

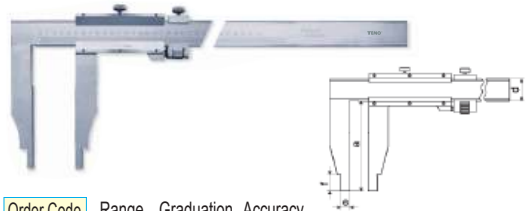
- Made of stainless steel with carbide measuring faces
- The thin blade-type jaws are easier to fit into very small grooves for many difficult outside measurements.



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	Measurable Groove Range (mm)								
				L	a	b	c	d	e	f	g	
TFME20												
-30150A	0-150	0.01	±0.02	236	40	21	16	16	10	3.2	0.7	
-30200A	0-200	0.01	±0.03	286	50	24	19	16	10	3.6	0.7	
-30300A	0-300	0.01	±0.04	400	60	25	20	17	10	3.8	1.0	

Long Jaw Vernier Calipers

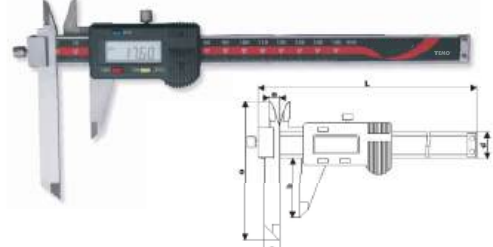
- Made of stainless steel, wear proof
- The long lower jaws are good for measuring deep internal holes
- Curved jaws provide more accurate measurement of internal diameters
- With fine adjustment



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	a	b	c	d
-50500A	0-500	0.02	±0.04	100	24	10	18
-50600A	0-600	0.02	±0.04	100	24	10	24
-50800A	0-800	0.02	±0.05	125	31	10	24
-51000A	0-1000	0.02	±0.05	125	31	10	24
-51500A	0-1500	0.02	±0.08	150	31	10	24

Digital Offset Calipers

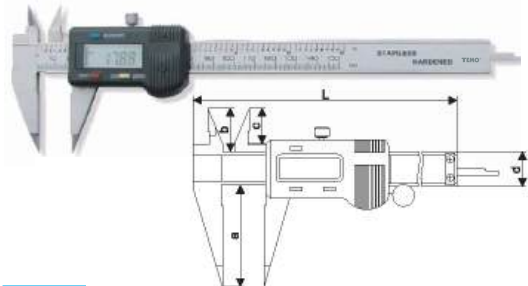
- The Calipers are constructed of high quality hardened stainless steel
- The front jaw can slide up or down and be locked at any point. This allows measurement of stepped work pieces
- Zero setting in any position



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	L	a	b	c	d	e
-40150A	0-150	0.01	±0.04	239	110	40	10	16	7
-40200A	0-200	0.01	±0.04	289	120	50	10	16	7
-40300A	0-300	0.01	±0.05	389	130	60	10	16	7
-40500A	0-500	0.01	±0.07	685	210	100	22	24	11

Digital Calipers with Sharp Points

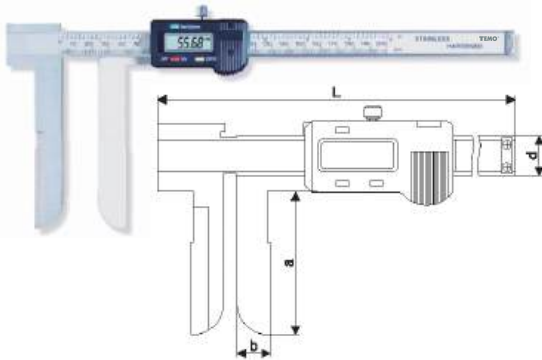
- These pointed jaws allow the caliper to fit into very small grooves and tracks
- Large LCD display



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	L	a	b	c	d
-20100A	0-100	0.01	±0.02	170	30	17	12	13
-20150A	0-150	0.01	±0.03	236	40	21	16	16
-20200A	0-200	0.01	±0.03	286	50	24	19	16
-20300A	0-300	0.01	±0.04	400	60	25	20	17

Extra Long Knife-Edge Internal Digital Calipers

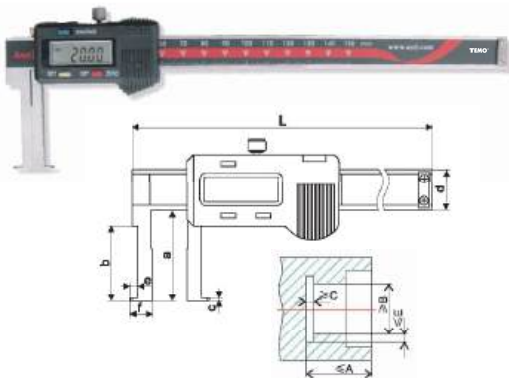
- Specially designed for internal measurements in hard to reach places
- Zero setting in any position
- With data output function



Order Code TFME20	Range (mm)	Graduation (mm)	Accuracy (mm)	L	a	b	d
-90150L	15-150	0.01	±0.03	250	60	12	16
-91150L	20-150	0.01	±0.04	250	90	14	16
-90200L	18-200	0.01	±0.05	305	75	14	16
-91200L	22-200	0.01	±0.06	305	100	17	16
-90300L	20-300	0.01	±0.05	410	90	14	16
-91300L	22-300	0.01	±0.06	410	120	17	24
-92300L	25-300	0.01	±0.07	410	150	17	24
-90500L	22-500	0.01	±0.07	700	100	22	25
-91500L	25-500	0.01	±0.08	700	150	22	25

Internal Groove Digital Calipers with Flat Anvils

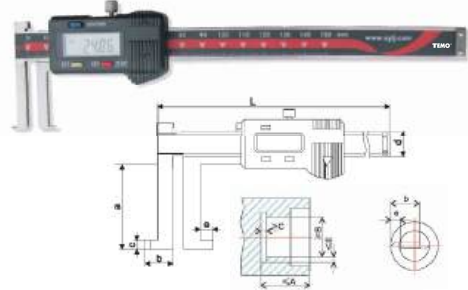
- Specially designed for measuring the internal groove, hole diameter and distance of workpiece.
- Optional preset chip can be ordered on demand



Order Code TFME22	Range (mm)	Graduation (mm)	Accuracy (mm)	L	a	b	c	d	e	f	Measurable Internal Groove				
											A	B	C	E	
-00150G	22-150	0.01	±0.04	250	36	30	1.0	16	5	11.0	30	22	1.0	4.5	
-01150G	35-150	0.01	±0.05	250	66	60	1.5	16	6	17.5	60	35	1.5	5.5	
-00200G	25-200	0.01	±0.04	310	46	40	1.0	16	5	12.5	40	25	1.0	4.5	
-01200G	40-200	0.01	±0.05	310	76	70	1.5	16	7	20.0	70	40	1.5	6.5	
-00300G	30-300	0.01	±0.05	410	56	50	1.5	17	5	15.0	50	30	1.5	4.5	
-01300G	50-300	0.01	±0.06	410	86	80	1.5	17	8	25.0	80	50	1.5	7.5	
-00500G	40-500	0.01	±0.06	680	100	90	1.5	24	5	20.0	90	40	1.5	4.5	
-01500G	60-500	0.01	±0.07	680	130	120	2.0	24	10	30.0	120	60	2.0	9.5	
-02500G	80-500	0.01	±0.07	680	160	150	3.0	24	16	40.0	150	80	3.0	15.0	

Internal Groove Digital Calipers with Knife Anvils

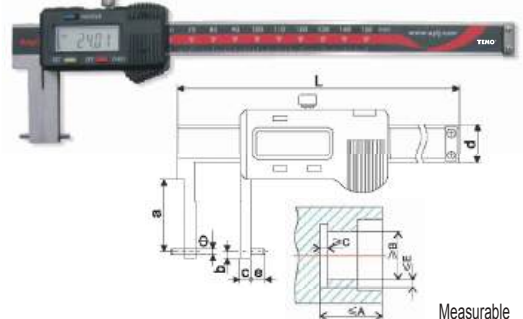
- Featured with cross jaws, specially for measuring the internal grooves in small holes
- Optional preset chip can be ordered on demand



Order Code TFME20	Range (mm)	Graduation (mm)	Accuracy (mm)	L	a	b	c	d	e	Measurable Internal Groove				
										A	B	C	E	
-20150G	14-150	0.01	±0.03	236	30	12	1.0	16	5	30	14	1.0	4.5	
-21150G	19-150	0.01	±0.05	236	60	17	2.0	16	6	60	19	2.0	5.5	
-22150G	25-150	0.01	±0.05	291	90	23	3.0	20	8	90	25	3.0	7.5	
-20200G	15-200	0.01	±0.04	290	40	13	1.0	16	5	40	15	1.0	4.5	
-21200G	23-200	0.01	±0.05	290	70	20	2.0	16	7	70	23	2.0	6.5	
-22200G	29-200	0.01	±0.05	347	100	27	3.0	20	10	100	29	3.0	9.5	
-20300G	17-300	0.01	±0.05	400	50	15	1.5	17	5	50	17	1.5	4.5	
-21300G	16-300	0.01	±0.06	400	80	24	2.5	17	8	80	26	2.5	7.5	
-22300G	33-300	0.01	±0.06	453	110	31	3.5	20	12	110	33	3.5	11.5	
-20500G	25-500	0.01	±0.06	670	90	23	2.0	24	6	90	25	2.0	5.5	
-21500G	35-500	0.01	±0.07	670	120	33	3.0	24	8	120	35	3.0	7.5	
-22500G	47-500	0.01	±0.07	670	150	45	3.0	24	20	150	47	3.0	19.0	

Internal Groove Digital Calipers with Round Anvils

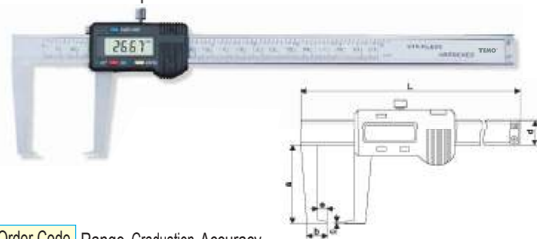
- Featured with longer round anvils are suitable for deeper internal groove measurement
- Optional preset chip can be ordered on demand



Order Code TFME22	Range (mm)	Graduation (mm)	Accuracy (mm)	L	a	b	c	d	e	f	Measurable Internal Groove				
											A	B	C	E	
-30150G	24-150	0.01	±0.04	250	30	3	7.0	16	5	2	30	24	2.0	4.5	
-31150G	35-150	0.01	±0.05	250	60	3	11.5	16	6	2	60	35	2.0	5.5	
-32150G	50-150	0.01	±0.05	260	90	4	17.0	20	8	3	90	50	3.0	7.5	
-30200G	25-200	0.01	±0.04	310	40	3	7.5	16	5	2	40	25	2.0	4.5	
-31200G	40-200	0.01	±0.05	310	70	3	13.0	16	7	3	70	40	3.0	6.5	
-32200G	60-200	0.01	±0.05	310	100	3	20.0	20	10	3	100	60	3.0	9.5	
-30300G	30-300	0.01	±0.05	410	50	3	10.0	16	5	2	50	30	2.0	4.5	
-31300G	50-300	0.01	±0.06	410	80	3	17.0	16	8	3	80	50	3.0	7.5	
-32300G	60-300	0.01	±0.06	410	110	3	20.0	20	10	3	110	60	3.5	9.5	
-30500G	40-500	0.01	±0.06	680	90	3	15.0	24	5	3	90	40	3.0	4.5	
-31500G	60-500	0.01	±0.07	680	120	3	20.0	24	10	3	120	60	3.0	9.5	
-32500G	80-500	0.01	±0.07	680	150	3	24.0	24	16	3	150	80	3.0	15.0	

External Groove Digital Calipers with Flat Anvils

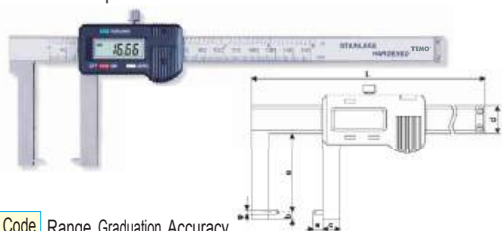
- Specially designed for measuring the external grooves and wall thickness of slots
- Zero setting in any position
- With data output function



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	L	a	b	c	d	e
TFME22									
-50150G	0-150	0.01	±0.03	250	40	15	1.0	16	5
-51150G	0-150	0.01	±0.04	250	70	20	2.0	16	7
-52150G	0-150	0.01	±0.04	290	100	30	2.0	20	10
-50200G	0-200	0.01	±0.04	310	50	19	1.0	16	7
-51200G	0-200	0.01	±0.04	310	80	23	1.5	16	9
-52200G	0-200	0.01	±0.05	340	110	34	2.0	20	12
-50300G	0-300	0.01	±0.04	400	60	21	1.5	17	8
-51300G	0-300	0.01	±0.05	440	100	30	2.0	20	10
-52300G	0-300	0.01	±0.05	480	150	32	2.0	24	12
-50500G	0-500	0.01	±0.06	690	100	34	2.0	24	12
-51500G	0-500	0.01	±0.07	690	150	36	2.0	24	12

External Groove Digital Calipers with Round Anvils

- Specially designed for measuring the external grooves and wall thickness of slots
- Zero setting in any position
- With data output function



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	L	a	b	c	d	e	ø
TFME22										
-60150G	0-150	0.01	±0.03	250	40	3	10.0	16	5	2.0
-61150G	0-150	0.01	±0.04	250	70	3	10.0	16	5	2.0
-62150G	0-150	0.01	±0.05	290	100	3	20.0	20	10	3.0
-60200G	0-200	0.01	±0.04	300	50	3	12.0	16	8	2.5
-61200G	0-200	0.01	±0.04	300	80	3	12.0	16	8	2.5
-62200G	0-200	0.01	±0.05	340	110	3	22.0	20	12	3.0
-60300G	0-300	0.01	±0.04	410	60	3	14.0	17	10	2.5
-61300G	0-300	0.01	±0.05	440	100	3	20.0	20	10	3.0
-62300G	0-300	0.01	±0.05	480	150	3	20.0	24	12	3.0
-60500G	0-500	0.01	±0.06	680	100	3	20.0	24	12	3.0
-61500G	0-500	0.01	±0.07	680	150	3	20.0	24	12	3.0

Dial Depth Gauges

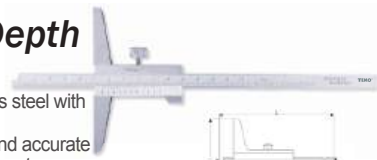
- Made of stainless steel
- Hardened and ground base for accurate measurement
- Fast and easy reading



Order Code	Range (mm)	Dial Reading (mm)		Accuracy (mm)
		Graduation	mm per Rev.	
TFME21				
-50150D	0-150	0.02	2	±0.03
-50200D	0-200	0.02	2	±0.03
-50300D	0-300	0.02	2	±0.04

Vernier Depth Gauges

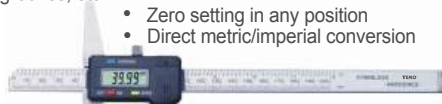
- Made of stainless steel with a chrome finish
- Used for quick and accurate depth measurements



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	L	a	b	d
TFME21							
-20150D	0-150	0.02	±0.03	250	100	5	10
-20200D	0-200	0.02	±0.03	300	100	5	10
-20300D	0-300	0.02	±0.04	400	100	5	10
-20500D	0-500	0.02	±0.05	605	150	4	11
-20600D	0-600	0.02	±0.07	768	150	6	11
-21000D	0-1000	0.02	±0.07	1168	150	6	18

Digital Depth Gauge Calipers

- Used to measure mixed dimensions, e.g. depth of holes, grooves, etc.



Order Code	Range	Graduation	Accuracy
TFME21			
-10150D	0-150mm / 0-6"	0.01mm	±0.03mm
-10200D	0-200mm / 0-8"	0.01mm	±0.03mm
-10300D	0-300mm / 0-12"	0.01mm	±0.04mm
-10500D	0-500mm / 0-20"	0.01mm	±0.04mm

Digital Depth Gauges with Adjustable Extended Bases

- Used to measure groove width and position of a groove etc.
- Extended base prevents the almost totally inclination of caliper, and consequently any measurement error
- Zero setting in any position
- Direct metric/imperial conversion

Order Code	Range	Graduation	Accuracy
TFME21			
-40300B	0-300mm / 12"	0.01mm	±0.04mm
-40500B	0-500mm / 20"	0.01mm	±0.04mm

Depth Micrometers

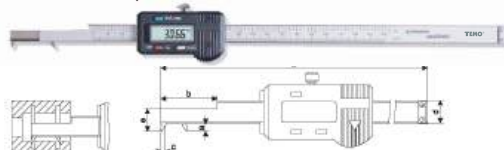
- Ratchet stop and measuring rod clamp for precise measurements

Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)
TFME11			
-10025A	0-25	0.01	±0.004
-10050A	0-50	0.01	±0.004
-10100A	0-100	0.01	±0.005
-10150A	0-150	0.01	±0.005
-10200A	0-200	0.01	±0.006
-10300A	0-300	0.01	±0.007



Groove Width Digital Calipers

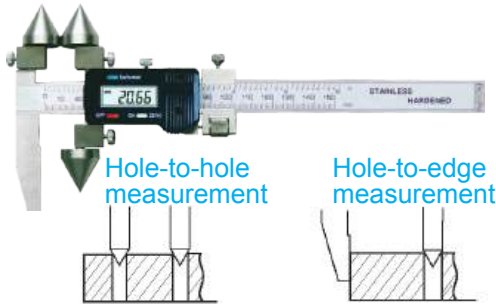
- Used to measure the groove width and groove position size in the hole
- Zero setting in any position
- Direct metric/imperial conversion



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	L	a	b	c	d	e
TFME22									
-40150G	3-150	0.01	±0.03	235	4	24	3	16	12
-40200G	3-200	0.01	±0.03	310	4	24	3	16	12
-40300G	4-300	0.01	±0.04	466	5	86	4	17	14

Digital Center-to-Center & Center-to-Edge Calipers

- Multi-purpose measuring tool for both hole-to-hole measurement and hole-to-edge measurement
- The centerline contacts can be adjusted vertically to measure the center distance of holes at different heights
- Optional absolute zero preset for easy and accurate measurements



Order Code	Range (mm)	Resolution (mm)	Accuracy (mm)	Jaw length (mm)
TFME22				
-70151A	5 - 150	0.01	±0.03	30
-70152A	10 - 150	0.01	±0.03	30
-70153A	20 - 150	0.01	±0.03	30
-70201A	5 - 200	0.01	±0.04	50
-70202A	10 - 200	0.01	±0.04	50
-70203A	20 - 200	0.01	±0.04	50
-70301A	5 - 300	0.01	±0.05	55
-70302A	10 - 300	0.01	±0.05	55
-70303A	20 - 300	0.01	±0.05	55
-70501A	5 - 500	0.01	±0.06	65
-70502A	10 - 500	0.01	±0.06	65
-70503A	20 - 500	0.01	±0.06	65
-70601A	5 - 600	0.01	±0.07	65
-70602A	10 - 600	0.01	±0.07	65
-70603A	20 - 600	0.01	±0.07	65
-71001A	5 - 1000	0.01	±0.08	80
-71002A	10 - 1000	0.01	±0.08	80
-71003A	20 - 1000	0.01	±0.08	80

Professional Digital Indicators

- High repeat accuracy
- Large digital LCD display
- Display with moving bar
- IP54 waterproof
- mm/inch, zero, off/on buttons
- 8mm stem
- Data output
- Fast response speed ≤ 0.5ms



IP54

Please find magnetic bases on P103

Order Code	Measurement range	Resolution	Accuracy
TFME31			
-10012A	0-12.7mm / 0.5"	0.01mm	±0.02mm
-10025A	0-25.4mm / 1"	0.01mm	±0.02mm

58mm 6 Jeweled Dial Indicator - Plunger Type

- Widely used in mechanical swing measurement, work piece measurement, plane correction etc.
- 6 jeweled shockproof precision dial indicators
- With double indicators for measuring mm
- Dustproof and waterproof



Please find magnetic bases on P103

Order Code	Graduation (mm)	Travel (mm)	Reading
TFME31			
-30010A	0.01mm	10	0 - 100

Professional Digital Micro-Indicators

- High repeat accuracy
- Large digital LCD display
- Display with moving bar
- IP54 waterproof
- mm/inch, zero, off/on buttons
- 8mm stem
- Data output
- Fast response speed ≤ 0.5ms



IP54

Please find magnetic bases on P103

Order Code	Measurement range	Resolution	Accuracy
TFME33			
-10012B	0-12.7mm / 0.5"	0.001mm	±0.007mm
-10025B	0-25.4mm / 1"	0.001mm	±0.009mm

32mm Ruby Stylus Dial Indicator - Lever Type

- The ruby stylus enhances durability.
- The ruby stylus is a non-conductive material so that it can be used on the electric discharging machines
- Excellent waterproof and oil-resistant properties
- Glare-free face allows easy reading of graduations
- Come with a standard stem



Please find magnetic bases on P103

Order Code	Graduation (mm)	Travel (mm)	Reading
TFME31			
-40008A	0.01mm	0.8	0 - 40 - 0

Professional Flexible Mag Stands

- Strong base, magnetic switch control, free adsorption, stable and reliable.
- 360° rotation, flexible joint design
- Switch button for easy on/off
- Length of flexible arm: 440mm
- Clamping diameter: 8mm



Order Code	Base Dimensions (mm)	Magnetic Force (kg)	Weight (kg)
TFME38			
-20110A	52 × 45 × 50	50	1.2

Flexible Fine Adjusting Mag Stands

- Strong base, magnetic switch control, free adsorption, stable and reliable.
- 360° rotation, flexible joint design
- With fine adjustment, with dovetail clamp
- Rotary knob switch controls magnet On or Off
- V-bottom base allows mounting on cylindrical surfaces
- Length of flexible arm: 360mm
- Clamping diameter: 8mm



Order Code	Base Dimensions (mm)	Magnetic Force (kg)	Weight (kg)
TFME38			
-10210B	58 × 50 × 55	60	1.3
-10220B	60 × 50 × 55	80	1.3

Professional Hydraulic Universal Mag Stands

- All purpose magnetic base
- Blue anodized coated aluminum alloy arm, stainless steel ball joints
- Fine adjustment clamping rod
- V-bottom base allows mounting on cylindrical surfaces
- Oil hydraulics protected against oil leakage by double seals
- Suitable for dial indicators with shank 8mm stems or dovetails



Order Code	Base Dimensions (mm)	Magnetic Force (kg)	Arm Length (mm)	Weight (kg)
TFME38				
-30110A	60 × 50 × 55	80	330	1.5
-30120A	60 × 50 × 55	80	380	1.5

Standard Mag Stands

- Accept test indicators with dovetail clamping mechanism
- This dial gauge can be held by the 3/8" or 8mm diameter stem or by the lug backing plate
- The rotary knob switch controls magnet On or Off
- The precision surface and the bottom V are securely fastened to the ferrous work piece or machine table when the rotary knob switch is in the On position



Order Code	Base Dimensions (mm)	Magnetic Force (kg)	Weight (kg)
TFME38			
-40110B	58 × 50 × 55	60	1.4
-40120B	60 × 50 × 55	80	1.4

Mini Universal Magnetic Stand

- Accept dial test indicators, digital indicators and normal indicators
- Extension rod with a hole for 6mm stem indicators
- Dovetail clamp for test indicator
- Fine adjustment clamp, full 360° movement



Order Code	Base Dimensions (mm)	Magnetic Force (kg)	Weight (kg)
TFME38			
-45110M	30 × 30 × 30	12	0.36

Mini Magnetic Stand

- 6mm clamping hole, rod length: 75mm
- Dovetail clamp for test indicator
- Fine adjustment clamp, full 360° movement



Order Code	Base Dimensions (mm)	Magnetic Force (kg)	Weight (kg)
TFME38			
-45120M	Φ25	10	0.2

Vernier Height Gauges

- Quenched stainless steel base, high flatness
- Carbide-tipped scriber for hardness and to prolong life
- Come with fine adjustment slide and nut



Order Code	Size (mm)	Graduation (mm)	Accuracy (mm)
TFME70			
-30200C	0-200	0.02	±0.03
-30300C	0-300	0.02	±0.04
-30500C	0-500	0.02	±0.05
-30600C	0-600	0.02	±0.07
-31000C	0-1000	0.02	±0.07
-31500C	0-1500	0.02	±0.10

Twin-Beam Dial Height Gauges

- Stainless steel twin-beam structure
- Quenched stainless steel base, high flatness
- Preset any reading at any position with hand wheel and fine adjustment carriage for precise and easily-read measurements
- Carbide-tipped scriber for hardness and to prolong life



Order Code	Size (mm)	Dial Reading(mm)		Accuracy (mm)
		Graduation	Range / Rev.	
TFME70				
-20300B	0-300	0.01	1	±0.04
-20500B	0-500	0.01	1	±0.05
-20600B	0-600	0.01	1	±0.06

Digital Height Gauges

- Hammer finish stainless steel base
- Large LCD display for clear and easy reading
- Data hold and tolerance presetting functions
- Conversion between absolute and relative measurement at any position
- Zero setting at any position
- Metric/Imperial conversion at any position
- IP54 waterproof
- Data output (data cable needs to be purchased separately)



Order Code	Measurement Range		Resolution (mm)	Accuracy (mm)
	(mm)	(inch)		
TFME70				
-10300A	0-300	0-12"	0.01	±0.04
-10500A	0-500	0-20"	0.01	±0.05
-10600A	0-600	0-24"	0.01	±0.06
-11000A	0-1000	0-40"	0.01	±0.07

Internal Dial Calipers

- Used for measuring internal diameters and narrow grooves in hard to reach places



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)
TFME26			
-10035A	15-35	0.01	±0.04
-10055A	35-55	0.01	±0.04
-10075A	55-75	0.01	±0.04
-10095A	75-95	0.01	±0.04
-10115A	95-115	0.01	±0.04
-10135A	115-135	0.01	±0.04
-10155A	135-155	0.01	±0.04

External Dial Calipers

- Used for measuring external diameters and narrow grooves in hard to reach places



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)
TFME26			
-20020B	0-20	0.01	±0.04
-20040B	20-40	0.01	±0.04
-20060B	40-60	0.01	±0.04
-20080B	60-80	0.01	±0.04
-20100B	80-100	0.01	±0.04
-20120B	100-120	0.01	±0.04

Dial Thickness Gauges

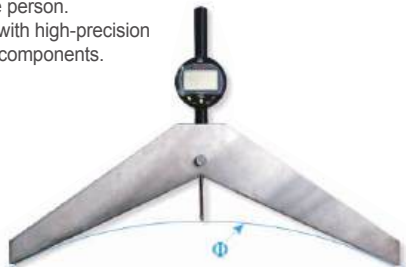
- Suitable for measuring the thickness of materials such as jewelry, leather, thin metal sheets, paper, films, and metal wires.
- The probe is raised by pushing down the lifting lever, it will return to the original zero point by releasing the lever.



Order Code	Range (mm)	Graduation (mm)	Accuracy (mm)	Throat
TFME73				
-10010A	0-10	0.01	±0.02	Pocket-sized
-11010A	0-10	0.01	±0.02	30mm
-12010A	0-10	0.01	±0.03	120mm

Large Diameter Digital Gauges

- Suitable for measuring the diameters of large-sized precision machined shafts.
- Effectively avoids errors associated with traditional long-jaw calipers.
- Can also be used to measure the cylindricity of large-diameter shafts.
- Compact and user-friendly, allowing for independent operation by a single person.
- Equipped with high-precision electronic components.



Order Code	Range (mm)	Resolution (mm)	Accuracy (mm)
TFME23			
-20300D	∅100-300	0.001	±0.08
-20500D	∅300-500	0.001	±0.09
-21000D	∅500-1000	0.001	±0.10

Digital Caliper for Outside Radius Measurement

- Made of stainless steel
- Measure the radius of arc less than half round



Order Code	Range (mm)	Resolution (mm)	Accuracy (mm)
TFME23			
-00150R	3-150	0.01	±0.06

Portable Digital Angle Finder

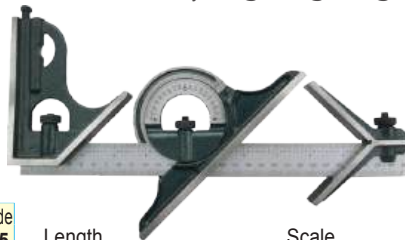
- Applied for professional measuring in woodworking, construction etc. Specifically designed to offer high quality and accurate readouts.
- Stainless steel moving arm plus aluminum housing, 4 strengthening ribs are properly distributed on the front and back, also built-in vertical and horizontal spirit levels
- This tool can be locked at any angle with the locking knob which also has a stop for quick checking of special angles like 45°, 180° or 225°
- Measures from 0° to 360°, V-notch end for checking 90° quickly
- Conversion between relative and absolute measurement
- Conversion between degree and second
- Large display with quadrant indicator
- Data holding, correction and zero setting
- Upside down display for easier reading



Order Code	Length	Measuring range	Resolution	Accuracy
TFME25				
-30001R	268mm	360°	0.05°/3'	0.2°

Multi-functional Combination Square Sets

- A general purpose combination square set for workshop or maintenance use
- All heads are manufactured from cast aluminum and are enamel finished
- This 4-piece set includes a rule, a square head, a center head and a protractor head
- Also featured with a spirit level and 40mm long steel scribe
- Angle measurement accuracy < 8' @90°, @45°, @30°



Order Code	Length	Scale
TFME25		
-31204R	12" / 300mm	4R = 1/64, 1/32, 1/16, 1/8
-31216R	12" / 300mm	16R = 1/100, 1/50, 1/64, 1/32
-31201A	12" / 300mm	Inch/Metric = 1/64, 1/32, 0.5mm, 1mm

Universal Bevel Protractor

- This bevel protractor is ideal for checking angles on machines or parts
- Stainless steel body with chrome finish for corrosion resistance and durability
- Dial measures in 1-degree increments and includes a built-in magnifying glass for accurate readout
- Vernier scale measures to each 5' (1/12 of a degree), increasing angle precision
- 300mm/12" scale adjusts to accommodate various angles



Order Code	Length	Measuring range	Resolution	Accuracy
TFME25				
-10001M	300mm	360°	5'	±5'

Digital Universal Bevel Protractor

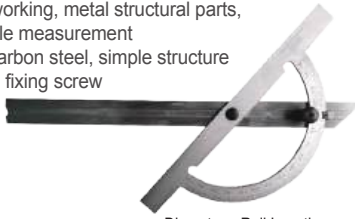
- Made of stainless steel
- Range selection: 1 x 360° / 2 x 180° / 4 x 90°
- Dual reading LCD display arc minutes/decimal degrees
- Acute angle attachment, 6" and 12" blades included
- Fine adjustment
- Preset function
- Optional data output: software CD and RS232 cable



Order Code	Length	Measuring range	Resolution	Accuracy
TFME25				
-20001D	300mm	360°	30"	±5'

10° - 170° Adjustable Protractor

- Suitable for woodworking, metal structural parts, convenient for angle measurement
- Made of rustless carbon steel, simple structure
- Adjustable rail with fixing screw
- Comply with German standard DIN875



Order Code	Measuring Range	Diameter x Rail Length (mm)
TFME25		
-30002A	10 - 170°	100 x 150

Digital Protractors

- Commonly used in metalworking, machining, and light and heavy manufacturing applications
- LCD display ensures upright reading at any angle. Measures angles within a 4 x 90° (0 ~ 360°) range
- Test surface levelness and check roof slopes, wheel alignment, etc. Simple self-calibration, no additional fixtures needed
- Convert between degrees (°), mm/m, percent slope (%), and pitch (in/ft). Backlight function for dark environments. Compact and portable design for easy use
- Featured with upside down display for easy reading



Stainless Steel Measurement Bases

Order Code	Range	Graduation	Accuracy	Base Feature
TFME25				
-50001A	4x90° (0-360°)	0.1°	0.2°	Plane
-50002A	4x90° (0-360°)	0.1°	0.2°	2 x M4 Thread
-50003A	4x90° (0-360°)	0.1°	0.2°	Magnetic
-50004A	4x90° (0-360°)	0.1°	0.2°	V-groove

Aluminum Alloy Measurement Bases

Order Code	Range	Graduation	Accuracy	Base Feature
TFME25				
-50001B	4x90° (0-360°)	0.1°	0.2°	Wide Plane
-50002B	4x90° (0-360°)	0.1°	0.2°	Magnetic

Digital Bevel Boxes

- Compact size, lightweight, easy to carry and use
- Large screen LCD display for convenient reading
- Built-in magnet in the base for accuracy when measuring beveled angles



Order Code	Range	Graduation	Accuracy	Casing Features	Dimensions (mm)
TFME25					
-60001A	0±180°	0.1°	0.2°	Plastic	50.8 x 33 x 50.8
-60002A	0±180°	0.1°	0.2°	Plastic with Vials	50.8 x 33 x 62.5
-60001B	0±180°	0.1°	0.2°	Metal	50.8 x 33 x 50.8
-60002B	0±180°	0.1°	0.2°	Metal with Vials	50.8 x 33 x 62.5

Metric HSS Pin Gauges

- The pin gauge is the pin shape according to fixed size precisely. The primary purpose of pin gauge is to measure and inspect the diameters of small holes, it also can be used as a test bar for geometric deviations measurements
- Widely used in electronic boards, PCBs, dies and manufacturing
- Material: HSS GCR15 • Accuracy: ±0.001mm
- Length: 50 ± 1mm
- Roughness: ≤ Ra0.20µm; Heat treated hardness: 60 - 63HRC



101Pc Sets

- Each below set contains 101 pieces of pins

Order Code	Size Range (mm)	Increment (mm)	Order Code	Size Range (mm)	Increment (mm)
TFME30			TFME30		
-60200T	1.00 - 2.00	0.01	-61200T	11.00 - 12.00	0.01
-60300T	2.00 - 3.00	0.01	-61300T	12.00 - 13.00	0.01
-60400T	3.00 - 4.00	0.01	-61400T	13.00 - 14.00	0.01
-60500T	4.00 - 5.00	0.01	-61500T	14.00 - 15.00	0.01
-60600T	5.00 - 6.00	0.01	-61600T	15.00 - 16.00	0.01
-60700T	6.00 - 7.00	0.01	-61700T	16.00 - 17.00	0.01
-60800T	7.00 - 8.00	0.01	-61800T	17.00 - 18.00	0.01
-60900T	8.00 - 9.00	0.01	-61900T	18.00 - 19.00	0.01
-61000T	9.00 - 10.00	0.01	-62000T	19.00 - 20.00	0.01
-61100T	10.00 - 11.00	0.01			

Individuals

Order Code	Size (mm)	To	Order Code	Remark
TFME30			TFME30	
-70010A	0.10	→ 0.11	-70011A	0.01mm increment
-70012A	0.12	→ 0.99	-70099A	0.01mm increment, 98 sizes in total
-70100A	1.00	→ 1.99	-70199A	0.01mm increment, 100 sizes in total
-70200A	2.00	→ 2.99	-70299A	0.01mm increment, 100 sizes in total
-70300A	3.00	→ 3.99	-70399A	0.01mm increment, 100 sizes in total
-70400A	4.00	→ 4.99	-70499A	0.01mm increment, 100 sizes in total
-70500A	5.00	→ 5.99	-70599A	0.01mm increment, 100 sizes in total
-70600A	6.00	→ 6.99	-70699A	0.01mm increment, 100 sizes in total
-70700A	7.00	→ 7.99	-70799A	0.01mm increment, 100 sizes in total
-70800A	8.00	→ 8.99	-70899A	0.01mm increment, 100 sizes in total
-70900A	9.00	→ 9.99	-70999A	0.01mm increment, 100 sizes in total
-71000A	10.00	→ 10.99	-71099A	0.01mm increment, 100 sizes in total
-71100A	11.00	→ 11.99	-71199A	0.01mm increment, 100 sizes in total
-71200A	12.00	→ 12.99	-71299A	0.01mm increment, 100 sizes in total
-71300A	13.00	→ 13.99	-71399A	0.01mm increment, 100 sizes in total
-71400A	14.00	→ 14.99	-71499A	0.01mm increment, 100 sizes in total
-71500A	15.00	→ 15.99	-71599A	0.01mm increment, 100 sizes in total
-71600A	16.00	→ 16.99	-71699A	0.01mm increment, 100 sizes in total
-71700A	17.00	→ 17.99	-71799A	0.01mm increment, 100 sizes in total
-71800A	18.00	→ 18.99	-71899A	0.01mm increment, 100 sizes in total
-71900A	19.00	→ 19.99	-71999A	0.01mm increment, 100 sizes in total
-72000A	20.00	→ 20.99	-72099A	0.01mm increment, 100 sizes in total
-72100A	21.00	→ 21.99	-72199A	0.01mm increment, 100 sizes in total
-72200A	22.00			

****Example of Order Code Writing Rules:**
 0.27mm = TFME30-70027A
 (Where TFME30-7 remains unchanged; 0.27mm is converted to 0027A)
 3.56mm = TFME30-70356A
 (Where TFME30-7 remains unchanged; 3.56mm is converted to 0356A)
 15.21mm = TFME30-71521A
 (Where TFME30-7 remains unchanged; 15.21mm is converted to 1521A)

Double Ended Screw Plug Gauges - Go & No Go

- Made of bearing steel GCr15, HRC58-62
- Typically used to check the internal threads of products
- The Go thread gauge must enter and pass through the full-threaded length of the product freely and the No Go thread plug gauge should never fit into the product for more than 3 turns



Screw Ring Gauges

- Made of bearing steel GCr15, HRC58-62
- Typically used to check the external threads of products and used in pairs
- The Go thread gauge must enter and pass through the full-threaded length of the product freely and the No Go thread gauge should never fit into the product for more than 3 turns



Metric Coarse

- Tolerance Class : 6H

Order Code	Range
TFME30	
-01020A	M2.0 x 0.40
-01030A	M3.0 x 0.50
-01040A	M4.0 x 0.70
-01050A	M5.0 x 0.80
-01060A	M6.0 x 1.00
-01070A	M7.0 x 1.00
-01080A	M8.0 x 1.25
-01090A	M9.0 x 1.25
-01100A	M10.0 x 1.50
-01120A	M12.0 x 1.75
-01140A	M14.0 x 2.00
-01160A	M16.0 x 2.00
-01180A	M18.0 x 2.50
-01200A	M20.0 x 2.50
-01220A	M22.0 x 2.50
-01240A	M24.0 x 3.00
-01270A	M27.0 x 3.00
-01300A	M30.0 x 3.50
-01360A	M36.0 x 4.00
-01420A	M42.0 x 4.50

Metric Fine

- Tolerance Class : 6H

Order Code	Range
TFME30	
-02030A	M3.0 x 0.35
-02040A	M4.0 x 0.50
-02050A	M5.0 x 0.50
-02060A	M6.0 x 0.75
-02070A	M7.0 x 0.75
-02080A	M8.0 x 0.75
-02080B	M8.0 x 1.00
-02090A	M9.0 x 1.00
-02100A	M10.0 x 0.75
-02100B	M10.0 x 1.00
-02100C	M10.0 x 1.25
-02120A	M12.0 x 1.00
-02120B	M12.0 x 1.25
-02120C	M12.0 x 1.50
-02140A	M14.0 x 1.00
-02140B	M14.0 x 1.50
-02160A	M16.0 x 1.00
-02160B	M16.0 x 1.50
-02180A	M18.0 x 1.50
-02180B	M18.0 x 2.00
-02200A	M20.0 x 1.00
-02200B	M20.0 x 1.50
-02200C	M20.0 x 2.00
-02220A	M22.0 x 1.50
-02220B	M22.0 x 2.00
-02240A	M24.0 x 1.50
-02240B	M24.0 x 2.00
-02270A	M27.0 x 2.00
-02300A	M30.0 x 1.50
-02300B	M30.0 x 3.00

UNC

- Tolerance Class : 2B

Order Code	Range
TFME30	
-03012A	No.4 - 40
-03018A	No.6 - 32
-03021A	No.8 - 32
-03024A	No.10 - 24
-03030A	1/4" - 20
-03033A	5/16" - 18
-03036A	3/8" - 16
-03039A	7/16" - 14
-03042A	1/2" - 13
-03045A	9/16" - 12
-03048A	5/8" - 11
-03051A	3/4" - 10
-03054A	7/8" - 9
-03057A	1" - 8

UNF

- Tolerance Class : 2B

Order Code	Range
TFME30	
-04018A	No.6 - 40
-04021A	No.8 - 36
-04024A	No.10 - 32
-04030A	1/4" - 28
-04033A	5/16" - 24
-04036A	3/8" - 24
-04039A	7/16" - 20
-04042A	1/2" - 20
-04045A	9/16" - 18
-04048A	5/8" - 18
-04051A	3/4" - 16
-04054A	7/8" - 14

Metric Coarse

- Tolerance Class : 6g

Range	GO	NO GO
	Order Code	Order Code
M2.0 x 0.40	-20020A	-21020A
M3.0 x 0.50	-20030A	-21030A
M4.0 x 0.70	-20040A	-21040A
M5.0 x 0.80	-20050A	-21050A
M6.0 x 1.00	-20060A	-21060A
M7.0 x 1.00	-20070A	-21070A
M8.0 x 1.25	-20080A	-21080A
M9.0 x 1.25	-20090A	-21090A
M10.0 x 1.50	-20100A	-21100A
M12.0 x 1.75	-20120A	-21120A
M14.0 x 2.00	-20140A	-21140A
M16.0 x 2.00	-20160A	-21160A
M18.0 x 2.50	-20180A	-21180A
M20.0 x 2.50	-20200A	-21200A
M22.0 x 2.50	-20220A	-21220A
M24.0 x 3.00	-20240A	-21240A
M27.0 x 3.00	-20270A	-21270A
M30.0 x 3.50	-20300A	-21300A
M36.0 x 4.00	-20360A	-21360A
M42.0 x 4.50	-20420A	-21420A

Metric Fine

- Tolerance Class : 6g

Range	GO	NO GO
	Order Code	Order Code
M3.0 x 0.35	-22030A	-23030A
M4.0 x 0.50	-22040A	-23040A
M5.0 x 0.50	-22050A	-23050A
M6.0 x 0.75	-22060A	-23060A
M7.0 x 0.75	-22070A	-23070A
M8.0 x 0.75	-22080A	-23080A
M8.0 x 1.00	-22080B	-23080B
M9.0 x 1.00	-22090A	-23090A
M10.0 x 0.75	-22100A	-23100A
M10.0 x 1.00	-22100B	-23100B
M10.0 x 1.25	-22100C	-23100C
M12.0 x 1.00	-22120A	-23120A
M12.0 x 1.25	-22120B	-23120B
M12.0 x 1.50	-22120C	-23120C
M14.0 x 1.00	-22140A	-23140A
M14.0 x 1.50	-22140B	-23140B
M16.0 x 1.00	-22160A	-23160A
M16.0 x 1.50	-22160B	-23160B
M18.0 x 1.50	-22180A	-23180A
M18.0 x 2.00	-22180B	-23180B
M20.0 x 1.00	-22200A	-23200A
M20.0 x 1.50	-22200B	-23200B
M20.0 x 2.00	-22200C	-23200C
M22.0 x 1.50	-22220A	-23220A
M22.0 x 2.00	-22220B	-23220B
M24.0 x 1.50	-22240A	-23240A
M24.0 x 2.00	-22240B	-23240B
M27.0 x 2.00	-22270A	-23270A
M30.0 x 1.50	-22300A	-23300A
M30.0 x 3.00	-22300B	-23300B

UNC

- Tolerance Class : 2A

Range	GO	NO GO
	Order Code	Order Code
No.4 - 40	-24012A	-25012A
No.6 - 32	-24018A	-25018A
No.8 - 32	-24021A	-25021A
No.10 - 24	-24024A	-25024A
1/4" - 20	-24030A	-25030A
5/16" - 18	-24033A	-25033A
3/8" - 16	-24036A	-25036A
7/16" - 14	-24039A	-25039A
1/2" - 13	-24042A	-25042A
9/16" - 12	-24045A	-25045A
5/8" - 11	-24048A	-25048A
3/4" - 10	-24051A	-25051A
7/8" - 9	-24054A	-25054A
1" - 8	-24057A	-25057A

UNF

- Tolerance Class : 2A

Range	GO	NO GO
	Order Code	Order Code
No.6 - 40	-26018A	-27018A
No.8 - 36	-26021A	-27021A
No.10 - 32	-26024A	-27024A
1/4" - 28	-26030A	-27030A
5/16" - 24	-26033A	-27033A
3/8" - 24	-26036A	-27036A
7/16" - 20	-26039A	-27039A
1/2" - 20	-26042A	-27042A
9/16" - 18	-26045A	-27045A
5/8" - 18	-26048A	-27048A
3/4" - 16	-26051A	-27051A
7/8" - 14	-26054A	-27054A

Feeler Gauges

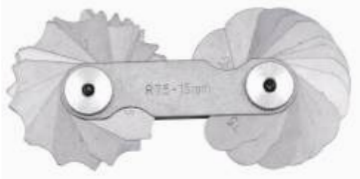
- Made of quality bearing steel
- Blades have a tapered tip for easier access to valve various gap widths in tight areas
- Each blade is marked with thickness for easy identification
- 10 Blade Metric (mm): 0.05, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80
- 10 Blade Inch: 0.0015", 0.002", 0.003", 0.004", 0.006", 0.008", 0.010", 0.012", 0.015", 0.025"
- 13 Blade Metric (mm): 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00
- 18 Blade Inch: 0.0015", 0.002", 0.0025", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.014", 0.015", 0.019", 0.020", 0.024", 0.025"
- 20 Blade Metric (mm): 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00
- 26 Blade Inch: 0.0015", 0.002", 0.0025", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025"



Order Code	Numbers of Blades	Length
TFME60		
-80110M	10 Metric	100mm / 4"
-80113M	13 Metric	100mm / 4"
-80120M	20 Metric	100mm / 4"
-90110N	10 Inch	100mm / 4"
-90118N	18 Inch	100mm / 4"
-90126N	26 Inch	100mm / 4"

Radius Gauges

- Made of quality bearing steel
- With folding blades for measuring radii on concave and convex surfaces
- Each blade is marked with radius size for easy identification
- 34-Blade: R1.0, R1.25, R1.5, R1.75, R2.0, R2.25, R2.5, R2.75, R3.0, R3.5, R4.0, R4.5, R5.0, R5.5, R6.0, R6.5, R7.0
- 32-Blade: R7.5, R8.0, R8.5, R9.0, R9.5, R10.0, R10.5, R11.0, R11.5, R12.0, R12.5, R13.0, R13.5, R14.0, R14.5, R15.0
- 30-Blade: R15.5, R16.0, R16.5, R17.0, R17.5, R18.0, R18.5, R19.0, R19.5, R20.0, R20.5, R21.0, R21.5, R22.0, R22.5, R23.0, R23.5, R24.0, R24.5, R25.0



Order Code	Numbers of Blades
TFME61	
-10034R	34
-10032R	32
-10030R	30

Long Feeler Gauges

- Made of quality bearing steel
- Wider applications by long length
- Each blade is marked with thickness for easy identification
- 10 Blade Metric (mm): 0.05, 0.10, 0.15, 0.20, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80
- 10 Blade Inch: 0.0015", 0.002", 0.003", 0.004", 0.006", 0.008", 0.010", 0.012", 0.015", 0.025"
- 13 Blade Metric (mm): 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90, 1.00
- 18 Blade Inch: 0.0015", 0.002", 0.0025", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.014", 0.015", 0.019", 0.020", 0.024", 0.025"
- 20 Blade Metric (mm): 0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 0.95, 1.00
- 26 Blade Inch: 0.0015", 0.002", 0.0025", 0.003", 0.004", 0.005", 0.006", 0.007", 0.008", 0.009", 0.010", 0.011", 0.012", 0.013", 0.014", 0.015", 0.016", 0.017", 0.018", 0.019", 0.020", 0.021", 0.022", 0.023", 0.024", 0.025"



Order Code	Numbers of Blades	Length
TFME60		
-80210M	10 Metric	300mm / 12"
-80213M	13 Metric	300mm / 12"
-80220M	20 Metric	300mm / 12"
-90210N	10 Inch	300mm / 12"
-90218N	18 Inch	300mm / 12"
-90226N	26 Inch	300mm / 12"

Screw Pitch Gauges

- Made of quality bearing steel
- Ideal for measurement of the internal and external threads
- Each blade is marked with pitch size for easy identification
- 30 Blade Metric 60°: 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.55, 0.60, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 1.00, 1.10, 1.20, 1.25, 1.30, 1.40, 1.50, 1.60, 1.70, 1.75, 1.80, 1.90, 2.00, 2.25, 2.50, 3.00
- 24 Blade ISO 60°: 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.60, 0.70, 0.75, 0.80, 0.90, 1.00, 1.25, 1.50, 1.75, 2.00, 2.50, 3.00, 3.50, 4.00, 4.50, 5.00, 5.50, 6.00
- 29 Blade British Standard BSW 55°: 4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 34, 36, 38, 40, 48, 60 TPI (plus 1 blank piece)
- 6 Blade American NPT Pipe Thread 60°: 8, 10, 11, 14, 19, 28 TPI



Order Code	Type	Numbers of Blades
TFME62		
-80030M	Metric 60°	30
-80025M	ISO 60°	24
-90029W	British Standard BSW 55°	29
-90006N	American NPT Pipe Thread 60°	6

Sine Bars

- A sine bar is used in conjunction with slip gauge blocks for precise angular measurement. A sine bar is used either to measure an angle very accurately or face locate any work to a given angle offering a high degree of accuracy in measuring angles for milling, grinding and inspection applications
- The sine bar forms the hypotenuse of a right angle triangle, while the slip gauge blocks form the opposite side. The height of the slip gauge block is found by multiplying the sine of the desired angle by the length of the sine bar: $H = L * \sin(\theta)$
- This Temo sine bar consists of a hardened, precision ground body with two precision ground cylinders fixed at the ends

Precision Type

- Specification Tolerances for Bar Sizes:
- Distance between roller axes: 0.005mm (0.0002")
- Flatness of upper working surface: 0.0007mm (0.00003")
- Parallelism of upper working surface to lower surface of rollers: 0.001mm (0.00004")
- Supplied with support plates



Order Code	Width	Roller Distance	Diagram
TFME52			
-41032A	23.8mm(15/16")	127mm(5")	1
-41039A	25.4mm(1")	254mm(10")	2
-41046A	50.8mm(2")	127 mm(5")	3

Economic Type

- Specification Tolerances for Bar Sizes:
- Distance between roller axes: 0.01mm (0.0004")
- Parallelism of upper working surface to lower surface of rollers: 0.01mm (0.0004")
- Supplied with support plates



Order Code	Width	Roller Distance
TFME52		
-41053A	25.4mm(1")	63.5mm(2-1/2")
-41060A	25.4mm(1")	127mm(5")

Precision Granite Surface Plates

- Granite surface plates are used for inspection processes where a perfectly flat surface is required. A granite material is highly stable - it does not alter with temperature changes and so remains consistently ultra-flat over a long period of time. Granite is also non-magnetic and not conductive. Granite surface plates are used in conjunction with other measuring tools, such as dial test indicators (DTI), to measure flatness, run-out and deviation to the highest levels of accuracy.
- Extremely durable, extremely resistant to acid, alkali and corrosion, never get rust
- Compressive strength up to 2290-3750kg/cm²
- Moh's hardness up to Level 6-7
- Customization is available according to customer requirements.
- Optional support stands are also available. Please inquire for further information.



Size (mm) L x W x H	Weight (kg)	Grade 00 (Accuracy µm)	Grade 0 (Accuracy µm)		Grade 1 (Accuracy µm)		Support Stand	
			Order Code TFME01	Order Code TFME01	Order Code TFME01	Order Code TFME01	Order Code TFME01	
300×300×50	19	3.0	-10300B	5.5	-10300C	11.0	-10300D	-00303S
400×400×100	48	3.5	-10400B	6.5	-10400C	13.0	-10400D	-00404S
630×400×100	76	3.5	-10630B	7.0	-10630C	14.0	-10630D	-00604S
630×630×130	155	4.0	-20630B	8.0	-20630C	16.0	-20630D	-00606S
800×500×130	156	4.0	-10800B	8.0	-10800C	16.0	-10800D	-00805S
1000×630×130	284	4.5	-11000B	9.0	-11000C	18.0	-11000D	-01006S
1000×750×150	338	4.5	-21000B	9.0	-21000C	18.0	-21000D	-01007S
1000×1000×150	450	5.0	-31000B	10.0	-31000C	20.0	-31000D	-01010S
1600×1000×200	963	6.0	-11600B	12.0	-11600C	24.0	-11600D	-01610S
1600×1600×300	2312	6.5	-21600B	13.0	-21600C	26.0	-21600D	-01616S
2000×1000×200	1200	6.5	-12000B	13.0	-12000C	26.0	-12000D	-02010S

Precision Granite Parallel Pairs

- Useful in setting up work on surface plates and machine tables
- Naturally more stable and less susceptible to temperature changes than their steel equivalent, offers versatility in precision measurements and working holding in almost very environment.
- supplied in a matched pair



Order Code TFME01	Size (mm)	Parallelism	Verticality	Height difference of a matched pair
		Accuracy Grade by µm		
-50160L	160 × 25 × 16	1.5	20	1.5
-50250L	250 × 40 × 25	2	30	2
-50400L	400 × 63 × 40	4	40	4
-50630L	630 × 100 × 63	6	50	6

Industrial Tape Measures

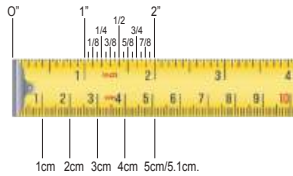
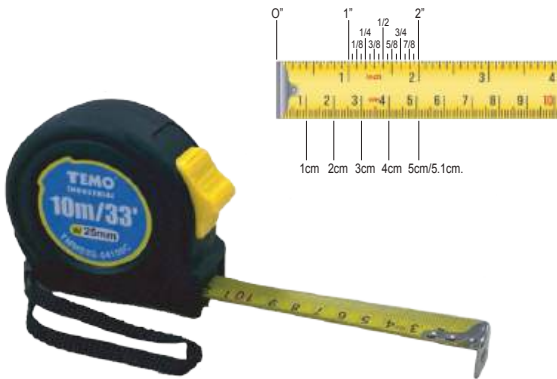
- Industrial-grade quality, durable and long-lasting.
- Plastic composite material casing, resistant to impact and effectively absorbs vibration caused by tape retraction.
- Strong locking mechanism for quick retraction.
- Thickened blade (30% thicker than the regular), sturdy and non-deformable.
- Nylon-coated tape, wear-resistant, rust-resistant, and aesthetically pleasing.
- Thickened end hook for reliable positioning.
- Multiple international certifications to ensure measurement accuracy.



Order Code	Size	Blade Length	Blade Width
TFME02			
-01030A	Metric	3.0M	16mm
-01050A		5.0M	19mm
-01075A		7.5M	25mm
-02080C	Metric/ Inch	8.0M/26'	25mm

Professional Metric/Inch Measuring Tapes

- Strong and comfortable ABS matte case, anti-drop and dirt resistance
- Wear-resistant matte blade, smooth extension and retraction, clear scale for easy reading
- The concave design helps keep the blade rigid when extended. This curve allows the blade to "stand out" while measuring, helping you read the measurement
- Safety buffer absorbs backlash during blade retraction
- Adjustable end hook provides an accurate reading whether you're measuring the inside or outside edge of a surface



Order Code	Blade Length (M / Ft)	Blade Width (mm)
TFME02		
-04030C	3M / 10'	16
-04050C	5M / 16'	19
-04080C	8M / 26'	25
-04100C	10M / 33'	25

Fiberglass Metric/Inch Measuring Tapes

- Highly durable and waterproof fiberglass tape, will not bend or deform
- Clear scale for accurate reading
- Strong ABS case provides both aesthetic appeal and durability
- Quick and flexible extension and retraction for easy operation

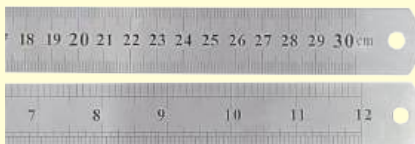


Order Code	Blade Length (M / Ft)	Blade Width (mm)
TFME02		
-20020C	20M / 66'	12.0
-20030C	30M / 100'	12.0
-20050C	50M / 165'	12.0

Flexible Rustless Steel Rules

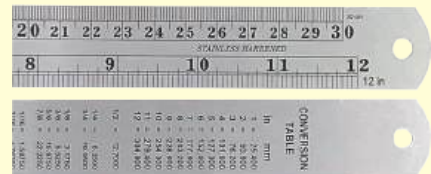
- Flexible rustless rules with permanent laser-etched marking
- Durable and corrosion resistant for long lasting
- Anti-glare finish for easy reading

Metric/Inch on Each Side



Order Code	Size (Length x Width) (mm)
TFME02	
-30006A	150 x 19
-30012A	300 x 26
-30020A	500 x 28
-30024A	600 x 28
-30040A	1000 x 28

Metric/Inch on Same Side



Order Code	Size (Length x Width) (mm)
TFME02	
-30012C	300 x 26
-30020C	500 x 26

Precision Square Frame Levels

- This precision square frame level consists of one precision measuring base plus two precision verticals.
- Used to measure the angle of inclination, flatness and straightness of machine guide rails and the horizontal and vertical position of equipment during set up
- Robust, enameled cast iron steel with a precision ground measuring surface for high accuracy
- Built-in dual vials give fast settling time
- V-groove on base for use on round bars and shafts
- Comes with mill certificate



Order Code	Size (mm)	Sensitivity (mm/m)	V-groove
-10100F	100	0.02	N/A
-10150F	150	0.02	Yes
-10200F	200	0.02	Yes
-10250F	250	0.02	Yes
-10300F	300	0.02	Yes

Precision Engineers' Levels

- A rectangle level with a precision measuring face
- Used to measure the angle of inclination, flatness and straightness of machine guide rails and the horizontal and vertical position of equipment during set up
- The body of the level is made from cast iron with a precision ground base for high accuracy
- Built-in dual vials with scales give fast settling time
- V-groove on base for use on round bars and shafts
- Comes with mill certificate



Order Code	Length (mm)	Sensitivity (mm/m)	Colour
-10100B	100	0.02	Red
-10150B	150	0.02	Black
-10200B	200	0.02	Black
-10250B	250	0.02	Black
-10300B	300	0.02	Black

Aluminum Digital Levels

- Flips in upside down position that is functional in all positions
- Audible indicator at 0°, 45°, 90°
- Both relative and absolute measurement
- Conversion between slope and length
- Data hold & backlight function
- Automatic reversed display when the electronic level is upside down
- Built-in 2 vials



Order Code	Length (mm)	Sensitivity (mm/m)
-20600D	600	0.02

Aluminum Magnetic Spirit Levels

- Made of aluminum alloy, with a spray-coated surface and precision-milled base
- Designed with a soft grip handle for comfortable use
- Equipped with three high-precision magnifying bubble vials for vertical, horizontal, and 45° measurements



Order Code	Length	Grip
-10300A	300mm / 12"	N/A
-10600A	600mm / 24"	Double Grips
-10800A	800mm / 32"	Double Grips
-11000A	1000mm / 40"	Double Grips

Steel Gauge Block Sets - Metric

- Steel gauge block set is a tool used for standard calibration of measuring instruments. This tool is used for basic measurement when measuring the workpiece so as to produce high precision on the measurement value of the workpiece. This tool has a variety of sizes so that it can be calibrated according to the required needs. Steel gauge block sets are often used in industry, factories or workshops.
- Made of high stable alloy steel, resists corrosion and defacement
- Grade 1: for laboratory; Grade 2: for workshop
- Each gauge block set meets standards BS EN ISO3650
- Comes with mill certificate

47Pc Metric Set



88Pc Metric Set



47Pc Set		Range			
Order Code	Range (mm)	Number of pieces	Increments (mm)	Grade	
-81147M	1.005	1	-		
	1.01 - 1.09	9	0.01		
	1.1 - 1.9	9	0.1	Grade 1	
	1 - 24	24	1		
	25 - 100	4	25		
-81247M	1.005	1	-		
	1.01 - 1.09	9	0.01		
	1.1 - 1.9	9	0.1	Grade 2	
	1 - 24	24	1		
	25 - 100	4	25		

88Pc Set		Range			
Order Code	Range (mm)	Number of pieces	Increments (mm)	Grade	
-81188M	1.0005	1	-		
	1.001 - 1.009	9	0.001		
	1.01 - 1.49	49	0.01	Grade 1	
	0.5 - 10	20	0.5		
	20 - 100	9	10		
-81288M	1.0005	1	-		
	1.001 - 1.009	9	0.001		
	1.01 - 1.49	49	0.01	Grade 2	
	0.5 - 10	20	0.5		
	20 - 100	9	10		

DIN875 Tables of Tolerances for Precision Squares

Range	Maximum Angle Accuracy				Maximum Verticality Accuracy			
	Grade 00	Grade 0	Grade 1	Grade 2	Grade 00	Grade 0	Grade 1	Grade 2
mm	µm	µm	µm	µm	µm	µm	µm	µm
50	3	-	-	-	2	3	5	10
75	3	7	14	28	2	3	5	11
100	3	7	15	30	2	3	6	12
150	4	8	18	35	3	4	7	14
200	4	8	20	40	3	4	8	16
250	5	10	23	45	3	5	8	18
300	5	11	25	50	3	5	10	20
500	7	15	35	70	4	7	14	26
750	10	20	43	85	5	10	19	38
1000	12	25	60	120	6	12	24	48
1500	17	35	85	170	8	17	34	68

- Manufactured from the high-strength, demagnetized stainless steel for high durable and accurate use
- Grade 00 - Inspection/calibration of high precision
- Grade 0 - Inspection grade
- Grade 1 - Tool room applications
- Grade 2 - Workshop applications
- Manufactured to German standard DIN875, DIN874

Precision Straight Edges - Laboratory

Order Code TFME75	Size (mm)	Width (mm)
-00003L	75	20
-00006L	125	20
-00007L	150	25
-00008L	175	25
-00009L	200	25
-00011L	250	30
-00013L	300	35
-00017L	400	35
-00021L	500	42
-00025L	600	42
-10060L	1500	60



*The accuracy for 1500mm long is Grade 0.

90° Squares - Industrial

Order Code TFME74	Size (mm)
-10101A	50 x 40
-10103A	75 x 50
-10105A	100 x 70
-10107A	150 x 100
-10109A	200 x 130
-10111A	250 x 165
-10113A	300 x 200
-10117A	400 x 250
-10121A	500 x 330



90° Squares with Bases - Industrial

Order Code TFME74	Size (mm)
-20101B	50 x 40
-20103B	75 x 50
-20105B	100 x 70
-20107B	150 x 100
-20109B	200 x 130
-20111B	250 x 165
-20113B	300 x 200
-20117B	400 x 250
-20121B	500 x 330



90° Precision Square Edges - Laboratory

Order Code TFME75	Size (mm)
-10001A	50 x 40
-10003A	75 x 50
-10005A	100 x 70
-10007A	150 x 100
-10009A	200 x 130
-1001A	250 x 165
-10013A	300 x 200



90° Precision Square Edges with Bases - Laboratory

Order Code TFME75	Size (mm)
-20001B	50 x 40
-20003B	75 x 50
-20005B	100 x 70
-20007B	150 x 100
-20009B	200 x 130
-2001B	250 x 165
-20013B	300 x 200



45° Angle Rules with Bases

Order Code TFME74	Size (mm)
-40205B	100 x 70
-40206B	120 x 80
-40207B	150 x 100
-40209B	200 x 130



Equilateral Rules

120°		135°		Size (mm)
Order Code TFME74	Order Code TFME74	Order Code TFME74	Order Code TFME74	
-50050A	-51050A	-50050A	-51050A	50 x 50
-50075A	-51075A	-50075A	-51075A	75 x 75
-50100A	-51100A	-50100A	-51100A	100 x 100
-50125A	-51125A	-50125A	-51125A	125 x 125
-50150A	-51150A	-50150A	-51150A	150 x 150
-50200A	-51200A	-50200A	-51200A	200 x 200



Steel Parallel Sets

- Made from high-quality alloy steel material, the product undergoes quenching treatment for high accuracy and wear resistance.
- It serves as a high-precision auxiliary tool or fixture in mechanical machining.
- It can be used individually or in combination, greatly improving processing efficiency.

10-pair Inch Set

- Specifications (thickness × width × length):
 $1/2" \times 1/8" \times 6"$, $5/8" \times 1/8" \times 6"$, $3/4" \times 1/8" \times 6"$
 $7/8" \times 1/8" \times 6"$, $1" \times 1/8" \times 6"$ $1-1/8" \times 1/8" \times 6"$
 $1-1/4" \times 1/8" \times 6"$, $1-3/8" \times 1/8" \times 6"$, $1-1/2" \times 1/8" \times 6"$
 $1-5/8" \times 1/8" \times 6"$
- Accuracy:
 Length: $\pm 0.008"$
 Width: $\pm 0.0003"$
 Thickness: $\pm 0.0002"$
- Parallelism 0.0003"



Order Code: TFME51-90010N

14-pair Metric Set

- Specifications (Angle × Thickness × Length mm):
 $14 \times 10 \times 150$, $16 \times 10 \times 150$, $18 \times 10 \times 150$, $20 \times 10 \times 150$
 $22 \times 10 \times 150$, $24 \times 10 \times 150$, $26 \times 10 \times 150$, $28 \times 10 \times 150$,
 $30 \times 10 \times 150$, $32 \times 10 \times 150$, $35 \times 10 \times 150$, $40 \times 10 \times 150$,
 $45 \times 10 \times 150$, $50 \times 10 \times 150$
- Angle accuracy: Length: $\pm 0.2\text{mm}$
 Width: $\pm 0.1\text{mm}$
 Thickness: $\pm 0.005\text{mm}$



Order Code: TFME51-80014M

12Pc Angle Plate Set

- High-quality alloy steel material, hardened and precision ground for high accuracy and wear resistance.
- Specifications (Angle × Thickness × Length mm):
 $1/4^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$, $1/2^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$
 $1^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$, $2^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$
 $3^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$, $4^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$
 $5^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$, $10^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$
 $15^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$, $20^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$
 $25^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$, $30^\circ \times 6\text{mm} (1/4") \times 76\text{mm} (3")$
- Angular precision: ± 20 minutes of arc



Order Code: TFME51-10012A

Optical Refractometer

- The product is suitable for measuring or testing:
- Various sauces such as soy sauce and tomato sauce
- Jam, syrup, liquid sugar, and other high-sugar content products
- Fruit juice, refreshing drinks, and carbonated beverages
- Accurate determination of harvesting time and sweetness classification in the process of growing and selling fruits
- Concentration measurement of textiles and industrial pulp
- Percentage concentration measurement of water-soluble cutting fluids, emulsions, grinding fluids, drawing oils, tapping oils, cutting fluids, mold release agents, and other industrial oils
- Detection of the turbidity level of cleaning liquids used for metal processing parts
- Determination of concentration in petrochemicals, electroplating development solutions, pesticides, and pharmaceutical solutions

Note: If you require other "testing ranges," please consult with us.



Order Code	Testing Range	Minimum Scale	Dimensions (mm)	weight (g)
TFME82				
-30015A	0 - 15% Brix	0.1%	30 x 40 x 160	205

Optical Microscopes

- Unique structure and design, upgraded innovation, quality, functionality, and accuracy across the series of products.
- High-resolution imaging, strong stereoscopic effect, and clear image quality.
- Wide field of view eyepiece and adjustable devices such as interpupillary distance and object distance, providing easy observation, comfort, and convenient operation.
- Research and anatomical tools for zoology, botany, entomology, histology, mineralogy, archaeology, geology, and medical biochemistry.
- High-magnification analysis lenses, inspection tools, and devices for electronics, optics, semiconductors, and other industrial applications.
- Observation, inspection, assembly, and measurement of precision metal and non-metal parts and finished products.
- Inspection and assessment of surface phenomena such as cracks, pores, and corrosion on various material products.
- Inspection of surface quality and precise calibration of lenses, prisms, or other transparent materials.
- Authentication of documents, banknotes, jewelry, and other applications for authenticity determination and analysis in various industries.
- Models with computer connectivity are available for selection.

Binocular Stereo Microscope (Zoom Continuous Magnification)

- $\varnothing 90$ black and white dual-color stage plate and non-illuminated precision-cast flat base.
- Cylindrical shape with a height of 250mm, adjustable focusing distance of 45mm.
- Binocular eyepiece with adjustable fixed magnification.
- Field of view: 28mm - 4mm, Object distance: 90mm
- Interchangeable eyepieces or additional objective lenses can be installed to increase or decrease magnification.



Order Code	Magnification
TFME82	
-01001M	7X - 45X

Single Adjustable Illumination Binocular Stereo Microscope (Zoom Continuous Magnification)

- Single adjustable illumination, cast iron base
- Square column height: 150mm; fine adjustment focus: 90mm
- Large dual eyepieces, adjustable zoom: 7X-45X
- Field diameter: 28mm-4mm, working distance: 90mm
- **Interchangeable eyepieces or additional objective lenses can be installed to increase or decrease magnification.**



Order Code	Magnification
TFME82	
-02002M	7X - 45X

Dual Adjustable Illumination Binocular Stereo Microscope (Zoom Continuous Magnification)

- Dual adjustable illumination, cast iron base
- Square column height: 150mm; fine adjustment focus: 90mm
- Large dual eyepieces, adjustable zoom: 7X-45X
- Field diameter: 28mm-4mm, working distance: 90mm
- **Interchangeable eyepieces or additional objective lenses can be installed to increase or decrease magnification.**



Order Code	Magnification
TFME82	
-03003M	7X - 45X

Tool Microscopes

- Featured with 10X cross-line dual eyepiece and CCD port
- X-Y measuring stage (including rotary table)
- X-Y digital micrometer head, resolution: 0.001mm/0.00005"
- Equipped with zoom adjustable magnification knob and adjustable focus knob
- **Interchangeable eyepieces or additional objective lenses can be installed to increase or decrease magnification.**



Order Code	Magnification	Measuring Range (mm)
TFME82		
-06025M	7.5X - 34X	25*25
-06050M	7.5X - 34X	50*50
-06025L	7X - 45X	25*25
-06050L	7X - 45X	50*50

Trinocular Stereo Microscope (Zoom Continuous Magnification)

- None illumination
- Cast iron base: 380 x 250mm; column height: 250mm; fine adjustment focus: 90mm
- Large dual eyepieces, adjustable zoom: 7X-45X
- Field diameter: 28mm-4mm, working distance: 90mm
- CCD port
- Optional image device kit: 1/3" CCD, LED circular light, image capture software & cable
- **Interchangeable eyepieces or additional objective lenses can be installed to increase or decrease magnification.**



Order Code	Magnification
TFME82	
-08004T	7X - 45X

Optional accessories: Image device kit

Order Code	Contents
TFME82	
-08004P	1) 1/3" CCD 2) LED light 3) Image capture software & cable



Trinocular Metallurgical Microscope

- 6V 20W halogen light intensity adjustable illumination unit
- Coaxial illumination cast iron base
- WF 10X/18 eyepiece
- Plain achromatic convertible objective lens unit
- X-Y cross table: 185 x 140mm
- Focusing coaxial coarse and fine adjustment unit, fine division: 0.002mm
- Optional image device kit



Order Code	Magnification	X-Y Travel Range (mm)	Objective Lens
TFME82			
-09001M	100X / 200X / 400X	75 x 50	10X / 20X / 40X



Optional accessories: Image device kit

Order Code	Contents
TFME82	
-09001P	1) 1/3" CCD 2) Image capture software & cable



Manual Rockwell Hardness Tester

Rockwell Hardness Scale, Indentors, Test Force and Applications

- Hardness testing measures a material's resistance to permanent deformation at its surface, by pressing a harder material into it. It is used in a number of industries for material comparison and selection, as well as quality control of a manufacturing or hardening process
- The Rockwell hardness test is often used as a 'quick test' on the production floor or in the laboratory, mainly for metallic materials
- This tester is a popularly-used hardness testing instrument to measure the Rockwell hardness of the materials. No need for power supply, the speed of the test force loading is regulated by the buffer and the test force is regulated by the load-change hand wheel. It has easy operation and stable performance.

Technical Specifications:

- Initial test force: 98N
- Total test force: 588N 980N 1471N
- Indenter: Conical diamond & ϕ 1.588mm steel ball
- Rockwell hardness test range: HRA(20 ~ 95), HRB(10 ~ 100), HRC(10 ~ 70)
- Hardness resolution: 0.5HR
- Max. Height of Specimen: 185mm
- Throat: 165mm
- Dimensions: 520 x 245 x 700mm
- Weight: 78kg



Order Code: TFME80-01001H

Scale	Indentor	Initial Test Force (N)	Total Test Force (N)	Application
HRA	Conical Diamond	98.07N (10Kg)	588.4 (60Kg)	Carbide, quenched steel and hardened sheet steel etc.
HRB	Ball 1/16" (1.588mm)		980.7 (100Kg)	Mild steel, aluminum alloy, copper alloy, malleable cast iron and annealing steel etc.
HRC	Conical Diamond		1471 (150Kg)	Quenched and tempered steel, cold and hard cast iron etc.

The standard accessories are listed in the table below

No.	Description	Quantity
1	Conical Diamond Indentor	1
2	ϕ 1.588mm steel ball indent	1
3	Large Flat Anvil	1
4	Small Flat Anvil	1
5	V-Notch Anvil	1
6	Rockwell Std. Test Blocks HRC (20-30), HRC (60-70), HRB (80-100)	3
7	Weights: A, B, C	3
8	Dust Cover	1
9	Instruction Manual	1
10	Product Certificate	1

Rockwell Hardness Tester for Plastic

Plastic Rockwell hardness indication error and repeatability

- This plastics Rockwell hardness tester adopts the mechanism of automatic loading and unloading of the test force, the test force is regulated by the load-change hand wheel. It can select the dwell time and is very easy to use. Besides setting zero to dial, there is no man-made error. The instrument has high sensitivity and stability, suitable for laboratories and workshops
- Applications: hard plastic, hard rubber, aluminum, tin, copper, mild steel, synthetic resin and friction materials etc.

Scale	Standard Hardness Block	Value Indication Tolerance	Max. of Indication Repeatability
HRE	70~94HRE	\pm 2.0HRE	2.5HRE
HRL	100~120HRL	\pm 1.2HRL	1.5HRL
HRM	85~110HRM	\pm 1.5HRM	2.0HRM
HRR	114~125HRR	\pm 1.2HRR	1.5HRR

Technical Specifications:

- Initial test force: 98.07N, tolerance: \pm 2%
- Total test force: 588.4N 980.7N 1471N, tolerance: \pm 2%
- Indenter: ϕ 3.175mm steel ball, ϕ 6.35mm steel ball, ϕ 12.7mm steel ball
- Power: 220V \pm 5%, 50~60Hz
- Dwell time: 2~60 seconds (15 seconds for plastic test)
- Max. Height of Specimen: 175mm
- Throat: 165mm
- Dimensions: 520 x 215 x 700mm
- Weight: 78kg

Plastic Rockwell Hardness Scale, Indentors, Test Force and Applications

Scale	Indentor	Initial Test Force (N)	Total Test Force (N)	Application
HRE	ϕ 3.175mm (1/8 inch)	98.07	980.7	Hard plastic, hard rubber, aluminum, tin, copper, mild steel, synthetic resin and friction materials.
HRL	ϕ 6.35mm (1/4 inch)		588.4	
HRM	ϕ 6.35mm (1/4 inch)		980.7	
HRR	ϕ 12.7mm (1/2 inch)		588.4	

The standard accessories are listed in the table below

No.	Description	Quantity
1	ϕ 3.175mm Steel Ball Indentor	1
2	ϕ 6.35mm Steel Ball Indentor	1
3	ϕ 12.7mm Steel Ball Indentor	1
4	Large Flat Anvil	1
5	Small Flat Anvil	1
6	V-Notch Anvil	1
7	Rockwell Std. Hardness Blocks: HRE, HRL, HRM, HRR	4
8	2A Fuses	2
9	Power Cable	1
10	Weights: A, B, C	3
11	Spirit Level	1
12	Horizontal Adjustment Screws	4
13	Screwdriver	1
14	Spanner	1
15	Dust Cover	1
16	Instruction Manual	1
17	Product Certificate	1



Order Code: TFME80-01005H

Pen Type Digital Multimeter with Light

- A pen type multimeter, compact and easy to carry
- Compact casing with built-in shockproof protection
- Featured with rotary switch, backlight, auto shutdown, insulated probes and overload protection etc.
- Maximum reading: 1999
- Logic test: high level > 3.5V, low level < 1.5V
- DC voltage: 200mV / 2V / 20V / 200V / 600V
- AC voltage: 2V / 20V / 200V / 600V
- DC current: 20-200mA
- AC current: 20-200mA
- Resistance: 200Ω / 2kΩ / 20kΩ / 200kΩ / 2MΩ / 20MΩ
- Diode: 1.5V / 1mA
- Safety standard: CAT III



Order Code	Size (mm)	Weight (g)
TFMU10		
-11010L	230 x 57 x 30	182

Pen Type Digital Multimeter

- A pen type multimeter, compact and easy to carry
- Featured with auto ranging, data hold, continuity test, auto shutdown, low battery indication, overload protection
- Maximum reading: 1999
- DC voltage: 200mV / 2V / 20V / 200V / 600V
- AC voltage: 2V / 20V / 200V / 600V
- DC current: 20-200mA
- AC current: 20-200mA
- Resistance: 200Ω / 2kΩ / 20kΩ / 200kΩ / 2MΩ / 20MΩ
- Diode: 1.5V / 1mA
- Safety standard: CAT II



Order Code	Size (mm)	Weight (g)
TFMU10		
-12010V	230 x 44 x 30	110

Digital Clamp Multimeter

- Suitable for measuring AC/DC voltage, AC/DC current, resistance, frequency and diode test
- Featured with data hold, zero button for DC current measurement, audible continuity, low battery indication and overload protection etc.
- Maximum reading: 1999
- DC voltage: 1000V (± 1.0%)
- AC voltage: 750V (± 1.2%)
- DC current: 200A / 1000A (± 2.0%)
- AC current: 200A / 1000A (± 2.0%)
- Resistance: 200KΩ (± 1.0%)
- Frequency test: 2KHz (± 2.5%)
- Safety standard: CAT II



Order Code	Size (mm)	Weight (g)
TFMU20		
-11001A	250 x 99 x 43	400

Mini Digital Clamp Multimeter

- A mini clamping multimeter, compact and easy to carry. Robust casing delivers 2m drop proof. High reliability and durable. Suitable for measuring AC/DC voltage, AC current and resistance etc.
- Featured with data hold, low battery indication, overload protection, continuity test, diode test etc.
- Maximum reading: 1999
- DC voltage: 600V (± 1.0%)
- AC voltage: 600V (± 1.2%)
- AC current: 20A / 200A / 400A (± 3.0%)
- Resistance: 2000Ω / 200KΩ (± 1.2%)
- Safety standard: CAT II



Order Code	Size (mm)	Weight (g)
TFMU20		
-12001A	151 x 65 x 34	127

Screen Foldable Digital Multimeter

- 50mm large foldable screen for easy reading from vary of angles
- Large-scale integrated circuit for reliable performance
- Autozero, polarity test, overload indication, data-hold, audible continuity etc. Suitable for using at laboratories, factories and colleges etc.
- Maximum reading: 1999
- DC voltage: 200mV / 2V / 20V / 200V / 1000V
- AC voltage: 2V / 20V / 200V / 750V
- DC current: 20mA / 200mA / 10A
- AC current: 20mA / 200mA / 10A
- Resistance: 200Ω / 2KΩ / 20KΩ / 200KΩ / 2MΩ / 20MΩ / 200MΩ
- Capacitance: 2nF / 20nF / 200nF / 2μF / 20μF
- Diode: 3V / 1mA
- Transistor: Vce≈3V, Ib≈10μA
- Safety standard: CAT II



Order Code	Size (mm)	Weight (g)
TFMU11		
-12010V	200 x 97 x 48	495

Digital Multimeter / Temperature Tester

- A multimeter compatible with temperature measurement
- Large-scale integrated circuit for reliable performance
- 70mm large screen for easy reading
- Autozero, polarity test, overload indication, data-hold, audible continuity etc. Suitable for using at laboratories, factories and colleges etc.
- Temperature test: 0 ~ 1000 °C
- DC voltage: 200mV / 2V / 20V / 200V / 1000V
- AC voltage: 200mV / 2V / 20V / 200V / 750V
- DC current: 20μA / 200μA / 2mA / 20mA / 200mA / 1A / 10A
- AC current: 20μA / 200μA / 2mA / 20mA / 200mA / 1A / 10A
- Resistance: 200Ω / 2KΩ / 20KΩ / 200KΩ / 2MΩ / 20MΩ / 200MΩ
- Capacitance: 2000pF / 20nF / 200nF / 2μF / 20μF
- Frequency: 20KHz / 2MHz
- Duty cycle: 0.1% ~ 99.9%
- Level: High > 2.0V; Low < 0.8V
- Diode: 3V / 1mA
- Transistor: Vce≈3V, Ib≈10μA



Order Code	Size (mm)	Weight (g)
TFMU30		
-11010T	200 x 97 x 48	495

Auto Range Digital Multimeter

- Auto and manual range conversion
- Analog bar graph delivers additional display
- Ideal for Measuring DC AC voltage, AC and DC current, continuity, resistance, diode, transistor, capacitance and frequency etc.
- Data-hold, audible continuity, overload indication, low battery indication etc.
- DC voltage: 326mV ~ 1000V
- AC voltage: 3.26V ~ 750V
- DC current: 326μA ~ 10A
- AC current: 326μA ~ 10A
- Resistance: 326Ω ~ 3.62MΩ
- Capacitance: 326nF ~ 32.6μF
- Frequency: 32.6kHz ~ 200kHz
- Diode: 2.8V / 1mA
- Transistor: Vce≈3V, Ib≈10μA



Order Code	Size (mm)	Weight (g)
TFMU11		
-11010V	189 x 91 x 31.5	310

Professional Auto Range Insulation Digital Tester

- An insulation measurement instrument for resistance, motor coil, transformer and printed circuit etc.
- Auto and manual range conversion
- Large display screen with backlight function
- Analog bar graph delivers additional display
- Data-hold, auto polarity indication, relative value measurement, max./min. measurement, overload protection, low battery indication etc.
- Featured with test lock and auto unlock after 30 seconds
- Maximum reading: 3999
- DC voltage: 400mV / 4V / 40V / 400V ± (0.8% + 2) / 600V ± (1.0% + 2)
- AC voltage: 4V / 40V / 400V ± (1.0% + 3) / 600V ± (1.2% + 3)
- DC microamperes: 400μA / 4000μA ± (1.2% + 3)
- AC microamperes: 400μA / 4000μA ± (1.5% + 5)
- DC mA: 40mA / 400mA ± (1.5% + 3)
- AC mA: 40mA / 400mA ± (2.0% + 5)
- DC 10 A: 10A ± (2.0% + 5)
- AC 10 A: 10A ± (2.5% + 5)
- Resistance: 400Ω / 4kΩ / 40kΩ / 400kΩ / 4MΩ ± (1.0% + 3) / 40MΩ ± (3.0% + 3)
- Frequency: 4kHz / 40kHz / 400kHz ± (0.8% + 3)
- Diode: 3.0V
- Safety standard: CAT III



Order Code	Size (mm)	Weight (g)
TFMU50		
-11010R	200 x 100 x 56	620

5 In 1 Environment Auto Range Digital Tester

- This 5 in 1 environment multimeter is the best choice for various harsh and high power pressure industrial sites. In addition to basic functions, this multimeter can measure luminosity, sound level, humidity and temperature etc.
- Sturdy structure, covered by ergonomic protective case
- Built-in back stand
- Auto and manual range conversion
- Data-hold, relative value measurement, AC/DC conversion etc.
- Audible auto shutdown after 15 minutes
- Maximum reading: 3999
- DC voltage: 0.4V / 4V / 40V / 400V / 600V \pm 0.7%
- AC voltage: 4V / 40V / 400V / 600V \pm 0.8%
- Resistance: 400 Ω / 4K Ω / 40K Ω / 400K Ω / 4M Ω \pm 1.2% / 40M Ω \pm 2.0%
- Capacitance: 4nF / 40nF / 400nF / 4 μ F / 40 μ F / 200 μ F \pm 3.0%
- Frequency: 10Hz / 100Hz / 1KHz / 10KHz / 100KHz \pm 2.0%
- Duty cycle: 0.1% -99.9% \pm 3.0%
- Temperature: -20 $^{\circ}$ C-400 $^{\circ}$ C \pm 3.0% (0.1 $^{\circ}$ C) / -20 $^{\circ}$ C-1000 $^{\circ}$ C \pm 3.0% (1 $^{\circ}$ C)
- Humidity: 30% -95% RH \pm 5.0%
- Luminosity: 4000Lux / 40000Lux \pm 5.0%
- Sound decibel: 35-100dB \pm 4dB
- Continuity test: Yes
- Diode test: Yes
- Safety standard: US ETL approval, CAT II



Order Code	Size (mm)	Weight (g)
TFMU40		
-11010E	162 x 83 x 47	310

3 In 1 EMF Digital Tester

- This 3 in 1 EMF multimeter is especially for various harsh and high power pressure industrial sites. In addition to basic functions, this multimeter can measure electromagnetic field radiation and temperature etc.
- Sturdy structure, covered by ergonomic protective case
- Built-in back stand
- Auto and manual range conversion
- Data-hold, relative value measurement, auto polarity indication, overland protection and low battery indication etc.
- Audible auto shutdown after 15 minutes
- Maximum reading: 3999 • EMF: 400mG / 4000mG
- DC voltage: 0.4V / 4V / 40V / 400V / 600V \pm 0.7%
- AC voltage: 4V / 40V / 400V / 600V \pm 0.8%
- Resistance: 400 Ω / 4K Ω / 40K Ω / 400K Ω / 4M Ω \pm 1.2% / 40M Ω \pm 2.0%
- Capacitance: 4nF / 40nF / 400nF / 4 μ F / 40 μ F / 200 μ F \pm 3.0%
- Frequency: 10Hz / 100Hz / 1KHz / 10KHz / 100KHz \pm 2.0%
- Temperature: -20 $^{\circ}$ C-400 $^{\circ}$ C \pm 3.0% (0.1 $^{\circ}$ C) / -20 $^{\circ}$ C-1000 $^{\circ}$ C \pm 3.0% (1 $^{\circ}$ C)
- Safety standard: US ETL approval, CAT II



Order Code	Size (mm)	Weight (g)
TFMU60		
-11010D	162 x 83 x 47	310

Ultrasonic Thickness Tester

Applications:

- Widely used in manufacturing, metal processing, chemical industry, commercial inspection and other testing fields
- By using magnetic induction principle: this tester can measure the thickness of non-magnetic coating layers (aluminum, chrome, copper, enamel, rubber, paint) on magnetic substrate (steel, iron, alloy and magnetic stainless steel)
- By using eddy current principle: this tester can measure the thickness of non-conductive coating layers (enamel, rubber, paint, vanish, plastic anodic oxide layer) covered on non-ferrous substrate (aluminum, brass, zinc, tin and non-magnetic stainless steel)

Product description:

- This tester is featured with dual usage of magnetic induction (F) and eddy current (NF) testing
- Data storage capacity - 99 groups
- Dual usage on iron-based and none iron-based materials
- Dual measurement modes: single and continuous (NB: continuous mode is more convenient to measure the coating thickness of curved or tiny objects.)
- Metric/imperial conversion.
- Manual or automatic power off, low battery indication
- Auto memory of calibration value and auto recognition of the tested substrates
- Buzzing reminder during the operation but muting in continuous mode
- Optional RS-232 data output to connect with PC
- Optional bluetooth device
- Split type with vary of probes (optional) providing more flexibility of measurement

Product parameters:

- Measurement principle: F Magnetic Induction / NF Eddy Current
- Measuring range: 0 ~ 1250 μ m / 0 ~ 50mils (standard range)
- Resolution: 0.1 μ m / 1 μ m
- Min. radius workpiece: F: convex 1.5mm / concave 25mm
NF: convex 3mm / concave 50mm
- Minimum measurement area: 6mm
- Minimum sample thickness: 0.3mm ((11.81mils)
- Accuracy: \pm 1 ~ 3% N or \pm 2.5 μ m
- Low battery indication
- Working conditions: temperature: 0 ~ 40 $^{\circ}$ C, humidity: 10 ~ 90% RH
- Power: 2 x AAA batteries
- Size: 126 x 65 x 35mm
- Weight: 81g (without battery)

Standard accessories:

- 1 x main unit
- 1 x F type probe
- 1 x NF type probe
- 1 x calibration foil set (4)
- 1 x F calibration base set
- 1 x NF calibration base set
- 1 x carrying case
- 1 x instruction manual

Optional accessories:

- RS232 or USB online cable and software
- Bluetooth devices and software



Order Code	Measuring Range
TFMU67	
-01001D	0~1250 μ m / 0~50mil

Ultrasonic Thickness Testers

Applications:

- For non-destructive precision measurement of the thickness of a variety of pipe, pressure vessel, plates, processing parts & etc.

Product description:

- Used the latest high-performance, low-power consumption microprocessor technology
- Auto memory of material code and sound speed value, easy to operate
- Coupling status indication
- Auto/manual power-off
- Optional USB, RS232C output data cable



Parameters

Product Code	TFMU67-05001D	TFMU67-05002D
Display	4 digit LCD	
Measuring Range	1.2 ~ 200mm / 0.05 ~ 8inch	1.5 ~ 200mm / 0.06 ~ 8inch
Resolution	0.1mm	
Accuracy	±(0.5% <i>n</i> +0.1)	±(0.5% <i>n</i> +0.2)
Lower Limit of Pipes	Φ15 x 2.0mm, Φ20 x 3.0mm, determined by transducer	
Sound Velocity	1000 ~ 9000m/s	-
Operating Temperature	0 - 40°C	
Operating Humidity	<85%RH	
Power Supply	4 x AAA	4 x AA
Dimensions	120 x 62 x 30mm	160 x 68 x 32mm
RS-232 Cable & Software	Optional	-
Bluetooth & Software	Optional	-

Measurable Materials

Code	Material	Code	Material
CD01	Steel	CD07	Quartz Glass
CD02	Cast Iron	CD08	Polyethylene
CD03	Aluminum	CD09	PVC
CD04	Red Copper	CD10	Gray Cast Iron
CD05	Brass	CD11	Nodular Cast Iron
CD06	Zinc	XXXX	Sound Velocity

** -05001D, besides the above listed materials, it can also measure the other materials by using sound velocity measurement function

** -05002D, it can measure the above listed materials only

Set includes:

- | | | |
|-------------------------------|--------------------|-----------------------|
| 1 Ultrasonic Thickness Tester | 1 x 5MHz Φ8 sensor | 1 x Calibration block |
| 1 x Coupling agent | 1 x Carry box | 1 x Operation manual |

Optional accessories:

- 6MHz Φ6 small diameter sensor:
Measuring range (steel): 1.0 ~ 50.0mm Allowable contact temperature 0°C ~ 50°C
- 5MHz Φ12 high temperature sensor:
Measuring range (steel): 1.2 ~ 225.0mm (room temperature) Allowable contact temperature 60°C ~ 300°C
- USB, RS232C communication cable and software (Only compatible with -05001D)
- Bluetooth devices and software (Only compatible with -05001D)



Order Code	Measuring Range	Measurable Materials
TFMU67		
-05001D	1.2 ~ 200mm / 0.05 ~ 8inch	11 kinds in above table + others by using sound velocity measurement function
-05002D	1.5 ~ 200mm / 0.06 ~ 8inch	11 kinds in above table only

Digital Wall Detector

- Used to detect metal, wood, and AC cable hidden in the wall
- Maximum detection depth:
Ferrous metal (iron pipe with a minimum diameter of 3cm): 100mm
Nonferrous metal (copper and aluminum with a minimum volume of 30*2*2cm): 80mm
Live Wire: 50mm
Wood (with a minimum volume of 20*16*4cm): 20mm
- Operating temperature range: -10°C ~ +50°C
- Storage temperature range: -20°C ~ +70°C
- Auto power off after 5 minutes
- 1 off 9V rechargeable battery for 6 hours usage
- Weight: 240g

Order Code	Weight (g)
TFMU70	
-01101A	240



Roughness Tester

Applications:

- This multi-parameter tester designed to measure 4 parameters (Ra, Rz, Rq, Rt) using the built-in diamond pin probe. This tester is widely used in production site to measure surface roughness of various machinery-processed parts and calculate corresponding parameters according to selected measuring conditions and clearly display all measurement parameters in Metric or Imperial. It also have 4 wave filtering methods (RC, PC-RC, GAUSS & D-P) and memorize 7 groups of measurement results & conditions for use at a later time.
- Widely used in production sites, laboratories and workshops etc.

Product description:

- Used advanced computer technology, in line with the standards such as GB/T 6062, ISO, DIN, ANSI and JIS etc.
- When measuring the roughness of a surface, the sensor is placed on the surface and then uniformly slides along the surface by driving the mechanism inside the tester. The sensor gets the surface roughness by the sharp built-in probe. This roughness causes displacement of the probe which results in change of inductive amount of induction coils so as to generate analogue signal, which is in proportion to the surface roughness at output end of phase-sensitive rectifier. The exclusive DSP processes and calculates and then outputs the measurement results on LCD.
- Multiple parameter measurement: Ra, Rz, Rq, Rt
- Highly sophisticated inductance sensor
- Highly sophisticated inductance sensor
- 4 wave filtering methods : RC, PC-RC, GAUSS and D-P
- Built-in lithium ion rechargeable battery and control circuit with high capacity
- Small in size, light in weight and easy to use
- Manual and Auto switch off
- Memorize 7 groups of measurement results and conditions
- Metric / Imperial conversion
- Option to communicate with PC computer for statistics, printing and analyzing via the optional cable and software for RS232C interface
- Optional bluetooth adapter with software



Product parameters:

- Multiple parameter measurement: Ra, Rz, Rq, Rt
- Display: 4 digits, 10mm LCD with blue backlight
- Measuring range:
Ra, Rq : 0.005~16.00µm / 0.020~629.9 µinch
Rz, Rt : 0.020~160.0µm / 0.078~6299 µinch
- Accuracy: $\pm 10\%$
- Fluctuation of display value: $\leq 6\%$
- Sensor:
Measuring principle: inductance type
Radius of probe in: 5µm
Material of probe pin: diamond
Dynamo-measurement of Probe: 4mN (0.4gf)
Probe angle: 90°
Vertical radius of guiding head: 48mm
Maximum driving stroke: 17.5mm / 0.7inch
Sampling length: 0.25mm / 0.8mm / 2.5mm optional
- Driving speed:
Sampling length = 0.25mm, Vt = 0.135mm/s
Sampling length = 0.8mm, Vt = 0.5mm/s
Sampling length = 2.5mm, Vt = 1mm/s
Returning, Vt = 1mm/s
- 4 wave filtering methods: RC, PC-RC, GAUSS & D-P
- Resolution:
0.001µm if reading <10µm
0.01µm if 10µm ≤ reading <100µm
0.1µm if reading ≥100µm
- Evaluation length: 1L ~ 5L optional
- Store memory: 7 groups of measurement
- Operating conditions:
Temperature: 0 ~ 50°C
Humidity: <85%
- Power Li-ion battery: rechargeable
- Size: 140 x 57 x 48mm (5.5 x 2.2 x 1.9 inch)
- Weight: 420g



Set includes:

- 1 x Main unit
- 1 x Standard sensor
- 1 x Standard sample plate
- 1 x Small screwdriver
- 1 x Carrying case
- 1 x Operation manual

Optional accessories:

- Groove stylus sensor
- Curvature probe sensor
- Extension rod
- Measurement stand
- RS-232C cable with software
- Bluetooth adapter with software



Order Code	Measuring Range
TFMU66	Ra, Rq: 0.005 ~ 16.00µm / 0.020 ~ 629.9 µinch
-01001R	Rz Rt: 0.020 ~ 160.0µm / 0.078 ~ 6299 µinch

Concrete Surface Texture Tester

Applications:

- Ideal for measuring the roughness of concrete, screed and similar surfaces according to DIN, ISO, ANSI and JIS

Product description:

- Multiple parameter measurement: Ra, Rz, Rq, Rt
- Highly sophisticated inductance sensor
- 4 wave filtering methods : RC, PC-RC, GAUSS and D-P
- Metric / Imperial conversion
- Memory storage up to 7 groups of measurements which can be used for later evaluation on the display or for data transfer to PC/notebook via the RS-232/USB interface
- Manual or automatic shut down
- Built-in lithium ion rechargeable battery and control circuit with high capacity
- Small in size, lightweight and easy to use
- Optional USB/RS232 cable and bluetooth device

Parameters

Multiple Parameter Measurement	Ra, Rq, Rz, Rt	
Measuring Range	Ra, Rq: 0.005µm ~ 20.00µm Rz, Rt: 0.020µm ~ 200.0µm	
Accuracy	≤ ±10%	
Fluctuation of Display Value	≤6%	
Resolution	0.001 / 0.01 / 0.1	
Sensor	Radius of Probe Pin	10µm
	Material of Probe Pin	Diamond
	Measurement Force of Probe	16mN (1.6gf)
	Probe Angle	90°
	Vertical Radius of Guiding Head	48 mm
	Maximum Driving Stroke	17.5mm / 0.7inch
	Sampling Length (L)	0.25mm, 0.8mm, 2.5mm
Driving Speed	Sampling	When Length = 0.25mm, Vt = 0.135 mm/s
		When Length = 0.8mm, Vt = 0.5mm/s
		When Length = 2.5mm, Vt = 1mm/s
	Returning	Vt=1mm/s
4 Wave Filtering Methods	RC, PC-RC, GAUSS, D-P	
Evaluation Length	1L ~ 5L Optional	
Memory Storage Capacity	7 Groups	
Operating Conditions	Temperature: 0 ~ 50°C	
	Humidity < 90%RH	
Power Supply	Built-in Rechargeable Li-ion Battery	
Dimensions	140mm x 52mm x 48mm	
Weight	420g	

Set includes:

- 1 x Main unit
- 1 x Standard sample plate SSP-100
- 1 x Small screwdriver
- 1 x Carry case
- 1 x Operation manual

Optional accessories:

- 1. RS232C/USB cable with software
- 2. Bluetooth adapter with software
- 3. Extension rod SER-150
- 4. Groove stylus SRP-110
- 5. Curvature probe SRP-120
- 6. Measurement stand SRS-1



Order Code
TFMU66

Measuring Range

-06210C

Ra, Rq: 0.005µm ~ 20.00µm
Rz, Rt: 0.020µm ~ 200.0µm

Moisture Meter

- This 2-in-1 digital multi-function humidity & temperature meter is designed to combine the functions of humidity and temperature meter.
- Complex and advanced, very easy and convenient to use and operate, widely used in workshops, offices, plants, libraries, computer stations, laboratories and warehouses.
- Used exclusive micro-computer LSI circuit and quartz time base to offer the high accuracy and fast measurement
- Wide measuring range of 10 ~ 95%RH & -10 ~ 60°C with high resolution & accuracy
- Easy-to-read LCD screen for accurate reading with error free
- Auto memory storage of last values/maximum values/minimum values of both humidity and temperature
- Alternating display of humidity and temperature values
- Durable, reliable and easy to carry

Parameters

Display	LCD
Measuring Range	Humidity: 10 ~ 95%RH
	Temp: -10 ~ 60°C (14 ~ 140°F)
Resolution	Humidity: 0.1%RH
	Temp: 0.1°C / 0.1°F
Accuracy	Humidity: 2.5% ± 1%RH
	Temp: ±0.5°C
Sensor Type	Humidity: Capacitor
	Temp: Resistor
Sampling Time	0.4s
Memory	Last Value, Max.Value, Min. Value
Time base	Quartz
Power Supply	4x1.5V AA (UM-3) Batteries
Power Consumption	Approx. 20mA
Dimensions	161 x 69 x 32mm(6.6 x 2.7 x 1.3 inch)
Weight	300g / 0.65lb (batteries included)

Set includes:

- 1. Main unit
- 2. Carrying case
- 3. Instruction manual



Order Code
TFMU66

Measuring Range

-06290M

Humidity: 10 ~ 95%RH
Temp: -10 ~ 60°C (14 ~ 140°F)

** We also supply the below Dew Point Meter, in addition to all functions and parameters of above moisture meter.

Order Code
TFMU66

Measuring Range Resolution Accuracy

-06292D

Dew Point Temp: -40°C ~ 40°C 0.1°C ± 1°C
Humidity: 10 ~ 95%RH 0.1%RH 2.5% ± 1%RH
Temp: -10 ~ 60°C (14 ~ 140°F) 0.1°C / 0.1°F ±0.5°C

Soil Moisture Meter

- Soil moisture is an important component of soil, which plays an important role in the growth of crops. The instrument adopts pin type measurement, by measuring the electrical conductivity between the two pins to measure the moisture content of soil
- Main LCD display gives exact reading with no guessing or errors while a colour coded light (LED) indicates the moisture status of the material. This LCD and LED combined presentation of moisture measurement helps the user to map the extent of problems and monitor changes in condition precisely and reliably
- Adopts the exclusive micro-computer LSI circuit and crystal time base to offer high accuracy measurement. It can automatically obtain the temperature corrected moisture value
- Wide measuring range and high resolution
- Memory storage up to 99 groups of measurements
- Temperature compensation function ensuring the accurate readings
- Automatic power off
- Option to communicate with PC computer for statistics, printing and analyzing by a USB cable or a bluetooth adapter

Parameters

Sensor	Pin
Measuring Range	0 - 80%RH
Accuracy	$\pm(0.5\%n + 1)$
Resolution	0.1
Display	LCD
LED Indicator	Green: representing a safe, air-dry status Yellow: representing a critical status Red: representing a damp status
Statistics	Last value / Mean value / Max. value / Min. value / Numbers of readings
Memory Storage Capacity	99 groups
Operating Conditions	Temperature: 0 ~ 50°C Humidity < 90%RH
Power Supply	4 x 1.5V AAA (UM-4) batteries Main unit: 140 x 73 x 35mm
Dimensions	Sensor: 320 x 44 x 44mm
	Length of pin: 150mm
	Diameter of pin: 3mm
	Distance between 2 pins: 18mm
Weight	280g (batteries not included)

Set includes:

1. Main unit.....1
2. Sensor.....1
3. Carry case.....1
4. Operation manual.....1

Optional accessories:

1. USB cable with software
2. Bluetooth adapter with software



Order Code	Measuring Range
TFMU66	
-07828M	0 ~ 80%RH

Belt Tension Meter

- This belt tension tester mainly used in belt tension measurement, can also be applied to measure the tension of objects such as tapes, wires. Widely applied in industries of automobile, textile, cables, wires, plastic films, paper and printing industries
- Complex and advanced, it is convenient to use and operate. Light in weight, easy to carry anywhere
- Used the exclusive micro-computer LSI circuit and quartz time base to offer high accuracy measurement
- During the measurement or adjustment, the tension value is displayed at a real time, accompanied by the indication and sound. These give the opportunity to know if the tension value is within the set range, make the job much easier
- Tension value can be displayed in a variety of standard and manufacturers' units
- Tension limits can be set into the instrument, either manually or automatically
- The selected tension limits, measurement units and calibration parameters are stored in the memory of the tester even the instrument is switched off
- Auto switch off after 10 minutes no use
- Low battery indication
- Use USB/RS-232 data output to connect with PC
- Optional bluetooth and software

Parameters

Display	4 digits, 10mm LCD Tension indicator: Colored LED indication of high, low and OK
Measuring Range	0 ~ 750 N
	0 to 120 lb
	0 ~ 77 kg
	0 ~ 114 Seems
Belt Width	up to 36 mm
Overload Alarm	750 N
Max. Load	850 N
Resolution	± 1 (unit of measurement)
Accuracy	$\pm 5\%$ of full scale
Data Output	USB, RS-232, Bluetooth
Sound Alarm	Buzzer
Power	4 x AAA batteries
Size	135 x 62 x 33 mm
Weight	335g (batteries not included)

Set includes:

1. Main unit.....1
2. Measuring sensor.....1
3. Carrying case.....1
4. Instruction manual.....1

Optional accessories:

1. RS-232C cable with software
2. Bluetooth data adapter with software



Order Code	Measuring Range
TFMU66	
-02880B	0 ~ 750 N
	0 ~ 120 lb
	0 ~ 77 kg
	0 ~ 114 Seems

Vibration Meter

- In accordance with ISO 2954, used for periodic measurements, to detect out-of-balance, misalignment and other mechanical faults in rotating machines
- Specially designed for easy on site vibration measurement of all rotating machinery for quality control, commissioning, and predictive maintenance purposes
- Individual high quality accelerometer for accurate and repeatable measurements
- Bearing condition monitoring function
- Use USB/RS-232 data output to connect with PC
- Optional headphones for use as electronic stethoscope
- Optional bluetooth and software

Parameters

Sensor	Piezoelectric Transducer	
Measuring Range	Acceleration	0.1m/s ² ~ 199.9m/s ² ; Equivalent Peak
	Velocity	0.01mm/s ~ 199.9mm/s; True RMS
	Displacement	0.001mm ~ 1.999mm; Equivalent Peak - Peak
Frequency Range	Acceleration	10Hz ~ 10kHz
	Velocity	10Hz ~ 1kHz
	Displacement	10Hz ~ 1kHz
Accuracy	5% of reading + 2 digits	
Operating Conditions	Temperature	0°C ~ 50°C
	Humidity	<90%RH
Power Supply	4 x 1.5V AA (UM-3) battery	
Dimensions	160mm x 68mm x 32mm	
Weight	181g (batteries not included)	

Set includes:

1. Main unit 1
2. Piezoelectric transducer..... 1
3. Powerful rare earth magnet..... 1
4. Probe(Cone)..... 1
5. Probe(Spherical)..... 1
6. Carry case..... 1
7. Instruction manual..... 1

Optional accessories:

1. Headset
2. RS-232C data cable with software
3. Bluetooth data adapter with software



Order Code	Measuring Range
TFMU66	0.1m/s ² ~ 199.9m/s ² ; Equivalent Peak
-06320V	0.01mm/s ~ 199.9mm/s; True RMS
	0.001mm ~ 1.999mm; Equivalent Peak - Peak

Shore Hardness Tester

- Used to determine the indentation hardness of materials ranging from cellular products to rigid plastics
- This Temo quality product finds applications in measurement of the penetration hardness of rubber, elastomer and other rubbers like substances such as neoprene, silicone, and vinyl. It can also be used for soft plastics, felt, leather and similar materials
- Comply with the standards such as DIN53505, ISO868, ISO7619, ASTM D2240, JISK7215, GB/T531-1999, GB/T2411-80
- Average calculation • Peak value deposit
- Low battery alarm
- Use USB/RS-232 data output to connect with PC
- Optional bluetooth and software

Parameters

Parameters	Tested Result / Average Value / Max. Value
Unit	HA / HB / HC / HD / HE / HDO / HO / HOO
Display Range	0HA ~ 100HA (HB / HC / HD / HE / HDO / HO / HOO)
Measurement Range	10HA ~ 90HA (HB / HC / HD / HE / HDO / HO / HOO)
Accuracy	≤ ±1H
Resolution	0.1H
Low Battery Indicator	√
Auto Switch Off	√
Operation Environment	Temperature: 0°C ~ 50°C Humidity: < 80%RH
Power Supply	2 x 1.5V AAA (UM-4) batteries
Dimensions	162 x 65 x 28mm
Weight	170g (batteries not included)

Models & Applications

Type	Tested Material	Hardness Value
A	Soft rubber, elastomer, natural rubber products, neoprene, resin, polyester, soft PVC, leather etc.	20 ~ 90A
B	Middle hard rubber materials, typewriter rollers etc.	>90A, <20D
C	Plastics and middle hard rubber materials	>90B, <20D
D	Fibre plastic, hard rubber, hard plastic materials, plexiglas, stiff thermo plastic, formica, print roller, vinyl-plate, cellulose acetate etc.	>90A
DO	Plastics and middle hard to hard rubber materials	>90C, <20D
O	Soft elastic materials, print rollers, middle firm textile fabrics, nylon, orlon, perlon, rayon	<20DO
E	Hard sponge, EVA	>90DO, <20D
OO	Sponge and cellular rubber, foam rubber, silicone, gel-like materials	<200

Set includes:

1. Main unit..... 1
2. Pin length test block..... 1
3. Carrying case..... 1
4. Instruction manual..... 1

Optional accessories:

1. Shore hardness tester measurement stand
2. Rubber hardness test block (Type A/D)
3. USB data cable with software
4. Bluetooth data adapter with software



Figure 1



Figure 2

Order Code	Type	Figure
TFMU66		
-06510H	A	1
-06511H	B	1
-06512H	C	1
-06513H	D	1
-06514H	DO	1
-06515H	O	1
-06516H	E	2
-06517H	OO	1

Laser Tachometer

- Used to measure the speed and frequency of motors; widely applied in manufacturing industries such as motors, fans, papermaking, plastics, chemical fibers, washing machines, automobiles, airplanes, ships, etc.
- Incorporates advanced technologies such as microcomputer technology, laser technology, and anti-interference technology, enabling accurate speed measurement without the need for contact
- Digital display with no parallax
- Wide measurement range and high resolution
- Automatically memorize the maximum, minimum and last measured values during the measurement
- Sturdy and exquisite structure, convenient to carry. The entire device utilizes durable electronic components; the casing is made of lightweight and sturdy ABS plastic, with an elegant and user-friendly design

Parameters

Measuring Range	2.5 ~ 99,999 r/min
Resolution	0.1 r/min (0.5 ~ 999.9 r/m) 1 r/min (1000 r/m or more)
Accuracy	± (0.05% n + 1 d)
Sampling Time	1.0 s (60 r/min or more)
Range Selection	Automatically switch
Memory	maximum / minimum / last value
Time Base	quartz crystal
Effective Distance	50 ~ 250 mm (typical) Max. up to 600mm depending on the brightness of laser tube
Power Consumption	Approximately 80 mA (during measurement)
Operating Temp.	0 ~ 50 °C
Power Supply	4 x AA batteries
Size	145 x 74 x 32 mm
Weight	260g (batteries included)

Set includes:

1. Main unit.....1
2. 50mm reflective tape.....1
3. Carry case.....1
4. Instruction manual.....1



Order Code	Measuring Range
TFMU66	
-02857T	2.5 ~ 99,999 r/min

Multi-Functional Anemometer

- Widely used in data acquisition for boilers, refrigeration, HVAC (heating, ventilation and air conditioning) systems, ventilation ducts, environmental monitoring, marine measurements, as well as data collection for weather forecasting, field operations, and fire departments. It can not only measure wind speed but also wind temperature, wave height, wind force, air volume, and wind direction
- Multiple measurement unit conversions
- High sensitivity and precise measurement, with sensors utilizing ultra-low friction bearings
- Separate probe is designed for convenient measurement
- With maximum value hold function
- With storage function, capable of storing 24 groups of data.
- Self-setting auto power-off function (adjustable from 0 to 9 minutes)
- USB data output, RS-232C data connection cable, and software for PC communication (optional)
- Bluetooth™ data output option is available (optional)

Parameters

Display	13 mm 4-digit LCD
Measurement Units	Speed: m/s, km/h, ft/min, knots
	Air Volume: CMM (m³/min), CFM (ft³/min)
	Wind Force: Beaufort Scale
	Wave Height: meters
Wind Direction	degrees with reference to true north
	Temperature: °C, °F
Data Hold	Maximum value
Memory	24 groups
Sampling Rate	Approximately 1 second
Sensor	Wind Velocity/Flow Sensor: 3-impeller
	Wind Direction: low friction probe
	Temperature: Thermistor
Auto Power-Off	Settable between 0 to 9 minutes
Operating Environment	Temperature: -10 to 60 °C (14 to 140 °F), Humidity: < 80% RH
Power Supply	4 x AAA batteries
Dimensions	Main Unit: 156 x 67 x 28 mm (6.1 x 2.6 x 1.1 inch)
	Velocity Sensor: 65 x 65 x 115 mm
	Direction Sensor: 86 x 69 x 115 mm
Weight	260g (batteries included)

		Measurement Range
Wind speed	m/s (meters/second)	0.4 ~ 45.0
	km/h (kilometers/hour)	1.4 ~ 162.0
	ft/min (feet/minute)	80 ~ 886.0
	knots	0.8 ~ 88.0
Air Flow	CMM (cubic meters/minute)	0 ~ 9999
	CFM (cubic feet/minute)	0 ~ 9999
Wind Force (Beaufort Scale)		0 ~ 12
Wind Direction		0 ~ 360°
Wave Height (meters)		0 ~ 14
Temperature		14 ~ 140°F
		-10 ~ 60°C

Set includes:

1. Main unit.....1
2. Velocity sensor.....1
3. Direction sensor.....1
4. Carry case.....1

Optional accessories:

1. RS232 or USB cable and software
 2. Bluetooth communication and software
- Note: The cable standard length of 1.5 meters, can be customized according to user requirements

Order Code	Weight
TFMU66	(g)
-01236C	260



Multi-Functional Sound Level Meter

- Used for sound level measurement in environmental, mechanical, transportation, maritime, and other noise-related applications. Suitable for industrial environmental protection, construction, sanitation, teaching, and scientific research departments.
- 3 weighting options: A, C, F and Fast/Slow response times
- Offers 4 measurement parameters: Lp (sound level); Leq (equivalent continuous A sound level); Lmax (maximum sound level) and LN (percent of all readings over alarm value set)
- With DC voltage output of 10 mV/dB.
- Capable of storing 30 groups of measurement results and measuring conditions
- Auto range, alarm value setting and auto/manual power-off etc.
- Use USB/RS-232 data output to connect with PC
- Optional bluetooth and software

Parameters

Standards		IEC 651.2, ANSI 1.4.2
Measurement Parameter		Lp - Sound Level
		Leq (equivalent continuous A sound level)
		Lmax - Maximum Sound Level
		LN - Percent of All Reading Over Alarm Value Set
Measuring Range	Lp	A Weighting: 30 ~ 130 dB
		C Weighting: 35 ~ 130 dB
		F Weighting: 40 ~ 130 dB
	Leq	30dB ~ 130dB (10sec's, 1min's, 5min's, 10min's, 15min's, 30min's, 1hr, 8hrs, 24hrs)
		LN
Resolution		0.1 dB
Accuracy		1 dB
Frequency Weight		A / C / F (Flat)
Time Weight		Fast (125ms) / Slow (1s)
Microphone		12.5 mm Condenser Microphone
Memory		30 Group with Measuring Conditions
Built-in Calibration Signal		94 dB
Frequency Range		20 ~ 12,500 Hz
Alarm Setting		30 ~ 130 dB
Alarm Output		LED Optional Relay Contact
Power Voltage Indication		Low Battery Indicator
Power Supply		4 x AAA Batteries
External DC Power Supply		5 V, DC, 100 mA
Dimensions		236 x 63 x 26 mm
Weight		170 g

Set includes:

1. Main unit.....1
2. Windscreen.....1
3. Carrying case.....1
4. Instruction manual.....1

Optional accessories:

1. ND9 sound level meter calibrator
2. RS-232C data cable with software
3. Bluetooth data adapter with software



Order Code	Dimensions (mm)	Weight (g)
TFMU66	236 x 63 x 26	170
-05868S		

Digital Lux Meter

- An illuminance meter is a specialized instrument used to measure light intensity and brightness. It is widely used in electric light sources, scientific research and education, metallurgy and construction, industrial testing, as well as agricultural research and light control applications.
- Digital display with no reading errors.
- Multiple unit measurements: Lux and FC.
- Measurement value hold function.
- Low battery voltage indication.
- Built with durable and reliable electronic components for long-lasting performance.
- Sturdy and light ABS casing
- Compact design, easy to carry

Parameters

Display	4-digit 10mm LCD Screen	
x1 Grade	Range	0 ~ 4,999 Lux
	Resolution	1 Lux
x10 Grade	Range	5,000 ~ 49,999 Lux
	Resolution	10 Lux
x100 Grade	Range	50,000 ~ 500,000 Lux
	Resolution	100 Lux
Foot Candle	Range	0 ~ 20,000 FC
	Resolution	1 FC
Accuracy	±(5%n+5d)	
Operating Conditions	Temperature: 0°C ~ 50°C (32°F ~ 122°F)	
	Humidity: <80%RH	
Power Supply	4 x 1.5V AAA (UM-4) Batteries	
Dimensions	Main Unit	140 x 72 x 34mm
	Sensor	Ø50mm
Weight	200g (Batteries not Included)	

Set includes:

1. Main unit.....1
2. Carrying case.....1
3. Instruction manual.....1

Optional accessories:

1. RS-232C data cable with software
2. Bluetooth data adapter with software



Split unit

Integrated unit

Order Code	Model	Lux levels & Measuring Range			Foot Candle (FC)
		X1 (Lux)	X10 (Lux)	X100 (Lux)	
-01262V	Split unit	0 ~	5,000 ~	50,000 ~	0 ~
-11262V	Integrated unit	4,999	49,999	500,000	20,000

20°/60°/85° Gloss Meter

Product applications:

- Widely used in floor maintenance, surface cleaning quality control, stone and tile gloss measurement, checking printed matter, quality control of paint and ink, polished metal surface, measurement (chrome plating), inspection of paint protection and waxing, auto-body paint inspection, surface inspection of plastic moldings, evaluation of detergents and washers, checking masonry and washers, checking building exteriors etc.

Product description:

- Intelligent design, rapid measurement
- Small in size, easy to carry
- Accurate measurement, good repeatability
- Capable of storing 254 groups of measurements
- 4-digit 2 inch LCD display with blue backlight
- In accordance with international standard ASTM D523, ASTM D1455, ASTM C346, ASTM C584, ASTM D2457, DIN EN ISO 2813, DIN 67530, EN ISO 7668, JIS Z 8741, MFT 30064, TAPPIT 480, GB 9754, GB/T 13891, GB 7706 and GB 8807 and JIG 696-2002
- Use USB/RS-232 data output to connect with PC
- Optional bluetooth and software

Recommended measurement angles for different materials:

- 20°: High gloss materials such as paint, ink, plastic, paper, etc.
- 60°: Medium gloss materials such as paint, ink, plastic, ceramic, marble, etc.
- 85°: Low gloss materials such as gloss paint, camouflage coatings, etc.

Product parameters:

- Display: 4-digit backlit LCD
- Measurement angle: 20° / 60° / 85°
- Measurement range: 0.1GU ~ 200GU
- Accuracy: ±1.0GU
- Resolution: 0.1GU
- Repeatability: ±0.5GU
- Measuring area: 7mm x 14mm (ellipse)
- Data memory: 254 groups
- Operating conditions: Temp. 0 ~ 40°C; Humidity: <85%RH
- Power supply: 3.7V rechargeable lithium-ion battery
- Main unit dimensions: 140 x 45 x 75mm
- Weight: 305g (batteries not included)

Set includes:

1. Main unit.....1
2. Holder with calibration standard.....1
3. Optical clean cloth.....1
4. Carrying case.....1
5. Instruction manual.....1

Optional accessories:

- RS-232C data cable with software
- Bluetooth data adapter with software



Order Code	Measuring Angle
TFMU66	
-00268G	20°/60°/80°

60° Gloss Meter

Product applications:

- Widely used in floor maintenance, surface cleaning quality control, stone and tile gloss measurement, checking printed matter, quality control of paint and ink, polished metal surface, measurement (chrome plating), inspection of paint protection and waxing, auto-body paint inspection, surface inspection of plastic moldings, evaluation of detergents and washers, checking masonry and washers, checking building exteriors etc.

Product description:

- Intelligent design, rapid measurement
- Small in size, easy to carry
- Accurate measurement, good repeatability
- Capable of storing 254 groups of measurements
- 4-digit 2 inch LCD display with blue backlight
- In accordance with international standard ASTM D523, ASTM D1455, ASTM C346, ASTM C584, ASTM D2457, DIN EN ISO 2813, DIN 67530, EN ISO 7668, JIS Z 8741, MFT 30064, TAPPIT 480, GB 9754, GB/T 13891, GB 7706 and GB 8807 and JIG 696-2002
- Use USB/RS-232 data output to connect with PC
- Optional bluetooth and software

Recommended measurement angles for different materials:

- 60°: Middle gloss paint, printing ink, plastics, ceramics, marble and other materials

Product parameters:

- Display: 4-digit backlit LCD
- Measurement angle: 20° / 60° / 85°
- Measurement range: 0.1GU ~ 200GU
- Accuracy: ±1.0GU
- Resolution: 0.1GU
- Repeatability: ±0.5GU
- Measuring area: 7mm x 14mm (ellipse)
- Data memory: 254 groups
- Operating conditions: Temp. 0 ~ 40°C; Humidity: <85%RH
- Power supply: 4 x AAA batteries
- Main unit dimensions: 156 x 67 x 28mm
- Probe size: 58 x 28 x 108mm
- Weight: 190g (batteries not included)

Set includes:

1. Main unit.....1
2. Holder with calibration standard.....1
3. External probe.....1
3. Optical clean cloth.....1
4. Carrying case.....1
5. Instruction manual.....1

Optional accessories:

- RS-232C data cable with software
- Bluetooth data adapter with software



Order Code	Measuring Angle
TFMU66	
-00006G	60°

Whiteness Meter

Product applications:

- Mainly used to measure the whiteness value of object or powder with flat surface
- Widely used in whiteness measurement of textile printing and dyeing, paint, chemical building materials, paper and boards, plastic products, white cement, ceramics, enamel, talc powder, starch, flour, salt, detergent, cosmetics and other substances

Product description:

- This Temo whiteness meter uses high-quality components for excellent reliability. It consists of a light source, optical system, detection system, data processing and display system
- Whiteness formula: blue light whiteness $WB=R457$
- Definition of the whiteness value: pure white as 100 and pure black as 0
- Adopts filter system with correction, the whiteness can be reflected quantitatively
- Memory storage up to 254 groups of measurement data
- Measurements can be taken after simple calibration without preheating required
- Meets JJG, GB, ISO and other international standards
- Optional USB data output connecting to PC

Product parameters:

- Whiteness: 0~100; Reflectance: 0~100
- Resolution: 0.1%
- Illumination: 45° / 0°
- Light source: LED 457nm
- Whiteness formula: blue light whiteness $WB=R457$
- Measuring aperture: $\leq 15\text{mm}$
- Zero drift: $\leq 0.1\%$
- Stability of display: $\leq 0.5\%$
- Repeatability of measurement: $\leq 1\%$
- Operating condition:
Temperature: 0~40°C
Humidity: < 85%RH
- Power supply: 4 x AAA batteries or AC charging
- Dimensions of main unit: 156 x 67 x 28mm
- Size of split sensor: $\varnothing 44 \times 55\text{mm}$
- Weight: 200g (Including batteries)

Set includes:

1. Main unit
2. Split sensor
3. Optical cleaning cloth
4. AC adapter
5. Carrying case
6. Instruction manual

Optional accessories:

- Powder shaping presser
- USB/RS-232 data output with software
- Bluetooth data output



Order Code	Measuring Range
TFMU66	
-00106W	0 ~ 120%

Color Meter

Product applications:

- A highly portable and user-friendly tristimulus colorimeter designed specifically for measuring color differences between two colors. It is an essential and useful tool for quality control purposes.
- Suitable for measuring samples without luminescence or fluorescence, such as textiles, paper, leather, spray materials, and more.

Product description:

- Triple 4 digit LCD display, backlit, no parallax
- Auto power-off, low battery indication
- Statistical function (maximum, minimum, average and standard deviation)
- Color difference tolerance set to perform PASS / WARN / FAIL
- User calibration function ensures higher accuracy
- Stores 9 color-difference target colors
- Auto memory (99 sets) & read function
- Optional USB data output connecting to PC

Product parameters:

- Color difference displayed (L^*, a^*, b^*), (E^*ab, C^*ab, H^*ab), (Y, x, y), (X, Y, Z), (R_s, G_s, B_s) or (Wl, Yl, Tw)
- Color space displayed (L^*, a^*, b^*), (L^*, C^*ab, hab), (Y, x, y), (X, Y, Z), (R_s, G_s, B_s) or (Wl, Yl, Tw)
- Measuring range: $L^*: 5 \sim 100$
- Measurement conditions: CIE 2° standard observer
- Repeatability: standard deviation within $\Delta E^*ab 0.5$ (measurement conditions: average of measurements of standard white plate)
- Minimum interval between measurements: approx. 2 seconds
- Light source: white LED lamp
- Illuminating/viewing geometry: 45°/0°: illumination at 45°, measurement at 0°
- Operating temperature: 0 ~ 40°C (32 ~ 104°F)
- Operating humidity: < 85%RH
- Storage temperature: -10 ~ 40°C (14 ~ 104°F)
- Storage humidity: < 70%RH
- Power supply: 4 x AAA (UM-4) batteries
- Dimensions of main unit: 140 x 73 x 35mm
- Size of split sensor: $\varnothing 44 \times 55\text{mm}$
- Weight: 220g (Including batteries)

Set includes:

1. Main unit
2. Split sensor
3. White calibration card
4. Carrying case
5. Instruction manual

Optional accessories:

- USB/RS-232 data output with software



Order Code	Measuring Range(mm)
TFMU66	
-00200S	L*: 5 ~ 100

Reflectance Meter

Product applications:

- This reflectance meter can measure the transparency extent of coating, grease, film, plastic products, organic products as well as the reflectivity of solid surface (such as stereo movie screen)
- It is widely used in coatings, pigments, inks, plastics, printing and dyeing, leather, film screenings and other industries, for product quality or standardized inspection and management

Product description:

- This instrument is composed of main unit, standard boards (a black one and a white one) and testing boards (a black one and a white one) etc.
- When the reflected light of the sample acts on the surface of the photocell, an electric signal is input into the DC amplifier and amplified for reading on the display
- It meets the international standards of ISO3906-1980 (E), ISO3905, ISO2814, and the national standards

Technical Parameters:

- Measuring range: 0 ~ 100% • Resolution: 0.1%
- Accuracy: $\pm 1\%$ • Repeatability: 0.3%
- Measurement Area: 7 x 14mm (ellipse)
- The display data is in direct proportion to the reflected light
- The spectral sensitivity of the instrument is approximately equal to the product of $Sc(\lambda)$ and $y(\lambda)$
- Operation temperature: 0 ~ 40°C
- Operation humidity: <85%RH
- Power supply: 3.7V lithium battery
- Dimensions: 141 x 45 x 79mm
- Weight: 310g (Including batteries)

Set includes:

1. Main unit
2. Standard board (black)
3. Standard board (white)
4. Testing board (black)
5. Testing board (white)
6. Power adapter
7. Optic cleaning cloth
8. Carrying case
9. Operation manual

Optional accessories:

- USB/RS-232 data output with software
- Bluetooth data output



Order Code	Measuring Range
TFMU66	
-00206R	0 - 100%

Ultrasonic Leakage Detector

Product applications:

- For measuring leaks of the system. Can be used to detect leaks in cold and air conditioning, leaks in the heating system, internal leaks in steam operations, compressed air leaks, tyres and pipe leaks, motor seals, electric arc, storage problems, baking system and more
- With the ultrasonic transmitter, it can be used for air leaks around door and window seals and seals, water leaks in roofs, pipes and pipe labels, door and boot seals, windscreen leaks and more

Product description:

- Designed to locate the source of the ultrasonic emissions generated by gas or air leaks
- The leakage level is displayed by "LED Display Panel", and is covered to audible sound by either internal buzzer or to external optional earphone

Product Parameters:

- Leakage sensitivity indicator: LED display panel & audible tone. (LED display is a relative measurement only. Audible tone is the frequency of the received ultrasonic sound divided by 32.)
- Frequency response: 20KHz to 100KHz
- Operation temperature: 0 ~ 50°C (32°F ~ 122°F)
- Operation humidity: <80%RH
- Power supply: 4 x AAA (UM-4) batteries
- Weight: 140g (including batteries)



Order Code	Frequency Response (KHz)
TFMU66	
-00586U	20 - 100

Digital Gaussmeter

Product applications:

- Used for measuring the magnetic induction intensity of DC magnetic field, AC magnetic field, radiation magnetic field, remanence magnetic field, earth magnetic field, and other magnetic fields
- Adopted advanced Hall sensor. The circuit uses a low drift amplifier and a high stable power supply, controlled by a single chip microcomputer, and displays the measured values on a 4.5" LCD
- Widely used in academic research, physics laboratories, industries, medical fields (NMR - nuclear magnetic resonance), pharmaceuticals, aerospace, manufacturing, power distribution, and other areas.

Product description:

- Convenient to carry, with a wide measurement range.
- Easy operation with a clear LCD display.
- Measurement value/peak retention, and MT/GS unit conversion.
- Range conversion between 200MT and 2000MT.

Set includes:

- Main unit • Hall sensor • Instruction manual



Order Code	Measuring range
TFMU66	
-00100G	0mT~200mT~2000mT

Product parameters

Measuring range	0mT~200mT~2000mT
Frequency range	1Hz~400Hz
Accuracy	DC: 1% AC: 1%, 1 ~ 400Hz (measured in a uniform magnetic field)
Resolution	DC*1: 0.00mT~200.00mT 0.01mT DC*10: 0.0mT~2000.00mT 0.1mT AC*1: 0.00mT~200.00mT 0.01mT AC*10: 0.0mT~2000.00mT 0.1mT
Magnetic field under test	Dc magnetic field (static magnetic field) Ac magnetic field (dynamic magnetic field)
Functional specifications	Direct conversion between peak retention Gs(Gauss) /mT(Millitesla)
DC polarity of measurement	N for positive, S for negative
Operating Conditions	5°C ~ 40°C
Relative humidity	20%~80% dew free
Power supply	4x1.5v AAA (UM-4) batteries
Display mode	4.5" LCD
Display unit	mT / Gs
Overall dimensions	L140 x W73 x H30mm
Instrument weight	180g

Carbon Monoxide(CO) Detector

Product applications:

- A portable detector for detecting carbon monoxide (CO) gas
- Widely used in industries such as mining, metallurgy, petrochemical, pharmaceutical, waste water treatment, papermaking and infrastructure construction, etc.

Key features:

- Comes with intelligent design and multiple functions
- Embedded temperature compensation component resulting in more accurate detecting
- Highlight backlight display and acousto-optic alarm, simple configuration, low power symbol display
- Ergonomic design, beautiful appearance, easy to carry

Product specifications:

- 4-digit LCD, backlit
- Measuring range: 0-1,000PPM
- Resolution: 1PPM
- Measurement error: $\leq \pm 5\%$
- Test result read time: $\leq 30s$
- Electrochemical sensor (2 year service length, replacement available after expiration)
- Over range indication, acousto-optic alarm
- Operation temperature: $-10 \sim 50^{\circ}C$ ($14 \sim 122^{\circ}F$)
- Storage temperature: $0 \sim 40^{\circ}C$ ($32 \sim 104^{\circ}F$)
- Operation humidity: 0~99%RH (relative humidity)
- Storage humidity: 20%~80%RH (relative humidity)
- Power supply: 3 x AAA batteries
- Size: 172 x 51 x 26mm
- Weight: 488g



Order Code	Measuring Range
TFMU66	
-00200A	1 - 1000PPM

Portable Gas Leak Detector

Product applications:

- Gas leakage detecting of city gas
- Combustible gas leakage detecting in chemical, petroleum, metallurgy, biochemical medicine, shipbuilding, oil depot, LPG & gas station, tank truck and agriculture etc.
- Detectable gas type: natural gas, liquefied petroleum gas, coal gas and other combustible gas, as well as organic solvent volatilization gas of gasoline, alcohol, ketone, etc.
- Adopts high sensitivity sensor of Figaro Japan. Its powerful function can simultaneously measure the ambient temperature and humidity while detecting methane gas
- Equipped with extended and flexible probe for vary of working sites

Key features:

- Intellectualized design, ergonomic case with anti-fall protective shell
- Memorized up to 99 groups of data
- Large LCD screen, backlit and chameleoned by the colors of white, green and red, to indicate 3 different conditions
- Acousto-optic alarm

Specifications:

- Measuring range: 0 ~ 50000PPM, 0 ~ 100%LEL
- Resolution: $\pm 2\%$
- Test result read time < 3 seconds
- Temperature range: $-50^{\circ}C \sim 50^{\circ}C$
- Operation humidity: <90%RH
- Power supply: 4 x AA batteries



Order Code	Measuring Range
TFMU66	
-00203A	50 ~ 50000PPM 0 ~ 100%LEL

Digital Force Gauges

- Built-in sensor
- Easy reading by big screen, 180° reversible display
- 3 freely switchable measuring modes - Peak / First Peak / Real-Time
- 3 freely switchable units - N, Kg, Lb
- 5 interchangeable attachments
- Short circuit protection, leakage protection, overload protection, low battery indication
- Operation temperature: $5^{\circ}C \sim 35^{\circ}C$
- Transportation temperature: $-10^{\circ}C \sim 60^{\circ}C$
- Relative humidity: 15% ~ 80%RH
- Ambient environment: no hypo center, no corrosive medias
- Dimensions: 160 x 71 x 35mm



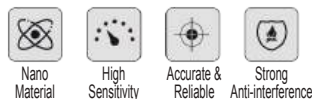
Supplied with 5 interchangeable attachments (tips and hooks)



Order Code	Capacity			Resolution		
	N	Kg	Lb	N	Kg	Lb
TFMU61						
-01002A	2	0.2	0.45	0.001	0.001	0.001
-01003A	3	0.3	0.65	0.001	0.001	0.001
-01005A	5	0.5	1.1	0.001	0.001	0.001
-01010A	10	1	2.2	0.01	0.001	0.001
-01020A	20	2	4.5	0.01	0.001	0.001
-01030A	30	3	6.5	0.01	0.001	0.001
-01050A	50	5	11	0.01	0.001	0.001
-01100A	100	10	22	0.1	0.01	0.01
-01200A	200	20	45	0.1	0.01	0.01
-01300A	300	30	65	0.1	0.01	0.01
-01500A	500	50	110	0.1	0.01	0.01

Digital Breath Alcohol Tester

- This Temo breathalyzer can offer a simple method to analyze blood alcohol concentration at anytime and anywhere, and always give you police grade accuracy.
- High-performance chip
- LCD screen & audible alert
- One button operation, easy to use
- Quick response and reset
- Auto switch-off
- Key ring design for easy carry
- Power supply: 2 x AA batteries
- Comes with 5 blowing nozzles
- Meets standards such as CE, FC, RoHS etc.



Order Code	Measuring Range
TFMU73	
-00002A	0.00 - 0.19% BAC & 0.0 - 1.9 g/l

Blowing nozzle (accessory): TFMU73-01002P

Laser Distance Meters

- Ideal for use in interior/exterior design, construction, factory supervision & engineering inspection, including for home improvement projects
- It features addition/subtraction/area/volume measurement and indirect measurement using the Pythagorean theorem
- Max/min/continuous measurement
- Automatic electronic leveling
- Large backlit HD screen • 100 Data Storage
- Switchable measuring reference points: front/middle/rear

Product parameters:

- Measuring units: m/in/ft
- Laser type: 635nm
- Auto shutdown time: 150s
- Storage temp: -20°C ~ 60°C
- Power supply: 2 x AAA batteries
- Size: 118 x 54 x 26.5mm
- Laser class: 2
- Auto laser off time: 20s
- Operation temp: 0°C ~ 40°C
- Storage humidity ≤ 85%RH
- Net weight: 112g



0 - 60m

0 - 100m

0 - 150m

Order Code	Measuring Distance (m)	Accuracy (mm)	Colour
-00060A	0 - 60	±2	Red/Black
-00100A	0 - 100	±2	Blue/Black
-00150A	0 - 150	±2	Blue/Black

Professional Infrared Thermometer

- Mainly used for measuring body temperature and ambient temperature
- Measuring range: -25 ~ 400°C (-13 ~ 752°F)
- Resolution: 1°C (2°F)
- Spectral response: 8 ~ 14µm
- Object distance ratio (D:S) = 10:1
- Emissivity: 0.95
- Response time: 0.5sec
- Unit conversion: °C / °F
- Overload display: --OL--
- Auto data retention and auto shutdown
- White backlit LCD screen
- Working temperature: -10 ~ 40°C (14° ~ 104°F)
- Relative humidity: 10% ~ 80%RH
- Power supply: 1 x 9V battery



Order Code	Measuring Range	Size (mm)	Weight (g)
-02001T	-25°C ~ 400°C -13°F ~ 752°F	250 x 190 x 50	240

High Temperature Infrared Thermometer - Long Object Distance

- Professional quality with extensive usage, including security inspection, train, diesel engine and injection molding applications
- Measuring range: -25 ~ 1000°C (-13 ~ 1832°F)
- Resolution: 0.2°C (0.4°F)
- Spectral response: 6 ~ 14µm
- Object distance ratio (D:S) = 30:1
- Emissivity: 0.99 / 0.95 / 0.89 / 0.85 / 0.79 / 0.75
- Response time: 0.5sec
- Unit conversion: °C / °F
- Overload display: --OL--
- Auto data retention and auto shutdown
- White backlit LCD screen
- Working temperature: 0 ~ 40°C (32 ~ 104°F)
- Relative humidity: 10% ~ 80%RH
- Power supply: 1 x 9V battery



Order Code	Measuring Range	Size (mm)	Weight (g)
TFMU65	-25°C ~ 1000°C -13°F ~ 1832°F	280 x 190 x 70	580

Commercial Infrared Thermometer

Product features:

- White backlit screen with bar graph display
- Unit conversion: °C / °F
- High/Low temperature alarm setting
- Data recording and retention
- Adjustable emissivity
- MAX / MIN / AVG / DIF record
- Low battery indication



Product specifications:

- Measuring range: -50 ~ 750°C (-58 ~ 1382°F)
- Resolution: ±1.5% or ±1.5°C (34.7°F)
- Repeatability: 1% or 1°C (33.8°F)
- Response time: 0.5sec
- Spectral response: 8 ~ 14µm
- Object distance ratio (D:S) = 12:1
- Emissivity: 0.95 (adjustable)
- Working temperature: 0 ~ 50°C (32 ~ 122°F)
- Working humidity: 10% ~ 90%RH
- Storage temperature: -10 ~ 60°C (14 ~ 140°F)
- Storage humidity: 10% ~ 75%RH
- Power supply: 1 x 9V battery
- Weight: 120g (including battery)



Order Code	Measuring Range	Size (mm)	Weight (g)
TFMU65	-50°C ~ 750°C -58°F ~ 1382°F	145 x 90 x 35	120

TEMOTUF™

Air & Power Tools



www.temotuf.com

1-1/2" Dr. Industrial Heavy Duty Air Impact Wrenches

- Widely used in many industries, such as mining, energy, petrochemical, heavy equipment maintenance, automotive repair, remove wheel bolts from trucks, bus, lorries, and any other instance where a high torque output is needed

- Mechanism: newly patented twin hammer
- Highest durable Japanese steel anvil
- Forward & reverse: 4 positions of each side
- Heavy duty cast housing & slant air inlet
- Components with durable and heavy duty materials
- Top exhaust

- Square Drive: 1-1/2"
- Bolt Capacity: 1-3/4" (M44)
- Max. Torque (10 Sec.): 4068Nm
- Air Inlet: 1/2"
- Hose Size (I.D.): 1/2"
- Air Pressure: 90psi
- Avg. Air Con.: 7.0cfm (198L/min)
- Overall Length: 490mm
- Net Weight: 15.2kg

** For labor saving, please see P393 for the air wrench supporting cart



Order Code	Free Speed (rpm)
TFAT10	
-60010B	3700

1-1/2" Dr. Industrial Air Impact Wrench (Twin Hammers)

- Perfect for general repair work on trucks, tires and heavy duty equipment
- Special treated anti-rust and corrosion finish, makes this impact wrench durable and strong enough to withstand heavy use
- Twin hammer mechanism ensures high torque and long service
- 4-speed of forward and reverse
- Die cast aluminum D-handle delivers less weight and stronger durability
- Bottom exhaust

- Square Drive: 1-1/2"
- Bolt Capacity: 1-3/4" (M44)
- Max. Torque (10 Sec.): 4068Nm
- Free Speed: 3700rpm
- Air Inlet: 1/2"
- Hose Size (I.D.): 1/2"
- Air Pressure: 90psi
- Avg. Air Con.: 7.0cfm (198L/min)
- Overall Length: 400mm
- Net Weight: 19.8kg

** For labor saving, please see P393 for the air wrench supporting cart



Order Code: TFAT10-600120B

1-1/2" Dr. Professional Heavy Duty In-line Air Impact Wrench

- Widely used in many industries, such as mining, energy, petrochemical, heavy equipment maintenance, automotive repair, remove wheel bolts from trucks, bus, lorries, and any other instance where a high torque output is needed

- A very powerful impact wrench specially applied to heavy industries
- Newly patented twin hammer mechanism not only enhancing the torque but also extend the tool life
- Integrated main spindle made of nickel/chromium/molybdenum alloy steel delivering high torque and durability for many tough jobs
- 8" extended steel anvil delivering more powerful torque and can handle many complicated jobs without compromising safety
- 4 position power settings
- Equipped with the air valve for easy adjustment of the torque
- Side exhaust

- Square Drive: 1-1/2"
- Bolt Capacity: 2" (M50)
- Max. Torque (10 Sec.): 4068Nm
- Free Speed: 3000rpm
- Air Inlet: 1/2"
- Hose Size (I.D.): 3/4"
- Air Pressure: 90psi
- Avg. Air Con.: 16cfm (453L/min)
- Overall Length: 650mm
- Net Weight: 19.8kg

** For labor saving, please see P393 for the air wrench supporting cart

Order Code: TFAT10-60030A



1" Dr. Industrial Pistol Air Impact Wrench

- Designed for construction, shipbuilding, heavy-duty vehicles and industry needs
- Pistol-style design, lightweight, comfort and convenience to operators
- Powerful torque with excellent continuity
- Twin hammer mechanism delivers high torque
- Components made of durable and heavy duty materials
- 3-position power regulator
- 4-speed of forward and reverse
- Die cast aluminum body delivers less weight and stronger durability
- Bottom exhaust

- Square Drive: 1"
- Bolt Capacity: 1-3/8" (M35)
- Max. Torque (10 Sec.): 2712Nm
- Free Speed: 3400rpm
- Air Inlet: 1/2"
- Hose Size (I.D.): 1/2"
- Air Pressure: 90psi
- Avg. Air Con.: 5.95cfm (168L/min)
- Overall Length: 292mm
- Net Weight: 9.7kg

** For labor saving, please see P393 for the air wrench supporting cart

Order Code: TFAT10-50010B



3/4" Dr. Industrial Pistol Air Impact Wrench (Twin Hammers)

- This industrial grade air wrench is mainly for industry assembly, automobile assembly, shipbuilding industry etc.
- Pistol style, comfort, and convenience to operators
- Twin hammer mechanism delivers high torque
- Highest durable Japanese steel anvil ensures long service time
- Forward: 3 positions: Reverse: 1 position
- Heavy-duty cast of housing
- Components with durable and heavy-duty materials
- Bottom exhaust



- Square Drive: 3/4"
- Bolt Capacity: 1-1/4" (M32)
- Max. Torque (10 Sec.): 2034Nm
- Free Speed: 5000rpm
- Air Inlet: 3/8"
- Hose Size (I.D.): 1/2"
- Air Pressure: 90psi
- Avg. Air Con.: 8.4cfm (238L/min)
- Overall Length: 215mm
- Net Weight: 5.1kg

** For labor saving, please see P393 for the air wrench supporting cart

Order Code: **TFAT10-40010B**

1/2" Dr. Professional Pistol Air Impact Wrench (Twin Hammers)

- A compact and powerful tool for screw tightening and loosening in commercial vehicles, motorcycles and various other vehicles. It is also widely used in the industrial fields
- Compact size is good for narrow workspaces and easy to carry
- Twin hammer mechanism is designed for lightweight and high torque
- Highest durable grade steel anvil
- Forward: 3 positions: Reverse: 3 positions
- Black textured body for anti-slip, oil resistant, dirt resistant and wear resistant
- Heavy-duty cast of housing
- Comfortable die casting handle
- Bottom exhaust



- Square Drive: 1/2"
- Bolt Capacity: 3/4" (M19)
- Max. Torque (10 Sec.): 542Nm
- Free Speed: 9800rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 3/8"
- Air Pressure: 90psi
- Avg. Air Con.: 3.2cfm (90.6L/min)
- Overall Length: 126mm
- Net Weight: 1.5kg

Order Code: **TFAT10-30010A**

3/4" Dr. Industrial Pistol Air Impact Wrench (Upgraded Design)

- This industrial grade air wrench is mainly for industry, automobile, shipbuilding and agricultural industry etc.
- Powerful, stable and continuous torque
- Excellent power-weight ratio, good integral design, and attractive profile
- Mechanism: pin clutch
- Highest durable grade steel anvil
- Quieter operation, less vibration
- Hand push reciprocating forward-reverse switch, and high-low speed regulator
- Heavy-duty cast of housing
- Components with durable and heavy-duty materials
- Front exhaust



- Square Drive: 3/4"
- Bolt Capacity: 15/16" (M24)
- Max. Torque (10 Sec.): 1085Nm
- Free Speed: 4700rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 3/8"
- Air Pressure: 90psi
- Avg. Air Con.: 4.2cfm (119L/min)
- Overall Length: 216.5mm
- Net Weight: 5.0kg

** For labor saving, please see P393 for the air wrench supporting cart

Order Code: **TFAT10-40020C**

3/8" Dr. Air Impact Wrench

- This 3/8" dr. air wrench is ideal for fastening or removing nuts and bolts easily. It allows you to focus all the torque of the tool in one point more easily than with the 1/2" dr. impact wrench
- Forward and reverse
- Die casting housing
- Front exhaust



- Square Drive: 3/8"
- Bolt Capacity: 1/2" (M13)
- Max. Torque (10 Sec.): 271Nm
- Free Speed: 9500rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 3/8"
- Air Pressure: 90psi
- Avg. Air Con.: 21.2scfm (0.6m³/min)
- Overall Length: 165mm
- Net Weight: 1.47kg

Order Code: **TFAT10-20011C**

16Pc 1/2" Dr. Impact Air Wrench Set

- Suitable for automotive maintenance, general repairs, and other applications
- Twin hammer mechanism for durability
- 2-piece die cast housing is easy for disassembly and tool maintenance
- Forward: 1 position; Reverse: 3 positions
- Composite handle for comfortable and non-slip operation
- Low noise and air consumption

- Square Drive: 1/2"
- Bolt Capacity: 3/16" (M20)
- Max. Torque (10 Sec.): 75.7Nm (550ft/lbs)
- Free Speed: 7500rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 3/8"
- Air Pressure: 90psi
- Avg. Air Con.: 4.0cfm (113L/min)
- Avg. Vibration Level: 4.5m/s²
- Overall Length: 204mm
- Wrench Net Weight: 2.63kg
- Set Net Weight: 4.64kg

** Set also includes 1 x M4 hex key and 1 x lube bottle



Order Code	Sq. Dr.	Socket Sizes (mm)	Extension Bar (mm)
TFAT10			
-30116K	1/2"	9, 10, 11, 13, 14, 17, 19, 22, 24 & 27	125

Industrial Gearless Air Die Grinder - Composite Handle

- Ideal for fast stock removal, smoothing metal joints after welding, and various automotive applications such as removing paint
- Die cast body with composite handle reduces vibration as well as gearless design reduces noise
- Collet Size: 1/4" (6mm)
- Air Inlet: 1/4"
- Avg. Air Con.: 1.14cfm
- Overall Length: 150mm
- Net Weight: 0.4kg



Order Code	Exhaust	Free Speed (rpm)
TFAT45		
-23010B	Rear	22000
-23010F	Front	20000

Industrial Gearless Air Angle Die Grinder - Composite Handle

- Ideal for fast stock removal, smoothing metal joints after welding, and various automotive applications such as removing paint
- 90° head allows flexibility in many applications for reaching tight or angled grinding, easy to access to small spots
- Die cast body with composite handle reduces vibration as well as gearless design reduces noise
- Rear Exhaust
- Collet Size: 1/4" (6mm)
- Free Speed: 22000rpm
- Air Inlet: 1/4"
- Avg. Air Con.: 1.14cfm
- Overall Length: 170mm
- Net Weight: 0.55kg



Order Code: **TFAT46-23020B**

Professional High Speed Powerful Air Screwdriver

- Designed for production line assembly and maintenance applications
- Fine grain handle delivers comfort, anti-slip, anti-corrosion, dirt resistance and wear resistance
- 4-position power regulator
- Chuck: Hex 1/4" (6.35mm)
- Capacity: ø3 ~ 9mm
- Free Speed: 8500rpm
- Hose Size (I.D.): 5/16" (8mm)
- Air Pressure: 90psi
- Overall Length: 215mm
- Handle Diameter: ø50mm
- Net Weight: 1.1kg



Order Code: **TFAT30-10006A**

10mm Reversible Pistol Air Drill

- Ideal for most industrial and maintenance applications
- Full gear type, reversible
- Chuck: 10mm (3/8")
- Free Speed: 1800rpm
- Motor Power: 0.4hp
- Air Inlet: 1/4"
- Hose Size (I.D.): 3/8"
- Air Pressure: 90psi
- Avg. Air Con.: 1.88cfm
- Overall Length: 175mm
- Net Weight: 1.15kg



Order Code: **TFAT20-10010C**

13mm Heavy Duty Reversible Pistol Air Drill

- Ideal for most industrial and maintenance applications
- Side handle for increased tool control
- Cast iron cylinder for durable use, reversible

- Chuck: 13mm (1/2")
- Free Speed: 450rpm
- Motor Power: 0.4hp
- Air Inlet: 1/4"
- Hose Size (I.D.): 3/8"



- Air Pressure: 90psi
- Avg. Air Con.: 1.88cfm
- Overall Length: 270mm
- Net Weight: 1.9kg

Order Code: **TFAT20-10013C**

Air Body Saw

- Ideal for cutting plastics, aluminum, fiberglass and sheet metal. This saw is perfect for automotive applications including but not limited to muffler, exhaust and body or panel repair
- Composite grip for comfortable handling, front exhaust

- Stroke per Minute: 10000bpm
- Saw Stroke: 10mm
- Air Inlet: 1/4"
- Hose Size (I.D.): 3/8"
- Air Pressure: 1.4cfm (39.6LPM)
- Sound Power (LpA / LWA): 85.7db / 96.7db
- Vibration: 19.69m/s²
- Overall Length: 235mm
- Net Weight: 1.0kg



Replacement Bi-Metal Saw Blades

Order Code	TPI	Pack Qty.
TFAT42		
-31752P	24	5
-31753P	32	5

Order Code: **TFAT42-80030A**

Professional Air Needle Scaler

- Ideal for removing weld slag, rust, paint, and dirt
- Alloy steel scaler needles for powerful and durable use

- Scaler Needle Kit: 19pcs x 3mm
- Stroke per Minute: 4000bpm
- Scaler Stroke: 39mm
- Hole Capacity: 25mm
- Air Inlet: 1/4"
- Hose Size (I.D.): 3/8"
- Air Pressure: 8.2cfm (232LPM)
- Overall Length: 457mm
- Net Weight: 2.8kg



Replacement Scaler Needle Kit

Order Code	Kit Pack Qty.
TFAT42	
-44246P	19

Order Code: **TFAT42-44204A**

8Pc Professional Air Hammer Set

- Ideal for car maintenance and many industrial applications
- Easy change retainer for quick accessory change
- Rubber molded cushion grip
- Front exhaust

- 10mm hex head chisels
- Stroke: 66mm
- Hose Size (I.D.): 3/8"
- Blows per Minute: 3500bpm
- Air Inlet: 1/4"

Air Angle Grinders

- Ideal for most grinding applications
- Free Speed: 12000rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 3/8"
- Air Pressure: 90psi
- Avg. Air Con.: 6cfm



Order Code	Size	Net Weight (kg)
TFAT40		
-31100C	4"/100mm	1.82
-31125C	5"/125mm	1.91

4" Reversible Air Angle Cutter

- Ideal for automobile manufacturing and maintenance
- In-Line design for straighter naturally consistent cuts
- Low noise, rubber molded cushion grip
- Compact size, easy to operate

- Free Speed: 14000rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 3/8"
- Avg. Air Con.: 3.6cfm
- Overall Length: 240mm
- Net Weight: 1.1kg
- Applicable to Cut-off Discs:
Disc Dia.: ø105mm (4")
Bore Dia.: ø16mm



Order Code: **TFAT41-10100C**

Powerful Air Nippers

- Finely ground alloy steel blades for higher sharpness, which can easily shear copper wires, iron wires and stainless steel wires
- Aviation aluminum body, wear resisting, anti-impact and durable

- Hose Size: 8mm
- Blade Opening: 9.5 - 16.5mm
- Overall Length: 198mm
- Body Diameter: 56mm



Order Code	Capacity ø (mm)	Image
TFAT42		
-81030A	Soft Plastics/Rubbers: ø10mm Hard Plastics/Rubbers: ø6.5mm	1
-81130A	Copper Wires: ø3.3mm Iron Wires: ø2.8mm	2

- Sound Power (LpA / LWA): 103db / 114db
- Vibration: 15.1m/s²
- Overall Length: 170mm
- Avg. Air Con.: 2.0cfm (56LPM)
- Net Weight: 1.5kg

Order Code: **TFAT44-10108K**

Set Includes:
1 x Hammer; 5 x Chisels
1 x Spring Retainer
1 x Quick Change Retainer



Air Riveter

- Industrial grade, widely used in decoration, automotive, container, electric appliance, instrument, and other machinery manufacturing industries
- Good hardness, strong wear resistance, high tensile force, can be used for stainless steel nails
- Ergonomic grip, easy to operate, quick return, automatic nail discharging
- Suitable for rivet sizes: 2.4, 3.2, 4.0 & 4.8mm
- Supplied with 4 riveting nose pieces
- Pulling Force: 850kgf
- Air Inlet: 1/4"
- Avg. Air Con.: 4cfm
- Size: 145 x 235mm
- Net Weight: 1.3kg



Order Code: **TMAT50-02401A**

Professional High Speed Micro Air Die Grinder

- This high speed micro air die grinder is perfect for precision deburring and finishing
- Low vibration and comfort grip
- Collet Size: 3mm
- Free Speed: 80000rpm
- Air Inlet: 1/4"
- Air Hose Dia. (ID): 1/4"
- Overall Length: 143mm
- Net Weight: 180g



Order Code: **TFAT47-10010A**

Professional Micro Air Die Grinder

- Ideal for machining dies, molds or other restricted grinding applications
- High torsion, low vibration and comfort grip
- Collet Sizes: 3mm & 6mm
- Free Speed: 30000rpm
- Air Inlet: 1/4"
- Air Hose Dia. (ID): 1/4"
- Overall Length: 145mm
- Net Weight: 240g



Order Code: **TFAT47-40010A**

Industrial Precision Micro Air Die Grinder

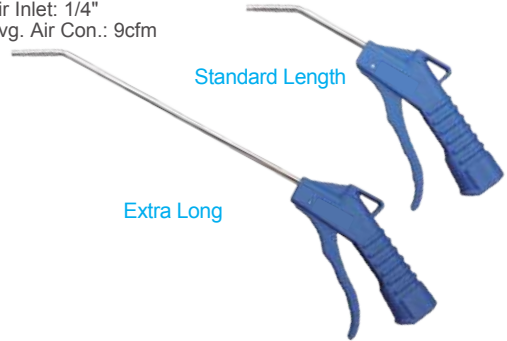
- Industrial grade, widely used in clean jewelry, dies, rotors, backing plates, brake pads, cylinder heads, mounts and many other applications
- High torsion, low vibration and comfort grip
- Collet Size: 3mm
- Free Speed: 60000rpm
- Air Inlet: 1/4"
- Air Hose Dia. (ID): 1/4"
- Overall Length: 160mm
- Net Weight: 110g



Order Code: **TFAT47-10020B**

Nylon Body Air Blowguns

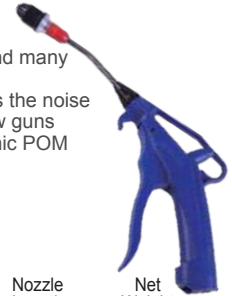
- Widely used in vehicle cleaning and many different industries
- Max Pressure: 10.5 Bar (150PSI)
- Working Pressure: 5 - 8 Bar (70 - 120PSI)
- Air Inlet: 1/4"
- Avg. Air Con.: 9cfm



Industrial Grade			
Order Code	Model	Overall Length	Nozzle Length
TFAT70			
-02164A	Standard Length	10" / 250mm	4" / 100mm
-12164A	Extra Long	16-1/2" / 419mm	11" / 280mm
Commercial Grade			
Order Code	Model	Overall Length	Nozzle Length
TFAT70			
-01000B	Standard Length	10" / 250mm	4" / 100mm
-116000B	Extra Long	16" / 400mm	10" / 260mm

Quiet Air Blow Guns

- Widely used in vehicle cleaning and many different industries
- Specially designed nozzle reduces the noise to 86db over the conventional blow guns
- High impact resistance & ergonomic POM body
- Inlet Thread: 1/4"
- Accessory Connection: 1/4"
- Air Flow Capacity: 0.63Mpa



Order Code	Sound Level	Overall Length	Nozzle Length	Net Weight
TFAT70				
-02164S	86db	11" / 290mm	4" / 100mm	100g
-13164S	86db	20" / 510mm	12" / 300mm	155g

Industrial PU Airline Hoses with Standard Couplings

- Made from premium PU material, good flexibility, resistance to bending, wear-resistant, pressure-proof and explosion-proof and high concentricity
- Tangle-free, hassle-free, also self coiled design for kink-free
- All weather products, applicable in a wide range of temperature from -20°C to 60°C
- Instantaneous explosion pressure up to 3.6Mpa thanks to the thickened wall
- Pre-installed industrial-grade quick couplings help you to connect and use air compressor tools quickly



Order Code	Hose O.D. (mm)	Hose I.D. (mm)	Hose Length (m)
TFAT67			
-00609A	6	4	9
-00612A	6	4	12
-00809A	8	5	9
-00812A	12	5	12
-01209A	12	8	9
-01212A	12	8	12

Full New Range of Automotive Grade

Twin Hammer Air Impact Wrenches

- Widely used in automotive assembly and maintenance fields
- Made of optimal material, twin hammer mechanism delivers high torque and durability
- Anti-fatigue thanks to the lightweight design
- CE certification

- Bolt Capacity: M14
- Max. Torque: 520Nm (380ft.lb)
- Free Speed: 9000rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 10mm (3/8")
- Air Pressure: 90psi
- Air Consumption: 6.3L/s
- Noise Level: 98dB(A)
- Net Weight: 1.6kg



Order Code	Square Drive
TFAT10	
-27277D	3/8"
-37277D	1/2"



1/2" Dr. Air Impact Wrench

- Widely used in automotive assembly and maintenance fields
- Made of optimal plastic steel material, lightweight and durable
- Twin hammer mechanism delivers high torque, durability and low noise
- Stepless speed control; easy manual one-hand F/R switch
- 2 stage trigger enables the operator to control speed much easily. Light press for low output as well as high press for high output
- Auxiliary exhaust vent offers smoother air discharge for longer working time
- Extended air inlet for smoother performance and lower noise
- Ergonomic handle is made of coated aluminum alloy, providing excellent anti-slip effect and comfortable grip
- CE certification

- Square Drive: 1/2"
- Bolt Capacity: M16
- Max. Torque: 660Nm (487ft.lb)
- Free Speed: 8000rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 10mm (3/8")
- Air Pressure: 90psi
- Air Consumption: 7.5L/s
- Noise Level: 98dB(A)
- Net Weight: 2.6kg



Order Code: **TFAT10-37282D**

1/2" Dr. High Torque Air Impact Wrench

- Widely used in automotive assembly and maintenance fields
- Twin hammer structure, powerful torque, robust and durable
- Specially designed plastic-steel handle, aesthetically pleasing and lightweight
- Extended motor design, providing a torque output of up to 1500N.m
- 3 forward rotation settings to meet different torque requirements, one-hand easy and precise direction switch
- 360° air inlet connector to prevent hose entanglement, facilitating operation and reducing quick connector wear; stainless steel filter at the air inlet effectively purifies the compressed air, protecting the pneumatic motor
- CE certification

- Square Drive: 1/2"
- Bolt Capacity: M18
- Max. Torque: 1500Nm (1100ft.lb)
- Free Speed: 8000rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 10mm (3/8")
- Air Pressure: 90psi
- Air Consumption: 6.5L/s
- Noise Level: 98dB(A)
- Net Weight: 2.0kg



Order Code: **TFAT10-37286D**

3/4" Dr. Heavy Duty Air Impact Wrench

- Specifically designed for heavy-duty vehicle tire disassembly and assembly tasks
- Malleable steel mechanism ensures powerful torque, robust and durable
- Forward: 3 positions; Reverse: 3 positions
- CE certification

- Square Drive: 3/4"
- Bolt Capacity: M32
- Max. Torque: 2400Nm (1785ft.lb)
- Free Speed: 5000rpm
- Air Inlet: 1/2"
- Hose Size (I.D.): 13mm (1/2")
- Air Pressure: 90psi
- Air Consumption: 220L/min
- Noise Level: 95dB(A)
- Net Weight: 7.3kg



Order Code: **TFAT10-47386D**

1" Dr. Heavy Duty Long Anvil Air Impact Wrench

- High-quality aluminum alloy housing, ultra-lightweight for more comfortable operation and reduced fatigue
- 9" extra long anvil for wider applications
- Pinless single hammer mechanism for powerful torque, durability and reliability
- Consists of heat treated anvil and motor, special alloy steel rotor and P6 industrial-grade bearings for enhanced stability
- CE certification

- Square Drive: 1" • Bolt Capacity: M39 • Max. Torque: 3200Nm (2360ft.lb)
- Free Speed: 3200rpm • Air Inlet: 1/2"
- Hose Size (I.D.): 13mm (1/2") • Air Pressure: 90psi
- Air Consumption: 380L/min • Noise Level: 110dB(A)
- Net Weight: 16.8kg



Order Code: **TFAT10-57885D**

Full New Range of Automotive Grade

Reversible Air Ratchets

- Square drive with ball-type retainer, made of tungsten steel, high hardness and durable
- CE certification
- Max. Torque: 62Nm (45ft.lb)
- Free Speed: 150rpm
- Air Inlet: 1/4"
- Air Pressure: 90Psi (6.3kg/cm²)
- Air Consumption: 4.0cfm
- Overall Length: 260mm
- Net Weight: 1.18kg



Order Code	Square Drive
TFAT12	
-24871D	3/8"
-34871D	1/2"

1/4"(6mm) Air Die Grinders

- Powerful torque, high concentricity, minimal deviation, low vibration
- High wear resistance, no heat generation, smooth operation
- Speed control knob switch.
- CE certification



- Chuck Size: 1/4" (6mm)
- Air Inlet: 1/4"
- Air Pressure: 90Psi (6.3kg/cm²)

Order Code	Speed (rpm)	Length (mm)	Net weight (kg)
TFAT45			
-06669D	25000	153	0.33
-06670D	22000	175	0.55

Mini Aluminum Alloy Air Die Grinder

- Aluminum alloy housing, aesthetically pleasing and sturdy
- CE certification
- Chuck Size: 1/4" (6mm)
- Free Speed: 25000rpm
- Air Inlet: 1/4"
- Air Pressure: 90Psi (6.3kg/cm²)
- Overall Length: 155mm
- Net Weight: 0.35kg



Order Code: **TFAT45-08201D**

Long Anvil Aluminum Alloy Air Die Grinder

- Aluminum alloy housing, aesthetically pleasing and sturdy
- Long anvil is suitable for long distance operation, which providing a wider range of applications
- CE certification
- Chuck Size: 1/4" (6mm)
- Free Speed: 20000rpm
- Air Inlet: 1/4"
- Air Pressure: 90Psi (6.3kg/cm²)
- Overall Length: 275mm
- Net Weight: 0.8kg



Order Code: **TFAT45-06671D**

Aluminum Alloy 90° Angled Air Die Grinder

- Aluminum alloy housing, aesthetically pleasing and sturdy
- CE certification
- Chuck Size: 1/4" (6mm)
- Free Speed: 20000rpm
- Air Inlet: 1/4"
- Air Pressure: 90Psi (6.3kg/cm²)
- Length: 78 x 153mm
- Net weight: 0.5kg



Order Code: **TFAT45-06677D**

Industrial Self-vacuum Air Orbital Sanders - 6-Hole Velcro

- Suitable for tasks such as grinding, polishing, waxing, and rust removal
- Powerful motor, adjustable speed and reversible rotation
- Self-vacuuming, fitted with 6-hole velcro pad
- CE certification
- Orbit: 5mm
- Free Speed: 10000rpm
- Air Inlet: 1/4"
- Air Pressure: 90Psi (6.3kg/cm²)
- Net Weight: 1.0kg



Order Code	Pad Size (mm)
TFAT40	
-05210D	5"
-06210D	6"

13mm Reversible Pistol Air Drill

- Compact and lightweight, with powerful torque
- Easy drilling, sturdy and durable
- CE certification
- Chuck Size: 13mm (1/2")
- Free Speed: 700rpm
- Air Inlet: 1/4"
- Air Pressure: 90Psi (6.3kg/cm²)
- Overall Length: 195 x 170mm
- Net Weight: 1.3kg



Masonry Drilling | Tile Drilling | Glass Drilling | Wood Drilling

Order Code: **TFAT20-08313D**

Full New Range of Automotive Grade

Industrial Reversible Air Screwdriver

- This industrial grade of in-line screwdriver is a very cost effective option for production tightening assembly. It is good for continuous work while providing the constant torque
- Equipped with high quality rotor which is heat treated and capable of withstanding high speed rotation by outputting high torque, suitable for high intensity work
- Thickened and hardened cylinder wall can withstand higher torque output at higher speed which makes the tools more durable than the ones with the regular cylinders
- CE certification
- Bolt Capacity: M4 - M5
- Free Speed: 10000rpm
- Air Inlet: 1/4"
- Air Pressure: 90Psi (6.3kg/cm²)
- Overall Length: 215mm
- Net Weight: 0.7kg



Order Code: **TFAT30-81016D**

Air Angle Grinders

- A very popular tool for grinding flat and curved surfaces in a variety of different materials
- Ergonomic, insulated and lightweight housing made from impact-proof composite material



Applications:



Metal Grinding



Metal Cutting



Flap Disc



Buffing Wheel



Stone Dia'd Cutting Disc



Velcro Disc



Wire Brush



Marble Cutting Disc



Felt Wheel

- Free Speed: 11000rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 10mm (3/8")
- Air Pressure: 90psi (0.63Mpa)
- Net Weight: 1.45kg

Order Code	Size
TFAT40	
-08314D	4" / 100mm
-08315D	5" / 125mm

Air Riveter

- Tough composite casing for maximum toughness, protection and longevity
- Lightweight and easy to operate by one hand
- Automatic scrap nail collection box
- Ergonomic push switch
- CE certification



This riveter comes with a built-in 4.8mm nose piece which can pull 4.8mm rivets. Please use the corresponding nose pieces for the rivets in different sizes, otherwise may cause stem jamming

3.2mm 4.0mm 4.8mm



- Blind Rivet Setting: 3.2 / 4.0 / 4.8mm
- Max. Pull Force: 11980Nm
- Stroke: 18mm
- Air Inlet: 1/4"
- Air Pressure: 5 - 7bar
- Dimensions: 200 x 250mm(h)
- Net Weight: 1.4kg

Order Code: **TFAT50-04818D**

Air Body Saw

- Good for cutting through tubing, steel, aluminum, fiberglass, wood, plastic etc.
- Aluminum body with anti-vibration rubber grip
- Fixed reciprocating stroke to prevent jamming and provide security
- CE certification



- Stroke per Minute: 9000cpm
- Air Inlet: 1/4"
- Air Pressure: 90Psi (0.63Mpa)
- Air Consumption: 6cfm
- Overall Length: 240mm
- Net Weight: 0.65kg

Order Code: **TFAT42-09001D**

High Speed Micro Air Die Grinder Kit

- A very cost effective kit for light duty work and DIY purposes.
- Kit includes: high speed mini grinder, oil injector, air inlet connector, mini oil bottle, spanners (x2), mounted points (x10)
- CE certification

- Chuck Size: 3mm
- Free Speed: 65000rpm
- Air Inlet: 1/4"
- Hose Size (I.D.): 6mm (1/4")
- Air Pressure: 90Psi (0.63Mpa)
- Air Consumption: 2cfm
- Net Weight: 1.2kg

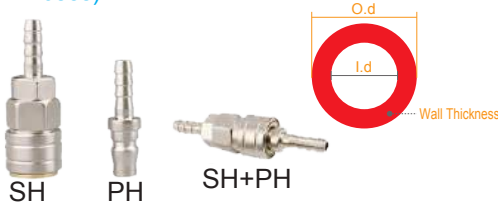


Order Code: **TFAT47-09002D**

C Type Air Fittings

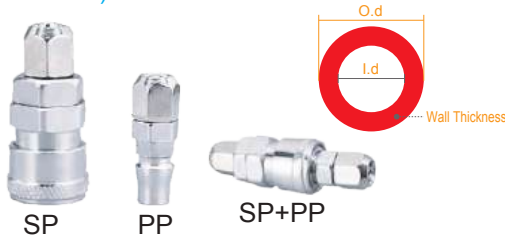
- Made of durable nickel-plated steel
- Double-sealed structure for excellent sealing and high flow rate
- Designed for easy single-handed operation with quick plug-and-lock mechanism

Long-tail Self-locking Couplers (for Air Hoses)



Order Code TFAT77	Combination (Set)	Suitable for Air Hoses I.d. (mm)	Pack Quantity
-01120C	20SH + 20PH	8 - 9	10
-01130C	30SH + 30PH	10 - 11	10
-01140C	40SH + 40PH	12 - 13	10

Duct Self-locking Couplers (for Air Hoses)



Order Code TFAT77	Combination (Set)	Suitable for Air Hoses I.d X O.d. (mm)	Pack Quantity
-02120C	20SP + 20PP	5 x 8	10
-02130C	30SP + 30PP	6.5 x 10	10
-02140C	40SP + 40PP	8 x 12	10

External Thread (Male) Self-Locking Couplers (for connectors)

- Commonly used for pneumatic tools.



Order Code TFAT77	Combination (Set)	Fitting Connectors	Pack Quantity
-03120C	20SM + 20PM	BSP1/4 (G1/4) external thread to connect an internal thread of 13mm (approx.)	10
-03130C	30SM + 30PM	BSP3/8 (G3/8) external thread to connect an internal thread of 16mm (approx.)	10
-03140C	40SM + 40PM	BSP1/2 (G1/2) external thread to connect an internal thread of 20mm (approx.)	10

Internal Thread Self-Locking Couplers (for connectors)

- Commonly connected to air outlets of air compressors



Order Code TFAT77	Combination (Set)	Fitting Connectors	Pack Quantity
-04120C	20SF + 20PF	BSP1/4 (G1/4) internal thread to connect an external thread of 13mm (approx.)	10
-04130C	30SF + 30PF	BSP3/8 (G3/8) internal thread to connect an external thread of 16mm (approx.)	10
-04140C	40SF + 40PF	BSP1/2 (G1/2) internal thread to connect an external thread of 20mm (approx.)	10

3 Way / 2 Way Manifold Connectors (Standard Type)

- Widely used for the connection between pneumatic devices and air hoses, air pump and air compressors, etc



Order Code TFAT77	Types and Sizes	Pack Quantity
-10132C	3 Way BSP1/4 (G1/4) internal thread	10
-10122C	2 Way BSP1/4 (G1/4) internal thread	10

Straight Push-in Air Connectors

- Pure zinc collar
- Maximum pressure up to 1.32Mpa
- Fast and reliable connection, leak free
- Working temperature: -20 ~ 120°C



PU Equals

Order Code TFAT77	Size	Hose O.d. (mm)	Pack Qty.
-18004A	PU4	4	10
-18006A	PU6	6	10
-18008A	PU8	8	10
-18010A	PU10	10	10
-18012A	PU12	12	10
-18014A	PU14	14	10
-18016A	PU16	16	10

PG Reducers

Order Code TFAT77	Size	Hose O.d. (mm)	Pack Qty.
-18104B	PG 6-4	6 x 4	10
-18108B	PG 8-4	8 x 4	10
-18112B	PG 8-6	8 x 6	10
-18116B	PG 10-6	10 x 6	10
-18120B	PG 10-8	10 x 8	10
-18124B	PG 12-8	12 x 8	10
-18128B	PG 12-10	12 x 10	10
-18140B	PG 16-12	16 x 12	10

20L / 1200W Professional Wet & Dry Vacuum Cleaner

- A German style industrial wet and dry cleaner
- Dust container made of robust engineering plastic PP
- Rated voltage: 220V
- Rated power: 1200W
- Vacuum pressure: 22kPa
- Air flow: 177m³/h
- Filter area: 3600cm²
- HEPA: 0.3µm
- Dust container volume: 20L
- Product dimensions: 400 x 395 x 469mm
- Net weight: 7.0kg



Accessories:

- 1pc of 1.75m shape memory hose
- 1pc of plastic-steel adjustable airflow handle
- 1pr. of plastic-steel extensions
- 1pc of crevice nozzle
- 1pc of small square brush
- 1pc of water suction brush
- 1pc of square brush
- 1pc of carpet/floor scraper



Spare Filter

Order Code: TFAT71-10001P

Order Code	Volume	Power
TFAT71		
-10020B	20L	1200W

32L / 1200W Professional Wet & Dry Vacuum Cleaner

- A German style industrial wet and dry cleaner
- Dust container made of robust engineering plastic PP
- Rated voltage: 220V
- Rated power: 1200W
- Vacuum pressure: 22kPa
- Air flow: 177m³/h
- Filter area: 3600cm²
- HEPA: 0.3µm
- Dust container volume: 32L
- Product dimensions: 465 x 500 x 590mm
- Net weight: 8.0kg



Accessories:

- 1pc of 1.75m shape memory hose
- 1pc of plastic-steel adjustable airflow handle
- 1pr. of plastic-steel extensions
- 1pc of crevice nozzle
- 1pc of small square brush
- 1pc of water suction brush
- 1pc of square brush
- 1pc of carpet/floor scraper



Spare Filter

Order Code: TFAT71-10001P

Order Code	Volume	Power
TFAT71		
-10032B	32L	1200W

45L / 1200W Professional Wet & Dry Vacuum Cleaner

- A German style industrial wet and dry cleaner
- Dust container made of stainless steel
- Rated voltage: 220V
- Rated power: 1200W
- Vacuum pressure: 22kPa
- Air flow: 177m³/h
- Filter area: 3600cm²
- HEPA: 0.3µm
- Dust container volume: 45L
- Product dimensions: 485 x 484 x 893mm
- Net weight: 16.5kg



Accessories:

- 1pc of 1.32m shape memory hose
- 1pc of plastic-steel adjustable airflow handle
- 1pc of stainless steel extension
- 1pc of crevice nozzle
- 1pc of small square brush
- 1pc of round brush
- 1pc of combination brush
- 1pc of water suction brush
- 1pc of carpet/floor scraper



Spare Filter

Order Code: TFAT71-10001P

Order Code	Volume	Power
TFAT71		
-10045B	45L	1200W

60L / 2400W Professional Dry & Wet Vacuum Cleaner

- A German style industrial wet and dry cleaner
- Dust container made of stainless steel
- Rated voltage: 220V
- Rated power: 2400W
- Vacuum pressure: 22kPa
- Air flow: 177 ~ 354m³/h
- Filter area: 8900cm²
- HEPA: 0.3µm
- Dust container volume: 60L
- Product dimensions: 607 x 580 x 1025mm
- Net weight: 26.0kg



Accessories:

- 1pc of 2.5m shape memory hose
- 1pc of dust suction brush
- 1pc of crevice nozzle
- 1pc of round brush
- 1pc of water suction brush
- 1pr. of S-shaped extensions



Spare Filter

Spare Cloth Bag

Order Code:
TFAT71-30002P

Order Code:
TFAT71-30001P

Order Code	Number of Motors	Volume	Power
TFAT71-30060B	2	60L	2400W

80L / 2400W Professional Dry & Wet Vacuum Cleaner

- A German style industrial wet and dry cleaner
- Dust container made of stainless steel
- Rated voltage: 220V
- Rated power: 2400W
- Vacuum pressure: 22kPa
- Air flow: 177 ~ 354m³/h
- Filter area: 8900cm²
- HEPA: 0.3µm
- Dust container volume: 80L
- Product dimensions: 607 x 580 x 1125mm
- Net weight: 26.8kg



Accessories:

- 1pc of 2.5m shape memory hose
- 1pc of dust suction brush
- 1pc of crevice nozzle
- 1pc of round brush
- 1pc of water suction brush
- 1pr. of S-shaped extensions



Spare Filter

Spare Cloth Bag

Order Code:
TFAT71-30002P

Order Code:
TFAT71-30001P

Order Code	Number of Motors	Volume	Power
TFAT71-30080B	2	80L	2400W

80L / 3600W Professional Dry & Wet Vacuum Cleaners

- A German style industrial wet and dry cleaner
- Dust container made of stainless steel
- Rated voltage: 220V
- Rated power: 3600W
- Vacuum pressure: 22kPa
- Air flow: 177 ~ 531m³/h
- Filter area: 8900cm²
- HEPA: 0.3µm
- Dust container volume: 80L
- Product dimensions: 700 x 580 x 1125mm
- Net weight: 32.8kg

Diagram 1

Diagram 2



Accessories:

- 1pc of 2.5m shape memory hose
- 1pc of dust suction brush
- 1pc of crevice nozzle
- 1pc of round brush
- 1pc of water suction brush
- 1pr. of S-shaped extensions



Spare Filter

Spare Cloth Bag

Order Code:
TFAT71-30002P

Order Code:
TFAT71-30001P

-32080B:
Comes with a pushable suction head, especially suitable for efficient vacuuming on flat surfaces, making the cleaning process effortless.

Order Code	Model	Number of Motors	Volume	Power	Diagram
TFAT71-31080B	Standard	3	80L	3600W	1
TFAT71-32080B	With pushable suction head	3	80L	3600W	2

Retractable Hose Reels

- Designed for automatic retraction, easy to use
- German made polyurethane hose, extremely flexible, easy to stretch and wind with long service time
- Upgraded PU yarn hose has better cold and heat resistance, superior flexibility, strong elasticity without deforming, corrosion resistance. It can withstand pressure up to 20kg
- Constructed by steel drum with ABS casing, equipped with upgraded steel locking mechanism for safe use. Using copper bearing bush to reduce the friction for longer service time. It also comes with copper couplers
- Freely use without any entanglement
- High quality spring provides quick and easy retract and high durability
- CE certified

Water Hose Reels

Air Hose Reels

Water & Air Hose Reels



Water Hose Reels

Order Code	Hose Size I.d x o.d x Length	Working Pressure (Mpa)	Dimensions (mm)	Weight (kg)
-16510A	6.5mm x 10.0mm x 10M	1.5	H314 x W290 x D152	3.7
-16515A	6.5mm x 10.0mm x 15M	1.5	H314 x W290 x D152	4.2
-18010A	8.0mm x 12.0mm x 10M	1.5	H314 x W290 x D152	4.2
-18015A	8.0mm x 12.0mm x 15M	1.5	H314 x W290 x D152	4.5

Air Hose Reels

Order Code	Hose Size I.d x o.d x Length	Working Pressure (Mpa)	Dimensions (mm)	Weight (kg)
-26510B	6.5mm x 10.0mm x 10M	1.5	H314 x W290 x D152	3.7
-26515B	6.5mm x 10.0mm x 15M	1.5	H314 x W290 x D152	4.2
-28010B	8.0mm x 12.0mm x 10M	1.5	H314 x W290 x D152	4.2
-28015B	8.0mm x 12.0mm x 15M	1.5	H314 x W290 x D152	4.5

Water & Air Hose Reels

Order Code	Hose Size I.d x o.d x Length	Working Pressure (Mpa)	Dimensions (mm)	Weight (kg)
TFAT70				
-36510C	6.5mm x 10.0mm x 10M	1.4	H314 x W290 x D155	5.5

21V 2-Speed Li-Ion Cordless Drill/Driver

- High-quality brushless motor, comfortable composite handle, waterproof, shock-resistant, and drop-proof
- Dual-speed settings:
 - * 1st position: slow speed, suitable for screw driving
 - * 2nd position: fast speed, suitable for drilling
- Forward and reverse rotation with hammer function
- 10mm keyless drill chuck
- Maximum torque: 40Nm
- Free speed: 1350rpm
- Clutch: 25 + 1
- Power supply: 110-240V / 50-60Hz
- Output power: 80W
- Lithium battery: 21V x 2.2Ah
- Full charging time: 2 - 3hrs
- Standard accessories: 2 batteries, 1 charger
- Battery CE certified



Order Code	Voltage (V)	Chuck Capacity (mm)	Max Torque (Nm)
TFET60	21	10	40
-12021A			

Industrial Cable Reels

4-Way Australian Standard

- High impact resistant drum made of high strength PP plastic, anti-fall, anti-drop
- Double-insulation sheath, 3 core cable (1.5mm²)
- Comes with thermal overload protection
- Complies with SAA certification



Order Code	Voltage (V)	Cable Length (m)	Net Weight (kg)
TFET80	230	15	2.0
-13015A			

3-Way Waterproof British Standard

- Made of quality ABS, high impact resistance and highly durable
- 3 waterproof British standard sockets
- High quality 3 core cable (1.5mm²)
- Comes with thermal overload protection
- Complies with British standards: BS61242 & BS1363



Order Code	Voltage (V)	Cable Length (m)	Net Weight (kg)
TFET80	240	15	3.26
-14115A	240	25	4.35
-14150A	240	50	7.48

Electric Pipe Threading Machines

- These pipe threaders can thread a wide range of pipe including black, galvanized and plastic-coated pipes, together with stainless steel, IMC and heavy-wall conduits, as well as rods up to 30 Rockwell C
- By using the corresponding dies, these pipe threaders can thread different threads i.e. British standard, American standard and metric standard. (Dies may need to be purchased separately)
- Front chuck: hammer type with replaceable rocker action jaw inserts
- Oiling system: through the head, with an integral oil reservoir, self-priming, constant-flow
- Lightweight and compact design, low noise
 - Complies with CSA and CE certifications

1/4" - 2"

- Nominal pipe capacity: 1/4" - 2" (6 - 50mm)
- Bolt capacity: M12 - M52

Standard accessories:

- 1 off quick-opening die head
- 1 off 1/2" - 3/4" universal HSS die set
- 1 off 1" - 2" universal HSS die set
- 1 off 1/8" - 2" scraper
- 1 off 1/8" - 2" cutter
- 1 off 4-leg stand

Equipped with an induction motor



Induction Motor

Order Code	Voltage (V)	Frequency (Hz)	Power (W)	Spindle Speed (rpm)
TFTR80	220	50/60	1500	38
-01050F				

1/4" - 3"

- Nominal pipe capacity: 1/4" - 3" (6 - 75mm)
- Bolt capacity: M12 - M52

Standard accessories:

- 1 off 1/4" - 2" self-opening die head
- 1 off 2-1/2" - 3" self-opening die head
- 1 off 1/2" - 3/4" universal HSS die set
- 1 off 1" - 2" universal HSS die set
- 1 off 2-1/2" - 3" universal HSS die set
- 1 off 1/8" - 3" scraper
- 1 off 1/8" - 3" cutter
- 1 off 4-leg stand

Equipped with a universal motor



Universal Motor

Order Code	Voltage (V)	Frequency (Hz)	Power (W)	Spindle Speed (rpm)
TFTR80	220	50/60	1500	32
-02080C				

Portable Electric Pipe Threading Machine

- Ideal for on-site applications such as gas line pipe installation
- Suitable to thread NPT / BSPT pipes
- Capacity: 1/2" - 2"
- Featured with fast reverse and slow forward rotations for time saving
- Equipped with heavy duty paddle switch with safety lock-off as well as a separate forward/reverse switch
- Gear driven, all gears are nitride treated, permanently lubricated for long-lasting toll life
- Cast aluminum gear housing plus fiberglass body/handle can withstand daily and heavy-duty use
- Complies with CSA and CE certifications

Standard accessories:

- Dies: 1/2", 3/4", 1", 1-1/4", 1-1/2" & 2"
- 1 x support arm
- 1 x blow case



Order Code	Voltage (V)	Frequency (Hz)	Power (W)	Weight (kg)	Threading Speed (rpm)	Reverse Speed (rpm)
TFTR80	220	50/60	1350	8.2	28	51
-00302B						

Commercial Pressure Washer

- A great option for quickly and effectively washing cars, patios, outdoor furniture, decking, and more
- Equipped with a cord bracket for tidiness
- Long-lasting aluminum pump plus high-quality seals and bearings for durability
- Fitted with anti-vibration and non-slip wheels
- GS and CE certifications

Main Parameters:

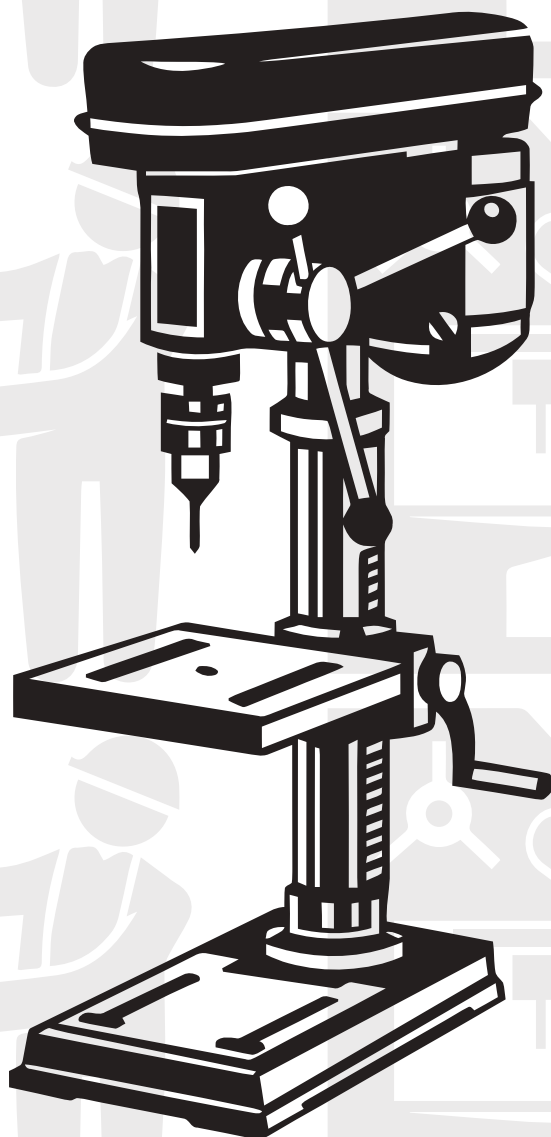
- Voltage: 220 - 240V
- Frequency: 50 - 60Hz
- Rated power: 1700W
- Length of power cable: 8m
- Rated pressure: 9Mpa
- Max. pressure: 13Mpa
- Rated flow rate: 6L/min
- Max. flow rate: 10L/min
- Dimensions: 205 x 165 x 485mm
- Weight: 7kg



Order Code	Rated Water Flow (L/min)	Max Water Flow (L/min)	Length of Power Cable (m)
TFAT70	6	10	5
-45001B			

TEMOTUF™

Workshop Equipment & Tools



www.temotuf.com

Portable Bearing Heater

- Designed to heat the bearings and other shrink-fit components prior to mounting. It is widely used in industrial fields such as metallurgy, railways, oil fields, machinery and motors etc.
- This portable heater featured with metal thermal expansion and contraction functions which can extend the service length of rolling bearings
- Compact size, lightweight, and come with a convenient carrying case, providing a convenient, economical, safe and reliable method of bearing installation
- Dual control models: time control (0-99'99") and temperature control (0-240°C), with digital display
- The cross bars support a bearing while it is being heated on an induction bearing heater. Cross bars can be changed to support different bearing sizes
- Automatic demagnetization to <2A/CM
- Special technology minimizes radiation and noise. The noise level of new machine is lower than 65dB and does not exceed 75dB after one year of use
- A military-grade 35W270 laminated silicone steel core (0.35mm thick) provides excellent magnetic properties and improves heating efficiency by 300%
- High-quality pure copper induction coil for better insulation and heat resistance
- Double-glass-fiber covered wire for longer service life
- Fully enclosed insulation coil eliminates the risk of exposure of the coil and provides better personal protection
- Wrapped by multiple layers of alkali-free fiber tape and varnished by F-class epoxy resin, giving multiple safety guarantees
- Multiple certifications: CE, EMC, FCC, National Demagnetization Testing Report and National Temperature Accuracy Report etc.

Main Features:

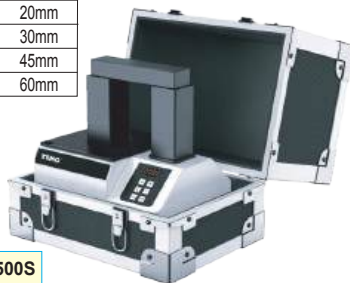
- Innovative eddy current induction design
- Sealed bearings (ZZ, 2RS) heatable
- Continuous operation, high output power and high efficiency
- No open flame, no pollution, environmental friendly, energy saving and no hidden accidents
- Dual control models of time and temperature, with temperature control error < 3°C
- Dual automatic and manual demagnetization to <2A/CM
- Switchable display of heating time and real-time temperature when in heating mode

Parameter

Voltage/Frequency	220V / 50-60HZ
Power	2.5KVA
Current	10A
Min. inner diameter of workpiece	15mm
Max. outer diameter of workpiece	220mm
Max. width of workpiece (Vertical / Horizontal)	70mm / 100mm
Max. weight of workpiece	12KG
Highest temperature control	240°C
Heating 1kg of bearing to 110°C	0.5min. (may vary depending on actual working conditions)
Net weight of the heater	15KG
Overall dimensions	240 x 200 x 235mm

Standard Accessories: Cross Bars

Standard Cross Bar	Max. Weight of Workpiece	Min. Inner Dia. of Workpiece
10 x 10 x 150mm	5KG	15mm
14 x 14 x 150mm	10KG	20mm
20 x 20 x 150mm	15KG	30mm
30 x 30 x 150mm	15KG	45mm
40 x 40 x 150mm	15KG	60mm



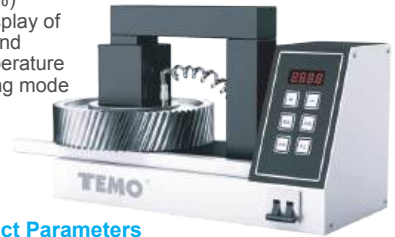
Order Code: TFMC01-02500S

Desktop Bearing Heaters

- Designed to heat the medium and small sized bearings and other shrink-fit components prior to mounting
- Dual control models: time control (0-9999") and temperature control (0-300°C), with digital display
- The cross bars support a bearing while it is being heated on an induction bearing heater. Cross bars can be changed to support different bearing sizes
- Multiple certifications: CE, EMC, FCC, National Demagnetization Testing Report and National Temperature Accuracy Report etc.

Main Features:

- Designed to meet higher requirements in industrial applications, significantly improving the heating capacity for more specified workpieces
- Automatic demagnetization to <2A/CM
- Featured with unique sliding support rails
- Intelligent power output control to ensure the safe operation of the heater (-05000S can automatically adjust the power from 0 to 100%)
- Switchable display of heating time and real-time temperature when in heating mode



(03600S) Product Parameters

Voltage/Frequency	220V / 50-60HZ
Power	3.6KVA
Min. inner diameter of workpiece	20mm
Max. outer diameter of workpiece	480mm
Max. width of workpiece (Vertical / Horizontal)	115mm / 175mm
Max. weight of workpiece	50KG
Highest temperature control	300°C
Heating 13kg of bearing to 110°C	5mins. (may vary depending on actual working conditions)
Net weight of the heater	35KG
Overall dimensions	480 x 240 x 305mm

(03600S) Standard Accessories: Cross Bars

Standard Cross Bar	Max. Weight of Workpiece (for reference only)	Min. Inner Dia. of Workpiece (for reference only)
14 x 14 x 250mm	10KG	20mm
20 x 20 x 250mm	15KG	30mm
30 x 30 x 250mm	30KG	45mm
45 x 45 x 250mm	50KG	65mm

Order Code: TFMC01-03600S

(05000S) Product Parameters

Voltage	380V / 50-60HZ
Power	5KVA
Current	14A
Min. inner diameter of workpiece	30mm / 140mm
Max. outer diameter of workpiece	480mm
Max. width of workpiece (Vertical / Horizontal)	140 / 175mm
Max. weight of workpiece	50KG
Highest temperature control	300°C
Heating 10kg of bearing to 110°C	3mins. (may vary depending on actual working conditions)
Net weight of the heater	43KG
Overall dimensions	600 x 250 x 350mm
Gross weight	51KG

(05000S) Standard Accessories: Cross Bars

Standard Cross Bar	Max. Weight of Workpiece (for reference only)	Min. Inner Dia. of Workpiece (for reference only)
20 x 20 x 250mm	15KG	30mm
30 x 30 x 250mm	30KG	45mm
45 x 45 x 250mm	50KG	65mm

Order Code: TFMC01-05000S

Sandblast Cabinets

- Manufactured from high-quality and heavy-duty steel, powder coating surface
- Perfect for quickly and easily blast away paint, rust, coatings, and more from components in small and medium sizes
- Transparent glass viewing window
- Built in vacuum and filter system
- Built in power indicator and internal LED light for improved visibility
- Silicone sealed cabinet creates an air-tight seal

Floor Type - Double Side Doors

Floor Type - Single Side Door

Benchtop



Sand Blasting Gun

- With ceramic nozzle and air connector.



Order Code: TFWS09-00001P

Order Code	Type	Capacity (L)	Air Pressure (MPa)	Overall Dimensions (mm)	Working Area (mm)	Net Weight (kg)	Gross Weight (kg)
TFWS09							
-30350A	Floor Type - Double Side Doors	350	0.6 - 0.8	940 x 680 x 1510	890 x 670 x 600	67.0	71.0
-35160A	Floor Type - Single Side Door	160	0.6 - 0.8	725 x 550 x 640	690 x 540 x 490	37.0	41.0
-34090B	Benchtop	90	0.6 - 0.8	585 x 480 x 490	570 x 470 x 350	16.0	18.0

Parts Washers

- An industrial grade product, Ideal for cleaning automotive parts such as bearings, crankshafts, cylinder heads, or any grease covered part
- Suitable for using in industry, workshop and garage environments
- Steel structure, electrostatic spraying, flexible spigot, filter pad
- Spring loaded lid closure
- Tank size: 760 x 535 x 280mm
- Net weight: 22.3kg
- Gross weight: 24.5kg



Order Code	Rated voltage (V)	Tank Capacity (gal)	Solvent Capacity (gal)	Pump Power (W)	Max. Lift of Pump (M)	Pump Free Speed (rpm)
TMWS09						
-40200B	220	20	12	22	1.6	1000

Industrial Grinders

- Heavy, durable industrial design with maintenance-free motor for continuous use
- Cast aluminium housing
- Long service life and quiet action thanks to balanced rotor with quality ball bearings
- Equipped with break-roof spark guard and vibration-damping rubber feet
- Supplied with 1 coarse and 1 fine grinding wheels
- **Optional machine chassis:**
Cabinet type: TFMC60-40001S
Stand type: TFMC60-40002S



Order Code	Grinding Wheel Diameter (mm)	Voltage/Frequency	Motor	Dimensions (mm)	Net Weight (kg)
TFMC60					
-41500A	ø150 x 20 x ø16(Bore)	230V~50Hz (1)	450W 2850rpm	389 x 206 x 266	10.7
-41700A	ø175 x 25 x ø32(Bore)	230V~50Hz (1)	450W 2850rpm	389 x 233 x 279	12.3
-42001A	ø200 x 30 x ø32(Bore)	230V~50Hz (1)	600W 2850rpm	495 x 261 x 331	18.5
-42000A	ø200 x 30 x ø32(Bore)	380V~50Hz (3)	600W 2850rpm	495 x 261 x 331	18.5

Industrial Magnetic Drilling Machines

- This magnetic drilling machine allows you to drill on almost any ferrous surface and is ideal for ship & bridge building, steel fabrication, railway manufacturing, equipment installation, home improvement, and many other fields
- A manual feed, portable machine featured with compact and lightweight structure
- Double coil magnetic base for improved safety which can avoid a sudden danger when one coil burns down
- Direct high/low speed switch during working thanks to the helical gear
- Specially designed arbor support bracket with roller bearing guarantees main shaft stability and reduces abrasion that not only avoids motor and main shaft vibration but also extends the service life of cutter
- Twist drills can be applied by changing the arbor
- Adopts electronics switch for better stability than the conventional manual switches
- Standard accessories included

Magnetic core drills see pages P34 - P36



Order Code	Type	Max Dia. for Core Drills (mm)	Rated Voltage (V)	Rated Power (W)	No-load Speed (rpm)	Stroke (mm)	Magnetic Force (kg)	Magnet Dimensions (mm)	Machine Dimensions W x D x H (mm)	Weight (kg)
TFMC10										
-10035A	Single Speed	35	220	1100	780	100	750	186 x 80 x 58	188 x 85 x 390	14
-10060B	Dual Speed	60	220	1850	450-750	135	2300	210 x 100 x 64	210 x 100 x 540	23

Magnetic Drills

- Coring, drilling and tapping, versatile functions in one machine
- Full copper motor for high power, resistant to burn down
- Dual-coil magnetic base providing better safety and stronger magnetic force
- Efficient built-in cooling system for longer service time
- Lightweight, impressive appearance, strong and sturdy
- Comes with a blow case for easy carry
- Standard accessories included
- CE certification



Coring Drilling Tapping

Magnetic core drills see pages P34 - P36

Multi-functional model (with forward and reverse rotation)

Order Code TFMC10	Coring Diameter (mm)	Drilling Diameter (mm)	Tapping Diameter (mm)	Magnetic Force (N)	Stroke (mm)	Rated Voltage (V)	Input Power (W)	No-load Speed (rpm)	Magnetic Base Size (rpm)	Weight (kg)	Standard Accessories
-42013R	-	13	-	11000	140	220	1500	0 - 790	165*80*40	9.6	Kit 1
-42016R	-	16	-	11500	150	220	1680	0 - 680	165*80*40	10.0	
-42023R	50	23	18	14000	180	220	1880	0 - 330	200*100*50	17.0	Kit 2
-42028R	60+	28	22	14800	210	220	2080	0 - 300	200*100*50	17.0	

Professional model (with forward rotation)

Order Code TFMC10	Coring Diameter (mm)	Drilling Diameter (mm)	Magnetic adhesive force (N)	Stroke (mm)	Rated voltage (V)	Input power (W)	No-load speed (rpm)	Magnetic base size (rpm)	Weight (kg)	Standard Accessories
-40380E	38	16	14500	150	220	1620	0 - 650	185*90*45	12.0	Kit 3
-40680E	68	23	15800	180	220	1720	0 - 580	200*100*50	19.0	Kit 4
-41280E	128	30	17000	210	220	2180	0 - 500	200*100*50	22.0	

Attached Accessory Kits of Magnetic Drills

Attachments														
Kit Nos.	Feed Handle	Screw Support	MT Arbor	Carbon Brush	Drill Chuck & Key	Arbor	Fuse	Hex Key	Pilot Pin	Drill Drift	Cooling Fluid Bottle	Cooling Fluid Hose	Carbine Hook	Safety Strap
Kit 1 (Suitable for : TMMC10-42013R, TMMC10-42016R)	✓			✓	✓ (Preinstalled)		✓						✓	✓
Kit 2 (Suitable for : TMMC10-42023R, TMMC10-42028R)	✓			✓		✓	✓			✓	✓	✓	✓	✓
Kit 3 (Suitable for : TMMC10-40380E)	✓		✓ (Preinstalled)	✓			✓	✓	✓		✓	✓	✓	✓
Kit 4 (Suitable for : TMMC10-40680E, TMMC10-41280E)	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓

Multi-functional Magnetic Drilling/Tapping Machine

- A versatile machine of coring, drilling and tapping applied to heavy duty applications
- Ideal for ship & bridge building, steel fabrication, railway manufacturing, equipment installation, home improvement, and many other fields
- Powerful, compact and lightweight
- Built-in integrated self-lubricating cooling system
- 3-stage gear shifting, stepless speed is achievable at each stage
- Automatic overload protection
- Solid brass rail ensures smooth up and down movement of the drill head
- Standard accessories included
- CE certification.



Magnetic core drills see pages P34 - P36

Order Code TFMC10	Coring Diameter (mm)	Drilling Diameter (mm)	Tapping Diameter (mm)	Reaming Diameter (mm)	Chamfering Diameter (mm)	No-load Speed (rpm)	Stroke (mm)	Max. Magnetic Force (N)	Dimensions (W x D x H) (mm)	Weight (kg)
-20085C	85	32	24	32	40	100 - 220/380/490	230	16800	430 × 210 × 550	23.5

Industrial Welding Machines

- Full range of industrial-grade inverter welders and cutters.
- High quality, high stability, excellent processing results.
- Comprehensive technical support to assist you in selecting and using them with ease.

Blue Series

Dual Power MMA DC Inverter Welders (IGBT)

- Suitable power supply: 3-phase 380V / single-phase 220V
- Simple circuit design with strong anti-interference performance
- Arc thrust can be adjusted according to the length of the welding cable, enabling long-distance welding
- Digital current meter for precise pre-setting of welding current before welding
- Suitable for various electrodes such as acid, alkaline, and heat-resistant steels with diameters ranging from $\varnothing 2$ to $\varnothing 6$
- Suitable for welding stainless steel, carbon steel, copper, and alloy steels
- Advanced IGBT technology, compact size, lightweight, and significant energy savings
- Certified with 3C and CE etc
- Standard accessory: cable quick connector plug etc



Product Parameter	Order Code TFMC55 -00400A
Model	ZX7-400GS
Input Voltage	220V / 380V (3) @ 50/60Hz
Input Power (KVA)	7 / 12
Output Current Range (A)	20-200 / 20-315
Duty Cycle	85%
Electrode Diameter (mm)	3.2 - 6
Dimensions (mm)	230*450*420
Gross Weight (kg)	14
Protection Rating	IP21
Insulation Class	F

MIG/MAG CO₂ Inverter (IGBT)

- Current and voltage can be switched respectively and continuously in a wide range
- Electronic control for a more stable process, reduced spatter, deeper molten pool and beautiful weld forming
- Integrated design with built-in wire feeding mechanism for convenient operation
- Slow wire feeding to improve the success rate of arc striking at welding start
- Digital current meter for precise pre-setting of welding current before welding
- Unique exterior design with a rear bracket for holding large gas cylinder and easy movement
- Also with MMA function
- Compact size, lightweight, easy to operate, and cost-effective
- Certified with 3C and CE etc
- Standard accessories: welding torch, CO₂ meter, ground cable etc



Product Parameter	Order Code TFMC50-00270E
Model	NB-270
Input Voltage	380V (3) @ 50/60Hz
Input Power (KVA)	9.2
Output Current Range (A)	50 ~ 270
Duty Cycle	60%
Wire Diameter (mm)	0.8 - 1.0
Dimensions (mm)	510*273*440
Gross Weight (kg)	60

MMA DC Inverter Welders (IGBT)

- Featured with Siemens IGBT modules, with a simple circuit design and strong anti-interference performance
- Arc thrust can be adjusted according to the length of the welding cable, enabling long-distance welding
- Adjustable arc striking current can accommodate different thicknesses of metals
- Digital current meter for precise pre-setting of welding current before welding
- Suitable for various electrodes such as acid, alkaline, and heat-resistant steels with diameters ranging from $\varnothing 2$ to $\varnothing 6$
- Suitable for welding stainless steel, carbon steel, copper, and alloy steels
- Advanced IGBT technology, compact size, lightweight, and significant energy savings
- Certified with 3C and CE etc



Product Parameter	Order Code TFMC55 -01315A	Order Code TFMC55 -01500A
Model	ZX7-400	ZX7-500
Input Voltage	380V (3) @ 50/60Hz	
Input Power (KVA)	17	25
Output Current Range (A)	20 ~ 400	20 ~ 500
Duty Cycle	60%	60%
Electrode Diameter (mm)	2 - 5	2 - 7
Dimensions (mm)	500*255*480	700*350*710
Gross Weight (kg)	30	50

MIG CO₂ Inverters (IGBT)

- Featured with Siemens IGBT modules, with a simple circuit design and strong anti-interference performance
- Waveform control for superior welding performance and less spatter
- High rated load capacity, allowing for long-time continuous welding
- Slow wire feeding to improve the success rate of arc striking at welding start
- Particular function of automatically removing melting-ball from the end of the welding wire
- Digital current meter for precise pre-setting of welding current before welding
- IGBT control much improving welding precision and efficiency
- Suitable for solid core and flux-cored wires
- Suitable for welding carbon steel and other materials
- Advanced IGBT technology, compact size, lightweight, and significant energy savings
- Certified with 3C and CE etc
- Standard accessories: welding torch, power cable, gas hose, CO₂ meter, ground cable etc



Product Parameter	Order Code TFMC50 -01350H	Order Code TFMC50 -01500H	Order Code TFMC50 -01630H
Model	MIG-350N	MIG-500N	MIG-630N
Input Voltage	380V (3) @ 50/60Hz		
Input Power (KVA)	14.4	25	36
Output Current Range (A)	60 ~ 350	60 ~ 500	60 ~ 630
Duty Cycle	60%	60%	60%
Wire Diameter (mm)	$\Phi 0.8 - 1.2$	$\Phi 1.0 - 1.6$	$\Phi 1.0 - 1.6$
Dimensions (mm)	576*297*574	636*322*584	760*370*700
Gross Weight (kg)	69	83	88

TIG Argon Arc Pulse Inverter Welders (IGBT) CE

- Dual functions of TIG and MMA
- Microcomputer control technology
- Featured with functions of pre-gas flow, post-gas flow, current up-slope and current down-slop for precise adjustment of parameter and easy control
- Pulse frequency, duty cycle, peak value and basic value can be adjusted freely
- Digital current meter for precise pre-setting of welding current before welding
- IGBT technology ensures high efficiency and liability
- Certified with 3C and CE etc
- Standard accessories: welding torch, ground cable
- **Optional accessories: water coolant systems (Please see P151 for details)**



Order Code
TFMC53-00400C

Product Parameters	
Model	WSM-400
Rated Input Voltage	380V±10% (3) @ 50/60Hz
Rated Input Power (KVA)	17.8
Rated Input Current (A)	27
Rated Duty Cycle	60%
Dimensions (mm)	600 x 310 x 550
Weight (kg)	48
TIG	
Constant Current (DC CC) (A)	5 ~ 400
Arc Striking Current (A)	20 ~ 160
Arc Ending Current (A)	5 ~ 400
Peak Current (A)	5 ~ 315
Pulse Frequency (Hz)	0.2 ~ 20
Pre-gas Time (s)	0.1 ~ 15
UP-slope Time (s)	0.1 ~ 10
Down-slope Time (s)	0.1 ~ 15
Pre-gas Time (s)	0.1 ~ 15
Post-gas Time (s)	0.1 ~ 15
Operating Mode	2-Step, 4-Step
Arc Striking Mode	High Frequency
MMA	
Welding Current (A)	5 ~ 400
Thrust Current (A)	10 ~ 200
Arc Ignition Current (A)	20 ~ 160
Suitable Electrode Diameter (mm)	2.5 ~ 5.0
Power Factor	≥0.87
Insulation Grade	F

TIG Square Wave Argon Arc DC/AC Inverter Welders (IGBT) CE

- Microcomputer control technology with a digital human-machine interface, allowing users to set welding parameters more accurately, intuitively, and easily
- Welding parameters are set by rotary knobs for easy operation
- Multi-functional machine capable of DC TIG welding, DC pulse TIG welding, AC TIG welding, AC pulse TIG welding, and manual welding
- Advanced IGBT technology, compact size, lightweight, and significant energy savings
- Suitable for welding carbon steel, alloy steel, stainless steel, copper, aluminum, titanium, and other metals
- Certified with 3C and CE etc
- Standard accessories: welding torch, ground cable
- **Optional accessories: water coolant systems (Please see P151 for details)**



Product Parameters	Order Code	Order Code
	TFMC54-00315D	TFMC54-00500D
Model	WSME-315	WSME-500
Rated Input Voltage / Freq.	380V±10% (3) @ 50Hz	
Rated Input Power (KVA)	14.5	25
Rated Input Current (A)	22	38
Duty Cycle	60%	60%
Output No-load Voltage (V)	74	79
Output Current Range (A)	5 ~ 315	20 ~ 500
Arc Striking Current (A)	10 ~ 160	20 ~ 160
Peak Current (A)	5 ~ 315	20 ~ 500
Arc Ending Current (A)	5 ~ 315	20 ~ 500
Up-slop Time (s)	0.1 ~ 10	0.1 ~ 10
Down-slop Time (s)	0.1 ~ 15	0.1 ~ 15
Pre-gas Flow Time (s)	0.1 ~ 15	0.1 ~ 15
Post-gas Flow Time (s)	15	15
Pulse Frequency (Hz)	0.2 ~ 20	0.2 ~ 20
Pulse Duty Cycle	1 ~ 100%	1 ~ 100%
AC Frequency (Hz)	20 ~ 200	20 ~ 200
Pulse Frequency (Hz)	0.2 ~ 20	0.2 ~ 20
Pulse Width	1 ~ 100%	1 ~ 100%
TIG Arc Striking Mode	High Frequency	High Frequency
Thrust Current (A)	10 ~ 200	10 ~ 200
Enclosure Protection Level	IP21S	IP21S
Insulation Grade	H	H
Dimensions (mm)	655*325*560	655*353*778
Gross Weight (kg)	65	97

TIG Argon Arc Inverter Welders (IGBT)

- Dual functions of TIG and MMA
- Arc thrust can be adjusted according to the length of the welding cable, enabling long-distance welding
- High frequency arc striking, stable arc and easy control molten pool
- Adjustable arc ending time
- TIG 2 or 4 step operating mode
- Digital current meter for precise pre-setting of welding current before welding
- IGBT technology ensures high efficiency and liability
- Certified with 3C and CE etc



- Standard accessories: welding torch, ground cable
- **Optional accessories: water coolant systems (Please see P151 for details)**

Product Parameters	Order Code	Order Code
	TFMC52-00400B	TFMC52-00500B
Model	WS-400	WS-500
Input Voltage	380V (3) @ 50/60Hz	
Input Power (KVA)	18.4	24
Output Current Range (A)	20 ~ 400	7 ~ 500
Duty Cycle	60%	60%
Dimensions (mm)	650*320*570	680*384*570
Gross Weight (kg)	48	50

MIG/MAG Multi-Functional Digital Pulse Inverters (IGBT)

- This double MIG/MAG pulse IGBT inverter, featured with synergic control of wire feeding speed and output energy, particularly achieving perfect fish-scale lines and high quality seams during aluminum alloy welding process
- Special program applied to aluminum welding, providing a solution to fusion difficulty of gas arc and welding flaw in arc ending
- Users can store 100 sets of customized welding parameters
- Unique design of robot interface and digital modules providing high reliability and high performance
- Certified with 3C and CE etc
- Standard accessories: welding torch, ground cable, gas hose, CO₂ meter etc
- **Optional accessories: water coolant systems (see right bottom of this page for details)**



Product Parameters	Order Code TFMC51-00350J	Order Code TFMC51-00500J
Model	MIG-350P	MIG-500P
Input Voltage / Frequency	380V (3) @ 50/60Hz	
Input Power (KVA)	13.5	25
Output Current Range (A)	60 ~ 350	60 ~ 500
Rated Duty Cycle	60%	60%
Suitable Wire Diameter (mm)	Φ0.8 - 1.2	Φ0.8 - 1.6
Cooling Method	Water Cooling	Water Cooling
Dimensions (mm)	576*297*574	1060*870*1540
Gross Weight (kg)	153	164

Air Plasma and MMA/TIG Inverter (IGBT)

- A multi-functional machine of combining MMA, TIG and plasma cutting
- Wide cutting range and stepless cutting current adjustment, suitable for all kinds of thin sheet metals
- Built-in air compressor, no external air source needed, suitable for field work
- Certified with 3C and CE etc
- Standard accessories: plasma cutting torch, TIG welding torch, grounding cable etc
- **Optional accessories: water coolant systems (see right bottom of this page for details)**



Product Parameters	Order Code : TFMC57-00160T
Model	CUT-418K
Input Voltage / Frequency	220V±10% @ 50/60Hz
Input Power (KVA)	4.7
Output Current Range (A)	10 ~ 160
Duty Cycle (40°C/10 minutes)	MMA: 30% @ 160A 100% @ 105A
	TIG: 40% @ 160A 100% @ 120A
	CUT: 80% @ 40A
Max Cutting Thickness (mm)	10
Dimensions (mm)	255*580*575
Gross Weight (kg)	38

Digital Inverter Plasma (IGBT)

- Can be used in conjunction with CNC cutting system
- Fast high frequency arc striking reduces interference to CNC system
- Equipped with arc voltage and success arc striking signals, connected to CNC system, to achieve auto height adjustment of cutting torch and result in the high stability and quality of cutting
- Digital current meter for precise pre-setting of welding current before welding
- Gas cut-off delay function effectively protects the torch
- Certified with 3C and CE etc
- Standard accessories: plasma cutting torch, ground cable etc
- **Optional accessories: water coolant systems (see right bottom of this page for details)**



Order Code :

Product Parameters	TFMC57-01130T
Model	LG-130
Input Voltage / Frequency	380V (3) @ 50/60Hz
Input Power (KVA)	21.5
Output Current Range (A)	30 ~ 130
Duty Cycle	60%
Max. Cutting Thickness (mm)	35
Manual Optimal Cutting Thickness (mm)	1 ~ 25
Auto Optimal Cutting Thickness (mm)	< 18
Air Pressure (MPa)	0.5
Dimensions (mm)	736*322*584
Gross Weight (kg)	50

Water Cooling Systems

- This cooling tank is designed for use with TIG welders to provide powerful cooling, and it can also be used with other kinds of welders, AC/DC argon arc welding equipment, DC argon arc welding equipment, CO₂ welding equipment, resistance welding equipment and other plasma equipment
- An economic and practical water tank, light weight, small size and easy to move
- The water storage tank is integrally formed with high temperature resistant materials to prevent water leakage
- Adopts copper pump body vortex water pump to avoid scale caused by long-term use
- Transparent water level inspection window to hold the water level in time
- Unique wind tunnel heat dissipation design, which is 20% higher than the equivalent product cooling capacity



Product Parameters	Order Code TFMC59-00010P	Order Code TFMC59-00020P	Order Code TFMC59-01020P	Order Code TFMC59-00060P
Model	CT-10B	CT-20B	LX-20B	LXII-60
Input Voltage	220V @ 50/60Hz			
	380V		380V (Customizable)	
Rated Power (W)	120	140	140	280
Rated Flow Rate (L/min)	8	10	10	10
Rated Water Capacity (L)	10	20	20	60
Rated Lift (M)	30	30	30	30
Inner Tank Material	Plastic	Plastic	Stainless steel	Stainless steel
Dimensions (mm)	565*325*385	399*540*470	600*360*660	730*515*730
Gross Weight (kg)	20	25	30	55

MMA-200 Inverters



- Adopts advanced IGBT technology with single PCB board
- High efficiency, low consumption, energy saving
- Stable performance, automatic voltage compensation capability
- Easy arc striking, less spatter, thermal protection, over-voltage and over-current protection, fan cooling
- Compact and light weight, easy to carry and easy to operate, economic and durable
- Suitable for welding low carbon steel, high carbon steel and alloy steel etc.
- Standard accessories: 1.8m power cord, 1.5m cable with electrode holder, 1.5m earth cable with clamp, face shield, chipping hammer etc

MMA-200 Mini Model



MMA-200SP



Standard Accessories



Parameters	Order Code TFMC55-21200A	Order Code TFMC55-22200A
Model	MMA-200 Mini Model	MMA-200SP
Input Voltage (V)	230	230
Frequency (Hz)	50/60	50/60
Rated Input Power (KVA)	7.1	7.1
Power Factor	0.93	0.93
Maximum No-load Voltage (V)	62	62
Current Adjustment Range (A)	20 - 200	20 - 200
Duty Cycle	60%	60%
Electrode Diameter (mm)	1.6 - 2.2	1.6 - 2.2
Enclosure Protection Level	IP21S	IP21S
Machine Weight (kg)	2.8	3.6
Machine Dimensions (mm)	260 x 105 x 203	333 x 135 x 265

MIG-200 Inverter



- The unique IGBT control mode improves the reliability of the welder, which can ensure good arc stability and provide smoother welding and deeper depth of melt with stable welding current for perfect welding. Perfect for beginners or professionals for small welding operations
- Suitable for various welding materials
- Fan cooling, built-in thermal protection
- Standard accessories: 1.8m power cord, 2.5m welding torch, 1.5m earth cable with clamp, face shield, chipping hammer etc

Standard Accessories



Optional Accessories



Parameters	Order Code: TFMC50-21200B
Model	MIG-200N
Input Voltage (V)	230
Frequency (Hz)	50/60
Rated Input Power (KVA)	6.1
Power Factor	0.93
Maximum No-load Voltage (V)	62
Current Adjustment Range (A)	20 - 200
Duty Cycle	60%
Applicable Electrode Diameter (mm)	1.6 - 2.2
Enclosure Protection Level	IP21S
Machine Weight (kg)	8.8
Machine Dimensions (mm)	395 x 165 x 300

Mini DC MMA Inverter



- Mini size and light weight, easy to carry and easy to operate, metal body construction
- Perfect welding quality, deep weld penetration, high weld strength
- Built-in protection circuits for over-current, over-voltage and over-heating, ensuring safe and reliable use
- Suitable for welding various metal materials such as aluminum and aluminum alloys, carbon steel, stainless steel, and copper etc
- Compatible with various general-purpose welding electrodes
- Portable plastic box packing, ready to meet various needs



Parameters	Order Code: TFMC55-10100V
Rated Voltage (V)	230
Rated Power (KVA)	3.4
Input Voltage Freq. (Hz)	50/60
No-load Voltage (V)	76
Output Current (A)	10 - 100
Rated output voltage (V)	24.4
Duty Cycle	15%
Efficiency	85%
Insulation Class	F
Machine Weight (kg)	2.8
Machine Dimensions (mm)	207 x 99 x 153
Protection Class	IP21
Electrode Diameter (mm)	1.6 - 3.2

TIG-200 Arc Welder



- Also can be used as a MMA welder
- Adopts advanced IGBT technology with single PCB board
- High efficiency, low consumption, energy saving
- Stable performance, automatic voltage compensation capability
- Easy arc striking, less spatter, thermal protection, over-voltage and over-current protection, fan cooling
- Compact and light weight, easy to carry and easy to operate, economic and durable
- Standard accessories: 4m WP17 TIG arc torch, 1.8m/200A cable with electrode holder, 1.5m/200A earth cable with clamp, 16-25mm Dinse quick connector-plugs, face shield, chipping hammer etc

Standard Accessories



Optional Accessories



Parameters	Order Code: TFMC51-21200D
Model	TIG-200
Input Voltage (V)	230
Frequency (Hz)	50/60
Rated Input Power (KVA)	7.1
Power Factor	0.93
Maximum No-load Voltage (V)	62
Current Adjustment Range (A)	10 - 200
Duty Cycle	60%
MMA Rated Output Voltage (V)	28V/MMA
Enclosure Protection Level	IP21S
Machine Weight (kg)	6.9
Machine Dimensions (mm)	381 x 154 x 290

CUT-40 Inverter Plasma



- This CUT-40 plasma providing a best way to cut sheet metals with significant benefits of less deformation, low costs, and high efficiency
- Cutting speed is 2 times faster than oxy-acetylene cutting. It has effective and economical cutting capacity both in speed and thickness
- Adopts advanced IGBT technology with non-contact arc striking
- Suitable for cutting stainless steel, carbon steel, alloy steel, copper, aluminum and etc
- Standard accessories: 1.5m power cord, 200A earth cable with clamp, 16-25mm Dinse quick connector-plugs, face shield, chipping hammer etc



Order Code:

TFMC57-21040C

Parameters	
Model	CUT-40
Input Voltage(V)	230
Frequency(Hz)	50/60
Rated Input Power(KVA)	4.8
Power Factor	0.93
Power	85%
Maximum No-load Voltage(V)	220
Current Adjustment Range(A)	10 - 40
Duty Cycle	60%
Cutting Thickness(mm)	12
Insulation Class	H
Protection Class	IP21S
Machine Weight(kg)	8.2
Machine Dimensions(mm)	400 x 151 x 300

Car Battery Chargers



- Single phase, portable charging for lead-acid battery with 12/24V, featured with overload protection, integrated ampere-meter etc.
- Equipment with switch for normal or quick (boost) charge
- Easy operation and maintenance
- Compact and lightweight
- CD-30R, most suitable for boosting and starting of various vehicles such as cars, lorries and light-duty trucks etc

CB-30

CD-30R



Order Code
**TFET80
-30030A**

Order Code
**TFET80
-30030B**

Parameters	Order Code TFET80 -30030A	Order Code TFET80 -30030B
Model	CB-30	CD-30R
Input Voltage (V)	230	230
Frequency (Hz)	50/60	50/60
Input Power (W)	700	700
Charging Voltage (V)	12 / 24	12 / 24
Fast Charging Current (A)	30	30
Current Adjustment Range (A)	20	20
Reference Capacity (AH)	92 - 250	92 - 250
Enclosure Protection Level	IP21S	IP21S
Machine Weight (kg)	9.4(Including cables)	8.3
Machine Dimensions (mm)	281 x 220 x 195	334 x 261 x 230

Automatic Classical Welding Helmets

- Comes with the standard clear visor viewing area, which allows the welding helmet to see clearly at different angles
- Solar auto-dimming filter helmet, when sparks are detected, the lens automatically dims. Adjust the transparency by turning the inside knob of the helmet
- Offers full UV/IR protection all the way to DIN16 shades
- Dual-power mode: lithium battery + solar battery
- It can be also used as welding protective gear

Product Parameters:

- Face shield material: PP
- Bright state: DIN4
- Response time: <0.1ms (at room temperature)
- Product size: 110 x 90 x 8mm
- Viewing area size: 92 x 42mm
- Sensitivity: low / high
- Shade control: internal, stepless adjustment
- TIG capacity: >5A
- Certifications: CE, ANSI ROHS LA
- Numbers of arcing sensors: 2
- Dark state: DIN9-13
- Delay time: fast/slow (0.20s/0.60s)
- Weight: 430g



Order Code	Model
TFWD10	
-00127A	Black Flame
-08511A	Classical Blue

Professional Automatic Breathable Black Welding Helmet

Product Parameters:

- Face shield material: nylon
- Numbers of arcing sensors: 2
- Bright state: DIN4
- Dark state: DIN9-13
- Response time: <0.04ms (at room temperature)
- Product size: 110 x 90 x 8mm
- Viewing area size: 92 x 42mm
- Sensitivity: stepless
- Delay time: 0.15 - 0.80s
- Shade control: external, stepless adjustment
- TIG capacity: >5A
- Dual-power mode: lithium battery + solar battery
- UV/IR protection
- Optical class: 1/2/1/2
- Weight: 490g
- Certifications: CE EN379



Order Code	Model
TFWD10	
-07511A	Black Breathable



Industrial Battery Booster Cables

- Industrial-grade quality with reinforced core
- Overload protection, freeze-resistant and crack-resistant
- Insulation protection, strong clamping force
- Quick and safe electrical connection, reliable ignition
- GS authenticated



Order Code	Rated Current (A)	Wire Diameter (mm ²)	Cable Length (mm)
TFOT05			
-00035A	350	25	3.5

Industrial Milling / Drilling Machine - Variable Speeds

TFMC40-11020B / TFMC40-11021B

Product Features:

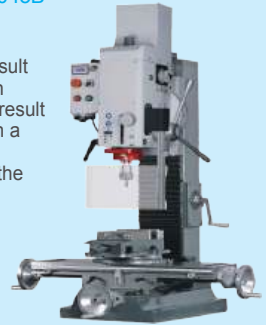
- Electronic infinitely variable speed
- Dovetail vertical Z-Axis
- Digital readout speed display
- Digital depth display with zero reset for quill
- Tilting head to ±90° from vertical
- 2 speed gearbox (high / low) drive
- Forward and reverse spindle switch
- Scale collars for all axis are adjustable
- Adjustable dovetail slideways on all 3 axis
- Adjustable table and drill length stops
- Rear slideway covers and slide clamps on all axis
- Metric dial graduations on X & Y-Axis
- Power: 230V / 50Hz



TFMC40-11035B / TFMC40-11045B

Product Features:

- Sturdy dovetail-frame
- 0.01 mm accurate machining result and with gradients of 45° in both directions ensures a qualitative result
- Work comfort is guaranteed with a high-quality cross-feed table
- Digital display for movement of the spindle
- Stepless speed adjustment
- Reverse and two speed ranges
- CNC control access available
- Power: 230V / 50Hz



Parameters	Order Code TFMC40 -11020B	Order Code TFMC40 -11021B	Order Code TFMC40 -11035B	Order Code TFMC40 -11045B
Drilling Capacity (mm)	ø16	ø20	ø25(steel) / ø28(cast)	ø28(steel) / ø30(cast)
Face Milling Capacity (mm)	ø60	ø63	ø75	ø80
End Milling Capacity (mm)	ø20	ø20	ø30	ø32
Spindle Taper	MT2 / MT10	MT2 / MT10	MT3 / ISO30 (M12)	MT4 / ISO409 (M16)
Spindle Speed (rpm)	Low: 90 - 1480 High: 150 - 3000	Low: 90 - 1480 High: 150 - 3000	Low: 80 - 963 Medium: 135 - 1621 High: 257 - 3100	Low: 115 - 600 Medium: 270 - 1400 High: 590 - 3100
Worktable (L x W) (mm)	500 x 180	700 x 180	750 x 210	850 x 240
X-axis Travel (mm)	280	480	450	520
Y-axis Travel (mm)	175	175	200	260
Z-axis Travel (mm)	280	280	470	541
T Slot Size / Distance / Qty.	12mm / 63mm / 3	12mm / 63mm / 3	12mm / 63mm / 3	18mm / 80mm / 3
Motor Power (W)	850	850	2.2KW Brushless DC motor	2.2KW Brushless DC motor
Dimensions (L x W x H) (mm)	722 x 550 x 770	722 x 550 x 770	1073 x 791 x 1324	1210 x 950 x 1520
Net Weight / Gross Weight (kg)	103 / 130	112 / 139	266 / 318	426 / 470

Variable Speed Bench Drills

- Featured with a high-power motor and high precision spindle for reliable quality and high efficiency
- Drilling capacity: 16mm
- Sleeve diameter: 42mm
- Sleeve travel: 60mm
- Spindle taper: MT2
- Distance spindle-column: 126mm
- Worktable dimensions (length x width): 200 x 195mm
- Distance spindle-table: 350mm
- Base dimensions (length x width): 355 x 235mm
- Distance spindle-stand (max.): 524mm
- Motor power: 450W
- Package dimensions (length x width x height): 440 x 270 x 680mm
- Standard accessories: 16mm drill chuck & drill chuck arbor
- CE, EMC certification



Order Code	Numbers of Speed	Spindle Speed (rpm)	Net Weight (kg)	Gross Weight (kg)
TFMC20-00162B	5	660 - 2500	38	40

5-Speed Mini Bench Drill

- Featured with a high-power motor and high precision spindle for reliable quality and high efficiency
- Drilling capacity: 13mm
- Sleeve diameter: 40mm
- Sleeve travel: 50mm
- Spindle taper: MT2
- Distance spindle-column: 104mm
- Worktable dimensions (length x width): 160 x 160mm
- Distance spindle-table (max.): 200mm
- Base dimensions (length x width): 200 x 314mm
- Distance spindle-stand (max.): 290mm
- Motor power: 350W
- Package dimensions (length x width x height): 400 x 255 x 545mm
- Standard accessories: 13mm drill chuck & drill chuck arbor
- CE, EMC certification



Order Code	Numbers of Speed	Spindle Speed (rpm)	Net Weight (kg)	Gross Weight (kg)
TFMC20-00131B	5	580 - 2650	19	21

12-Speed Bench Drill

- Featured with a high-power motor and high precision spindle for reliable quality and high efficiency
- Drilling capacity: 20mm
- Sleeve diameter: 47mm
- Sleeve travel: 80mm
- Spindle taper: MT2
- Distance spindle-column: 169mm
- Worktable dimensions (length x width): 300 x 300mm
- Distance spindle-table (max.): 390mm
- Base dimensions (length x width): 425 x 295mm
- Distance spindle-stand (max.): 640mm
- Motor power: 550W
- Package dimensions (length x width x height): 520 x 315 x 820mm
- Standard accessories: 16mm drill chuck & drill chuck arbor
- CE, EMC certification



Order Code	Numbers of Speed	Spindle Speed (rpm)	Net Weight (kg)	Gross Weight (kg)
TFMC20-00201B	12	210 - 2220	53	56

Belt Driven Floor Standing Pillar Drill - Variable Speeds

- Power: 230V / 50Hz
- Motor power: 1.5KW
- Drilling capacity: 28mm
- Spindle sleeve diameter: 52mm
- Spindle sleeve travel: 105mm
- Spindle taper: MT3
- Distance spindle-column: 200mm
- Spindle speed: 35 - 5600rpm
12 steps
- Worktable size: 340 x 360mm
- T-slot size: 14mm
- Distance spindle-table: 927mm
- Distance spindle-base: 1280mm
- Base size: L370 x W320mm
- Built-in work light
- Dimensions: 705 x 475 x 1755mm
- Net weight / Gross weight: 166 / 202kg
- **Standard accessories:** 16mm drill chuck, built-in work light, protective shield
- **Optional accessories :** Closed coolant filtration device, 16mm keyless drill chuck etc. Please inquire us for more optional accessories



Order Code	Numbers of Speed	Spindle Speed (rpm)	N. Weight / G. Weight (kg)
TFMC20			
-11028F	12	35 - 5600	166 / 202

Auto-Feed Floor Standing Pillar Drill - Gear Driven

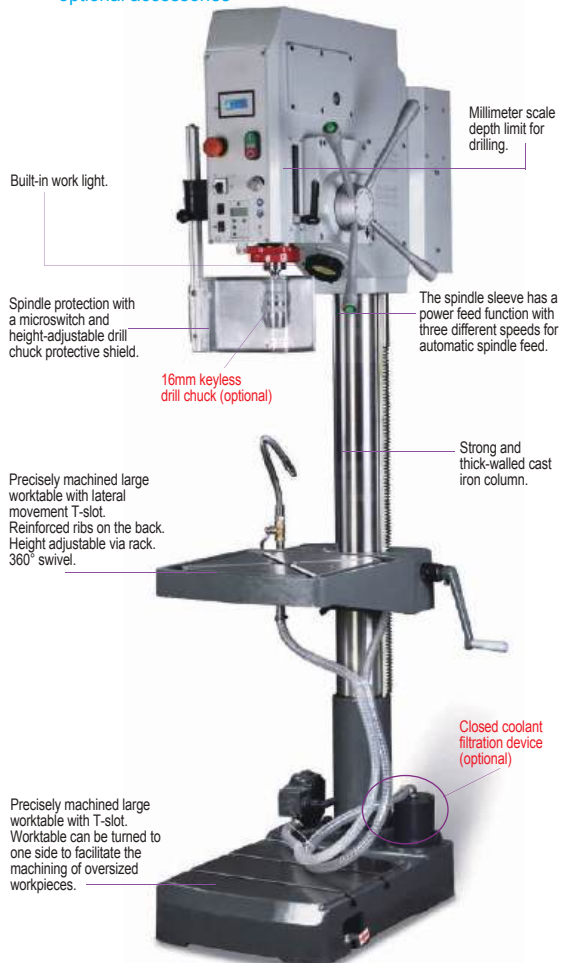
- Power: 400V / 50Hz / 3Ph
- Motor power: 1.5 / 2.2KW
- Drilling capacity (steel): 32mm
- Continuous drilling capacity: 30mm
- Spindle sleeve diameter: 68mm
- Spindle sleeve travel: 125mm
- Spindle taper: MT4
- Distance spindle-column: 285mm
- Spindle speed: 75 / 110rpm
240 / 360rpm
420 / 620rpm
1330 / 2000rpm
- Worktable size: 400 x 420mm
- T-slot size / Distance / Qty.: 14mm / 150mm / 2
- Distance spindle-table: 822mm
- Base dimensions: L420 x W393mm
- Built-in work light
- Packaging dimensions: L2240 x W550 x H990mm
- Net weight / Gross weight: 312 / 378kg
- **Standard accessories:** 16mm drill chuck, built-in work light, large protective shield etc
- **Optional accessories :** Closed coolant filtration device, 360° swivel worktable, 16mm keyless drill chuck etc. Please inquire us for more optional accessories



Order Code	Auto Spindle Sleeve Feed	Numbers of Speed	N. Weight / G. Weight (kg)
TFMC20			
-20032F	Dual-speed: 0.05mm/0.1mm	8	312 / 378

Industrial Variable Speed Pillar Drill - Gear Driven

- Power: 230V / 50Hz
- Motor power: 2.5KW
- Drilling capacity: 30mm
- Spindle taper: MT3
- Distance spindle-column: 285mm
- Spindle sleeve diameter: 62mm
- Spindle sleeve travel: 125mm
Low speed range: 80 - 700rpm
Medium speed range: 200 - 1700rpm
High speed range: 400 - 3000rpm
- Spindle speed:
- Speed steps: 3
- Auto spindle sleeve feed: 0.1/0.15/0.2mm/rev
- Worktable size: 426 x 400mm
- T-slot size: 14mm
- Distance spindle-table: 790mm
- Distance spindle-base: 1025mm
- Base size: L388 x W390mm
- Built-in work light
- **Standard accessories:** 16mm drill chuck, MT3/B16 drill chuck arbor, large protective shield
- **Optional accessories :** Closed coolant filtration device, 16mm keyless drill chuck etc. Please inquire us for more optional accessories



Order Code	Numbers of Speed	Overall dimensions L x W x H (mm)	Net weight / Gross weight (kg)
TFMC20			
-24030F	3	735 x 600 x 1915	302 / 366

550W Multi-functional Machine

• A multifunctional machine tool that integrates machine tool, dilling machine and milling machine

Turning Technical Parameters:

- Swing over bed: 250mm • Distance between centers: 550mm
- Hole through spindle: 20mm • Spindle taper: MT4 • Tailstock taper: MT2
- Cross slide travel: 110mm • Compound slide travel: 75mm
- 6-stage belt driven speed control: 125 - 2000rpm±10%
- Range of threads: Metric: 0.4 - 3.0mm (12 thread pitches); Imperial: 10 - 44TPI (8 thread pitches)
(Please confirm Metric or Imperial needs on ordering)
- Motor output power: 550W
- Power supply: 230V/50Hz • Machine tool dimensions: L1140 x W600 x H450mm
- Net weight / Gross weight: 145/180kg • Individually packaged

Drilling and Milling Technical Parameters:

- Drilling capacity: 13mm • Spindle travel (Z-axis): 180mm • Spindle taper: R8 (or MT3)
- Column tilting angle: 25°L, 45°R • Motor output power: 350W
- Spindle speed: Low: 100 - 1100rpm±10%; High: 100 - 2500rpm±10%
- Dilling/milling machine dimensions: L380 x W360 x H850mm
- Net weight / Gross weight: 30/42kg • Individually packaged

Standard accessories included :

- Ø125 mm three jaw chuck • MT2 center • Gear set • Ø13 mm drill chuck with taper shank • Mill table
- Other accessories, please inquire for details



Order Code	Motor Power (W)	Motor Type
TMMC42		
-00106A	550	With Brush

500W Mini Metalworking Lathe

- Designed for metal processing, widely applied in various fields
- Featured with brushless motor, safety switch, stepless speed, 4 position turret post, overload protection, low noise

Technical parameters:

- Swing over bed: 180mm • Hole through spindle: 20mm
- Spindle taper: MT3 • Tailstock taper: MT2
- Spindle speed: Low: 100 - 2500rpm±10%
- Cross slide travel: 65mm
- Motor output power: 500W
- Range of threads: Metric: 0.4 - 2.0mm (10 thread pitches); Imperial: 12 - 52TPI (18 thread pitches)
(Please confirm Metric or Imperial needs on ordering)

Standard accessories:

- 80mm 3-jaw chuck / MT2 center / Complete set of changing gear / Wrench set / Oil can



Order Code	Distance Btw. Centers (mm)	Overall Dimensions (mm) (L x H x W)	Net Weight (kg)
TFMC41			
-30300A	300	700×300×300	44

350W Mini Metalworking Lathe

- Designed for metal processing, widely applied in various fields
- Featured with low noise brush motor, safety switch, stepless speed, 4 position turret post, overload protection, low noise

Technical parameters:

- Swing over bed: 180mm • Hole through spindle: 20mm
- Spindle taper: MT3 • Tailstock taper: MT2
- Spindle speed (variable speed): Low 100 - 1200rpm±10%; High 100 - 3000rpm±10%
- Cross slide travel: 65mm • Motor output power: 350W
- Range of threads: Metric: 0.4 - 2.0mm (10 thread pitches); Imperial: 12 - 52TPI (18 thread pitches)
(Please confirm Metric or Imperial needs on ordering)

Standard accessories:

- 80mm 3-jaw chuck / MT2 center / Complete set of changing gear / Wrench set / Oil can



Order Code	Distance Btw. Centers (mm)	Overall Dimensions (mm) (L x H x W)	Net Weight (kg)
TFMC41			
-20350A	350	880×290×290	44

250W Mini Metalworking Lathe

- Designed for metal processing, widely applied in various fields
- Featured with low noise brush motor, safety switch, stepless speed, 4 position turret post, overload protection, low noise
- **Technical parameters:**
 Swing over bed: 180mm
 Hole through spindle: 20mm
 Spindle taper: MT3
 Tailstock taper: MT2
 Spindle speed (variable speed): Low 100 - 1100rpm±10%; High 100 - 2500rpm±10%
 Cross slide travel: 65mm
 Motor output power: 250W
 Range of threads: Metric: 0.4 - 2.0mm (10 thread pitches); Imperial: 12 - 52TPI (18 thread pitches)
 (Please confirm Metric or Imperial needs on ordering)
- **Standard accessories:**
 80mm 3-jaw chuck / MT2 center / Complete set of changing gear / Wrench set / Oil can



Order Code	Distance Btw. Centers (mm)	Overall Dimensions (mm) (L x H x W)	Net Weight (kg)
TFMC41			
-10300A	300	700 x 300 x 300	37

350W Mini Milling / Drilling Machine

- Designed for metal processing, widely applied in various fields
- **Technical parameters:**
 Drilling capacity: 13mm
 Face mill capacity: 30mm
 Longitudinal axis (X): 220mm
 Headstock travel (Z): 180mm
 Distance spindle-column: 167mm
 Column tilting angle: 45°L, 45°R
 Distance spindle-table: 280mm
 Spindle speed (variable speed): Low 100 - 1100rpm±10%; High 100 - 2500rpm±10%
 Spindle runout accuracy: 0.02mm
 T-slot size: 12mm
 T-slot quantity: 3
 Power: 220V / 50Hz
 Motor output power: 350W
- **Standard accessories:**
 13mm drill chuck / Wrench set / Oil can



Order Code	Overall Dimensions (mm) (L x W x H)	Net Weight (kg)
TFMC40		
-02013A	520 x 510 x 760	50

500W Mini Milling / Drilling Machine

- Designed for metal processing, widely applied in various fields
- Equipped with 500W brushless motor and ±45° tiltable column to drill inclined holes
- **Technical parameters:**
 Drilling capacity: 16mm
 Face mill capacity: 35mm
 Worktable size: 390 x 92mm
 Longitudinal axis (X): 220mm
 Cross axis (Y): 100mm
 Headstock travel (Z): 180mm
 Spindle taper: R8 or MT3
 Distance spindle-column: 167mm
 Column tilting angle: 45°L, 45°R
 Distance spindle-table: 280mm
 Spindle speed (variable speed): 100 - 2500rpm
 T-slot size: 12mm
 Power: 220V / 50Hz
 Motor output power: 500W
- **Standard accessories:**
 13mm drill chuck / Wrench set / Oil can
- **Optional accessories:** 42pc M10 steel clamping set (see right bottom of this page)



Order Code	Overall Dimensions (mm) (L x W x H)	Net Weight (kg)
TFMC40		
-02016C	520 x 510 x 760	50

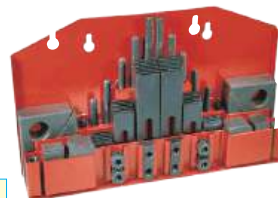
750W Small Milling / Drilling Machine

- Designed for metal processing, widely applied in various fields
- Features: variable spindle speed, feeding depth and spindle speed digital readout, touching switch panel, tapping function, brushless DC motor, fine feeding function, long worktable & solid column
- **Technical parameters:**
 Drilling capacity: 20mm
 End mill capacity: 16mm
 Face mill capacity: 50mm
 Worktable size: 700 x 160mm
 Longitudinal axis (X): 400mm
 Cross axis (Y): 190mm
 Headstock travel (Z): 290mm
 Distance spindle-column: 190mm
 Distance spindle-table: 370mm
 Spindle taper: R8 or MT3
 Spindle speed (variable speed): 100 - 2000rpm±10%
 T-slot size: 12mm
 Power: 220V / 50Hz
 Motor output power: 750W
- **Standard accessories:**
 13mm drill chuck / Wrench set / Oil can
- **Optional accessories:** 42pc M10 steel clamping set (see right bottom of this page)



Order Code	Overall Dimensions (mm) (L x W x H)	Net Weight (kg)
TFMC40		
-00020E	825 x 620 x 880	111

Optional accessories:
 42pc M10 x 12mm
 Steel Clamping Set



Order Code : **TFMC80-31012M**

Precision Toolmaker's Vises for Grinder Machines

- This high precision toolmaker's vise with minimal gap, is ideal for inspection, precision jig boring, milling and grinding etc
- Lead screw with hex nut, can be further tightened by using a spanner



Stainless steel

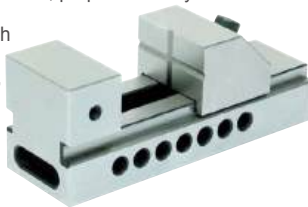


High carbon steel

Order Code	Jaw width	Jaw opening	Jaw depth	Overall length	Overall height	Materials	Hardness
TFMC70							
-14734A	1"(25mm)	1"(25mm)	35/64"(14mm)	2-3/4"(70mm)	1-17/64"(32mm)	Stainless steel SUS440	HRC50 ~ HRC55
-14743A	1-27/64"(36mm)	2"(50mm)	21/32"(16.5mm)	3-15/16"(100mm)	1-3/8"(35mm)		
-14752A	2-3/4"(70mm)	3-15/16"(100mm)	1-3/16"(30mm)	7-5/64"(180mm)	2-23/32"(69mm)		
-14761A	2-3/4"(70mm)	3-5/32"(80mm)	1-3/16"(30mm)	6-11/16"(170mm)	2-7/16"(62mm)		
-14770A	1-57/64"(48mm)	2-9/16"(65mm)	1"(25mm)	6-9/64"(156mm)	2-3/64"(52mm)	High carbon steel	HRC52 ~ HRC58
-14779A	2-1/2"(63mm)	2-61/64"(75mm)	1-3/16"(30mm)	6-15/16"(176mm)	2-1/2"(63mm)		
-14788A	2-7/8"(73mm)	3-7/64"(79mm)	1-3/8"(35mm)	7-1/2"(190mm)	2-7/8"(73mm)		
-14797A	3-55/64"(98mm)	4-7/8"(124mm)	1-37/64"(40mm)	10-1/32"(255mm)	3-15/64"(82mm)		
-14806A	4-59/64"(125mm)	5-63/64"(152mm)	1-31/32"(50mm)	12-13/64"(310mm)	3-15/16"(100mm)		
-14815A	5-29/32"(150mm)	5-1/2"(165mm)	1-31/32"(50mm)	12-51/64"(325mm)	3-15/16"(100mm)		

Quick Toolmaker's Vises - V-Groove Jaws

- This high precision toolmaker's vise is ideal for inspection, precision jig boring, milling and grinding etc
- Made of high-quality alloy steel (20CrMnTi) through forging and high-temperature nitriding quenching
- Surface hardness of HRC58-62, with a service life of more than 10 years
- Parallelism of 0.005mm/100mm, perpendicularity of 0.005mm/100mm
- Exquisite appearance, high smoothness, high surface hardness, quick clamping, and flexible operation
- The movable jaw has a V-shaped groove for convenient clamping of round-shaped tools



Order Code	Jaw width (mm)	Jaw height (mm)	Jaw opening (mm)	Overall length (mm)	Weight (kg)
TFMC70					
-21025V	25	10	25	65	0.5
-21036V	36	20	40	100	1.2
-21038V	38	20	44	105	1.3
-21050V	50	25	65	140	2.0
-21063V	63	32	85	175	3.0
-21073V	73	35	100	190	4.1
-21080V	80	40	100	200	5.5
-21100V	100	45	125	245	10.0
-21125V	125	50	160	285	18.0
-21150V	150	50	200	330	21.5

Double-Clamping Precision Parallel-Jaw Vises

- Widely used with precision machine tools such as CNC machines
- Made of highly durable ductile iron body undergoes precision machining
- Smooth appearance with high accuracy, fine grinding vise bottom easy fixed. Mounted vertically or horizontally
- Thicken supporting base locked angle for fixing workpieces during operation
- Single swivel handle operates both clamping stations simultaneously. Easy to use
- Parallelism of 2 jaws and perpendicularity $\leq 0.025\text{mm}/100\text{mm}$



Order Code	Jaw width (mm)	Jaw height (mm)	Jaw opening (mm)	Weight (kg)
TFMC70				
-01100A	102	96	85	18
-01600A	161	130	100	45

Modular Precision CNC Machine Vises

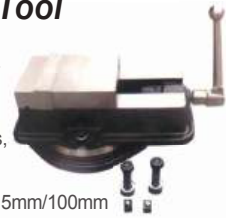
- These vises and accessories are modular and components will interchange with perfect alignment. Widely used with CNC machines, milling and drilling machines and special-purpose machines tools
- The vises can be matched side to side with the highest precision and minimum of set up times thanks to many fixed reference points
- Made of specially treated high quality alloy steel with hardness up to HRC58-62, ensures a long service time more than 10 years
- Exquisite appearance, high smoothness, high surface hardness, quick clamping, and flexible operation
- Parallelism of 0.005mm/100mm, perpendicularity of 0.005mm.
- Standard accessories:
 - 1 x Hex wrench
 - 1 x T-handled hex wrench
 - 1 x Work stopper
 - 2 x positioning key nuts
 - 4 x T-nuts
 - 6 x Clamps



Order Code	Jaw width (mm)	Jaw height (mm)	Jaw opening (mm)	Overall length (mm)	Max clamping force(kg)
TFMC70					
-20125A	125	40	150	345	3000
-20150A	150	50	200	420	5000
-20150B	150	50	300	520	5000
-20175A	175	60	200	455	6000
-20175B	175	60	300	555	6000
-20175C	175	60	400	655	6000
-20200A	200	65	200	495	10000
-20200B	200	65	300	595	10000
-20200C	200	65	400	695	10000

Precision Machine Tool Parallel-Jaw Vises

- Premium quality structure, made of high-quality iron material with high hardness and stiffness
- Mainly suitable for milling machines, grinding machines, and machining centers
- Parallelism/Perpendicularity: $\leq 0.015\text{mm}/100\text{mm}$



Order Code	Jaw width (mm)	Jaw height (mm)	Jaw opening (mm)	Weight (kg)
TFMC70				
-00080A	80	26	80	13
-00105A	105	34	105	23
-00134A	134	36	130	28
-00158A	158	46	145	43
-00160A	158	46	195	52
-00200A	200	62.5	210	82

High Precision Milling Machine Vises

- An Industrial grade product. This precision milling vise is the main accessory of precision milling machines and NC/CNC machine tools
- Made of high-quality cast iron, powder coating surface, with strong toughness, high tensile strength, and wear resistance.
- Treated jaws and lead screw with a hardness of HRC45 ensures high precision and firm clamping
- Unique locked angle design provides strong clamping force
- Removable universal joint handle is made of ductile iron, easy to operate and anti-rust
- Both parallelism and perpendicularity $\leq 0.03\text{mm}$



Without base



With base

Order Code TFMC70	Base	Size	Overall length (mm)	Overall height (mm)	Slot spacing (mm)	Mounting screw holes	Max clamping capacity (mm)	Jaw width (mm)	Jaw depth (mm)
-40040A	Yes	4"	335	92	140	M14	100	100	32
-40040B	N/A	4"	335	120	215	M14	100	100	32
-40050A	Yes	5"	390	104	160	M14	125	125	40
-40050B	N/A	5"	390	137	245	M14	125	125	40
-40060A	Yes	6"	428	116	192	M18	170	160	45
-40060B	N/A	6"	428	158	290	M18	170	160	45
-40061A	Yes	6" Extended	450	116	192	M18	200	160	45
-40061B	N/A	6" Extended	450	158	290	M18	200	160	45
-40080A	Yes	8"	520	134	232	M18	230	200	50
-40080B	N/A	8"	520	177	328	M18	230	200	50
-40081A	Yes	8" Extended	570	138	235	M18	280	200	50
-40081B	N/A	8" Extended	570	181	330	M18	280	200	50

American Style Drill Press Vises

- Cast iron construction provides stability to drilling operations
- Refined guides and base ensure smooth and stable movement
- Diamond-shaped serrated jaws ensure firm clamping
- Jaw hardness of HRC45



Order Code TFMC70	Jaw width (mm)	Jaw opening (mm)	Jaw height (mm)	Mounting hole spacing (mm)	Weight (kg)
-03025A	65	65	20	110	1.5
-03040A	79	84	20	120	1.6
-03050A	100	108	22	135	2.2
-03060A	125	125	24	160	3.2
-03080A	150	150	25	185	4.6

Steel Clamping Sets

- These steel clamping sets reduce the set-up time needed on milling machines, boring mills and for other machine table operations. All the studs, nuts, clamps and blocks are kept organized, and with easy reach
- Made of quality cast iron, heat treated steel black oxide finish
- Hardness: studs - HRC25; nuts and clamps - HRC35 ~ 38



36-Piece sets

Order Code TFMC80	Size
-10810M	M8 x 10mm
-10812M	M8 x 12mm
-11012M	M10 x 12mm
-11014M	M10 x 14mm
-11214M	M12 x 14mm
-11216M	M12 x 16mm
-11416M	M14 x 16mm
-11418M	M14 x 18mm
-11618M	M16 x 18mm
-11620M	M16 x 20mm



42-Piece sets

Order Code TFMC80	Size
-30810M	M8 x 10mm
-30812M	M8 x 12mm
-31012M	M10 x 12mm
-31014M	M10 x 14mm
-31214M	M12 x 14mm
-31216M	M12 x 16mm
-31416M	M14 x 16mm
-31418M	M14 x 18mm
-31618M	M16 x 18mm
-31620M	M16 x 20mm



58-Piece sets

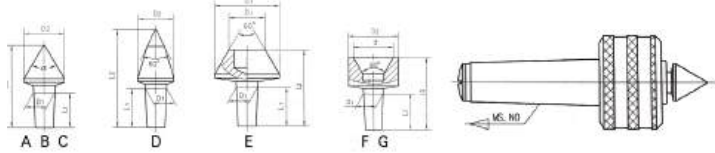
Order Code TFMC80	Size
-50810M	M8 x 10mm
-50812M	M8 x 12mm
-51012M	M10 x 12mm
-51014M	M10 x 14mm
-51214M	M12 x 14mm
-51216M	M12 x 16mm
-51416M	M14 x 16mm
-51418M	M14 x 18mm
-51618M	M16 x 18mm
-51620M	M16 x 20mm



58-Piece large size sets

Order Code TFMC80	Size
-71820M	M18 x 20mm
-72022M	M20 x 22mm
-72226M	M22 x 26mm
-72428M	M24 x 28mm
-73036M	M30 x 36mm

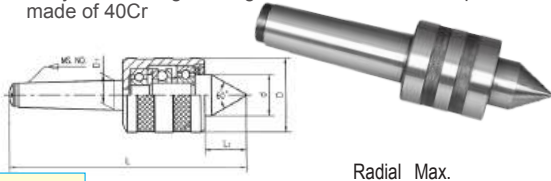
8Pc Interchangeable Medium Duty Revolving Center Kits



Order Code TFMC70	MS No.	A		B		C		D		E			F			G			Weight (kg)		
		D1 (mm)	L1 (mm)	D2 (mm)	L2 (mm)	D2 (mm)	L2 (mm)	D2 (mm)	L2 (mm)	D2 (mm)	D3 (mm)	L2 (mm)	D2 (mm)	L2 (mm)	d (mm)	D2 (mm)	L2 (mm)	d (mm)			
-80432K	2	10	20	16	39	16	35.3	16	33	16	46	25	10	40	16	36	10	20	39	16	0.950
-80433K	3	12	24	20	48	20	43.5	20	40.5	18	56	35	15	50	22	42	18	35	48	30	1.870
-80434K	4	15	30	28	61.5	28	55.5	28	51.5	26	73	55	30	61.5	40	55	35	55	60	48	2.420
-80435K	5	20	40	36	80	36	72.5	36	66.8	36	101	70	41	78	60	81	50	70	85	61	4.120

Medium Duty Revolving Centers

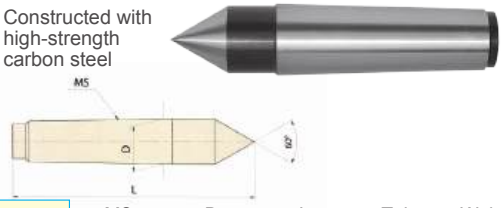
- Body made of high-strength carbon steel and the point made of 40Cr



Order Code TFMC70	MS No.	L (mm)	D (mm)	L1 (mm)	d (mm)	D1 (mm)	Radial Load (N)	Max. Speed (rpm)	Tol. (mm)	Weight (kg)
-80411A	1	115	34	20	18	12.065	900	5000	0.010	0.29
-80412A	2	145	45	26	25	17.780	1500	5000	0.010	0.70
-80413A	3	170	52	30	18	23.825	2000	4200	0.010	0.93
-80414A	4	205.7	60	34.7	32	31.267	3200	3200	0.010	1.70
-80415A	5	254	77	45	45	44.399	6300	2400	0.015	3.39
-80416A	6	362	125	68.5	75	63.348	10000	2600	0.015	12.00

Dead Centers

- Constructed with high-strength carbon steel



Order Code TFMC70	MS No.	D (mm)	L (mm)	Tol. (mm)	Weight (kg)
-80401D	1	12.065	80	0.010	0.057
-80402D	2	17.78	100	0.010	0.150
-80403D	3	23.825	125	0.010	0.334
-80404D	4	31.267	160	0.010	0.746
-80405D	5	44.399	200	0.010	1.862
-80406D	6	63.348	270	0.010	4.925

Extended Medium Duty Revolving Centers

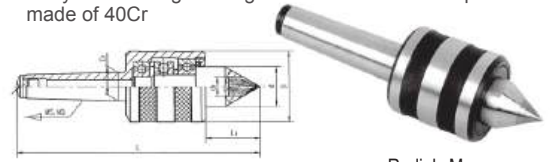
- Body made of high-strength carbon steel and the point made of 40Cr



Order Code TFMC70	MS No.	L (mm)	D (mm)	L1 (mm)	D1 (mm)	D2 (mm)	Weight (kg)
-80412B	2	141	40	28.5	17.78	18	0.84
-80413B	3	168	45	36.5	23.825	22	0.91
-80414B	4	190	45	36.5	31.267	22	1.62
-80415B	5	267.5	78	62	44.399	40	3.43
-80416B	6	346.5	102	75	63.348	50	11.00

Carbide Medium Duty Revolving Centers

- Body made of high-strength carbon steel and the point made of 40Cr



Order Code TFMC70	MS No.	L (mm)	D (mm)	L1 (mm)	d (mm)	D1 (mm)	d1 (mm)	Radial Load (N)	Max. Speed (rpm)	Tol. (mm)
-80412C	2	145	45	26	25	17.780	12	1500	5000	0.010
-80413C	3	170	52	30	28	23.825	15	2000	4200	0.010
-80414C	4	205.7	60	34.7	32	31.267	18	3200	3200	0.010
-80415C	5	254	77	45	45	44.399	24	6300	2000	0.015
-80416C	6	363	125	68.5	75	63.348	40	10000	1600	0.015

V Block Pairs

- Made from quality cast iron, hardened and precision-ground
- Parallelism of base and V-groove, max 0.003mm. V-groove angle 90°
- Used for the error-free holding of round stock during machining jobs. These easy-to-use stock-holding tools help you properly grip your workpieces while milling operations progress
- Supplied as a matched pair

Order Code TFMC71	Dimensions L x W x H (mm)	Vee Capacity (mm)
-01010A	50 x 23 x 32	6 - 54
-01020A	70 x 30 x 53	5 - 44
-01030A	100 x 40 x 65	10 - 60
-01040A	120 x 46 x 79	10 - 74
-01050A	150 x 57 x 88	10 - 104



V Block & Clamp Pairs

- Made from quality steel, accurately hardened and ground, hardness up to HRC55 - 62
- 90° V grooves with high accuracy
- Used in machining operations to hold cylindrical parts firmly in place for operations like drilling, milling, turning, & cutting, where precise alignment & support of the workpieces are necessary to achieve the desired accuracy & finish
- Supplied as a matched pair

Order Code TFMC71	Dimensions L x W x H (mm)
-05010A	32 x 41 x 32
-05015A	40 x 50 x 40



Cast Iron Surface Plates

- This product can be used for marking various parts and can also serve as a reference for inspection in laboratories, metrology rooms, inspection departments, and other areas
- This surface plate is machined and finally hand scraped with highly experienced technicians to ensure the high accuracy and flatness
- High-strength cast iron: HT200 - 300; working surface hardness: HB170 - 240
- **This product is available in various specifications, and our company can customize it according to customer requirements**

Notes:

- ** The cast iron surface plate adopts manual scraping progress, where workers use a scraper to scrape the working surface of the cast iron surface plate. This process may leave scrape marks, which result in a rough surface on the surface plate. However, this does not affect its accuracy. The cast iron surface plate exactly achieves the required precision through this method.
- ** The accuracy of the cast iron surface plate is related to the thickness of itself. Therefore, if high accuracy is required, it is not advisable to choose a platform that is too thin.
- ** The accuracy of the cast iron surface plate is also affected by the environmental temperature during usage. It should not be used outdoors, and when used indoors, precautions should be taken to avoid placing it in damp areas or allowing it to come into contact with water stains, as this may cause rusting of the cast iron surface plate.



Plate					Stand
Order Code	size(mm) L x W	Accuracy Grade	Manual Scraping Process	Weight (approx.) (kg)	Order Code
TFWS01					TFWS01
-10223A	200 x 200	3	Scraping/Grinding	5	-10220S
-10333A	300 x 300	3	Scraping/Grinding	10	-10330S
-10443A	400 x 400	3	Scraping/Grinding	18	-10440S
-10553A	500 x 500	3	Scraping/Grinding	28	-10550S
-10563A	500 x 600	3	Scraping/Grinding	35	-10560S
-10583A	500 x 800	3	Scraping/Grinding	45	-10580S
-10683A	600 x 800	3	Scraping/Grinding	55	-10680S
-10693A	600 x 900	3	Scraping/Grinding	65	-10690S
-11001A	1000 x 1000	1	Scraping Checked by Image Level	300	-11000S
-11002A	1000 x 1000	2	Precision Scraping/Grinding	240	-11000S
-11003A	1000 x 1000	3	Scraping/Grinding	130	-11000S
-11201A	1000 x 1200	1	Scraping Checked by Image Level	320	-11200S
-11202A	1000 x 1200	2	Precision Scraping/Grinding	260	-11200S
-11203A	1000 x 1200	3	Scraping/Grinding	160	-11200S
-11501A	1000 x 1500	1	Scraping Checked by Image Level	460	-11500S
-11502A	1000 x 1500	2	Precision Scraping/Grinding	330	-11500S
-11503A	1000 x 1500	3	Scraping/Grinding	200	-11500S

Pipe Vises

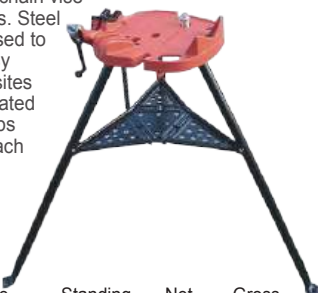
- Constructed of durable cast iron for years of use. Heavy duty jaws and a convenient pipe rest hold your workpiece in position for cutting, threading, sanding and numerous other operations
- Features a hinged quick release mechanism to speed production and secure pipe to the desired position
- V-shaped jaw design for secure and firm clamping
- Electrostatic spraying for corrosion resistance, aesthetic appeal and comfortable use



Order Code	Size	Capacity (mm)	Weight (kg)
TFWS20			
-40001A	#1	10 - 60	4
-40002A	#2	10 - 90	5.5
-40003A	#3	15 - 115	7.5
-40004A	#4	15 - 165	10
-40005A	#5	15 - 219	18

Tristand Chain Vise

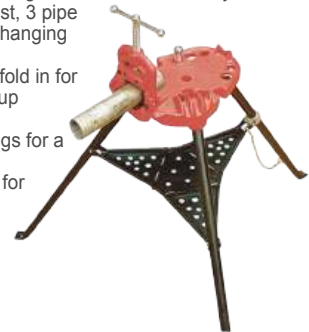
- Material of supporting legs: SPHC hot rolled sheet
- Material of base plate: aluminum alloy die casting
- Material of chain: 45 manganese, 30 Cr Mn Ti
- This chain vise securely holds the pipe in place for threading or cutting, and it also can be used as a pipe bender, ideal for a variety of pipe materials including steel, copper and PVC to thread and cut
- Thickened legs made of super hard material, allowing for greater load capacity and better impact resistance
- Rust-proof chain + quenched teeth, providing smoother operations and higher efficiency
- Optimized base layout maximizes the working area with tool hanger, pipe bender and chain vise
- Designed with folding legs. Steel chain built in one leg is used to bind legs together for easy transport around the job sites
- A convenient tool tray located under the base plate keeps your other tools within reach at all times
- Electrostatic spraying for corrosion resistance, aesthetic appeal and comfortable use



Order Code	Pipe Capacity	Base Plate (cm)	Standing Width (cm)	Net Weight (kg)	Gross Weight (kg)
TFWS20					
-50006A	6"	64 x 43 x 23	137 x 88(h)	18.5	21.0

Tristand Yoke Vise

- This tristand yoke vise integrates a yoke style vise into the base plate as well as a rugged tool tray
- This chain vise securely holds the pipe in place for threading or cutting, and it also can be used as a pipe bender, ideal for a variety of pipe materials including steel, copper and PVC to thread and cut
- Made of high-quality carbon steel, forged for durability and strength
- Jaws are forged from 45# steel, with the teeth undergoing high-frequency quenching for increased durability
- Complete with pipe rest, 3 pipe benders and slots for hanging tools
- Integral legs and tray fold in for easy carrying and setup
- Large vise base plate overhangs the front legs for a clear tool swing
- Electrostatic spraying for corrosion resistance, aesthetic appeal and comfortable use



Order Code	Pipe Capacity	Base Plate (cm)	Standing Width (cm)	Net Weight (kg)	Gross Weight (kg)
TFWS20					
-51107A	2-1/2"	109 x 29 x 18	830	20.0	21.0

American Pattern Full Steel Bench Vises

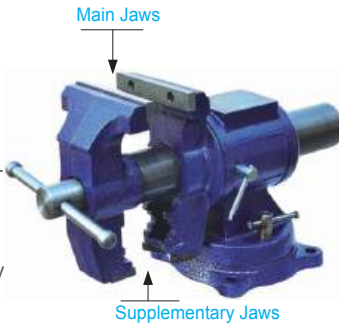
- Full steel structure providing immense strength and long service time, life time guarantee
- Featured with shaping horn which allows the blacksmith to hammer the metal to give it a different shape
- Unique side scale for precision adjustment
- Integrated serrated jaws providing strong and firm clamping
- Treated jaws and anvil, hardness up to HRC50 ~ 60
- 360° swivel base



Order Code	Jaw Opening (mm)	Throat Depth (mm)	Net Weight (kg)
TFWS20			
-10100G	100	57	6
-10125G	125	68	11
-10150G	150	78	14
-10200G	200	88	20
-10250G	250	100	29

Multi-Functional Bench Vise with Swivel Base

- Made of high-quality cast iron material
- Strong clamping force
- 360° swivel base and jaws for versatile positioning
- Large anvil is great for bending or shaping small objects
- Suitable for many industries or assembly work



Order Code	Jaw Width (mm)	Jaw Opening (mm)	Net Weight (kg)
TFWS22			
-00125M	125	77	18

Universal Bench Vises

- Made of high-quality cast iron material, meticulously forged, and finished with a baking paint process, ensuring durability
- This vise can be adjusted from horizontal position to vertical, locked at any position
- 360° swivel base
- Providing high accuracy, precise positioning, smooth rotation without stiffness
- Parallelism / Perpendicularity ≤ 0.025mm/100mm



Order Code	Size	Jaw Width (mm)	Jaw Height (mm)	Jaw Opening (mm)	Net Weight (kg)
TFWS21					
-02100U	4"	100	41	75	15
-02125U	5"	125	46	95	22
-03125U	5" large opening	125	46	130	22
-02150U	6"	160	50	120	32

American Pattern Bench Vises with Swivel Bases

- An industrial grade vise by the most popular pattern, widely used in machinery manufacturing and fitter assembly
- Made of quality cast iron, good rigidity and high clamping force
- Large anvil allows striking
- 360° swivel base



Size (mm)	Heavy Duty			Medium Duty		
	Jaw Opening (mm)	Net Weight (kg)	Order Code	Jaw Opening (mm)	Net Weight (kg)	Order Code
75	85	6.5	-00075H	85	4.5	-00075M
100	130	11	-00100H	110	7	-00100M
125	170	19	-00125H	150	10.5	-00125M
150	180	29	-00150H	150	12	-00150M
200	255	42	-00200H	190	25	-00200M
250	220	60	-00250H	230	32	-00250M

M Type Precision Bench Vises with Swivel Bases

- Made of quality cast iron, firm construction, good rigidity and high clamping force
- Precision threaded rod for smooth and seamless opening and closing
- Large anvil allows striking
- 360° swivel base



Order Code	Jaw Width (mm)	Jaw Opening (mm)	Net Weight (kg)
TFWS23			
-00100P	100	56	75
-00125P	125	67	100
-00150P	150	75	125
-00200P	200	86	150

360° Swivel Bench Vises

- Built-in clamp allows it to be easily and quickly attached to a bench, table or work surface
- Made of powder-coated cast iron featured with anti-drop design of screw lead
- Treated serrated jaws ensures strong and stable clamping
- Screw lead is made of treated carbon steel for high strength, no deformation and smooth clamping operation
- 360° swivel ductile iron base, fracture resistant



Order Code	Jaw Width (mm)	Jaw Opening (mm)	Anvil Size (mm)	Throat Depth (mm)	Dimensions H x W (mm)
TFWS25					
-10050B	50	55	40 x 30	52	175 x 146
-10060B	60	65	40 x 30	52	177 x 155
-10070B	70	75	40 x 30	70	200 x 155
-10075B	75	77	40 x 30	70	220 x 160

Digital Heavy Duty Crane Scales

- This crane scale offers the user a simple and easy method to weigh goods in an industrial lifting / tension application. It has a heavy duty housing which enables it to withstand knocks and bumps expected in very heavy weighing operations
- 56mm large bright LED display, visible distance ≥30m
- Battery voltage indication on power on/off
- Overload and low battery alarm
- Equipped with a large-capacity rechargeable battery for long-time use
- Weight calibration method applied to any values
- Selection of display increments
- Automatic sleep/power-off design for energy saving
- Features wireless hand held remote control up to 10m distance, which makes operations more efficient and safe



Order Code	Capacity (T)	Test Resolution (Kg)	Display Resolution (Kg)	Display
TFWS15				
-01015A	15	5	5/10	30mm LED
-01020A	20	10	5/10	30mm LED
-01030A	30	10	10	56mm Large LED
-01050A	50	20	20	56mm Large LED

Stainless Steel Heavy Duty Crane Scales - Wireless Data Transmission

- This digital fish scale is widely used in warehouses, agriculture, hunting, fishing, workshops, offices, and other businesses, for use with wireless indicator
- Made of high quality 304 stainless steel, corrosion resistant and acid-alkali resistant
- Indicator has large capacity of data storage and big LED screen
- Indicator has power-off data protection function, data will not be lost even when the battery is removed
- Indicator has built-in high performance thermal printer for quick printing
- Weight calibration and error adjustment can be easily done by the indicator
- Power supply: Built-in 6V/4.5Ah rechargeable battery, one time charge can last for 50 hours of continuous use
- Transmission range is up to 200m without obstruction
- Data storage capacity: 1089 records
- Operating environment: -30°C to 60°C, high temperature not exceeding 2000°C ≥1.8M, 1600°C ≥1.6M
- Optional high-temperature insulation type suitable for use in the smelting and casting industry (please consult Temo company)
- Optional wireless indicator (please consult Temo company)



Order Code	Capacity (T)	Test Resolution (Kg)	Display Resolution (Kg)
TFWS15			
-06015W	15	5	5/10
-06020W	20	10	5/10
-06030W	30	10	10
-06050W	50	20	20

Digital Crane Scales

- This digital crane scale with an ultra-bright LED digital display for long range viewing. It is a cost effective solution for light to medium capacity overhead weighing
- 30mm ultra-bright LED display, visible distance ≥25m
- Battery voltage indication on power on/off
- Overload and low battery alarm
- Equipped with a large-capacity rechargeable battery for long-time use
- Weight calibration method applied to any values
- Selection of display increments
- Automatic sleep/power-off design for energy saving
- Features wireless hand held remote control up to 10m distance, which makes operations more efficient and safe



Order Code	Capacity (T)	Test Resolution (Kg)	Display Resolution (Kg)
TFWS15			
-02001B	1	0.5	0.5
-02002B	2	1	0.5
-02003B	3	1	1
-02005B	5	2	1/2
-02010B	10	5	2/5

Spring Balancers

- Tool Balancers support heavy tool loads with cable tension equal to the weight of the suspended tools, making them seem virtually weightless. Spring Balancers provide constant tension on the cable, accomplished with a spring motor and a tapered drum. The balancer extends or retracts the support cable to follow the tool's movements. The assembler can reposition the tool, while experiencing comfortable operation and less fatigue
- Aluminum alloy tapered drum, baking coating, extended and thickened wire ensuring good toughness, fatigue resistance and long tool life
- Equipped with a high strength top hook with locking mechanism and an anti-collision buffer
- Equipped with adjustment worm and locking switch for easy and secured use



Order Code	Load Capacity (Kg)	Cable Travel (M)	Weight (Kg)	Order Code	Load Capacity (Kg)	Cable Travel (M)	Weight (Kg)
TFWS16				TFWS16			
-02003A	1 ~ 3	1.5	1.4	-02070A	60 ~ 70	1.5	11.2
-02005A	3 ~ 5	1.5	1.5	-02080A	70 ~ 80	1.5	12.0
-02009A	5 ~ 9	1.5	3.7	-02100A	80 ~ 100	1.5	22.0
-02015A	9 ~ 15	1.5	3.9	-02120A	100 ~ 120	1.5	23.0
-02022A	15 ~ 22	1.5	7.1	-02140A	120 ~ 140	1.5	24.0
-02030A	22 ~ 30	1.5	7.6	-02160A	140 ~ 160	1.5	24.5
-02040A	30 ~ 40	1.5	10.0	-02180A	160 ~ 180	1.5	25.0
-02050A	40 ~ 50	1.5	10.2	-02200A	180 ~ 200	1.5	25.5
-02060A	50 ~ 60	1.5	10.8				

Beam Clamps

- This beam clamp is adjusted using a central threaded adjusting bar. The clamp is easy to install and ideal for use with chain blocks, lever hoists, and powered lifting hoists.
- Product features: small size, lightweight, reliable and nice appearance



Order Code	Capacity (T)	Jaw Opening (mm)	Net Weight (kg)
TFWS10			
-20010A	1	75 - 220	3.8
-20020A	2	75 - 220	4.6
-20030A	3	80 - 320	9.0
-20050A	5	80 - 320	11.0
-20100A	10	90 - 320	16.0

Chain Hoists

- Applied in machine shops, industrial maintenance facilities, mines, warehouses and construction sites as a lifting, positioning, hoisting or pulling chain hoist
- Especially suitable for outdoor and power-free working environments
- Can be used in conjunction with various manual monorail cranes to form a hand-pulled lifting and transportation trolley, suitable for monorail overhead transportation, manual single-beam bridge cranes, and jib cranes
- Forged and heat-treated construction ensures secured and durable applications
- Shockproof thickened housing, dual ratchet pawls for safety and reliability
- Adopts multi-point support structure, which makes the operating system more reasonable, convenient and flexible to rotate and have a low rate to fail
- Equipped with anti-slip nuts for enhanced safety
- Lightweight, compact size and easy to carry
- **Different lifting length is available on request**



Capacity (T)	Load Chain Diameter (mm)	Numbers of Chain Falls	3M Lifting	6M Lifting
			Order Code TFWS10	Order Code TFWS10
0.5	5.0	1	-10005A	-11005A
1.0	6.0	1	-10010A	-11010A
1.5	7.1	1	-10015A	-11015A
2.0	8.0	1	-10020A	-11020A
3.0	7.1	2	-10030A	-11030A
5.0	9.0	2	-10050A	-11050A
10.0	10.0	4	-10100A	-11100A
15.0	10.0	6	-10150A	-11150A
20.0	10.0	8	-10200A	-11200A
30.0	10.0	12	-10300A	-11300A
50.0	10.0	12	-10500A	-11500A

Wire Rope Pulling Hoists

- This product is a device which is useful for lifting, pulling and tensioning material or load with the help of wire rope
- Widely applicable in various places such as factories, mines, construction sites, docks, and transportation. It is an ideal tool for equipment installation, cargo lifting, object fixation, binding, and traction
- It particularly demonstrates its superiority in situations where traction is required at arbitrary angles and in confined spaces, outdoor operations, and power-free environments
- Lightweight and compact design
- Supplied with 20 Mtr cable with hook fitted



Technical Specifications

	Order Code: TFWS10		
	-30080A	-30160A	-30320A
Lifting Capacity (kg)	800	1600	3200
Forward Hand Force (N)	284	412	441
Forward Travel (mm)	≥52	≥55	≥28
Efficient Length of Forward Handle (mm)	825	1200	1200
Wire Rope Diameter (mm)	8.3	11	16
Std. Wire Rope Length (mm)	20	20	20
Safety Factor of Wire Rope	5	5	5
Safety Factor of Static Load	5	5	5
Weight of Device (kg)	6.4	12	23

Lever Blocks

- Lever blocks are designed for lifting, lowering or tensioning loads
- High strength steel body and gear case are built to be durable for rugged needs of construction, mechanical and maintenance rigging
- Made of high quality material which is light weight and ensures reliability of the product. The lever hoist with its compact design and stamped steel construction is excellent for lifting and pulling
- Hand lever operates with little effort due to optimal gear ratio
- Premium grade alloy load chain, drop-forged and heat treated hooks for great strength and long wearing
- Lightweight, compact size and easy to carry
- **Different lifting length is available on request**

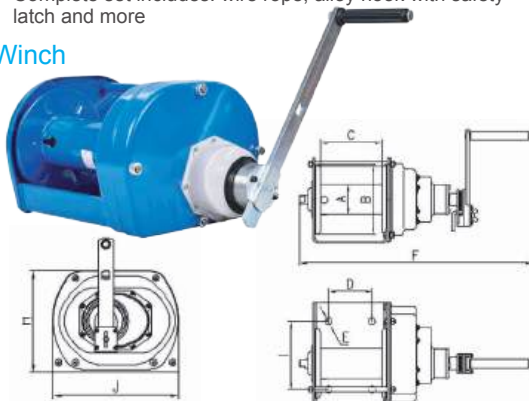


Order Code	Capacity (T)	Standard Lift (M)	Load Chain Diameter (mm)	Numbers of Chain Falls	Weight (kg)
TFWS11					
-10007B	0.75	1.5	6	1	8
-10010B	1	1.5	6	1	8
-10015B	1.5	1.5	8	1	12.8
-10020B	2	1.5	8	1	12.8
-10030B	3	1.5	10	1	18
-10060B	6	1.5	10	1	28.5
-10090B	9	1.5	10	1	45

Heavy Duty Hand Winches

- This heavy duty hand winch provides accurate operation and long-lasting service for industry
- Punch plate housing with dual-directional self-locking mechanism, suitable for use in narrow spaces
- Precisely made wire rope drum, high load-bearing capacity and resistant to deformation
- Equipped with forged and heat-treated steel gears, brake pawl and an anti-slip handle
- Automatic brake pawl for maximum safety, the positive load-actuated brake can hold the load in any position
- Adjustable handle position to change force required
- Brakes and gears are fully covered by metal case for dust and weather protection
- Corrosion-resistant durable paint finish protects against harsh environments
- Lightweight and practical, easy to carry
- Mounting options: floor, wall or ceiling
- Complete set includes: wire rope, alloy hook with safety latch and more

Winch



Product Parameters	Order Code: TFWS10				
	-31005A	-31010A	-31020A	-31030A	
Rated Load Capacity (T)	0.5	1	2	3	
Test Load (KN)	6.125	12.25	24.5	36.75	
Speed Ratio	4.33 : 1	12.19 : 1	22.68 : 1	29.16 : 1	
Hand Force (N)	120	120	130	180	
Applicable Wire Rope Dia. (mm) x Length (m)	6.3 x 40	8.0 x 40	9.0 x 40	12.5 x 40	
Main Dimensions (mm)	A	60	76	90	100
	B	140	175	190	230
	C	150	154	195	205
	D	100	110	155	155
	E	15	18	18	18
	F	403	443	490	549
	H	182	214	230	296
	I	130	170	170	170
	J	245	266	300	365
	Net Weight (kg)	14.4	19.7	25.1	44.3

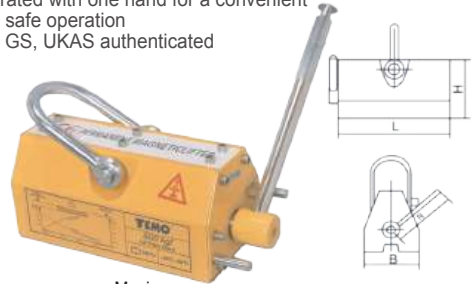
Complete Set (Winch + Steel Wire Rope + Hook)



Product Parameters	Order Code: TFWS10			
	-31005K	-31010K	-31020K	-31030K
Rated Load Capacity (T)	0.5	1	2	3
Applicable Wire Rope Dia. (mm) x Length (m)	6.3 x 40	8.0 x 40	9.0 x 40	12.5 x 40
Net Weight of Complete Set (kg)	20	29	38	65

Permanent Magnetic Lifters

- Primarily used across several industries to hoist and move ferrous workpieces with flat or round surfaces, also suitable for outdoor operations
- Made of permanent magnet with strong magnetic force, compact size and lightweight
- Unique magnetic circuit design ensures high safety factor, almost zero remanence, not easy to demagnetize, no electricity and other energy required to drive, the magnetic strength does not fade away even after many years of intensive usage
- Maximum pull-off force is 3 times the rated lifting force
- Featured with a safety button on handle, which can be easily operated with one hand for a convenient and safe operation
- CE, GS, UKAS authenticated



Order Code	Capacity (kg)	Maximum Pull-off (kg)	Dimensions (mm)			Weight (kg)
			L	B	H	
-40100A	100	300	86	62	68	2.7
-40400A	400	1200	160	89	95	9.3
-40600A	600	1800	213	108	115	18.2
-41000A	1000	3000	260	139	138	34.3
-42000A	2000	6000	349	153	165	62
-43000A	3000	9000	439	153	165	78
-45000A	5000	15000	523	230	215	180

Heavy Duty Single Sheave Wire Rope Pulleys

- Made of alloy material, high temperature quenching and forging, wholly thickened, sliding smoothly, and more durable
- Equipped with heavy-duty safety hooks, not easy to fall
- Thickened sheave ropeway can effectively protect the wire rope for long-lasting use
- Top open design for convenient use and effective protection to the wire rope

Type: Snatch Hook

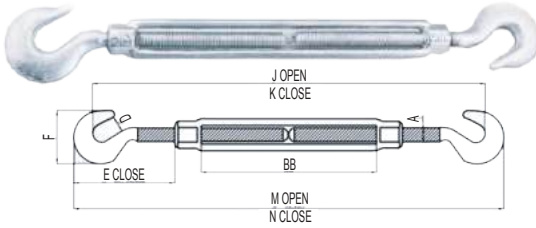
Type: Oval Eye



Capacity (T)	Applicable Wire Rope Dia. (mm)	Sheave Outside Dia. (mm)	Sheave Inside Dia. (mm)	Net Weight (kg)	Snatch Hook	Oval Eye
					Order Code TFWS10	Order Code TFWS10
0.5	6.2 - 7.7	85	70	2	-51005A	-51005B
1	7.7 - 11	104	80	3.5	-51010A	-51010B
2	11 - 14	140	110	6.5	-51020A	-51020B
3.2	12.5 - 15.5	160	130	10.5	-51032A	-51032B
5	15.5 - 18.5	200	160	17.5	-51050A	-51050B
8	20 - 23	262	210	32	-51080A	-51080B
10	23 - 24.5	300	240	47	-51100A	-51100B
16	28 - 31	400	315	102	-51160A	-51160B
20	31 - 35	440	355	134	-51200A	-51200B
32	34 - 38	490	400	450	-51320A	-51320B
50	40 - 43	550	450	620	-51500A	-51500B

US Type Galvanized Turnbuckles with Hook & Hook

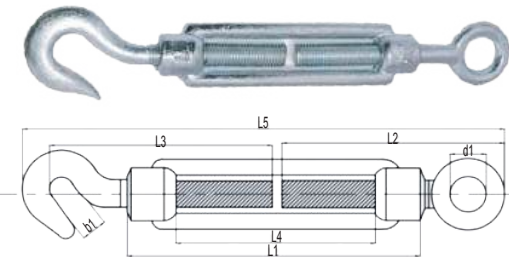
- Made of 45# carbon steel, forged and hot-dip galvanized
- Deep threads provide even force distribution and prevent slipping during rotation, making it easy to operate
- Extended screws allow for larger tightening space
- Tested with a load 2.5 times the rated load; ultimate load capacity is 5 times the rated load
- CE authenticated



Order Code	Size (in)	Load Capacity (lbs)	Dimensions (in)										Weight (lbs)
			A	E Close	J Open	K Close	M Open	N Close	D	F	BB		
-30150A	1/2 * 6	1500	0.50	2.94	18.82	11.82	20.38	13.38	0.66	2.28	6.00	1.60	
-30150B	1/2 * 12	1500	0.50	2.94	30.82	17.82	32.38	19.38	0.66	2.28	12.00	2.28	
-30225A	5/8 * 6	2250	0.63	3.69	20.50	13.25	22.50	15.25	0.90	2.81	6.00	2.75	
-30225B	5/8 * 12	2250	0.63	3.69	32.50	19.25	34.50	21.25	0.90	2.81	12.00	3.50	
-30300A	3/4 * 6	3000	0.75	4.52	22.38	14.88	24.78	17.28	0.98	3.33	6.00	3.89	
-30300B	3/4 * 12	3000	0.75	4.52	34.38	20.88	36.78	23.28	0.98	3.33	12.00	5.43	
-30300C	3/4 * 18	3000	0.75	4.52	46.38	26.88	48.78	29.28	0.98	3.33	18.00	8.12	
-30400A	7/8 * 12	4000	0.88	5.19	36.00	22.25	38.75	25.00	1.13	3.78	12.00	8.10	
-30500A	1 * 12	5000	1.00	5.84	37.63	23.63	40.69	26.69	1.25	4.25	12.00	11.93	
-30500B	1 * 18	5000	1.00	5.84	49.63	29.63	52.69	32.69	1.25	4.25	18.00	14.00	
-30500C	1 * 24	5000	1.00	5.84	61.63	35.63	64.69	38.69	1.25	4.25	24.00	17.25	
-30650A	1-1/4 * 12	6500	1.25	7.22	40.44	25.94	44.06	29.56	1.50	5.13	12.00	20.58	
-30650B	1-1/4 * 18	6500	1.25	7.22	52.44	31.94	56.06	35.56	1.50	5.13	18.00	23.00	
-30650C	1-1/4 * 24	6500	1.25	7.22	64.44	37.94	68.06	41.56	1.50	5.13	24.00	27.00	
-30750A	1-1/2 * 12	7500	1.50	8.34	43.94	28.94	47.44	32.44	1.88	5.75	12.00	27.50	
-30750B	1-1/2 * 18	7500	1.50	8.34	55.94	34.94	59.44	38.44	1.88	5.75	18.00	31.00	
-30750C	1-1/2 * 24	7500	1.50	8.34	67.94	40.94	71.44	44.44	1.88	5.75	24.00	37.50	

DIN1480 Galvanized Turnbuckles with Ring & Hook

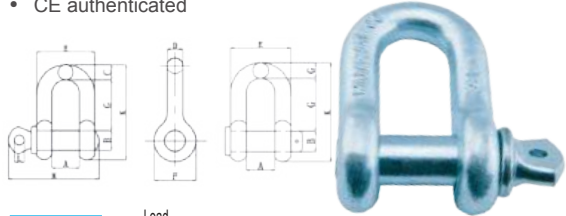
- Made of malleable iron and hot-dip galvanized
- Deep threads provide even force distribution and prevent slipping during rotation, making it easy to operate
- Extended screws allow for larger tightening space
- CE authenticated



Order Code	Size (mm)	Load Capacity (kg)	Dimensions (mm)									Weight/ 100Pcs (kg)
			L1	L2	L3	b1	L4	d1	L5			
-23506A	M6	230	110	80	85	8.5	80	9	175	7.8		
-23508A	M8	418	110	75	85	11	84	10	182	14.8		
-23510A	M10	663	125	85	112	13.5	105	14	213	29.6		
-23512A	M12	948	125	80	117	15.5	115	16	238	36.3		
-23516A	M16	1804	170	110	138	19	165	22	320	91		
-23520A	M20	2752	200	130	170	20.5	167	24	367	156		
-23524A	M24	3996	255	170	205	26	205	27	447	325		
-23530A	M30	6371	255	160	225	33	255	31	512	415		
-23536A	M36	9276	295	180	255	44	276	43	568	745		

US Type Galvanized Screw Pin Chain D Shackles

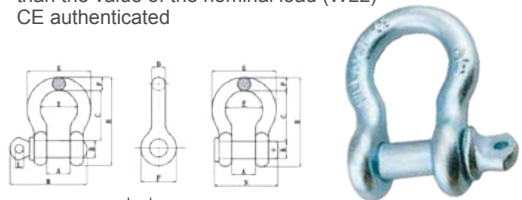
- Shackle body made of 45# carbon steel and screw pin made of 40Cr, fully galvanized
- A secure screw pin mechanism makes connection fast and easy
- In accordance with US Federal Specification RR-C-271, and are characterized by a six-fold safety. This means that the minimum breaking force is at least six times higher than the value of the nominal load (WLL)
- CE authenticated



Order Code	Size (in)	Load Capacity (T)	Dimensions (in)											Weight (lbs)
			A	B	C	D	E	F	G	H	I	J	K	
-21004A	1/4	1/2	0.47	0.31	0.25	0.25	0.97	0.62	0.97	1.59	0.19	1.43	0.11	
-21008A	5/16	3/4	0.53	0.38	0.31	0.31	1.15	0.75	1.07	1.91	0.22	1.71	0.17	
-21012A	3/8	1	0.66	0.44	0.38	0.38	1.42	0.92	1.28	2.31	0.25	2.02	0.28	
-21016A	7/16	1-1/2	0.75	0.50	0.44	0.44	1.63	1.06	1.48	2.67	0.31	2.37	0.43	
-21020A	1/2	2	0.81	0.63	0.50	0.50	1.81	1.18	1.66	3.03	0.38	2.69	0.59	
-21024A	5/8	3-1/4	1.06	0.75	0.63	0.63	2.32	1.50	2.04	3.76	0.44	3.34	1.25	
-21028A	3/4	4-3/4	1.25	0.88	0.81	0.75	2.75	1.81	2.40	4.53	0.50	3.97	2.63	
-21032A	7/8	6-1/2	1.44	1.00	0.97	0.88	3.20	2.10	2.86	5.33	0.50	4.50	3.16	
-21036A	1	8-1/2	1.69	1.13	1.00	1.00	3.69	2.38	3.24	5.94	0.56	5.13	4.75	
-21040A	1-1/8	9-1/2	1.81	1.25	1.15	1.13	4.07	2.69	3.61	6.78	0.63	5.71	6.75	
-21044A	1-1/4	12	2.03	1.38	1.25	1.25	4.53	3.00	3.97	7.5	0.69	6.25	9.06	
-21048A	1-3/8	13-1/2	2.25	1.50	1.50	1.38	5.01	3.31	4.43	8.28	0.75	6.53	11.63	
-21052A	1-1/2	17	2.38	1.63	1.62	1.50	5.38	3.62	4.87	9.05	0.81	7.33	15.95	
-21056A	1-3/4	25	2.88	2.00	2.12	1.75	6.38	4.19	5.78	10.97	1.00	9.06	26.75	
-21060A	2	35	3.25	2.25	2.36	2.10	7.25	5.00	6.77	12.74	1.13	10.35	42.31	
-21064A	2-1/2	55	4.12	2.75	2.63	2.63	9.38	5.68	8.07	14.85	1.38	13.00	71.75	

US Type Galvanized Screw Pin Anchor D Shackles

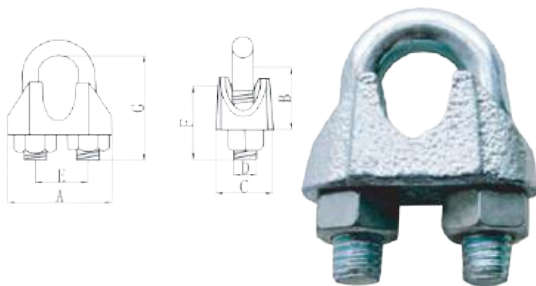
- Shackle body made of 45# carbon steel and screw pin made of 40Cr, fully galvanized
- A secure screw pin mechanism makes connection fast and easy
- In accordance with US Federal Specification RR-C-271, and are characterized by a six-fold safety. This means that the minimum breaking force is at least six times higher than the value of the nominal load (WLL)
- CE authenticated



Order Code	Size (in)	Load Capacity (T)	Dimensions (in)												Weight (lbs)
			A	B	C	D	E	F	G	H	L	M	P		
-20904A	1/4	1/2	0.47	0.31	1.13	0.25	0.78	0.61	1.28	1.84	0.19	1.43	0.25	0.12	
-20908A	5/16	3/4	0.53	0.38	1.22	0.31	0.84	0.75	1.47	2.09	0.22	1.71	0.31	0.19	
-20912A	3/8	1	0.66	0.44	1.44	0.38	1.03	0.91	1.78	2.49	0.25	2.02	0.38	0.31	
-20916A	7/16	1-1/2	0.75	0.50	1.69	0.44	1.16	1.06	2.03	2.91	0.31	2.37	0.44	0.38	
-20920A	1/2	2	0.81	0.63	1.88	0.50	1.31	1.19	2.31	3.28	0.38	2.69	0.50	0.63	
-20924A	5/8	3-1/4	1.06	0.75	2.38	0.63	1.69	1.50	2.94	4.19	0.44	3.34	0.69	1.38	
-20928A	3/4	4-3/4	1.25	0.88	2.81	0.75	2.00	1.81	3.50	4.97	0.50	3.97	0.81	2.25	
-20932A	7/8	6-1/2	1.44	1.00	3.31	0.88	2.28	2.09	4.03	5.83	0.50	4.50	0.97	3.38	
-20936A	1	8-1/2	1.69	1.13	3.75	1.00	2.69	2.38	4.69	6.56	0.56	5.13	1.06	5.32	
-20940A	1-1/8	9-1/2	1.81	1.25	4.25	1.16	2.91	2.69	5.16	7.47	0.63	5.71	1.25	6.81	
-20944A	1-1/4	12	2.03	1.38	4.69	1.29	3.25	3.00	5.75	8.25	0.69	6.25	1.38	9.50	
-20948A	1-3/8	13-1/2	2.25	1.50	5.25	1.42	3.63	3.31	6.38	9.16	0.75	6.83	1.50	13.25	
-20952A	1-1/2	17	2.38	1.63	5.75	1.54	3.88	3.63	6.88	10.00	0.81	7.33	1.62	17.20	
-20956A	1-3/4	25	2.88	2.00	7.00	1.84	5.00	4.19	8.86	12.34	1.00	9.06	2.25	30.38	
-20960A	2	35	3.25	2.25	7.75	2.08	5.75	4.81	9.97	13.68	1.22	10.35	2.40	45.00	
-20964A	2-1/2	55	4.12	2.75	10.50	2.71	7.25	5.69	12.87	17.84	1.38	13.00	3.13	85.75	

DIN741 Malleable Wire Rope Clips

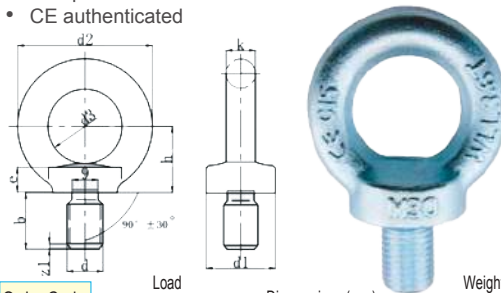
- Made of malleable iron and galvanized
- This rope clip is composed of a U-bolt and saddle secured by two nuts. The product is compliant with the German standard DIN741 for wire rope grips for grip terminations
- CE authenticated



Order Code	Size (mm)	A	B	C	Dimensions (mm)				Weight/100Pcs	MOQ
TFWS15					D	E	F	G		
-40030A	3	21	10	10	4	9	12	16.6	3.1	20
-40050A	5	23	10	11	5	11	13	19.65	3.3	20
-40065A	6.5	26	11	12	5	13	15	23.65	4.6	20
-40080A	8	30	15	14	6	16	19	28.85	9	20
-40100A	10	34	17	18	8	19	22	35	15	20
-40110A	11	36	18	19	8	20	22	37	15.9	20
-40130A	13	40	21	23	10	24	30	46.24	28.7	20
-40140A	14	44	22	23	10	25	30	48.24	29.8	20
-40160A	16	50	26	26	12	29	33	52.5	46.3	20
-40190A	19	54	30	29	12	32	38	64.5	61.7	20
-40220A	22	61	34	33	14	37	44	72.5	88.2	10
-40260A	26	65	37	35	14	41	45	82.5	97	10
-40300A	30	74	43	37	16	48	50	95.6	145.5	10
-40400A	40	88	55	45	16	58	60	125.6	229.3	10

DIN741 High Tensile Galvanized Eye Screws

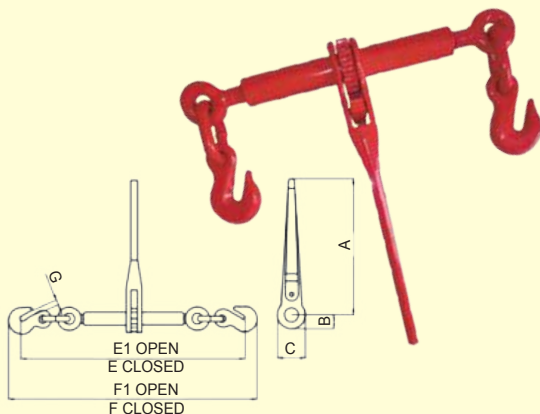
- Widely used in many marine and industrial applications and usually used to connect cables or ropes to objects
- Made of carbon steel and galvanized, anti-rust, corrosion resistant and durable
- Complies with the German standard DIN741
- CE authenticated



Order Code	Size (mm)	Load Capacity WLL(T)	d1	d2	Dimensions (mm)				Weight/100Pcs	MOQ	
TFWS15					d3	b	e	h	k		
-60060A	M6	0.14	17	28	16	13	6	16	6	11	10
-60080A	M8	0.14	20	36	20	15	6	18	8	13	10
-60100A	M10	0.23	25	45	25	18	8	22	10	24	10
-60120A	M12	0.34	30	54	30	22	10	26	12	40	10
-60140A	M14	0.49	35	63	35	28	12	30	14	63	10
-60160A	M16	0.70	35	63	35	28	12	30	14	62	10
-60200A	M20	1.20	40	72	40	30	12	35	16	99	10
-60220A	M22	1.50	45	81	45	35	14	40	18	148	10
-60240A	M24	1.80	50	90	50	38	16	45	20	192	10
-60270A	M27	2.50	50	90	50	38	18	45	20	194	10
-60300A	M30	3.60	65	108	60	45	18	55	24	366	10
-60330A	M33	4.30	65	108	60	45	22	55	24	380	5
-60360A	M36	5.10	75	126	70	55	22	65	28	585	5
-60420A	M42	7.00	85	144	80	65	30	75	32	889	5
-60480A	M48	8.60	100	166	90	70	35	85	38	1408	1
-60560A	M56	11.50	110	184	100	80	38	95	42	1942	1
-60640A	M64	16.00	120	206	110	90	42	100	48	2736	1

Ratchet Type Load Binders

- Manufactured from heavy duty forged steel for greater strength
- All parts are heat treated and proof tested for secured work
- Positive ratchet for easier and faster tightening
- Paint spraying surface for rust resistance
- CE authenticated



Order Code	Chain Range (in)	Rated Capacity WLL(lbs)	Test Capacity WLL(lbs)	Breaking Load (lbs)	Handle Length (in)	Dimensions (in)							Weight (lbs)	
						A	B	C	E	E1	F	F1		G
-55020A	1/4" - 5/16"	2600	5200	7800	7.16	7.16	0.89	1.77	16.22	21.26	17.79	22.83	0.35	3.52
-55050A	5/16" - 3/8"	5400	10800	19000	13.42	13.92	1.30	2.60	22.64	30.64	25.25	33.24	0.51	10.50
-55090A	3/8" - 1/2"	9200	18400	33000	13.92	13.92	1.30	2.60	24.13	32.12	27.04	33.04	0.59	12.90
-55130A	1/2" - 5/8"	13000	26000	46000	13.92	13.92	1.30	2.60	34.45	34.45	30.07	38.07	0.74	14.38

US Type Alloy Eye Hooks with Safety Latch

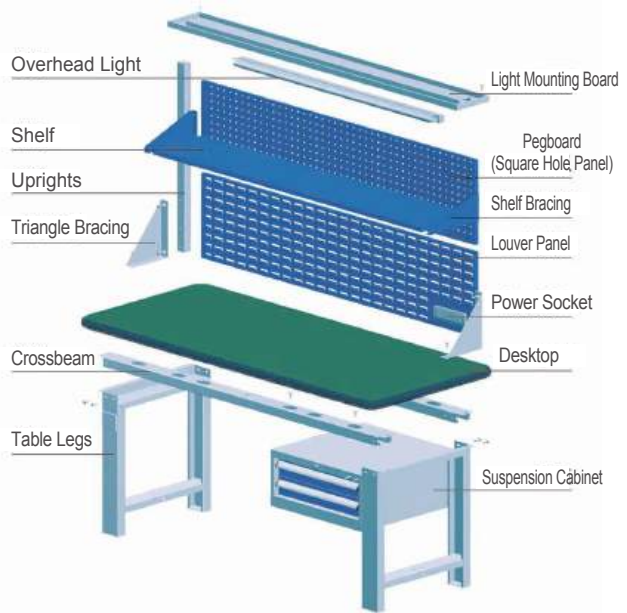
- Manufactured from quenched and tempered forged alloy steel for durability and high strength
- Comes with a heavy-duty latch
- Specially reinforced hook ensuring a long service life
- Paint spraying surface for rust resistance
- CE authenticated



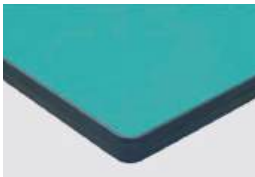
Order Code	Rated Capacity WLL(T)	Breaking Load (T)	Dimensions (mm)				Weight (lbs)	
TFWS15			D	A	B	C	L	
-50020A	2	8	24	27	46.5	84	147	1.2
-50030A	3	12	30	35	49	95	179	3
-50050A	5	20	36	39	55	110	203	4

Workbenches

- Tool panels including of pegboards and louvers as well as lightings can be mounted in addition to the standard workbenches
- Combine the pegboards (perforated panels) with suspension hooks and holders to create easily accessible and organized tool storage
- Combine the louver panels with storage bins to create a convenient tool storage
- Composed of modules above the workbench, making it a specialized inspection or machinist table to meet various requirement on working sites
- All the desktops in this catalog are made of heavy-duty materials with a thickness of 50mm
- Customization is available on request



Optional accessories above the workbench



H/D Composite Desktop

1. 2mm high-pressure laminate for high impact resistance, easy clean and long-lasting
2. Resistant to acid, alkali, wear and oil
3. Rounded corner for better protection



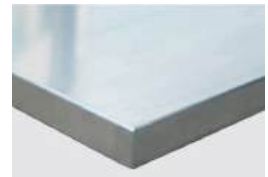
Beech Wood Desktop

1. Made of quality finger jointed beech wood which has no deformation and has a long service life
2. Stable and solid structure are suitable for woodworking, engineering and welding etc.
3. Contributes durability, toughness and flatness
4. Can be mounted with vise



Iron Plate Desktop

1. Constructed with a 6mm or 8mm iron plate on the top while a wood-based plate underneath
2. High strength, anti-impact, wear-resistant and long service time
3. Suitable for mechanist and engineers using
4. Surface spraying is available on customers request



304 Stainless Steel Wood-Filled

1. Thick gauge for added durability and longevity
2. Highly resistant to corrosion, staining, heat, and preventing moisture and contaminants from affecting its structural integrity
3. Provide a hygienic and easy-to-clean work surface
4. Reinforced with wood core for sound reduction and added strength



Laminating Oak Desktop

1. Constructed of oak veneer and laminate
2. High flatness and minimal deformation
3. Economical and practical



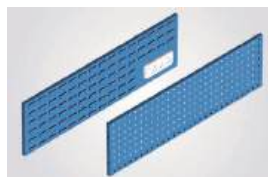
Fire-proof Desktop

1. Resistant to fire, heat and cigarette burns, easy to clean
2. Resistant to scratch, water and moisture
3. Nice appearance and wear-resistant
4. Extremely durable, not easy to deform



Light and Rail Support

Mainly for illumination purpose, can be also used for tools



Pegboard (Sq. Hole Panel)

Mainly for suspension hooks and holders



Air source connector

Providing air connection for air tools



Vise

Vise can be mounted for repair and assembly work



Triangle Bracing

Ensuring the stable mounting of the uprights and the overhead light



Power Socket

Providing power interface

Heavy Duty Workbenches

- Made of 2mm quality cold roll steel plate
- 50mm thick green composite desktop
- Leg size: 100 x 50mm
- Overall load capacity > 500kg, suitable for mounting bench vises
- Customization is available on customer request

Standard Type



Order Code	Size	Desktop
TFWS30	W x D x H(mm)	
-11501A	1500 x 750 x 800	Composite
-11801A	1800 x 750 x 800	Composite
-12101A	2100 x 750 x 800	Composite
-21501A	1500 x 750 x 800	Beech Wood
-21801A	1800 x 750 x 800	Beech Wood
-22101A	2100 x 750 x 800	Beech Wood
-31501A	1500 x 750 x 800	Iron Plate
-31801A	1800 x 750 x 800	Iron Plate
-32101A	2100 x 750 x 800	Iron Plate
-41501A	1500 x 750 x 800	Stainless Steel
-41801A	1800 x 750 x 800	Stainless Steel
-42101A	2100 x 750 x 800	Stainless Steel

3-Drawer Type



Order Code	Size	Drawer Size	Desktop
TFWS30	W x D x H(mm)	W x H(mm)	
-11501B	1500 x 750 x 800	350 x 125	Composite
-11801B	1800 x 750 x 800	350 x 125	Composite
-21501B	1500 x 750 x 800	350 x 125	Beech Wood
-21801B	1800 x 750 x 800	350 x 125	Beech Wood
-31501B	1500 x 750 x 800	350 x 125	Iron Plate
-31801B	1800 x 750 x 800	350 x 125	Iron Plate
-41501B	1500 x 750 x 800	350 x 125	Stainless Steel
-41801B	1800 x 750 x 800	350 x 125	Stainless Steel

Heavy Duty Workbenches - Single Cabinet

- Customization is available on customer request



Type A

Order Code	Size	Drawer Configuration	Suspension Cabinet Size	Desktop
TFWS30	W x D x H(mm)		W x D(mm)	
-11502A	1500 x 750 x 800	2 x 100	411 x 572	Composite
-11802A	1800 x 750 x 800	2 x 100	564 x 572	Composite
-12102A	2100 x 750 x 800	2 x 100	564 x 572	Composite
-21502A	1500 x 750 x 800	2 x 100	411 x 572	Beech Wood
-21802A	1800 x 750 x 800	2 x 100	564 x 572	Beech Wood
-22102A	2100 x 750 x 800	2 x 100	564 x 572	Beech Wood
-31502A	1500 x 750 x 800	2 x 100	411 x 572	Iron Plate
-31802A	1800 x 750 x 800	2 x 100	564 x 572	Iron Plate
-32102A	2100 x 750 x 800	2 x 100	564 x 572	Iron Plate
-41502A	1500 x 750 x 800	2 x 100	411 x 572	Stainless Steel
-41802A	1800 x 750 x 800	2 x 100	564 x 572	Stainless Steel
-42102A	2100 x 750 x 800	2 x 100	564 x 572	Stainless Steel



Type B

Order Code	Size	Drawer Configuration	Suspension Cabinet Size	Desktop
TFWS30	W x D x H(mm)		W x D(mm)	
-11502B	1500 x 750 x 800	3 x 100	411 x 572	Composite
-11802B	1800 x 750 x 800	3 x 100	564 x 572	Composite
-12102B	2100 x 750 x 800	3 x 100	564 x 572	Composite
-21502B	1500 x 750 x 800	3 x 100	411 x 572	Beech Wood
-21802B	1800 x 750 x 800	3 x 100	564 x 572	Beech Wood
-22102B	2100 x 750 x 800	3 x 100	564 x 572	Beech Wood
-31502B	1500 x 750 x 800	3 x 100	411 x 572	Iron Plate
-31802B	1800 x 750 x 800	3 x 100	564 x 572	Iron Plate
-32102B	2100 x 750 x 800	3 x 100	564 x 572	Iron Plate
-41502B	1500 x 750 x 800	3 x 100	411 x 572	Stainless Steel
-41802B	1800 x 750 x 800	3 x 100	564 x 572	Stainless Steel
-42102B	2100 x 750 x 800	3 x 100	564 x 572	Stainless Steel

Heavy Duty Workbenches - Double Cabinets

- Customization is available on customer request



Type C				
Order Code TFWS30	Size W x D x H(mm)	Drawer Configuration	Suspension Cabinet Size W x D(mm)	Desktop
-11502C	1500 x 750 x 800	2 x 100	411 x 572	Composite
-11802C	1800 x 750 x 800	2 x 100	564 x 572	Composite
-12102C	2100 x 750 x 800	2 x 100	564 x 572	Composite
-21502C	1500 x 750 x 800	2 x 100	411 x 572	Beech Wood
-21802C	1800 x 750 x 800	2 x 100	564 x 572	Beech Wood
-22102C	2100 x 750 x 800	2 x 100	564 x 572	Beech Wood
-31502C	1500 x 750 x 800	2 x 100	411 x 572	Iron Plate
-31802C	1800 x 750 x 800	2 x 100	564 x 572	Iron Plate
-32102C	2100 x 750 x 800	2 x 100	564 x 572	Iron Plate
-41502C	1500 x 750 x 800	2 x 100	411 x 572	Stainless Steel
-41802C	1800 x 750 x 800	2 x 100	564 x 572	Stainless Steel
-42102C	2100 x 750 x 800	2 x 100	564 x 572	Stainless Steel



Type D				
Order Code TFWS30	Size W x D x H(mm)	Drawer Configuration	Suspension Cabinet Size W x D(mm)	Desktop
-11502D	1500 x 750 x 800	3 x 100	411 x 572	Composite
-11802D	1800 x 750 x 800	3 x 100	564 x 572	Composite
-12102D	2100 x 750 x 800	3 x 100	564 x 572	Composite
-21502D	1500 x 750 x 800	3 x 100	411 x 572	Beech Wood
-21802D	1800 x 750 x 800	3 x 100	564 x 572	Beech Wood
-22102D	2100 x 750 x 800	3 x 100	564 x 572	Beech Wood
-31502D	1500 x 750 x 800	3 x 100	411 x 572	Iron Plate
-31802D	1800 x 750 x 800	3 x 100	564 x 572	Iron Plate
-32102D	2100 x 750 x 800	3 x 100	564 x 572	Iron Plate
-41502D	1500 x 750 x 800	3 x 100	411 x 572	Stainless Steel
-41802D	1800 x 750 x 800	3 x 100	564 x 572	Stainless Steel
-42102D	2100 x 750 x 800	3 x 100	564 x 572	Stainless Steel

Heavy Duty Pedestal Workbenches

- Customization is available on customer request



- Drawer Configuration(mm): 2 x 100, 1 x 150, 1 x 250

Type A			
Order Code TFWS30	Size W x D x H(mm)	Pedestal Cabinet Size W x D(mm)	Desktop
-11503A	1500 x 750 x 800	411 x 572 x 700	Composite
-11803A	1800 x 750 x 800	564 x 572 x 700	Composite
-12103A	2100 x 750 x 800	564 x 572 x 700	Composite
-21503A	1500 x 750 x 800	411 x 572 x 700	Beech Wood
-21803A	1800 x 750 x 800	564 x 572 x 700	Beech Wood
-22103A	2100 x 750 x 800	564 x 572 x 700	Beech Wood
-31503A	1500 x 750 x 800	411 x 572 x 700	Iron Plate
-31803A	1800 x 750 x 800	564 x 572 x 700	Iron Plate
-32103A	2100 x 750 x 800	564 x 572 x 700	Iron Plate
-41503A	1500 x 750 x 800	411 x 572 x 700	Stainless Steel
-41803A	1800 x 750 x 800	564 x 572 x 700	Stainless Steel
-42103A	2100 x 750 x 800	564 x 572 x 700	Stainless Steel



- Drawer Configuration(mm): 3 x 100, 2 x 150

Type B			
Order Code TFWS30	Size W x D x H(mm)	Pedestal Cabinet Size W x D(mm)	Desktop
-11503B	1500 x 750 x 800	411 x 572 x 700	Composite
-11803B	1800 x 750 x 800	564 x 572 x 700	Composite
-12103B	2100 x 750 x 800	564 x 572 x 700	Composite
-21503B	1500 x 750 x 800	411 x 572 x 700	Beech Wood
-21803B	1800 x 750 x 800	564 x 572 x 700	Beech Wood
-22103B	2100 x 750 x 800	564 x 572 x 700	Beech Wood
-31503B	1500 x 750 x 800	411 x 572 x 700	Iron Plate
-31803B	1800 x 750 x 800	564 x 572 x 700	Iron Plate
-32103B	2100 x 750 x 800	564 x 572 x 700	Iron Plate
-41503B	1500 x 750 x 800	411 x 572 x 700	Stainless Steel
-41803B	1800 x 750 x 800	564 x 572 x 700	Stainless Steel
-42103B	2100 x 750 x 800	564 x 572 x 700	Stainless Steel

Combination Workbenches - Single Suspension Cabinet

- 50mm thick green composite desktop
- Height of pegboard (square hole): 460mm
- Height of louver panel: 460mm
- 1 height-adjustable shelf
- Comes with a light frame, power sockets
- Drawer configuration (mm): 2 x 100
- Customization is available on customer request



Order Code	Size W x D x H(mm)	Suspension Cabinet Size W x D x H(mm)
TFWS30		
-51502C	1500 x 750 x (800+1000)	411 x 572 x 300
-51802C	1800 x 750 x (800+1000)	411 x 572 x 300

Pedestal Combination Workbenches

- 50mm thick green composite desktop
- Height of pegboard (square hole): 460mm
- Height of louver panel: 460mm
- 1 height-adjustable shelf
- Comes with a light frame, power sockets
- Drawer configuration (mm): 2 x 100, 1 x 150, 1 x 250
- Customization is available on customer request



Order Code	Size W x D x H(mm)	Pedestal Cabinet Size W x D x H(mm)
TFWS30		
-51504D	1500 x 750 x (800+1000)	564 x 572 x 700
-51804D	1800 x 750 x (800+1000)	564 x 572 x 700

Tool Storage Cupboards

- Customization is available on customer request



Order Code	Size W x D x H(mm)	Drawer Configuration	Numbers of Adj. Shelves
TFWS31			
-10300A	1000 x 600 x 1800	3 x 100	3



Order Code	Size W x D x H(mm)	Drawer Configuration	Numbers of Adj. Shelves	Numbers of Pegboards
TFWS31				
-10301A	1000 x 600 x 1800	3 x 100	1	1

Tool Storage Cupboards

- Customization is available on customer request



Order Code	Size W x D x H(mm)	Drawer Configuration	Numbers of Adj. Shelves	Weight (kg)
TFWS31				
-10900A	1000 x 600 x 1800	9 x 100	2	130



Order Code	Size W x D x H(mm)	Drawer Configuration	Numbers of Adj. Shelves	Numbers of Door Pegboards	Weight (kg)
TFWS31					
-11301C	1000 x 600 x 1800	3 x 100	7	2	150



Order Code	Size W x D x H(mm)	Numbers of Adj. Shelves	Numbers of Pegboards	Weight (kg)
TFWS31				
-20021B	1000 x 600 x 1800	2	1	88



Order Code	Size W x D x H(mm)	Numbers of Adj. Shelves	Numbers of Pegboards	Weight (kg)
TFWS31				
-20041B	1000 x 600 x 1800	4	1	90

Tool Storage Cupboards

- Customization is available on customer request



Order Code	Size W x D x H(mm)	Numbers of Adj. Shelves	Numbers of Rear Pegboards	Numbers of Door Pegboards	Weight (kg)
TFWS31					
-21011B	1000 x 600 x 1800	1	2	2	95

Heavy Duty Blue/Grey Tool Storage Cupboard

- Thickened steel plate, extra wide size
- 8 compartments for organized storage
- Height adjustable shelves
- Load capacity: 100kg per shelf
- Customization is available on customer request



Order Code	Size (mm)	Shelf Configuration (mm)
TFWS50		
-15204B	1200 x 400 x 1900(h)	350(d) x 560(w) x 4pcs 350(d) x 583(w) x 4pcs



Order Code	Size W x D x H(mm)	Numbers of Adj. Shelves	Numbers of Rear Pegboards	Numbers of Door Pegboards	Weight (kg)
TFWS31					
-21021B	1000 x 600 x 1800	2	1	2	97

Heavy Duty Vertical Pull-out Tool Storage Cabinets

- Made of heavy-duty steel for excellent quality
- Suitable for storing various of long sized tools for good protection. Each drawer comes with pegboard
- Special rails applied to each vertical drawer which allowing each drawer to be opened by 100% and borne up to 140kg
- Interlock mechanism for safer and more reliable storage
- Electrostatic spray coating for an attractive appearance and corrosion resistance
- Customization is available on customer request



Order Code	Colour	Size (mm)	Drawer Configuration
TFWS50			
-01610E	Grey	W760 x D752 x H1600	3
-03610E	Blue	W760 x D752 x H1600	3
-02610F	Grey	W760 x D752 x H1950	3
-04610F	Blue	W760 x D752 x H1950	3

TEMOTUF™ Professional Series of Heavy Duty Storage Cabinets
EXCELLENT with Sliding Doors

- We suggest to secure the cabinets (1000/1200mm h) to the floor or to the wall
- The cabinets (2000mm h) must be fixed to floor or to the wall
- Optional: oil-resistant with rubber top with 3 edges; MDF cabinet top with oil-resistant rubber covering
- Tools, storage bins etc. are not included
- Customization is available on customer request

Single-Shelf Cabinets with Sliding Doors

- Maximum load capacity per cabinet: 600kg
- Shelf load capacity: 100kg



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS51				
-31000A	No.1	1023 x 450 x 1000(h)	370(d) x 1	42
-61000A	No.2	1500 x 600 x 1000(h)	500(d) x 1	65

Double-Shelf Cabinet with Sliding Doors

- Maximum load capacity per cabinet: 600kg
- Shelf load capacity: 100kg



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS51				
-32000A	No.3	1023 x 450 x 1200(h)	370(d) x 2	45

4-Shelf Cabinets with Sliding Doors

- Maximum load capacity per cabinet: 800kg
- Shelf load capacity: 100kg



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS51				
-33000A	No.4	1023 x 450 x 2000(h)	370(d) x 4	70
-43001A	No.5	1023 x 600 x 2000(h)	500(d) x 4	75
-63000A	No.6	1500 x 600 x 2000(h)	500(d) x 4	100

TEMOTUF™ Professional Heavy Duty Twin-Door Cabinet Series

EXCELLENT

- Cabinet load capacity: 600kg
- Cabinet top panel load capacity: 80kg
- Cabinet shelf load capacity: 100kg
- Drawer load capacity: 50kg
- The cabinets with drawers must be fixed to floor or to the wall
- Optional: oil-resistant with rubber top with 3 edges; MDF cabinet top with oil-resistant rubber covering
- Tools, storage bins etc. are not included
- Customization is available on customer request

Twin-Door Double-Shelf Cabinet



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS50				
-12051A	No.1	1023 x 555 x 1000(h)	500(d) x 2	35

Twin-Door Double-Drawer Cabinet



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS50				
-12052A	No.2	1023 x 555 x 1000(h)	500(d) x 2	52

Twin-Door 3-Drawer Cabinet



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS50				
-12053A	No.3	1023 x 555 x 1000(h)	500(d) x 1	66

Twin-Door 4-Drawer Cabinet



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS50				
-12054A	No.4	1023 x 555 x 1000(h)	500(d) x 1	68

Extended Double-Drawer Cabinet - Twin-Door



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS50				
-12055A	No.5	1023 x 555 x 1000(h)	500(d) x 1	58

TEMOTUF™ Professional Heavy Duty Cupboard Series

EXCELLENT

- Cupboard load capacity: 800kg
- Shelf load capacity: 25kg (250mm deep); 50kg (345mm deep); 100kg (500mm deep)
- Drawer load capacity: 50kg
- The cupboards with drawers must be fixed to floor or to the wall
- Tools, hooks, storage bins etc. are not included
- Customization is available on customer request

Plastic Bin System		
Bin Size No.	Bin Size (mm)	Bin Color
1	O.D. - D170 (140) x W98 x H98 I.D. - D134 x W88 x H65	Blue
2	O.D. - D235 (200) x W148 x H110 I.D. - D190 x W124 x H91	Grey
3	O.D. - D340 (300) x W200 x H135 I.D. - D278 x W180 x H115	Grey

4-Shelf Cupboard



Order Code	Model	Cupboard Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
-13001B	No.1	1023 x 400 x 2000(h)	345(d) x 4	65

6-Shelf Cupboard

- Storage bins need to be purchased separately



Order Code	Model	Cupboard Dimensions (mm)	Shelf Configuration (mm)	Weight (exc. bins) (kg)
-13002B	No.3	1023 x 400 x 2000(h)	345(d) x 6	75

4-Shelf Visible Cupboard

- Door panels are made from high visible PC, 3mm thick



Order Code	Model	Cupboard Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
-13023B	No.2	1023 x 555 x 2000(h)	500(d) x 4	63

6-Shelf Visible Cupboard

- Door panels are made from high visible acrylic, 3mm thick



Order Code	Model	Cupboard Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
-13012B	No.9	1023 x 400 x 2000(h)	400(d) x 6	80

Cupboard with Full Perforated Panels and Single Shelf

- Constructed with perforated doors
- Load capacity per door: 40kg
- Shelf load capacity: 25kg



Order Code	Model	Cupboard Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS50	No.4	1023 x 400 x 2000(h)	250(d) x 1	68

Cupboard with Full Perforated Panels and 4 Shelves

- Constructed with perforated doors
- Load capacity per door: 40kg
- Shelf load capacity: 100kg



Order Code	Model	Cupboard Dimensions (mm)	Shelf Configuration (mm)	Weight (exc. bins) (kg)
TFWS50	No.5	1023 x 555 x 2000(h)	345(d) x 4	78

Cupboard with 3 Intermediate Drawers

- Shelf load capacity: 100kg



Order Code	Model	Cupboard Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS50	No.6	1023 x 555 x 2000(h)	500(d) x 4	110

3 Lower Drawer Cupboards with Perforated Panels

- Constructed with perforated doors
- Load capacity per door: 40kg
- Shelf load capacity: 25kg (250mm deep)
50kg (345mm deep)
100kg (500mm deep)



Order Code	Model	Cupboard Dimensions (mm)	Shelf Configuration (mm)	Bins (Qty. x Size)	Weight (exc. bins) (kg)
TFWS50	No.7	1023 x 555 x 2000(h)	250(d) x 4	N/A	125
			345(d) x 3		
TFWS50	No.8	1023 x 555 x 2000(h)	500(d) x 1	40 x No.1	125
			250(d) x 4	44 x No.2	
			345(d) x 3	16 x 3A2	
			500(d) x 1		

TEMOTUF™ Professional Series of Heavy Duty Parts Storage Cabinets

EXCELLENT

- Made of thick gauge steel for excellent quality
- The cabinets must be fixed to floor or to the wall
- Supplied with plastic storage bins
- Customization is available on customer request

6-Shelf Parts Storage Cabinet

- Cabinet load capacity: 450kg
- Shelf load capacity: 50kg
- Bins included:
Blue, No.1 x 24pcs
Grey, No.2 x 12pcs
Please see P176 for specifications of bins



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS52				
-20405C	No.1	700 x 270 x 1000(h)	235(d) x 6	40

12-Shelf Parts Storage Cabinet with Doors

- Cabinet load capacity: 500kg
- Shelf load capacity: 50kg
- Bins included:
Blue, No.1 x 42pcs
Grey, No.2 x 24pcs
Please see P176 for specifications of bins



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS52				
-10665C	No.4	700 x 270 x 1750(h)	235(d) x 12	95

6-Shelf Parts Storage Cabinet with Doors

- Cabinet load capacity: 450kg
- Shelf load capacity: 50kg
- Bins included:
Blue, No.1 x 24pcs
Grey, No.2 x 12pcs
Please see P176 for specifications of bins



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS52				
-10405C	No.2	700 x 270 x 1000(h)	235(d) x 6	55

15-Shelf Parts Storage Cabinet

- Cabinet load capacity: 500kg
- Shelf load capacity: 50kg
- Bins included:
Blue, No.1 x 54pcs
Grey, No.2 x 28pcs
Please see P176 for specifications of bins



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS52				
-20805C	No.5	700 x 270 x 2000(h)	235(d) x 15	95

12-Shelf Parts Storage Cabinet

- Cabinet load capacity: 500kg
- Shelf load capacity: 50kg
- Bins included:
Blue, No.1 x 42pcs
Grey, No.2 x 24pcs
Please see P176 for specifications of bins



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS52				
-20665C	No.3	700 x 270 x 1750(h)	235(d) x 12	85

15-Shelf Parts Storage Cabinet with Doors

- Cabinet load capacity: 500kg
- Shelf load capacity: 50kg
- Bins included:
Blue, No.1 x 54pcs
Grey, No.2 x 28pcs
Please see P176 for specifications of bins



Order Code	Model	Cabinet Dimensions (mm)	Shelf Configuration (mm)	Weight (kg)
TFWS52				
-10805C	No.6	700 x 270 x 2000(h)	235(d) x 15	110

Parts Storage Cabinets without Doors

- This steel parts storage cabinet is ideal for providing organized small parts storage in offices, warehouses, garages and factories
- Removable drawers with anti-drop structure to secure them when extended
- Dividable drawers allowing for convenient storage of various-sized items
- Customization is available on customer request

30-drawer without doors



- Dimensions of plastic drawer:
Internal (mm): W148 x D291 x H74
External (mm): W151 x D312 x H78

Order Code	Drawer Colour	Cabinet Dimensions (mm)	Weight (kg)
TFWS34			
-20030B	Clear	W545 x D300 x H880	22
-21030B	Blue	W545 x D300 x H880	22

48-drawer without doors



- Dimensions of plastic drawer:
Internal (mm): W110 x D210 x H62
External (mm): W120 x D240 x H68

Order Code	Drawer Colour	Cabinet Dimensions (mm)	Weight (kg)
TFWS34			
-20048B	Clear	W600 x D220 x H940	19
-21048B	Blue	W600 x D220 x H940	19

75-drawer without doors



- Dimensions of plastic drawer:
Internal (mm): W96 x D195 x H47
External (mm): W101 x D220 x H52

Order Code	Drawer Colour	Cabinet Dimensions (mm)	Weight (kg)
TFWS34			
-20075B	Clear	W650 x D220 x H940	19
-21075B	Blue	W650 x D220 x H940	19

100-drawer without doors



- Dimensions of plastic drawer:
Internal (mm): W96 x D195 x H47
External (mm): W101 x D220 x H52

Order Code	Drawer Colour	Cabinet Dimensions (mm)	Weight (kg)
TFWS34			
-20100B	Clear	W650 x D220 x H1240	27
-21100B	Blue	W650 x D220 x H1240	27

Parts Storage Cabinets without Doors - Steel Drawers

- Built for industrial use, drawer construction made from cold-rolled steel for heavy objects, more resistant to wear
- Customization is available on customer request

30-steel-drawer without doors



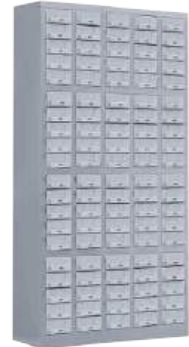
48-steel-drawer without doors



75-steel-drawer without doors



100-steel-drawer without doors



Order Code TFWS34	Drawer Material	Drawer Colour	Cabinet Dimensions (mm)	Drawer Dimensions (mm)		Weight (kg)
				Internal	External	
-22030B	Steel	Grey	W545 x D300 x H880	W148 x D291 x H74	W151 x D312 x H78	48
-22048B	Steel	Grey	W600 x D220 x H940	W115 x D212 x H65	W120 x D240 x H70	40
-22075B	Steel	Grey	W650 x D220 x H940	W96 x D195 x H47	W101 x D220 x H52	42
-22100B	Steel	Grey	W650 x D220 x H1240	W96 x D195 x H47	W101 x D220 x H52	58

Heavy Duty Parts Storage Cabinets with Doors

- This metal cabinet is made of 1.2mm heavy duty cold-rolled steel, sturdy and durable, resistant to rust and wear
- Drawers are made of impact resistant polypropylene for heavier parts and long lasting use
- Drawers are removable and with anti-drop structure to secure them when extended
- Drawers can be divided for convenient storage of various-sized items
- Customization is available on customer request

30-drawer with doors



- Dimensions of plastic drawer:
Internal (mm): W158 x D255 x H71
External (mm): W164 x D282 x H78
- Colour of plastic drawer: clear

75-drawer with doors



- Dimensions of plastic drawer:
Internal (mm): W95 x D193 x H42
External (mm): W101 x D220 x H47
- Colour of plastic drawer: clear

40-drawer with doors



- Dimensions of plastic drawer:
Internal (mm): W111 x D215 x H71
External (mm): W117 x D242 x H78
- Colour of plastic drawer: blue

Order Code TFWS34	Cabinet Dimensions (mm)	Weight (kg)
-10030A	W640 x D325 x H928	40

Order Code TFWS34	Cabinet Dimensions (mm)	Weight (kg)
-10075A	W626 x D267 x H935	45

Order Code TFWS34	Cabinet Dimensions (mm)	Weight (kg)
-11040A	W640 x D325 x H928	40

Low Profile CNC Toolholder Storage Cabinets

- Complimentary tool holders (tool holder configured as per customer request)
- Customization is available on customer request

Model 1

- Dimensions: W717 x D725 x H1000mm
- Drawer Configuration:
1 x tool holder storage (H150mm)
2 x cutting tool storages (H100mm)



Order Code: **TFWS35-10001C**

Model 2

- Dimensions: W1150 x D600 x H1000mm
- Drawer Configuration:
1 x tool holder storage (H150mm)
1 x cutting tool storages (H100mm)



Order Code: **TFWS35-10002C**

Model 3

- Dimensions: W717 x D725 x H1000mm
- Drawer Configuration:
2 x tool holder storages (H150mm)
2 x cutting tool storages (H100mm)



Order Code: **TFWS35-10003C**

CNC Toolholder Storage Cabinets

- Complimentary tool holders (tool holder configured as per customer request)
- Customization is available on customer request

Model 1

- Dimensions: W1000 x D600 x H1800mm
- Drawer Configuration:
4 x tool holder storages



Order Code: **TFWS35-10201C**

Model 2

- Dimensions: W1000 x D600 x H2000mm
- 18 x tool carriers
- 2 x cutting tool storages (W500*H100mm)



Order Code: **TFWS35-10202C**

Model 3

- Dimensions: W1100 x D600 x H1800mm
- 8 x tool carriers
- 3 x adjustable shelves



Order Code: **TFWS35-10203C**

Heavy Duty CNC Toolholder Storage Cabinets

- Made of 1.0mm sheet metal
- Black/grey powder painting for corrosion and rust assistance
- BT50 toolholders are pre-installed as standard
- More combinations of tool holders are available on customers' requests

Order Code	Dimensions (mm)	Tool Storage Capacity	Type of Toolholder
-71050Z	W1000 x D500 x H1000	3 x 8pcs	BT50
-72050Z	W1200 x D600 x H1500	3 x 8pcs	BT50
-73050Z	W1000 x D1000 x H1000	3 x 10pcs	BT50



CNC Tool Storage Cupboard with 2 Central Drawers

- Multi-functional cupboard to store tool holders, cutting tools, hand tools, power tools and PPE etc.
- Constructed with 2 tool holder shelves, 21 pots of BT40 per shelf, 42 slots in total
- Customization is available on customer request



Order Code	Cupboard Dimensions (mm)	Numbers of Tool Holder Shelves	Tool Holder Configuration per Shelf	Weight (kg)
TFWS35				
-10204C	1000 x 500 x 1800(h)	2	21 Slots x BT40	98

CNC Tool Storage Cupboards

- Tool holder made of ABS material that has excellent resistance to oil and skid
- Customization is available on customer request

With Doors



Without Doors



Dimensions W x D x H(mm)	Type of Tool Holder	Storage Capacity	With Doors	Without Doors
			Order Code TFWS35	Order Code TFWS35
738 x 526 x 1800	BT30	36	-13036A	-21030C
738 x 526 x 1800	BT40	30	-14030A	-21040C
738 x 526 x 1800	BT50	25	-15024A	-21050C
738 x 526 x 1800	HSK63	30	-16330B	-21063C
738 x 526 x 1800	HSK80	24	-18024B	-21080C
738 x 526 x 1800	HSK100	24	-10024B	-21100C

CNC Toolholder Racks

- Complimentary tool holders
- Customization is available on customer request

Trolley Type

- Tool holder made of ABS material that has excellent resistance to oil and skid
- Rack dimensions: W700 x D530 x H1250mm
- Equipped with 4" PU casters: 2 fixed + 2 universal with brakes



Stationary Type

- Tool holder made of ABS material that has excellent resistance to oil and skid
- Rack dimensions: W700 x D530 x H1150mm



Numbers of Tool Carriers	Storage Capacity	Trolley Type	Stationary Type
		Order Code TFWS35	Order Code TFWS35
5	BT30 x 40	-23040A	-23040B
5	BT40 x 30	-24030A	-24030B
5	BT50 x 20	-25020A	-25020B
5	HSK63 x 30	-26330A	-26330B
5	HSK80 x 25	-28025A	-28025B
5	HSK100 x 20	-20020A	-20020B

CNC Toolholder Storage Carts

- Equipped with 4" PU casters: 2 fixed + 2 universal with brakes
- Adjustable tool carriers with ear handles for safer mounting
- Supplied with standard tool holders
- Customization is available on customer request

Model 1

- Dimensions:
W1100 x D600 x H880mm



Order Code TFWS35	Storage Capacity of Top Tray	Storage Capacity of Each Carrier	Numbers of Carriers	Storage Capacity of Cart
-41030C	BT30 x 33	BT30 x 6	NB30 x 2	BT30 x 45
-41040C	BT40 x 33	BT40 x 5	NB40 x 2	BT40 x 43
-41050C	BT50 x 23	BT50 x 4	NB50 x 2	BT50 x 31
-41063C	HSK63 x 33	HSK63 x 5	NH63 x 2	HSK63 x 43
-41080C	HSK80 x 23	HSK80 x 4	NH80 x 2	HSK80 x 31
-41100C	HSK100 x 23	HSK100 x 4	NH100 x 2	HSK100 x 31

Model 2

- Dimensions:
W717 x D572 x H880mm
- Adjustable shelf



Order Code TFWS35	Storage Capacity of Top Tray
-42030C	BT30 x 24
-42040C	BT40 x 24
-42050C	BT50 x 20
-42063C	HSK63 x 24
-42080C	HSK80 x 20
-42100C	HSK100 x 20

Model 3

- Dimensions:
W1060mm
D600mm
H800mm



Order Code TFWS35	Storage Capacity of Each Carrier	Numbers of Carriers	Storage Capacity of Cart
-43030C	BT30 x 6	5	BT30 x 30
-43040C	BT40 x 5	5	BT40 x 25
-43050C	BT50 x 4	5	BT50 x 20
-43031C	HSK30 x 6	5	HSK30 x 30
-43063C	HSK63 x 5	5	HSK63 x 25
-43080C	HSK80 x 4	5	HSK80 x 20
-43100C	HSK100 x 4	5	HSK100 x 20

CNC Toolholder Trolleys with Drawers

- Equipped with 4" PU casters: 2 fixed + 2 universal with brakes
- Supplied with standard tool holders
- Customization is available on customer request

Model 1

- Drawer configuration:
100mm height (small): 2pcs
400mm height (big): 1pc



Order Code TFWS35	Trolley Size (mm)	Storage Capacity of Top Tray	Storage Capacity of Big Drawer	Storage Capacity of Trolley
-30130C	Width: 570 Depth: 600 Height: 985	BT30 x 25	BT30 x 16	BT30 x 41
-30140C		BT40 x 25	BT40 x 16	BT40 x 41
-30150C		BT50 x 16	BT50 x 10	BT50 x 26
-30163C	Width: 985	HSK63 x 25	HSK63 x 16	HSK63 x 41
-30180C		HSK80 x 16	HSK80 x 10	HSK80 x 26
-30230C	Width: 723 Depth: 600 Height: 985	BT30 x 30	BT30 x 23	BT30 x 53
-30240C		BT40 x 30	BT40 x 23	BT40 x 53
-30250C		BT50 x 20	BT50 x 14	BT50 x 34
-30263C	Width: 985	HSK63 x 30	HSK63 x 23	HSK63 x 53
-30280C		HSK80 x 20	HSK80 x 14	HSK80 x 34

Model 2

- Drawer configuration:
100mm height (small): 1pc
400mm height (big): 2pcs



Order Code TFWS35	Trolley Size (mm)	Storage Capacity of Top Tray	Storage Capacity of Big Drawers	Storage Capacity of Trolley
-30330C	Width: 570 Depth: 600 Height: 1285	BT30 x 25	BT30 x 32	BT30 x 57
-30340C		BT40 x 25	BT40 x 32	BT40 x 57
-30350C		BT50 x 16	BT50 x 20	BT50 x 36
-30363C	Width: 1285	HSK63 x 25	HSK63 x 32	HSK63 x 57
-30380C		HSK80 x 16	HSK80 x 20	HSK80 x 36
-30430C	Width: 723 Depth: 600 Height: 1285	BT30 x 30	BT30 x 46	BT30 x 76
-30440C		BT40 x 30	BT40 x 46	BT40 x 76
-30450C		BT50 x 20	BT50 x 28	BT50 x 48
-30463C	Width: 1285	HSK63 x 30	HSK63 x 46	HSK63 x 76
-30480C		HSK80 x 20	HSK80 x 28	HSK80 x 48

TEMOTUF™ Professional Series of Heavy Duty Tool Storage System
EXCELLENT

- Tool holder system configuration



Type of Tool Holder	Order Code TFWS55	1# Storage Capacity	2# Storage Capacity	3# Storage Capacity
ISO30	-95100D	7	24	36
ISO40	-95300D	5	18	36
ISO50	-95500D	4	12	24
BT30	-93100D	7	24	36
BT40	-93200D	5	18	36
BT50	-93300D	4	12	24
MT2	-97200D	7	24	36
MT3	-97300D	7	24	36
MT4	-97400D	7	24	36
MT5	-97500D	5	18	30
HSK A32-B40	-92100D	7	24	36
HSK A40-B50	-92200D	7	24	36
HSK A50-B63	-92300D	5	18	30
HSK A63-B80	-92400D	5	18	30
HSK A80-B100	-92500D	4	12	24
HSK A100-B125	-92600D	4	12	24

- Customization is available on customer request

Tool Storage Trolley with 5 Tool Carriers

- Welding structure for extreme sturdiness and stability
- Trolley load capacity: 500kg
- Supplied with a side tool tray with a rubber mat
- Supplied with 4" rubber casters: 2 fixed + 2 universal with brakes
- **Tool holders are not included**
- Customization is available on customer request



Order Code TFWS55	Model	Dimensions (mm)	Tool Carrier Qty. (#1 Configuration)	Weight (kg)
-10010A	No.1	1064 x 512 x 890(h)	5	40

(Optional) 5-Module Tool Holder Set

Order Code TFWS55	Types of Tool Holder	Tool Carrier Qty. (#1 Configuration)	Storage Capacity of Each Carrier	Storage Capacity of Set
-90510D	BT30	1	6	26
	BT40	2	5	
	BT50	2	5	

Tool Storage Trolley with 7 Tool Carriers

- Welding structure for extreme sturdiness and stability
- Trolley load capacity: 500kg
- Supplied with a side tool tray with a rubber mat
- Supplied with 4" rubber casters: 2 fixed + 2 universal with brakes
- **Tool holders are not included**
- Customization is available on customer request



Order Code TFWS55	Model	Dimensions (mm)	Tool Carrier Qty. (#1 Configuration)	Weight (kg)
-10015A	No.2	1064 x 512 x 890(h)	7	50

(Optional) 7-Module Tool Holder Set

Order Code TFWS55	Type of Tool Holder	Tool Carrier Qty. (#1 Configuration)	Storage Capacity of Each Carrier	Storage Capacity of Set
-90715D	BT30	1	6	36
	BT40	3	5	
	BT50	3	5	

Combination Tool Storage Trolley with 8 Tool Carriers

- Welding structure for extreme sturdiness and stability
- Trolley load capacity: 350kg
- Supplied with 3 adjustable shelves with rubber mats
- Supplied with 1 drawer
- Supplied with 4" rubber casters: 2 fixed + 2 universal with brakes
- **Tool holders are not included**
- Customization is available on customer request



Order Code TFWS55	Model	Dimensions (mm)	Tool Carrier Qty. (#1 Configuration)	Weight (kg)
-60006A	No.3	1073 x 685 x 890(h)	8	75

(Optional) 8-Module Tool Holder Set

Order Code TFWS55	Type of Tool Holder	Tool Carrier Qty. (#1 Configuration)	Storage Capacity of Each Carrier	Storage Capacity of Set
-90806D	BT30	1	6	37
	BT40	2	5	
	BT50	2	5	
	HSK63	1	5	
	HSK100	2	3	

Tool Storage Cupboard with 4 Tool Carriers

- Cupboard load capacity: 800kg
- Shelf load capacity: 150kg
- **Tool holders are not included**
- Customization is available on customer request



Order Code TFWS55	Model	Dimensions (mm)	Tool Carrier Qty. (#3 Configuration)	Weight (kg)
-14001B	No.4	1023 x 555 x 2000(h)	4	85

Visible Tool Storage Cupboard with 4 Tool Carriers

- 3mm high visible acrylic doors for direct monitoring
- Cupboard load capacity: 800kg
- Shelf load capacity: 150kg
- **Tool holders are not included**
- Customization is available on customer request



Order Code TFWS55	Model	Dimensions (mm)	Tool Carrier Qty. (#3 Configuration)	Weight (kg)
-14020B	No.5	1023 x 555 x 2000(h)	4	80

TEMOTUF™ Professional Series EXCELLENT of Heavy Duty Double-Section Working Benches

- 50mm thick beechwood worktop
- 50mm thick multiplex worktop
- Customization is available on customer request

Standard Type



Order Code TFWS56	Type	Dimensions (mm)	Capacity (kg)	Worktop Material	Worktop Structure
-48401L	No.1	2500 x 750 x 800(h)	1000	Beechwood	1-Piece
-48407L	No.2	2500 x 750 x 800(h)	1000	Multiplex	1-Piece
-58401L	No.3	2500 x 850 x 800(h)	1000	Beechwood	1-Piece
-58407L	No.4	2500 x 850 x 800(h)	1000	Multiplex	1-Piece
-49801L	No.5	3000 x 750 x 800(h)	800	Beechwood	1-Piece
-49807L	No.6	3000 x 750 x 800(h)	800	Multiplex	2 x 1500mm Jointed
-58901L	No.7	3000 x 800 x 800(h)	800	Beechwood	1-Piece
-58907L	No.8	3000 x 800 x 800(h)	800	Multiplex	2 x 1500mm Jointed

Single Suspension Cabinet Type

- Drawer configuration: 1 x 50mm, 1 x 100mm, 1 x 150mm(h)
- Drawers: normal extension, 87% opening



Order Code TFWS56	Type	Dimensions (mm)	Capacity (kg)	Worktop Material	Worktop Structure
-48404L	No.9	2500 x 750 x 800(h)	1000	Beechwood	1-Piece
-48409L	No.10	2500 x 750 x 800(h)	1000	Multiplex	1-Piece
-58404L	No.11	2500 x 800 x 800(h)	1000	Beechwood	1-Piece
-58409L	No.12	2500 x 800 x 800(h)	1000	Multiplex	1-Piece
-49804L	No.13	3000 x 750 x 800(h)	800	Beechwood	1-Piece
-49809L	No.14	3000 x 750 x 800(h)	800	Multiplex	2 x 1500mm Jointed
-58904L	No.15	3000 x 800 x 800(h)	800	Beechwood	1-Piece
-58909L	No.16	3000 x 800 x 800(h)	800	Multiplex	2 x 1500mm Jointed

Pedestal Type - Single Cabinet

- Drawer configuration: 1 x 100mm, 1 x 150mm(h)
- Drawers: normal extension, 87% opening
- Bottom shelf: normal extension, 87% opening
- Storage compartment: 450mm(h)



Order Code TFWS56	Type	Dimensions (mm)	Capacity (kg)	Worktop Material	Worktop Structure
-49822L	No.17	3000 x 750 x 850(h)	800	Beechwood	1-Piece
-49827L	No.18	3000 x 750 x 850(h)	800	Multiplex	2 x 1500mm Jointed
-59822L	No.19	3000 x 800 x 850(h)	800	Beechwood	1-Piece
-59827L	No.20	3000 x 800 x 850(h)	800	Multiplex	2 x 1500mm Jointed

Pedestal Type - Twin Cabinets

- Left cabinet drawer configuration:
1 x 50mm, 2 x 100mm, 1 x 150mm, 1 x 200mm(h)
- Right cabinet drawer configuration:
4 x 75mm, 1 x 100mm, 1 x 200mm(h)
- Drawers: normal extension, 87% opening



Order Code TFWS56	Type	Dimensions (mm)	Capacity (kg)	Worktop Material	Worktop Structure
-49816L	No.21	3000 x 750 x 850(h)	800	Beechwood	1-Piece
-49817L	No.22	3000 x 750 x 850(h)	800	Multiplex	2 x 1500mm Jointed
-59816L	No.23	3000 x 800 x 850(h)	800	Beechwood	1-Piece
-59817L	No.24	3000 x 800 x 850(h)	800	Multiplex	2 x 1500mm Jointed

Combination Type

- Left cabinet configuration:
1 x 100mm(h) drawer
1 x 600mm(h) storage compartment
1 x extended bottom shelf
1 x height adjustable shelf
- Right cabinet configuration:
2 x 100mm(h) drawers
1 x 200mm(h) drawer
1 x 300mm(h) drawer
- Drawers: normal extension, 87% opening



Order Code TFWS56	Type	Dimensions (mm)	Capacity (kg)	Worktop Material	Worktop Structure
-48428L	No.25	2400 x 750 x 800(h)	1000	Beechwood	
-48427L	No.26	2400 x 750 x 800(h)	1000	Multiplex	
-58428L	No.27	3000 x 800 x 800(h)	1000	Beechwood	

TEMOTUF™ Professional Series of Heavy Duty Combination EXCELLENT Workstations

- 40mm thick beechwood worktop
- 50mm thick multiplex worktop
- Customization is available on customer request

Type A



Order Code TFWS57	Type	Dimensions (mm)	Drawer Configuration (mm)	Cabinet Configuration (mm)	Shelf Qty.	Load Capacity (kg)	Worktop Material
-22420A	A01	1500 x 750 x 865(h)	150(h) x 1 (100% extension)	450(h) x 1	1	1000	Beechwood
-22427A	A02	1500 x 750 x 865(h)	150(h) x 1 (100% extension)	450(h) x 1	1	1000	Multiplex

Type B



Order Code TFWS57	Type	Dimensions (mm)	Drawer Configuration (mm)	Cabinet Configuration (mm)	Load Capacity (kg)	Worktop Material
-22420B	B01	1500 x 750 x 865(h)	150(h) x 1 75(h) x 2 (100% extension)	450(h) x 2	1000	Beechwood
-22427B	B02	1500 x 750 x 865(h)	150(h) x 1 75(h) x 2 (100% extension)	450(h) x 2	1000	Multiplex

Type C



Order Code TFWS57	Type	Dimensions (mm)	Drawer Configuration (mm)	Load Capacity (kg)	Worktop Material
-22420C	C01	1500 x 750 x 865(h)	100(h) x 2 200(h) x 2 300(h) x 2 (100% extension)	1000	Beechwood
-22427C	C02	1500 x 750 x 865(h)	100(h) x 2 200(h) x 2 300(h) x 2 (100% extension)	1000	Multiplex

Type D



Order Code TFWS57	Type	Dimensions (mm)	Drawer Configuration (mm)	Cabinet Configuration (mm)	Shelf Qty.	Load Capacity (kg)	Worktop Material
-22430D	D01	2000 x 750 x 865(h)	150(h) x 1 (100% extension)	600(h) x 1 450(h) x 1	1	1000	Beechwood
-22437D	D02	2000 x 750 x 865(h)	150(h) x 1 (100% extension)	600(h) x 1 450(h) x 1	1	1000	Multiplex

Type E



Order Code TFWS57	Type	Dimensions (mm)	Drawer Configuration (mm)	Cabinet Configuration (mm)	Shelf Qty.	Load Capacity (kg)	Worktop Material
-22430E	E01	2000 x 750 x 865(h)	75(h) x 4 100(h) x 1 200(h) x 1 (100% extension)	600(h) x 2	2	1000	Beechwood
-22437E	E02	2000 x 750 x 865(h)	75(h) x 4 100(h) x 1 200(h) x 1 (100% extension)	600(h) x 2	2	1000	Multiplex

Type F



Order Code TFWS57	Type	Dimensions (mm)	Drawer Configuration (mm)	Cabinet Configuration (mm)	Load Capacity (kg)	Worktop Material
-22430F	F01	2000 x 750 x 865(h)	75(h) x 2 150(h) x 2 (100% extension)	450(h) x 3	1000	Beechwood
-22437F	F02	2000 x 750 x 865(h)	75(h) x 2 150(h) x 2 (100% extension)	450(h) x 3	1000	Multiplex

Type G



Order Code TFWS57	Type	Dimensions (mm)	Drawer Configuration (mm)	Cabinet Configuration (mm)	Shelf Qty.	Load Capacity (kg)	Worktop Material
-22440G	G01	2400 x 750 x 865(h)	100(h) x 2 200(h) x 2 300(h) x 2 (100% extension)	600(h) x 2	2	2000	Beechwood
-22447G	G02	2400 x 750 x 865(h)	100(h) x 2 200(h) x 2 300(h) x 2 (100% extension)	600(h) x 2	2	2000	Multiplex

Type H



Order Code TFWS57	Type	Dimensions (mm)	Drawer Configuration (mm)	Cabinet Configuration (mm)	Load Capacity (kg)	Worktop Material
-22440H	H01	2400 x 750 x 865(h)	150(h) x 4 (100% extension)	450(h) x 4	2000	Beechwood
-22447H	H02	2400 x 750 x 865(h)	150(h) x 4 (100% extension)	450(h) x 4	2000	Multiplex

Type J



Order Code TFWS57	Type	Dimensions (mm)	Drawer Configuration (mm)	Cabinet Configuration (mm)	Shelf Qty.	Load Capacity (kg)	Worktop Material
-22450J	J01	3000 x 750 x 865(h)	100(h) x 1 200(h) x 1 300(h) x 1 (100% extension)	600(h) x 2	4	2000	Beechwood

Type K



Order Code TFWS57	Type	Dimensions (mm)	Drawer Configuration (mm)	Cabinet Configuration (mm)	Shelf Qty.	Load Capacity (kg)	Worktop Material
-22450K	K01	3000 x 750 x 865(h)	75(h) x 2 100(h) x 2 150(h) x 1 200(h) x 2 (100% extension)	600(h) x 2 450(h) x 2	2	2000	Beechwood

TEMOTUF™ Professional Heavy Duty Mobile Workstations

EXCELLENT

- 30mm thick beechwood worktop
- 50mm thick multiplex worktop
- Interlocking mechanism
- 4" rubber casters: 2 fixed + 2 universal with brakes
- Customization is available on customer request

Type A

- Workstation load capacity: 250kg



Order Code TFWS58	Type	Dimensions (mm)	Drawer Configuration (mm)	Cabinet Configuration (mm)	Shelf Qty.	Drawer Load Capacity (kg)	Worktop Material
-32001A	A11	860 x 600 x 877(h)	100(h) x 2 200(h) x 2 (100% extension)	600(h) x 1	1 x Height Adj.	70	Beechwood
-32007A	A12	860 x 600 x 877(h)	100(h) x 2 200(h) x 2 (100% extension)	600(h) x 1	1 x Height Adj.	70	Multiplex
-42001A	A13	995 x 600 x 910(h)	100(h) x 2 200(h) x 2 (100% extension)	600(h) x 1	1 x Height Adj.	70	Beechwood
-42007A	A14	995 x 600 x 910(h)	100(h) x 2 200(h) x 2 (100% extension)	600(h) x 1	1 x Height Adj.	70	Multiplex
-51001A	A15	1150 x 700 x 915(h)	100(h) x 2 200(h) x 2 (100% extension)	600(h) x 1	1 x Height Adj.	70	Beechwood
-51007A	A16	1150 x 700 x 915(h)	100(h) x 2 200(h) x 2 (100% extension)	600(h) x 1	1 x Height Adj.	70	Multiplex
-61001A	A17	1227 x 700 x 910(h)	100(h) x 2 200(h) x 2 (100% extension)	600(h) x 1	1 x Height Adj.	70	Beechwood
-61007A	A18	1227 x 700 x 910(h)	100(h) x 2 200(h) x 2 (100% extension)	600(h) x 1	1 x Height Adj.	70	Multiplex

Type B

- Workstation load capacity: 250kg



Order Code TFWS58	Type	Dimensions (mm)	Drawer Configuration (mm)	Shelf Qty.	Drawer Load Capacity (kg)	Worktop Material
-32004B	B11	937 x 600 x 910(h)	100(h) x 2 200(h) x 2 (100% extension)	1 x Height Adj.	70	Beechwood
-32007B	B12	937 x 600 x 910(h)	100(h) x 2 200(h) x 2 (100% extension)	1 x Height Adj.	70	Multiplex
-42004B	B13	1072 x 600 x 910(h)	100(h) x 2 200(h) x 2 (100% extension)	1 x Height Adj.	70	Beechwood
-42007B	B14	1072 x 600 x 910(h)	100(h) x 2 200(h) x 2 (100% extension)	1 x Height Adj.	70	Multiplex
-51004B	B15	1227 x 700 x 915(h)	100(h) x 2 200(h) x 2 (100% extension)	1 x Height Adj.	70	Beechwood
-51007B	B16	1227 x 700 x 915(h)	100(h) x 2 200(h) x 2 (100% extension)	1 x Height Adj.	70	Multiplex

TEMOTUF™ Professional Series of Plastic Storage Bin Trolleys

EXCELLENT

- Premium quality for industrial applications
- Powder spraying frame, impact resistant bins, heavy-duty casters (2 with brakes)
- Customization is available on customers request

Type D - Double Sides

- Bins compatible: 200 of size 1
Please see P176 for specifications of bins



Order Code	Type	Dimensions (mm)	Row Quantity	Bin Quantity	Load Capacity (kg)
TFWS60					
-04001D	D71	1207 x 540 x 1530(h)	10	0	300
-04051D	D72	1207 x 540 x 1530(h)	10	200	300

Type F - Double Sides

- Bins compatible: 36 of size 1; 16 of size 2; 12 of size 3
Please see P176 for specifications of bins



Order Code	Type	Dimensions (mm)	Row Quantity	Bin Quantity	Load Capacity (kg)
TFWS60					
-02003F	F71	805 x 655 x 1395(h)	7	0	300
-02053F	F72	805 x 655 x 1395(h)	7	64	300

Type E - Double Sides

- Bins compatible: 100 of size 1; 56 of size 2
Please see P176 for specifications of bins



Order Code	Type	Dimensions (mm)	Row Quantity	Bin Quantity	Load Capacity (kg)
TFWS60					
-04002E	E71	1207 x 540 x 1530(h)	9	0	300
-04052E	E72	1207 x 540 x 1530(h)	9	156	300

Type G - Double Sides

- Bins compatible: 60 of size 1; 24 of size 2
Please see P176 for specifications of bins



Order Code	Type	Dimensions (mm)	Row Quantity	Bin Quantity	Load Capacity (kg)
TFWS60					
-02002G	G71	805 x 655 x 1395(h)	8	0	300
-02052G	G72	805 x 655 x 1395(h)	8	84	300

TEMOTUF™ Professional Series of Plastic Storage Bin Trolleys

EXCELLENT

- Premium quality for industrial applications
- Powder spraying frame, impact resistant bins, heavy-duty casters
- Customization is available on customers request

Type A - Single Side

- Storage bins compatible (A71, A72):
O.D. - D500(450) x W300 x H200(mm)
I.D. - D430 x W270 x H180(mm)
- Storage bins compatible (A73, A74):
O.D. - D500(450) x W300 x H145(mm)
I.D. - D430 x W270 x H120(mm)

Order Code TFWS60	Type	Dimensions (mm)	Row Quantity	Bin Quantity	Load Capacity (kg)
-15613A	A71	1425 x 525 x 1490(h)	5	0	500
-15619A	A72	1425 x 525 x 1490(h)	5	20	500
-15617A	A73	1425 x 525 x 1490(h)	6	0	500
-15618A	A74	1425 x 525 x 1490(h)	6	24	500



Type B - Single Side

- Storage boxes compatible (B71, B72):
O.D. - D600 x W400 x H175(mm)
I. D. - D565 x W365 x H162(mm)
- Storage boxes compatible (B73, B74):
O.D. - D600 x W400 x H230(mm)
I.D. - D565 x W365 x H217(mm)

Order Code TFWS60	Type	Dimensions (mm)	Row Quantity	Bin Quantity	Load Capacity (kg)
-20612B	B71	1425 x 625 x 1590(h)	4	0	500
-20614B	B72	1425 x 625 x 1590(h)	4	12	500
-20615B	B73	1425 x 625 x 1590(h)	3	0	500
-20616B	B74	1425 x 625 x 1590(h)	3	9	500



Type C - Double Sides

- Bins compatible: 98 of size 2
Please see P176 for specifications of bins

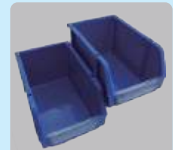
Order Code TFWS60	Type	Dimensions (mm)	Row Quantity	Bin Quantity	Load Capacity (kg)
-04003C	C71	1207 x 540 x 1530(h)	7	0	300
-04053C	C72	1207 x 540 x 1530(h)	7	98	300



All in 1 Plastic Storage Bins

- Industrial quality, strong and versatile
- Multi-ways to use: nesting, hanging, interlocking and stacking
- Can be hung on louver panels with holders
- Supplied with risers and label holders

Bin Size	Exterior Dimensions (mm)			Blue	Green	Red	Yellow
	Width	Depth	Height	Order Code TFWS70	Order Code TFWS70	Order Code TFWS70	Order Code TFWS70
T20	163	104	80	01020B	02020G	03020R	04020Y
T30	237	150	132	01030B	02030G	03030R	04030Y
T40	278	222	165	01040B	02040G	03040R	04040Y
T50	350	280	184	01050B	-	-	-

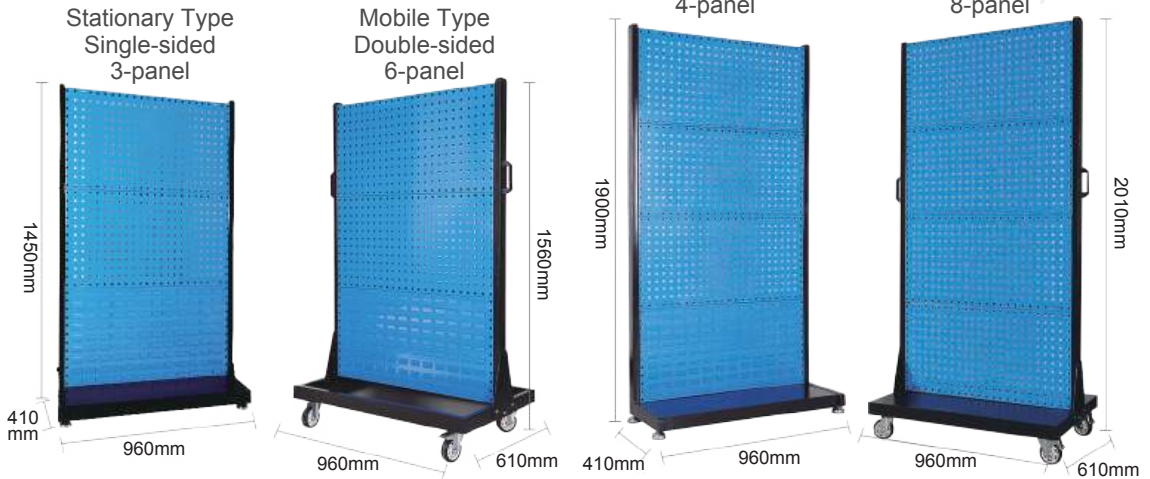


Tool Racks

- Made of galvanized cold-rolled steel, electrostatic spray coating, corrosion-resistant and paint does not peel off
- Designed to revolutionize your tool organization and maximize efficiency in your workspace. Our sturdy and versatile rack offers a practical solution for hanging and displaying various tools, ensuring easy accessibility and quick identification.
- With square hole panels (pegboards) and adjustable hooks, our display rack accommodates a wide range of tools, from wrenches and hammers to pliers and screwdrivers etc.
- With louver panels, our display rack is capable of hanging parts bins to accommodate various parts for your work needs
- Mobile type, equipped with a set of 4" PU casters: 2 fixed and 2 swivel (with brakes)
- Customizable according to customer requirements

Colour: Blue

(Other colours are available on demand)



Stationary Type Single-sided 3-panel

Order Code	Panel Configuration	
	Square Hole	Louwer
TFWS55		
-71303B		3
-71312B	1	2
-71321B	2	1
-71330B	3	

Mobile Type Double-sided 6-panel

Order Code	Panel Configuration	
	Square Hole	Louwer
TFWS55		
-82306B		6
-82324B	2	4
-82342B	4	2
-82360B	6	

Stationary Type Single-sided 4-panel

Order Code	Panel Configuration	
	Square Hole	Louwer
TFWS55		
-71404B		4
-71413B	1	3
-71422B	2	2
-71431B	3	1
-71440B	4	

Mobile Type Single-sided 8-panel

Order Code	Panel Configuration	
	Square Hole	Louwer
TFWS55		
-82408B		8
-82426B	2	6
-82444B	4	4
-82462B	6	2
-82480B	8	

Display Photos

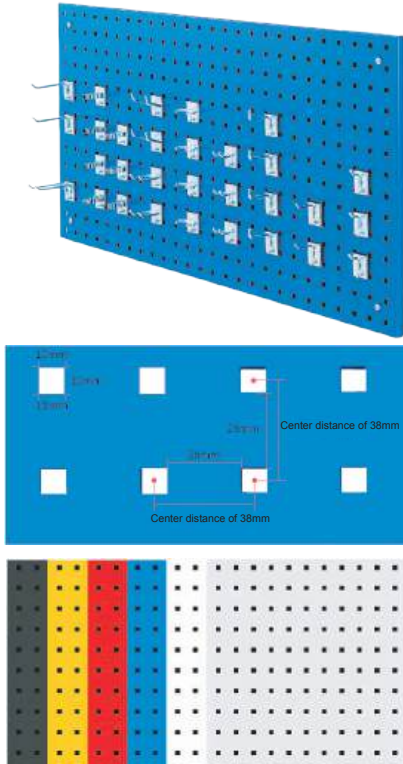
Multiple colours are available



Square Hole Tool Panels (Pegboards)

- Made of heavy gauge cold-rolled steel with powder coating for impact and wear resistance with nice appearance
- Multiple mounting methods: display racks, walls and workbenches etc.
- Multiple colours are available

** Double reinforcement ribs for 1500mm long panels
 ** Single reinforcement rib for 1200mm long panels



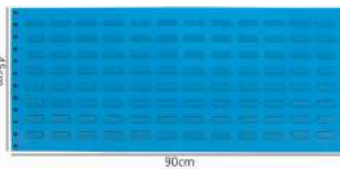
Panel Size (mm)	Panel Thickness (mm)	Blue Order Code TFWS55	Grey Order Code TFWS55	Black Order Code TFWS55	White Order Code TFWS55	Medium Yellow Order Code TFWS55	Orange Order Code TFWS55
500 x 350	1.0	-10503A	-20503A	-30503A	-40503A	-50503A	-60503A
500 x 400	1.0	-10506A	-20506A	-30506A	-40506A	-50506A	-60506A
600 x 350	1.0	-10603A	-20603A	-30603A	-40603A	-50603A	-60603A
600 x 400	1.0	-10606A	-20606A	-30606A	-40606A	-50606A	-60606A
750 x 350	1.0	-10703A	-20703A	-30703A	-40703A	-50703A	-60703A
750 x 400	1.0	-10706A	-20706A	-30706A	-40706A	-50706A	-60706A
900 x 450	1.2	-10903A	-20903A	-30903A	-40903A	-50903A	-60903A
900 x 450	1.5	-10906A	-20906A	-30906A	-40906A	-50906A	-60906A
900 x 450	1.7	-10909A	-20909A	-30909A	-40909A	-50909A	-60909A
1000 x 500	1.2	-11003A	-21003A	-31003A	-41003A	-51003A	-61003A
1000 x 500	1.5	-11006A	-21006A	-31006A	-41006A	-51006A	-61006A
1000 x 500	1.7	-11009A	-21009A	-31009A	-41009A	-51009A	-61009A
1200 x 450	1.2	-11203A	-21203A	-31203A	-41203A	-51203A	-61203A
1200 x 450	1.5	-11206A	-21206A	-31206A	-41206A	-51206A	-61206A
1200 x 450	1.7	-11209A	-21209A	-31209A	-41209A	-51209A	-61209A
1200 x 500	1.2	-11212A	-21212A	-31212A	-41212A	-51212A	-61212A
1200 x 500	1.5	-11215A	-21215A	-31215A	-41215A	-51215A	-61215A
1200 x 500	1.7	-11218A	-21218A	-31218A	-41218A	-51218A	-61218A
1500 x 450	1.2	-11503A	-21503A	-31503A	-41503A	-51503A	-61503A
1500 x 450	1.5	-11506A	-21506A	-31506A	-41506A	-51506A	-61506A
1500 x 450	1.7	-11509A	-21509A	-31509A	-41509A	-51509A	-61509A
1500 x 500	1.2	-11512A	-21512A	-31512A	-41512A	-51512A	-61512A
1500 x 500	1.5	-11515A	-21515A	-31515A	-41515A	-51515A	-61515A
1500 x 500	1.7	-11518A	-21518A	-31518A	-41518A	-51518A	-61518A

Louver Tool Panels

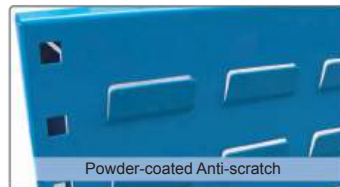
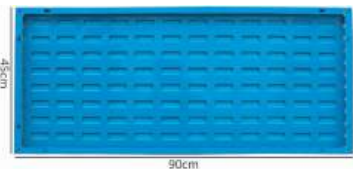
- Made of heavy gauge cold-rolled steel with powder coating for impact and wear resistance with nice appearance
- Multiple mounting methods: display racks, walls and workbenches etc.
- Multiple colours are available



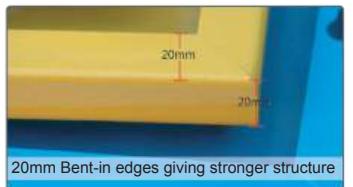
Front View



Back View



Powder-coated Anti-scratch

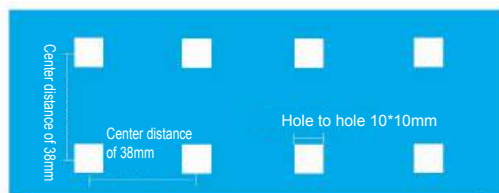


20mm Bent-in edges giving stronger structure

Panel Size (mm)	Panel Thickness (mm)	Blue Order Code TFWS55	Grey Order Code TFWS55	Black Order Code TFWS55	White Order Code TFWS55	Medium Yellow Order Code TFWS55	Orange Order Code TFWS55
900 x 450	1.4	-10904B	-20904B	-30904B	-40904B	-50904B	-60904B

Pegboard Tool Hooks & Holders

- Made of galvanized cold-rolled steel, high strength assurance, anti-rust
- Suitable for square hole panels (pegboard panels), hole size: 10*10mm, hole center distance: 38mm
- Please order according to MOQ (Minimum Order Quantity)



Single Angled Hook

- Suitable for tools such as wrenches, coils, sockets, etc.



Order Code TFWS55	L x Rod Dia. (mm)
-01050H	50 x Ø6
-01075H	75 x Ø6
-01100H	100 x Ø6
-01150H	150 x Ø6
-01200H	200 x Ø6

* MOQ: 10pcs per order code

Double Angled Hook

- Suitable for tools such as hammers, pliers, etc.



Order Code TFWS55	L x Rod Dia. (mm)
-02050H	50 x Ø6
-02075H	75 x Ø6
-02100H	100 x Ø6
-02150H	150 x Ø6
-02200H	200 x Ø6

* MOQ: 10pcs per order code

Single Straight Hook

- Suitable for tools such as wrenches, coils, sockets, etc.

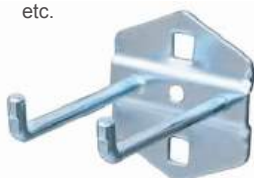


Order Code TFWS55	L x Rod Dia. (mm)
-04025H	25 x Ø6
-04050H	50 x Ø6
-04075H	75 x Ø6
-04100H	100 x Ø6

* MOQ: 10pcs per order code

Double Straight Hook

- Suitable for tools such as wrenches, coils, sockets, etc.



Order Code TFWS55	L x Rod Dia. (mm)
-05025H	25 x Ø6
-05050H	50 x Ø6
-05075H	75 x Ø6
-05100H	100 x Ø6
-05150H	150 x Ø6
-05200H	200 x Ø6

* MOQ: 10pcs per order code

U-shaped Hook

- Suitable for tools such as pliers, screwdrivers, hammers, etc.



Order Code TFWS55	L x W x Rod Dia. (mm)
-03351H	23 x 35 x Ø6
-03352H	70 x 35 x Ø6
-03550H	25 x 55 x Ø6

* MOQ: 10pcs per order code

6 Prong Pegboard Hook

- Suitable for tools such as coils, tapes, tape measures, etc.



Order Code TFWS55	L x Rod Dia. (mm)
-06235H	235 x Ø6

* MOQ: 10pcs per order code

Socket Holder

- Suitable for sockets etc.

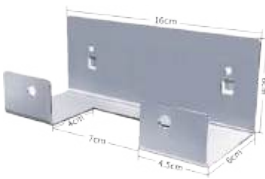


Order Code TFWS55	L x W x H (mm)
-07195H	129 x 27 x 44

* MOQ: 5pcs per order code

Pistol Drill Holder

- Suitable for hanging pistol drills



Order Code TFWS55	L x W x H (mm)
-26160H	160 x 60 x 60

* MOQ: 1pc per order code

Ring Hook

- Suitable for electric drills, hammers etc.



Order Code TFWS55	D (mm)
-08040H	Ø40
-08060H	Ø60
-08080H	Ø80

* MOQ: 10pcs per order code

Cable Hook

- Suitable for tools such as coils, tapes, tape measures, etc.



Order Code TFWS55	L x W x Rod Dia. (mm)
-09100H	100 x 60 x Ø6
-09150H	150 x 60 x Ø6
-09200H	200 x 60 x Ø6

* MOQ: 10pcs per order code

Hex Wrench Holder

- Suitable for hex wrenches, drill bits etc.



Order Code TFWS55	L x W x H (mm)
-10100H	100 x 20 x 90

* MOQ: 1pc per order code

Spanner Holder

- Suitable for spanners, screwdrivers, drill bits etc.



Order Code TFWS55	L (mm)
-11145H	145

* MOQ: 1pc per order code

Drill Bit Holder

- Suitable for drill bits etc.



Order Code	L x W x H (mm)	Hole Qty.	Drill Size (mm)
TFWS55		4	13.0
		1	11.0
		4	10.0
		1	9.0
-12390H	390 x 26 x 60	2	8.0
		3	6.5
		2	5.0
		2	4.0
		3	6.0

* MOQ: 1pc per order code

Hacksaw Holder

- Suitable for hacksaws etc.



Order Code	W x H (mm)
TFWS55	
-13075H	75 x 40

* MOQ: 5pcs per order code

Socket hook

- Suitable for sockets etc.



Order Code	L x Rod Dia. (mm)
TFWS55	
-14045H	45 x Ø6

* MOQ: 10pcs per order code

Pliers Holder

- Suitable for pliers etc.



Order Code	L1 x L2 x Rod Dia. (mm)
TFWS55	
-15150H	150 x 105 x Ø6

* MOQ: 10pcs per order code

Tubular Object Holder

- Suitable for tubular objects etc.



Order Code	D x W (mm)
TFWS55	
-16060H	60 x 30
-16100H	100 x 40

* MOQ: 10pcs per order code

Screwdriver Rack

- Suitable for screwdrivers etc.



Order Code	L x H1 x H2 (mm)
TFWS55	
-17370H	370 x 54 x 32

* MOQ: 1pc per order code

Parts Bin Holder

- Suitable for mounting storage parts bins on pegboards



Order Code	L (mm)
TFWS55	
-18095H	95

* MOQ: 10pcs per order code

Cylindrical Bottle Holder

- Suitable for spray cans, cylindrical bottles etc.



Order Code	L x W x H x D (mm)
TFWS55	
-19340H	342 x 80 x 75 x Ø70

* MOQ: 1pc per order code

Angle Grinder Holder

- Suitable for angle grinders etc.



Order Code	L x W x H (mm)
TFWS55	
-20190H	190 x 30 x 120

* MOQ: 1pc per order code

Hexagon Ring Holder

- Suitable for angle grinders, hand drills, T-handled wrenches etc.



Order Code	D (mm)
TFWS55	
-21060H	Ø60
-21080H	Ø80

* MOQ: 1pc per order code

Small Pegboard Shelf

- Suitable for various tools, small objects etc.



Order Code	L x W x H (mm)
TFWS55	
-22400H	400 x 100 x 60

* MOQ: 1pc per order code

Pen Holder

- Suitable for markers, wrenches, utility knives, scissors, screwdrivers and many small items



Order Code	L x W x H (mm)
TFWS55	
-23075H	75 x 65 x 120

* MOQ: 1pc per order code

Strong Magnetic Pegboard Holder

- Suitable for iron items such as hammers, pliers, spanners, screwdrivers etc.



Order Code	L x W (mm)
TFWS55	
-24300H	300 x 35

* MOQ: 1pc per order code

Paper Towel Holder

- Suitable for towels, rags, toilet rolls etc.

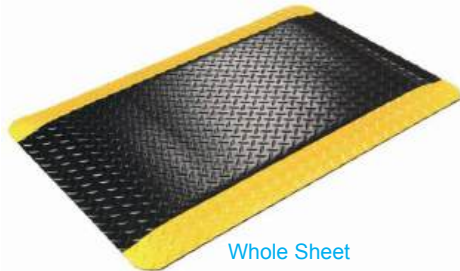


Order Code	L x Rod Dia. (mm)
TFWS55	
-25380H	380 x 10

* MOQ: 5pcs per order code

Compound Layers Anti-Fatigue Mats - Anti-Statics Type

- Widely used for full time standing person in workshops, auto assembly areas, warehouses, laboratories, malls, reception areas, airports, hospitals, kitchens, etc.
- This diamond-plate mat has a top layer of PVC, a bottom layer of rubber and an EPDM foam sand-witched layer in between, can provide unparalleled comfort and long life, resulting in enhanced employee productivity and morale
- Featured with anti-static, flame retardant, easy to clean, odorless
- **Customization is available on customer request**



Whole Sheet



Black/Yellow Edge



Silver/Yellow Edge



Black

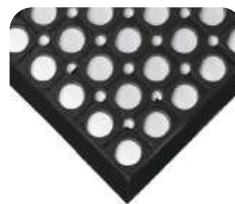


Blue

Type	Thickness (mm)	L x W (mm)	Order Code TFWS65	L x W (mm)	Order Code TFWS65
Black/Yellow	9	900 x 600	-09609A	600 x 450	-06409A
	12		-09612A		-06412A
	15		-09615A		-06415A
	20		-09620A		-06420A
	30		-09630A		-06430A
Silver/Yellow	9	900 x 600	-09609B	600 x 450	-06409B
	12		-09612B		-06412B
	15		-09615B		-06415B
	20		-09620B		-06420B
	30		-09630B		-06430B
Black	9	900 x 600	-09609C	600 x 450	-06409C
	12		-09612C		-06412C
	15		-09615C		-06415C
	20		-09620C		-06420C
	30		-09630C		-06430C
Blue	9	900 x 600	-09609D	600 x 450	-06409D
	12		-09612D		-06412D
	15		-09615D		-06415D
	20		-09620D		-06420D
	30		-09630D		-06430D

Nitrile Anti-Fatigue Mats - Cushion Link Open Top

- This ultimate matting provides outstanding ergonomic comfort and safety in heavy duty dry or wet industrial areas and catering kitchens
- Manufactured from the highest quality resilient rubber compounds, cushion link open top - 100% nitrile is resistant to extreme temperatures, oils, coolants, and most chemicals
- The adaptable open top design provides excellent drainage and swarf removal leaving the floor surface dry, clean, and safe
- The interlocking matting using a simple bevel system to create any size or shape, providing secure connectivity
- **Customization is available on customer request**



Standard



Interlocking

Order Code TFWS65	Type	Pattern	Colour	Dimensions (mm) L x W x D
-10478W	Standard		Black	1510 x 914 x 12.7
-10472W	Interlocking	Open Top	Black	914 x 914 x 12.5

ESD Bubble Anti-Fatigue Mats

- Made with 100% rubber for industrial and commercial use, compliant with ROHS standard
- Raised bubble patterned surface offers cushioning and resistance for muscle and joint comfort, perfect for jobs that require hours of standing
- Permanent ESD guaranteed with no depression even after long time using
- Surface resistance is equivalent to grounding resistance and they are both less than 100MΩ
- Patented interlocking design is easy for larger areas
- Manufactured to ANSI/ESD S20.20-2014 standard



Order Code TFWS65	Pattern	Colour	Dimensions (mm) L x W x D
-20950A	Bubble	Black	910 x 610 x 17
-20950B			450 x 610 x 17

Digital Weighing Platform Scales - Series 40

Product Features:

- Standard weighing function
- 304 stainless steel weighing pan
- Large white LED display, 360° visible
- Simple counting function
- Unit conversion: kg, g, lb
- Built-in upper and lower limit alarm function
- Low voltage alarm function
- Built-in screen saver for power saving
- Standard RS232 interface
- Standard printing function
- Dual power supply modes:
 - * AC 110V/220V (50-60Hz)
 - * Built-in 6V/4Ah lithium battery, making it more lightweight and providing extended standby time

Main Performance Features

- Units: g, ct, ...
- RS-232 serial port
- Counting function
- External CAL Function
- Printing Function
- Alarm Function
- Bluetooth Function
- Large Screen

Machine Model:
A85-W



Order Code	Platform Size (mm)	Weighing Range (kg)	Readability (g)	Test Accuracy (g)	Min. Weight (g)
-40060B	300*400	60	2	20	40
-40100B	300*400	100	5	50	100
-40150B	400*500	150	10	100	200
-40300B	450*600	300	20	200	400
-40600B	450*600	600	20	200	400

Digital Weighing Platform Scales - Series 41

Product Features:

- Compared to the 40 series, the product has wider expandability, especially with improved communication capabilities
- Standard weighing function
- 304 stainless steel weighing pan
- Large white LED display, 360° visible
- Simple counting function
 - Unit conversion: kg, g
 - Low voltage alarm function
 - Built-in screen saver for power saving
 - Standard RS232 interface, can also support RS485 (optional)
- Dual power supply modes:
 - * AC 110V/220V (50-60Hz)
 - * Built-in 3.7V/4Ah lithium battery, making it more lightweight and providing extended standby time
- Optional: bluetooth
- Optional: Modbus protocol, USB storage function
- Optional: external 2nd display

Main Performance Features

- Bluetooth Function
- External CAL Function
- RS-232/485 serial port
- Printing Function
- Counting function
- Alarm Function

Machine Model:
A95



Order Code	Platform Size (mm)	Weighing Range (kg)	Readability (g)	Test Accuracy (g)	Min. Weight (g)
-41060B	300*400	60	2	20	40
-41100B	300*400	100	5	50	100
-41150B	400*500	150	10	100	200
-41300B	450*600	300	20	200	400
-41600B	450*600	600	20	200	400

Full Stainless Steel Digital Weighing Platform Scales - Series 42

Product Features:

- Full 304 stainless steel construction including of display unit, platform, pan, column, beam, T-shaped bracket etc. Allowing the display unit to be mounted on the scale beam or on the wall, making space saving and easier cleaning
- Green LED display, 360° visible
- Simple counting function
- Unit conversion: kg, g
 - Low voltage alarm function
 - Built-in screen saver for power saving
 - Standard RS232 interface, can also support RS485 (optional)
 - Dual power supply modes:
 - * AC 110V/220V (50-60Hz)
 - * Built-in 3.7V/4Ah lithium battery, making it more lightweight and providing extended standby time

Machine Model:
S96



Order Code	Platform Size (mm)	Weighing Range (kg)	Readability (g)	Test Accuracy (g)	Min. Weight (g)
-42060B	300*400	60	2	20	40
-42100B	300*400	100	5	50	100
-42150B	400*500	150	10	100	200
-42300B	450*600	300	20	200	400
-42600B	450*600	600	20	200	400

Main Performance Features

- Bluetooth Function
- Printing Function
- RS-232/485 serial port
- Alarm Function
- Counting function
- Bluetooth Function
- External CAL Function
- Large Screen

Digital Counting Platform Scales - Series 50

Product Features:

- Accurate counting function and standard weighing function
- 304 stainless steel weighing pan
- Large white LED display, 360° visible
- Unit conversion: kg, g, lb, oz
- Low voltage alarm function
- Built-in upper and lower limit alarm function
- Built-in screen saver for power saving
- Standard RS232 interface
- Standard printing function
- Dual power supply modes:
 - * AC 110V/220V (50-60Hz)
 - * Built-in 6V/4Ah lithium battery, making it more lightweight and providing extended standby time
- Optional: bluetooth
- Optional: external tri-color light alarm
- Optional: external 2nd display

Main Performance Features

- Units: g, ct, ...
- Printing Function
- RS-232 serial port
- Alarm Function
- Counting function
- Bluetooth Function
- External CAL Function
- Large Screen

Machine Model:
A85-C

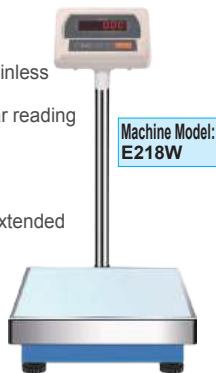


Order Code	Platform Size (mm)	Weighing Range (kg)	Readability (g)	Test Accuracy (g)	Min. Weight (g)
-50060B	300*400	60	2	20	40
-50100B	300*400	100	5	50	100
-50150B	400*500	150	10	100	200
-50300B	450*600	300	20	200	400
-50600B	450*600	600	20	200	400

Economy Digital Weighing Platform Scales - Series 43

Product Features:

- Standard weighing function
- Level 3 weighing accuracy
- Carbon steel scale base with 304 stainless steel weighing pan
- 6-digit 0.8-inch digital display for clear reading
- Unit conversion: kg, g, lb
- Built-in charging indicator
- Dual power supply modes:
 - * AC 110V/220V (50-60Hz)
 - * Built-in 4V/4Ah lithium battery for extended standby time
- Operating temperature: 0 - 40°C
- Ambient humidity: ≤90%RH (non-condensation)



Machine Model: **E218W**

Order Code	Platform Size (mm)	Weighing Range (kg)	Readability (g)	Test Accuracy (g)	Min. Weight (g)
TFWS81					
-43060B	300*400	60	2	20	40
-43100B	300*400	100	5	50	100
-43150B	400*500	150	10	100	200
-43300B	450*600	300	20	200	400
-43600B	450*600	600	20	200	400

Digital Weighing Desktop Scales - Series 03

Product Features:

- Accurate weighing with large red LED display
- Made of ABS environmentally friendly material and 304 stainless steel weighing platform for impact resistance and durability
- Unit conversion: kg, g, lb
- Upper and lower limit alarm function.
- Dual power supply modes:
 - * AC 110V/220V (50-60Hz)
 - * Built-in 6V/4Ah lithium battery for extended standby time
- Weighing pan size (mm): W197*D278
- Dimensions (mm): W280*D304*H100



Machine Model: **TSC-W**

Order Code	Weighing Range (kg)	Min. Weight (g)	Accuracy (g)	Weighing Tolerance ± (g)
TFWS80				
-03003B	3	2	0.1	0.1 - 0.3
-03007B	7.5	4	0.2	0.2 - 0.6
-03015B	15	10	0.5	0.5 - 1.5
-03030B	30	20	1.0	1.0 - 3.0

Digital Weighing Desktop Scales - Series 04

Product Features:

- Accurate weighing, equipped with FSTN LCD screen for clearer and brighter display
- Made of environmentally friendly ABS material and 304 stainless steel weighing pan for durability and impact resistance
- External calibration function
- Special anti-vibration digital filtering algorithm for ensuring the weighing stability and accuracy
- Unit conversion: kg, g
- Standard 232 interface, can also support RS485 (optional)
- Dual power supply modes:
 - * AC 110V/220V (50-60Hz)
 - * Built-in 3.7V/4Ah lithium battery for extended standby time
- Weighing pan size (mm): W212*D290
- Dimensions (mm): W295*D323*H100



Machine Model: **DH-W**

Optional external extensions:

- Can be connected with tri-color alarm light, USB, printer, large display, PLC and for digital output etc.
- Label printer and thermal printer
- Support Windows through wired and wireless connection. Wireless transmission range up to 80 - 100 meters
- Support bluetooth transmission

Order Code	Weighing Range (kg)	Min. Weight (g)	Accuracy (g)	Weighing Tolerance ± (g)
TFWS80				
-04003B	3	2	0.1	0.1 - 0.3
-04007B	7.5	4	0.2	0.2 - 0.6
-04015B	15	10	0.5	0.5 - 1.5
-04030B	30	20	1.0	1.0 - 3.0

Digital Counting Desktop Scales - Series 10

Product Features:

- Accurate counting weighing with simple pricing function
- Made of environmentally friendly ABS material and 304 stainless steel weighing pan for durability and impact resistance
- Unit conversion: kg, g
- Accumulated counts up to 99 times
- Dual power supply modes:
 - * AC 110V/220V (50-60Hz)
 - * Built-in 6V/4Ah lithium battery for extended standby time
- Weighing pan size (mm): W197*D278
- Dimensions (mm): W280*D304*H100



Machine Model: **TSC-C**

Order Code	Weighing Range (kg)	Min. Weight (g)	Accuracy (g)	Weighing Tolerance ± (g)
TFWS80				
-10003B	3	2	0.1	0.1 - 0.3
-10007B	7.5	4	0.2	0.2 - 0.6
-10015B	15	10	0.5	0.5 - 1.5
-10030B	30	20	1.0	1.0 - 3.0

High Precision Digital Counting Desktop Scales - Series 11

Product Features:

- High-precision counting and weighing with simple pricing function
- Made of environmentally friendly ABS material and 304 stainless steel weighing pan for durability and impact resistance
- Unit conversion: kg, g
- Accumulated counts up to 99 times
- Standard 232 interface with printing function
- Dual power supply modes:
 - * AC 110V/220V (50-60Hz)
 - * Built-in 6V/4Ah lithium battery for extended standby time
- Weighing pan size (mm): W230*D292
- Dimensions (mm): W295*D345*H106



Machine Model: **TSC-E**

Order Code	Weighing Range (kg)	Min. Weight (g)	Accuracy (g)	Weighing Tolerance ± (g)
TFWS80				
-11003B	3	2	0.1	0.1 - 0.3
-11003D	3	0.2	0.01	0.01 - 0.03
-11007B	7.5	2	0.1	0.1 - 0.3
-11007D	7.5	0.2	0.01	0.01 - 0.03
-11010B	10	2	0.1	0.1 - 0.3
-11010D	10	0.2	0.01	0.01 - 0.03
-11015B	15	2	0.1	0.1 - 0.3
-11030B	30	2	0.1	0.1 - 0.3
-11040B	40	2	0.1	0.1 - 0.3

Digital Balances - Series 20

- Large backlit LCD display
- Counting and weighing function
- External calibration function
- Special anti-vibration digital filtering algorithm for ensuring the weighing stability and accuracy
- Unit conversion: g, ct, lb, oz, ozt, dwt, kg, GSM, PCS, %, and more
- Standard RS232 can be connected to peripheral devices
- Equipped with high visible windshield
- Dual power supply modes:
 - * AC 110V/220V (50-60Hz)
 - * Built-in 7.4V/1.5Ah lithium battery for continuous use up to 48 hours
- Weighing pan size (mm): ø130
- Dimensions (mm): W190*D285*H70

- Optional: thermal printer
- Optional: 2nd display

Machine Model:
DA



Order Code	Weighing Range (g)	Accuracy (g)	Test Accuracy (g)	Repeatability (g)	Ambient Temperature (°C)
TFWS82					
-20010B	100				
-20030B	300				
-20050B	500				
-20060B	600	0.01	0.1	±0.02	0 - 40
-20100B	1000				
-20200B	2000				
-20300B	3000				

Electromagnetic High Precision Digital Balances - Series 25

- This electromagnetic weighing balance is designed for the precise quantification of mass or samples
- Equipped with aluminum-based sensor, ABS casing, stainless steel weighing pan, extra large high visible windshield
- Large backlit LCD display
- Fully automatic internal and external calibration
- Overload and fault alarm
- Special anti-vibration digital filtering algorithm
- Unit conversion: g, ct
- Standard RS232 can be connected to peripheral devices
- Power supply: AC 110V/220V (50-60Hz)
- Weighing chamber dimensions (mm): W190*D220*H170
- Overall dimensions (mm): W350*D220*H320
- Optional: thermal printer
- Optional: 2nd display

Machine Model:
MA



Order Code	Weighing Range (g)	Pan Dia. (mm)	Accuracy (g)	Repeatability (g)	Linear Error (g)	Ambient Temperature (°C)
TFWS82						
-25010B	100			±0.002	±0.002	
-25020B	200	ø80	0.001	±0.002	±0.002	15 - 25
-25030B	300			±0.002	±0.002	
-25050B	500			±0.002	±0.002	
-25100B	1000	ø110	0.001	±0.005	±0.005	15 - 25
-25200B	2000	ø160	0.001	±0.005	±0.005	15 - 25
-25012D	120			±0.0003	±0.0003	
-25022D	220	ø80	0.001	±0.0003	±0.0003	15 - 25
-25032D	320			±0.0003	±0.0003	
-25050D	500			±0.0005	±0.0005	

Explosion-proof Digital Balances - Square Pan, Series 28

- Large backlit LCD display
- Counting and weighing function
- External calibration
- Special anti-vibration digital filtering algorithm
- Unit conversion: g, ct, lb, oz, ozt, dwt, kg, GSM, PCS, %, etc
- Low battery alarm
- Automatica screensaver
- Standard RS232 can be connected to peripheral devices
- Ambient temperature: 0 - 40°C
- Weighing pan size (mm): 175*155
- Dimensions (mm): W190*D285*H70
- **Dual power supply modes:**
 - * Standard accessories with an external explosive-proof battery charger and an external 7.4V/4Ah explosive-proof battery
 - * AC 220V/5060Hz converted to DC 8.4V/2Ah (for this mode, customer must specify on order)
- Optional: thermal printer
- Optional: 2nd display



Machine Model:
KHW-EX



Order Code	Weighing Range (g)	Accuracy (g)	Test Accuracy (g)	Repeatability (g)
TFWS82				
-28100B	1000			
-28200B	2000			
-28300B	3000			
-28400B	4000	0.1	1	±0.1
-28500B	5000			
-28600B	6000			
-28999B	10000			
-28100D	1000			±0.02
-28200D	2000			±0.02
-28300D	3000	0.01	0.1	±0.02
-28400D	4000			±0.03
-28500D	5000			±0.03

Explosion-proof Digital Balances - Round Pan, Series 29

- Large backlit LCD display
- Counting and weighing function
- External calibration
- Special anti-vibration digital filtering algorithm
- Unit conversion: g, ct, lb, oz, ozt, dwt, kg, GSM, PCS, %, etc
- Low battery alarm
- Automatica screensaver
- Standard RS232 can be connected to peripheral devices
- Ambient temperature: 0 - 40°C
- Weighing pan size (mm): ø80
- Dimensions (mm): W190*D290*H290
- **Dual power supply modes:**
 - * Standard accessories with an external explosive-proof battery charger and an external 7.4V/4Ah explosive-proof battery
 - * AC 220V/5060Hz converted to DC 8.4V/2Ah (for this mode, customer must specify on order)
- Optional: thermal printer
- Optional: 2nd display



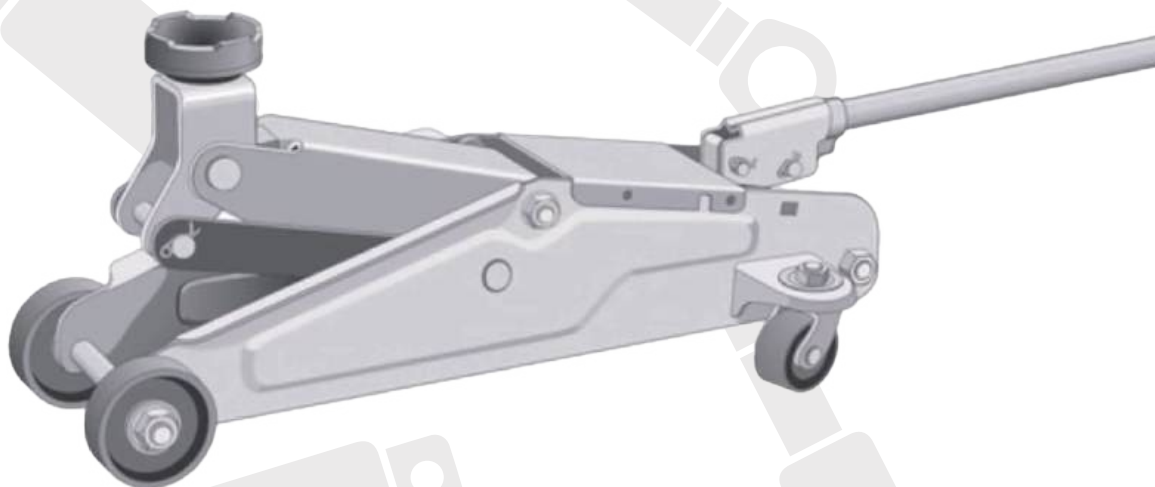
Machine Model:
KHW-EX



Order Code	Weighing Range (g)	Accuracy (g)	Test Accuracy (g)	Repeatability (g)
TFWS82				
-29010B	100			±0.002
-29020B	200			±0.002
-29030B	300	0.001	0.1	±0.002
-29050B	500			±0.003

TEMOTUF™

Hydraulic Equipment & Tools



www.temotuf.com

Hydraulic Cylinders

- This hydraulic jack is made of high-quality metal material and is widely used in electrical energy, chemical industry, steel, machinery and other industries. You can easily lift the height within the lifting area
- The tonnage and stroke of the hydraulic jack are sufficient, easy to jack up, and barrier-free
- Smooth surface of the hydraulic lifting cylinder has obvious circle marks, and the cylinder is firmly fixed and does not burst
- Equipped with a standard 3/8" BSPT quick connector and a dust cover

High Profile



Low Profile



High Profile

Order Code	Tonnage (T)	Stroke (mm)	Oil Capacity (L)	Body Height (mm)	Max. Height (mm)	Piston Dia. (mm)	Weight (kg)
TFHY10							
-11010C	10	100	0.15	145	245	37	4.4
-11020C	20	100	0.28	155	255	50	6.3
-11030C	30	100	0.42	155	255	63	10.7
-11050C	50	100	0.70	155	255	80	14.9
-11100C	100	100	1.32	175	275	97	30.6

Low Profile

Order Code	Tonnage (T)	Stroke (mm)	Oil Capacity (L)	Body Height (mm)	Max. Height (mm)	Piston Dia. (mm)	Weight (kg)
TFHY10							
-12010D	10	50	0.07	100	150	37	3.1
-12020D	20	50	0.14	105	155	50	4.0
-12030D	30	50	0.22	106	156	63	7.9
-12050D	50	50	0.35	108	158	80	11.6
-12100D	100	50	0.66	125	175	97	25.7

Super Thin Split Hydraulic Cylinders

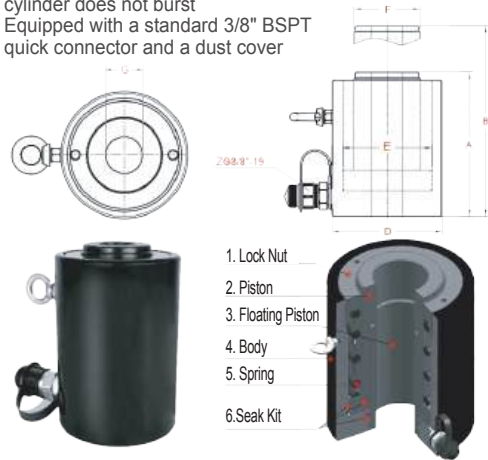
- This hydraulic jack is made of high-quality metal material and is widely used in electrical energy, chemical industry, steel, machinery and other industries
- Compact size, easy to carry, capable of working in a narrow space
- The tonnage and stroke of the hydraulic jack are sufficient, easy to jack up, and barrier-free
- Smooth surface of the hydraulic lifting cylinder has obvious circle marks, and the cylinder is firmly fixed and does not burst
- Equipped with a standard 3/8" BSPT quick connector and a dust cover



Order Code	Tonnage (T)	Stroke (mm)	Body Height (mm)	Max. Height (mm)	Body Width (mm)	Outside Dia. (mm)	Weight (kg)
TFHY12							
-13005B	5	7	40	47	50	62	0.7
-13010B	10	11	46	57	60	72	1.6
-13020B	20	13	51	64	80	95	2.7
-13030B	30	14	60	74	100	117	5.0
-13050B	50	18	68	86	120	135	8.5
-13100B	100	20	89	109	165	185	19.0

Hydraulic Hollow Cylinders

- This hydraulic jack is made of high-quality metal material and is widely used in electrical energy, chemical industry, steel, machinery and other industries. You can easily lift the height within the lifting area
- The tonnage and stroke of the hydraulic jack are sufficient, easy to jack up, and barrier-free
- Smooth lifting surface, firmly fixed cylinder does not burst
- Equipped with a standard 3/8" BSPT quick connector and a dust cover



Order Code	Tonnage (T)	Stroke (mm)	Body Height A(mm)	Max. Height B(mm)	Outside Dia. D(mm)	Inside Dia. E(mm)	Piston Dia. F(mm)	Rod Dia. G(mm)	Center Hole (mm)	Weight (kg)
TFHY15										
-02005H	20	50	145	195	97	83	52	28	6.6	
-02010H	20	100	217	317	97	83	52	28	9.7	
-03005H	30	50	155	205	117	103	67	37	10.0	
-03010H	30	100	232	332	117	103	67	37	13.0	
-06005H	60	50	200	250	175	145	95	55	30.0	
-06010H	60	100	315	415	175	145	95	55	37.0	
-10007H	100	75	354	429	305	255	185	110	60.0	

Hand High Pressure Hydraulic Pumps

- Rugged all metal construction for strength and durability
- It does not only has a smooth surface, but also has good sealing and no oil leakage
- Tighten the oil return valve clockwise for applying pressure and loosen the oil return valve counterclockwise for releasing pressure
- Equipped with a bleed nut to release excess pressure and air from the system. This nut should be loosened when the pump is in use
- Equipped with a standard 3/8" BSPT quick connector and a dust cover

Model 180



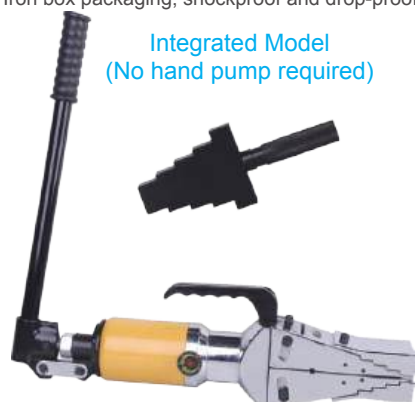
Model 700



Order Code	Model	Pressure (kg/cm ²)		Oil Displacement (cc)		Oil Capacity (cc)	Hose Length (m)	Weight (kg)
		High	Low	High Pres.	Low Pres.			
TFHY30								
-20180P	180	700	-	-	-	350	1.0	5.2
-20700P	700	700	20	2.3	13	900	1.8	10.5

14T Manual Hydraulic Flange Spreader Kits

- Mainly used for pipeline maintenance, debugging, replacement or disassembly of flanges and where needs the expansion and separation of the objects
- Alloy steel forging clamp ideal for industrial purposes, sturdy, durable with strong tension
- The thick cylinder has good air tightness, refusing the oil leak and providing the enough pressure for easy jobs
- 6mm top wedge tip thickness, 81mm maximum separation distance
- Iron box packaging, shockproof and drop-proof



Integrated Model
(No hand pump required)

Split Model
(to use with CP-700 hand pump)



Optional: CP-700 Hand Pump
(to use with split model)



Spreader Kits

Order Code	Model	Max. Separation Force (T)	Top Wedge Tip Thickness (mm)	Max. Separation Distance (mm)	Length (mm)	Net Weight (kg)
TFHY43						
-01014C	Integrated	14	6	81	480.0	10.0
-02014C	Split	14	6	81	310.0	9.0

Industrial Jaw Hydraulic Gear Puller Kits

- Ideal for pulling hubs, flanges, gears, pulleys, flywheels, bearings chucks from shafts. It is widely suitable for car maintenance factories, mechanical factories, and repair workshops, etc.
- High-quality carbon steel body with alloy steel forged jaws, featuring superior strength and no oil leakage
- You can install 2 or 3 jaws and adjust the heights as needed
- The pump head can rotate by 360°, which is easy for you to operate and use the tool
- These hydraulic gear puller kits can be operated horizontally or vertically without site restriction
- Equipped with a security relief valve, the piston rod, the detachable ejector pin, and the movable handle etc. for working agility
- CE certified

Integrated Kits



Split Kits



Integrated Kits

Order Code	Output (T)	Spread (mm)	Reach (mm)	Travel (mm)	Weight (kg)
TFHY45					
-30503A	5	200	140	50	5.7
-31003A	10	250	160	50	9.6
-31503A	15	300	180	55	13
-32003A	20	300	200	75	14
-33003A	30	350	250	75	22
-35003A	50	450	350	75	33

Split Kits

Order Code	Output (T)	Spread (mm)	Reach (mm)	Travel (mm)	Weight (kg)
TFHY47					
-13003B	30	350	250	75	17
-15003B	50	450	350	75	28

Suitable Hand Pumps for Split Kits

Order Code	Color	Remark
TFHY30		
-00700C	Yellow	See specifications on bottom of this page
-20700P	Red	See specifications on right bottom of prev. page

CP-700 Hand Pump

Order Code	Max. Output Pressure (kg/cm ² / psi)		Oil Displacement (cc)		Oil Capacity (cc)	Net Weight (kg)	Packing Size (mm)
	Low	High	Low	High			
TFHY30							
-00700C	20	700	13	2.3	900	12.0	510 x 140 x 150

7pc 3-Jaw Universal Wheel Hub Drum Puller Kit

- Designed to be used on most model cars, making wheel-hub removal quick, easy and damage free
- Load capacity: 12 ton
- Reach: 177mm
- Spread: 191mm / 7-1/2"
- 1 x hub puller socket: 37.7mm
- 1 x ram
- 1 x adapter
- 3 x puller jaws



Order Code	Load Capacity (T)
TFHY88	
-01207T	12

11pc 5-Jaw Universal Wheel Hub Drum Puller Kit

- Designed to be used on most model cars, making wheel-hub removal quick, easy and damage free
- Load capacity: 12 ton
- Reach: 177mm
- Spread: 191mm / 7-1/2"
- 1 x hub puller socket: 37.7mm
- 1 x ram
- 1 x ram extension rod: 280mm / 11"
- 1 x striking handle: 200mm / 8"
- 1 x adapter
- 5 x puller jaws



Order Code	Load Capacity (T)
TFHY88	
-01211T	12

19pc Multi-purpose Hydraulic Gear Puller Kit

- Suitable for pulling hubs, flanges, gears and bearings
- 2 or 3 jaws interchangeable
- Load capacity: 12 ton
- Reach: 100 - 250mm / 4" - 10"
- Spread: 250mm / 10"
- 1 x ram
- 1 x yoke
- 6 x steel plates
- 6 x screw nuts & washers
- 1 x adapter
- 3 x puller jaws



Order Code	Load Capacity (T)
TFHY88	
-01219T	12

Scissor Jacks

- Drop forged alloyed steel construction for quality and durability
- Equipped with an extra-wide base providing stability and strength
- Solid steel gears and threaded rod for easy lifting
- Large top support providing secure fitment under any 4 x 4 vehicles
- 1 piece handle delivers on-the-spot quick response and speed
- Freeze-proof and high-temperature resistant, lightweight and portable
- CE authenticated



Order Code	Load Capacity (T)	Min Height (mm)	Max Height (mm)	Length (mm)	Weight (kg)
TFHY01					
-05010S	1.0	80	330	365.0	1.5
-05015S	1.5	100	370	415.0	2.2
-05020S	2.0	120	395	450.0	3.5

Heavy Duty Low Profile Trolley Jacks

- Constructed with heavy duty steel and cylinder which can give greater load-bearing capacity, safe and quick lifting
- Rubber oil plug, good sealing performance, providing fast oil injection
- Add-on design for free height adjustment of the steel saddles and can also rotate by 360°
- Ergonomic handle designed for the 2.5-ton model, lightweight and portable
- Steel casters for additional stability and smooth maneuverability
- Overall anti-oxidation painted, wear and corrosion resistant

2.5T
(Packed in a blow-molded case)



3.0T
(Packed in a carton)



Order Code	Load Capacity (T)	Min Height (mm)	Lifting Height (mm)	Max Height (mm)	Net Weight (kg)	Gross Weight (kg)	Dimensions (mm)
TFHY02							
-61525A	2.5	85	295	380	12.5	13.5	595 x 240 x 165
-64730A	3.0	75	385	460	29.0	30.0	735 x 385 x 190

Hydraulic Bottle Jacks

- Ideal for auto, truck service, farm, and shop use
- Welded design for great strength and eliminates leaks
- Engineered using a drop forged alloyed steel construction with reinforced stress points for added durability
- extension screw adjusts to accommodate desired work height
- Steel lifting saddle engineered to hold load securely
- 2-stage handle bar for easy carry
- CE and GS certification



Order Code	Load Capacity (T)	Min Height (mm)	Max Height (mm)	Gross Weight (kg)	Packaging
TFHY01					
-01003B	3	165	310	3.5	Blow-molded Box
-01005B	5	177	342	4.0	Blow-molded Box
-01008B	8	185	350	4.8	Blow-molded Box
-01012B	12	204	379	7.0	Carton
-01016B	16	215	405	8.0	Carton
-01020B	20	230	430	10.5	Carton
-01032B	32	243	391	13.5	Carton
-01050B	50	265	420	21.0	Carton

Low Profile Bottle Jacks

- Lightweight and slim design, suitable for use in narrow spaces and easy to carry
- Strong load-bearing capacity, safe and durable to use
- The base and reservoir are machine-welded for enhanced strength and reduced risk of leakage



Order Code	Load Capacity (T)	Body Height (mm)	Stroke (mm)	Extension Screw Height (mm)	Base Dimensions (mm)	Net Weight (kg)
TFHY01						
-05010L	10	160	100	60	115 x 105	4.2
-05020L	20	170	100	60	150 x 135	6.5

Toe Jacks

- Ideal for lifting loads with a low minimum jacking clearance
- Made of heavy-duty steel material, smooth operation, virtually eliminates leaks
- Built-in two rugged wear-resistant steel rings, the piston rod and the inner bar are not in contact, so the inner bar's friction can be reduced to the least, making it more durable
- Thickened return spring enables rapid piston return and for long-lasting use
- Lightweight, easy to carry, easy to maintain, safe and reliable



Order Code	Capacity(T)	Body Height (mm)	Max Height (mm)	Toe Size (mm)	Min Toe Height (mm)	Base Size (mm)	Weight (kg)
TFHY41							
-02005J	2.5	5.0	228	345	69 x 45 x 16(h)	16 130 x 125	8.5
-02010J	5.0	10.0	282	429	98 x 53 x 22(h)	22 235 x 186	20.0
-02020J	10.0	20.0	310	462	123 x 60 x 25(h)	25 251 x 241	31.5
-02030J	15.0	30.0	330	485	149 x 60 x 28(h)	28 273 x 262	44.0
-02050J	25.0	50.0	370	528	190 x 74 x 40(h)	40 280 x 340	88.5

Mechanical Screw Jacks



- This mechanical screw jack is used to lift heavy loads vertically by converting rotational motion into linear motion, widely used in a variety of applications where heavy loads need to be lifted, such as in building support, bridge construction, and material handling.
- Made of integrated cast iron, stable performance, anti-corrosion and wear-resistant
- Cylinder is made of 45# stainless manganese steel to achieve rapid actions
- Built-in limit switch prevents over-travel that could potentially damage the equipment or cause an accident
- Heat treated ratchet mechanism offers high load capacity, low noise and high durability
- Thickened base for smoother and more stable operation



High Profile

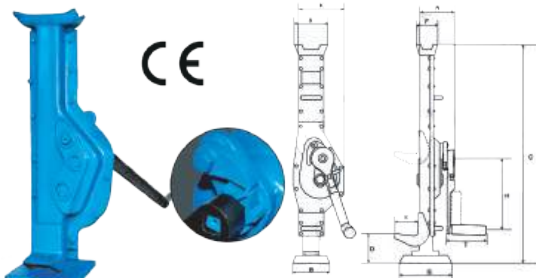
Order Code	Load Capacity (T)	Body Height (mm)	Lifting Height (mm)	Weight (kg)
TFHY01				
-03003H	3.2	110	220	4.8
-03005H	5	130	250	5.3
-03008H	8	140	260	5.5
-03010H	10	150	280	7.5
-03016H	16	180	320	10.0
-03020H	20	180	325	11.0
-03025H	25	120	260	11.0
-03032H	32	200	395	17.5
-03050H	50	250	452	30.0
-03100H	100	200	452	65.0

Low Profile

Order Code	Load Capacity (T)	Body Height (mm)	Lifting Height (mm)	Weight (kg)
TFHY01				
-03010L	10	75	200	6.5
-03020L	20	90	225	9.0
-03032L	32	150	320	15.0
-03050L	50	150	330	27.0

Mechanical Ratchet Jacks

- This ratchet toe jack is made of high-quality alloyed steel, thickened pawl and sturdy base. Ideal for automotive, truck, farm, industrial and construction work
- Lifting is controlled by a crank operating through a ratchet wheel with a double retaining catch, giving the jack additional safety
- Constructed with thickened anti-slip top groove, multi-tooth thickened rack bar, integrated firmware and sturdy base
- It can be used at multiple angles, not only vertically but also at any angles where there are supports or any stress points



Product Parameters	Order Code: TFHY01					
	-04015C	-04030C	-04050C	-04100C	-04160C	-04200C
Rated Load Cap. (T)	1.5	3.0	5	10	16	20
A	81	83	108	124	135	135
B	100	130	140	140	150	150
C	600 - 900	720 - 1090	737 - 1095	794 - 1175	880 - 1130	880 - 1180
D	60 - 360	70 - 425	87 - 445	100 - 481	115 - 425	115 - 425
E	55	60	71	86	85	85
F	46	45	68	76	85	85
G	110	138	170	170	182	182
H	225	249	249	300	330	330
K	147	170	190	252	281	281
R	119	140	155	185	224	224
T	113	128	128	250	258	258
Weight (kg)	16	20	28	46	72	72

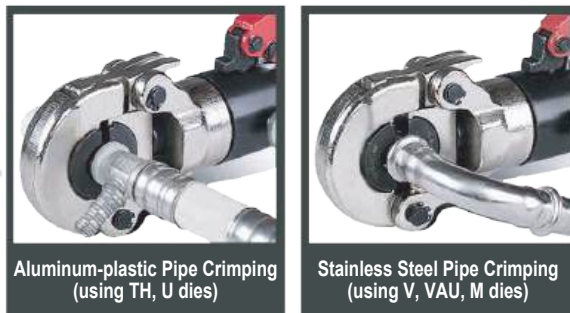
Hydraulic Pipe/Terminal End Crimping Tool Kits

- A kind of dual-purpose tool, sturdy and compact structure, suitable for crimping aluminum-plastic and stainless steel pipes as well as crimping copper/aluminum cable terminals for cable ranging of 10 - 300mm²
- Patented hydraulic oil system
- Snap closure crimping head, easy for interchange of dies
- Featured with adjustable relief valve and return spring for easy and quick operation
- Insulated non-slip handle for maximum safety
- Maximum crimping force: 80KN (8T); Maximum stroke: 17mm
- Packed in a molded blow case

Hydraulic Pliers diagram & Dimensions



Terminals Crimping Effect Diagram



Product Packaging



Crimping Die Configuration

TH Series (suitable for PEX and aluminum-plastic pipes)			
Die Size	Crimping Size	Cross-section	Crimping Effect
TH16	φ16mm		
TH20	φ20mm		
TH25/26 (Standard with TH26)	φ25mm/26mm		
TH32	φ32mm		

U Series (suitable for PEX and aluminum-plastic pipes)			
Die Size	Crimping Size	Cross-section	Crimping Effect
U16	φ16mm		
U20	φ20mm		
U25	φ25mm		
U32	φ32mm		

V Series (suitable for stainless steel and copper pipes)			
Die Size	Crimping Size	Cross-section	Crimping Effect
V16	φ16mm		
V18	φ18mm		
V22	φ22mm		
V28	φ28mm		

VAU Series (suitable for stainless steel and copper pipes)			
Die Size	Crimping Size	Cross-section	Crimping Effect
VAU16	φ16mm		
VAU20	φ20mm		
VAU25	φ25mm		

M Series (suitable for stainless steel and copper pipes)			
Die Size	Crimping Size	Cross-section	Crimping Effect
M12	φ12mm		
M15	φ15mm		
M18	φ18mm		
M22	φ22mm		
M26	φ26mm		
M28	φ28mm		

Optional: Die sets for stainless steel pipes (Series I and Series II)

Nominal Diameter	Outside Dia. of Series I (mm)	Outside Dia. of Series II (mm)	Pipe Wall Thickness (mm)
DN15	16	15.9	0.8
DN20	20	22.2	1
DN25	25.4	28.6	1



Hydraulic Pipe Crimping Tool Kits (each kit Inc. of 1 x tool and 1 set of dies)

Order Code	Standard Die Type	Standard Die Content
-16321K	TH	TH16, TH20, TH25/26(standard with TH26), TH32
-16322K	U	U16, U20, U25, U32
-16323K	V	V15, V18, V22, V28
-16324K	VAU	VAU15, VAU20, VAU25
-16325K	M	M12, M15, M18, M22, M28

Hydraulic Terminal Crimping Tool Kits (each kit Inc. of 1 x tool and 1 set of dies)



Order Code: **TFHY71-16328K**

Hydraulic Cable Crimping Tool Kits

- Widely used in industries such as construction, power electricity, telecommunication and firefighting etc. Fast and easy operation
- Constructed with full steel, with uniform heat treatment. It is not prone to break but for long time using
- Oil return valve relieves pressure and allows the piston to quickly reset
- Insulated non-slip handle for maximum safety
- Each die is thickened, heat treated with stamped marking for easy interchange

Model 70



Model 120



Model 240



Model 300



Instructions for use

<p>Install dies in pairs, ensuring correct positioning and alignment within the tool head as per the provided diagrams. Fully insert and lock the locking bolt to secure the dies in place.</p>	<p>Turn the rotary valve to the "on" position, start crimping.</p>	<p>Activate the hand lever repeatedly, raising and lowering it against the fixed hand lever. As the dies move closer, exercise caution. Stop the lever action when they lightly touch. Verify the correct positioning of the material and perform one final lever action to complete the crimp.</p>	<p>Turn the relief valve to the "off" position, release the dies and take out the terminal.</p>

Product Packaging



Maintenance and Care Guidelines:

1. These series of hydraulic crimping tools are built with precision structures and should not be disassembled casually. Any malfunctions or damages caused by unauthorized disassembly or improper use are not covered by our warranty. However, our company can provide paid repairs (only charging for parts and minimal labor costs).
2. To ensure the tool's service life, it is recommended to change the hydraulic oil once a year. The hydraulic oil must be filtered through a fine wire screen of 120 mesh or finer, or by a filter with filtration accuracy higher than 30µm. Meanwhile, make sure that the hydraulic oil is clean and free of all substances which will cause improper operation.



During the process of hydraulic oil change, please lock the movable handle to prevent air from entering the hydraulic system.

Order Code TFHY71	Model	Output		Stroke (mm)	Crimping Range(mm ²)	Crimping Method	Weight (kg)	Standard Dies (mm ²)
		KN	Ton					
-40070K	70	45	4.5	11	4 - 70	Hexagonal	3	4/6/8/10/16/25/35/50/70
-40120K	120	80	8	16	10 - 120	Hexagonal	4.5	10/16/25/35/50/70/95/120
-40240K	240	120	12	22	16 - 240	Hexagonal	6.3	16/25/35/50/70/95/120/185/240
-40300K	300	120	12	22	16 - 300	Hexagonal	6.5	16/25/35/50/70/95/120/185/240/300

Hydraulic Cable Cutters

- Suitable for cutting copper aluminum armored cables, high voltage PE/IV cables, telephone cables etc. Not applicable for steel-core cables
- This hydraulic cable cutter adopts hard spring steel blades, with a hardness up to HRC60, providing fast cutting and long lasting time
- The openable cutter head design makes it easy to replace the blades. You only need to pull out the locking pin
- Featured with an oil return switch. Simply turn the button to ON position for cutting and to OFF position after cutting
- Integrated units - fitted with non-slip insulated handles for safe
- Split models - fitted with a silver ergonomic auxiliary handle for comfortable and convenience use

Applications

CU/AL Cables	Armored Cables	Submarine Cables	ACSR	Steel Wire Ropes	Steel Strands	Rebars	Steel Chains

Features

Hard spring steel blades

Upgraded design of open head and locking pin

Adjustable oil return valve

Ergonomic auxiliary handle



Integrated Units

Model 75



Model 95

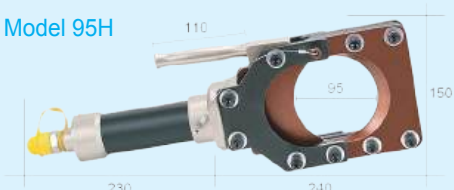


Split Units (Equipped with a 3/8" BSPT adapter, need to work with a hand or an electric hydraulic pump)

Model 75H



Model 95H



Warning :

Strictly forbidden to cut steel strands, steel core aluminum strands, various steel cables and live cables etc.

Split unit can driven by a hand or an electric hydraulic pump



Order Code	Model	Output (Ton)	Crimping Range	Net Weight (kg)
TFHY75				
-10075C	75 (Integrated)	7	Armored Cables < \varnothing 75mm	10
-10095C	95 (Integrated)	9	Armored Cables < \varnothing 95mm	10.5
-20075H	75H (Split)	7	Armored Cables < \varnothing 75mm	8.1
-20095H	95H (Split)	9	Armored Cables < \varnothing 95mm	8.9

Hydraulic Punching Tools

- Designed for angle iron, flat iron, copper and other metal sheet punching, for electricity, construction and other industries operating in the field sites
- Applicable to angle steel, channel steel, sheet metal, aluminum profile, copper bar etc.
- High-strength alloy steel dies for powerful and accurate cutting
- High-strength return spring for rapid cylinder retraction
- Half-opened casting body, widely use in different areas
- Used with hand pumps e.g. CP-700 or electric pumps
- Comes with standard dies, other sizes of dies are also available on requests



Specifications	Order Code: TFHY77		
	-01060H	-01070H	
Output Force (T)	31	35	
Throat Depth (mm)	95	110	
Overall Dimensions (mm)	W220	W265	
	D75	D115	
	H350	H350	
Weight (kg)	21	36	
	Angle Steel	#4 - #8	#5 - #10
	Channel	#6 - #10	#6 - #12
Cutting Range	Copper Bar	3 - 10mm	3 - 12mm
	Aluminum Profile	3 - 10mm	3 - 12mm
	Steel Plate	3 - 8mm	3 - 10mm
	Stainless Steel	3 - 6mm	3 - 8mm
Standard Dies (mm)	3/8"(ø10.5), 1/2"(ø13.8)		
	5/8"(ø17), 3/4"(ø20.5)		

Integrated Hydraulic Nut Splitters

- Used to quickly get rid of corroded nuts by professionals in the construction, gas, oil, petrochemical, and mining industries
- High-strength head made from 40Cr steel for powerful cutting and longevity
- Built-in high-quality cylinder for oil leak-free
- Automatic pressure safety valve



Order Code	Output Force (T)	Travel (mm)	Cutting Range (mm)	Nut Hex Size (mm)
TFHY71				
-39010N	10	20	M8 - M24	14 - 36
-39012N	12	22	M8 - M27	14 - 41

Integrated Hydraulic Rebar Cutters

- Widely used in construction, electricity, transportation, oil, metallurgy, and other areas where it is necessary to cut the rebars
- High strength forged steel cutting head with specially heat treated blades for powerful cutting and a good expansion ability
- Oil leak-free and oil return design
- Anti-slip, and insulated handles for comfortable and safe using experience



Order Code	Output Force (T)	Travel (mm)	Cutting Range (mm)	Weight (kg)
TFHY71				
-39508A	8	16	ø4 - ø16	4.0
-39510A	10	20	ø4 - ø20	4.7
-39512A	12	25	ø4 - ø25	6.5

High-pressure Hydraulic Hoses

- These high-pressure hydraulic hoses are made of flexible rubber for reliable and durable use
- The pre-installed connectors make assemblies ideal for easy integration into your system
- Working pressure: 70MPa (700bar)
- Thread size: 3/8"

with Quick Couplings



with Female Fittings



Hose with Quick Coupling

Hose with Female Fitting

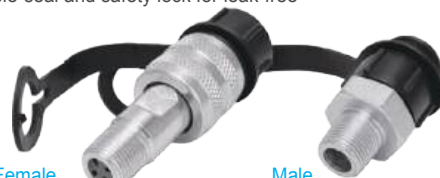
Hose with Dual Quick Couplings

Order Code	Hose Length (m)	Order Code	Hose Length (m)	Order Code	Hose Length (m)
TFHY80		TFHY80		TFHY80	
-30101A	1	-30201A	1	-30102B	2
-30102A	2	-30202A	2		
-30103A	3	-30203A	3		

** Specially suits electric pump of TFHY57-11502P

3/8" Hydraulic Couplings

- Heavy-duty, made of chromed steel for high pressure up to 70MPa
- Double-seal and safety lock for leak-free



Female (to connect hose)

Male (to connect cylinder)

Order Code	Type
TFHY80	
-60001F	Female
-60001M	Male

Shock Resistant Hydraulic Oil Pressure Gauge

- Stainless steel case for anti-corrosion and longevity
- Glycerin oil-filled enhances reliability and integrity; helps dampen the effect of vibration and pulsation; lubricates the movement and extends the life of gauge
- Thread size: 3/8"



Order Code	Oil Pressure Range (MPa)	Dial Diameter (mm)
TFHY80		
-40100G	100	68

Electric Hydraulic Crimping Tool Kits (AC Powered)

- Unique patented design, mains powered, eliminating the worries of lack of battery power
- Fast crimping, automatic oil return, and over-current protection
- Utilizes a low-power high-voltage DC motor, performing more energy efficient and environmentally friendly compared to the traditional motors. It can provide greater power output, lower noise, lighter weight, and easier portability and operation
- Outstanding low-power performance, with power consumption 10 times less than the other similar products
- Over-current protection function can automatically cut off the power supply when the machine encounters blockage or short circuit

Model 300Q (pistol style)



Model 400Q (pistol style)



Model 300T (portable)



Model 400T (portable)



300Q std. colored die set
(10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240 & 300mm²)

400Q std. colored die set
(16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 & 400mm²)

300T std. colored die set
(10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240 & 300mm²)

400T std. colored die set
(16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 & 400mm²)



Order Code TFHY70	Model	Power (V)	Crimping Range (mm ²)	Crimping Speed	Output (kN)	Stroke (mm)	Machine Weight (kg)
-02300Q	300Q	110 - 240	10 - 300	3 - 8 sec.	60	17	4.2
-02400Q	400Q	110 - 240	16 - 400	5 - 8 sec.	120	42	6.6
-02300T	300T	110 - 240	10 - 300	3 - 8 sec.	60	17	4.5
-02400T	400T	110 - 240	16 - 400	5 - 12 sec.	120	42	6.3

Li-ion Powered Hydraulic Crimping Tool Kits

- Ultra fast crimping, fast lithium-ion battery charging, automatic reset
- Featured with 360° rotating head, brushless motor, anti-slip handle and LED lighting
- High-performance large-capacity lithium-ion battery, protection against overload, overheating, and deep discharge
- One-touch operation, simple and convenient
- One-touch easy reset to correct any mistakes
- **Standard accessories: 1 set of colored dies, 2 batteries, 1 charger**

Model 300



Model 400



Model 300 standard accessories:
1 colored die set
(10, 16, 25, 35, 50, 70, 95, 120, 150, 185, 240 & 300mm²)



Model 400 standard accessories:
1 colored die set
(16, 25, 35, 50, 70, 95, 120, 150, 185, 240, 300 & 400mm²)



Order Code TFHY70	Model	Crimping Range (mm)	Output (kN)	Stroke (mm)	Weight (kg)	Dimensions (mm)	Battery
-01300E	300	10 - 300	60	17	11.5	long: 350	18V
-01400E	400	16 - 400	120	42	15.0	high: 290	(5.0Ah)

Optional accessories

Order Code TFHY70	Accessories
-01001P	18V/5.0Ah Li-ion Battery
-01002P	Charger

Battery Powered Hydraulic Cable Cutter Kits

- 360° rotating head, hard and sharp blades, suitable for cutting copper-aluminum cables, steel strands and armored cables etc.
- LED lighting function, non-slip handle (55B model equipped with a removable auxiliary handle)
- High-performance large-capacity lithium-ion battery, protection against overload, overheating, and deep discharge
- One-touch operation, simple and convenient
- One-touch easy reset to correct any mistakes

Model 45B
Capable of cutting:
Copper and aluminum
cables



Model 55B
Capable of cutting:
Copper and aluminum
cables, steel strands



Model 65B
Capable of cutting:
Copper and aluminum
cables, steel strands,
armored cables



Model 120B
Capable of cutting:
Copper and aluminum
cables, steel strands,
armored cables



Optional accessories

Order Code	Standard Accessories
TFHY72	
-02001P	18V/5.0Ah Li-ion Battery
-02002P	Charger

Order Code	Model	Cutting Capacity (CU/AL Cables) (mm)	Output (KN)	Stroke (mm)	Weight (kg)	Charging Power (V)
TFHY72						
-02045B	45B	ø45	60	45	5.5	110 - 240
-02055B	55B	ø55	120	50	6.7	110 - 240
-03065B	65B	ø65	60	45	5.7	110 - 240
-03120B	120B	ø110	200	62	12.2	110 - 240

Li-ion Powered Ratchet Cable Cutter Kit

- Suitable for cutting armored CU/AL cables and ACSR cables etc.
- High strength alloy steel blades, hardened and coated, for high durability and toughness
- Large opening, 10mm ultra-thick blades, achieve a cutting diameter up to ø50mm
- Deepened gears ensuring stronger output force, faster cutting speed for easier working
- High-quality motor ensuring powerful, stable, safe and durable performance
- Feed and return button with lever lock, allowing you to control the cutting process at any time
- Large capacity lithium battery ensuring powerful output and long-lasting using, fast charging just needs 1.5 hours
- Built-in clean brush can automatically clean the tooth surface and prolong the service life of the machine
- Product weight: 8.5kg • Output force: 60KN
- Continuous cutting: 80-100 times
- Product dimensions: 110 x 385 (H) mm
- Standard accessories: 2 batteries, 1 charger

Order Code	Cutting Range
TFHY74	
-02050M	CU/AL cables ≤ø50mm CU/AL armored cables ≤ø50mm ACSR ≤800mm² Steel Strands ≤100mm²

Optional accessories

Order Code	Standard Accessories
TFHY74	
-02001P	18V/4.0Ah Li-ion Battery
-02002P	Charger



Portable Electric Ultra-high Hydraulic Pump

- This portable electric hydraulic pump can work with various tools for many tasks
- This electric hydraulic pump has the functions of small volume, high pressure, lightweight, convenient carrying, simple operation and wide applications
- High and low pressure two-stage output, large oil volume, plunger type is adopted for low pressure to increase the effective pressure
- Pressure overload protection device to avoid damage to equipment due to overpressure
- Shockproof pressure gauge with clear and stable indication can effectively avoid the impact of vibration
- Featured with a pure brass oil filler and a visual oil window

****Only anti-wear hydraulic oil of viscosity grade from 15# to 32# can be applied to this hydraulic pump**



Parameters

Max. Output Pressure	High Pressure: 70MPa Low Pressure: 7MPa
Max. Output Flow Rate	High Pressure: 0.7L/min Low Pressure: 5L/min
Power Supply	220V, 50Hz
Motor Power	1.2KW
Motor Speed	3700rpm
Tank Capacity	2L
Hose Length	2M
Dimensions	21 x 15 x 33cm
Weight	15kg

Order Code: **TFHY57-11502P**

Hydraulic Shop Presses

- This hydraulic workshop press is the best choice for all your stamping needs. Ideal for large and small workshops and a wide range of metalworking applications, automotive repairs, making work easier and simpler
- This shop press is a perfect tool for removing and installing automobile bushings, bearings, ball joints, U-joints, pulleys, gears, and more. This press can also be used for metalworking tasks like bending, straightening, and stamping. Get the job done quickly and easily. With the installation of a pressure gauge, it can be used for jack testing
- The H-shaped frame structure provides a sturdy base that won't wobble or shake during use and for maximum strength and durability
- Electrostatic spraying for environmental friendliness, corrosion resistance, and easy cleaning
- High-quality hydraulic ram and piston rod for smooth operation and wear resistance
- High-quality hydraulic oil for better corrosion resistance and wider operating temperature range from 40°C to 105°C
- Oil pump equipped with an extended operating handle for easier operation
- Standard equipped with an oil pressure gauge

10-ton manual

12-ton manual

20-ton manual

30-ton manual



20-ton (manual/pneumatic)

40-ton (manual/pneumatic)

50-ton (manual/pneumatic)

50-ton foot control (manual/pneumatic)



Order Code TFHY90	Model	Capacity (T)	Working Range (mm)	Ram Stroke (mm)	Dimensions (mm)	Packaging	Net Weight (kg)	Gross Weight (kg)
-10003A	manual	10	0 - 350	175	775 x 550 x 180	(Cardboard box packaging)	45.2	48
-12002A	manual	12	0 - 920	175	1#: 1390 x 175 x 215 2#: 675 x 230 x 170	(Cardboard box packaging)	1#: 54.5 2#: 14	1#: 56.5 2#: 15
-20001A	manual	20	0 - 910	185	1#: 1565 x 185 x 145 2#: 795 x 330 x 150	(Cardboard box packaging)	1#: 60.8 2#: 36.0	1#: 61.8 2#: 37
-30001A	manual	30	0 - 840	160	1620 x 380 x 310	(Wooden case)	156	166.5
-20002A	manual / pneumatic	20	0 - 910	185	1#: 1565 x 185 x 145 2#: 795 x 330 x 150	(Cardboard box packaging)	1#: 60.8 2#: 37.5	1#: 61.8 2#: 38.5
-40001A	manual / pneumatic	40	125 - 1080	175	2010 x 550 x 330	(Wooden case)	243	278.4
-50001A	manual / pneumatic	50	0 - 890	175	1792 x 920 x 380	(Wooden case)	254	285
-50021A	50-ton foot control (manual/pneumatic)	50	0 - 920	200	2008 x 1168 x 428	(Wooden case)	293	339

Foldable Engine Cranes

- Designed to work in the automotive and maintenance industry
- Manufactured using high-grade components and accredited for sturdy construction and longer functional life
- Equipped with heavy-duty casters, foldable, easy to move and transport



1-ton



2-ton

Order Code TFHY90	Lifting Capacity (T)	Lifting Height (mm)	Open Size (L x D x H) (mm)	Net Weight (kg)	Gross Weight (kg)
-03101C	1	25 - 2040	1510 x 1015 x 1545	55 + 10	58 + 11.8
-03202C	2	25 - 2240	1615 x 1010 x 1480	60 + 20.9	63.2 + 22.4

TEMOTUF™

Hand Tools



www.temotuf.com

Professional Roller Cabinets - Black / Silver

- The "self-close" system with spring return offers an efficient and secure closure. 100% opening drawers for optimum ease of use. Only one drawer can be opened at the same time
- Specially designed lift-up-open handles allowing smooth open of the drawers
- High quality ball bearing slides ensuring smooth and effortless open-to-close of the drawers
- Featured with plastic-rubber edge protectors for impact resistance and damage prevention
- Perforated side panels for hanging tools
- Equipped with 5" heavy duty marking free TPR+PU casters, 2 fixed and 2 swivels with brakes, for durable, easy movement and long time use

7 Drawers



- Removable PP embossed top panel for impact resistance and anti-slip
- Suitable for bench vise mounting
- Cabinet dimensions: 678 x 459 x 1022mm
- Upper 5 drawer dimensions: 568 x 398 x 75mm
- Lower 2 drawer dimensions: 568 x 398 x 154mm
- Drawer load capacity: 40kg per drawer
- Total load capacity: 500kg
- Gross weight: 70.0kg

Order Code: **TFTB01-10710A**

6 Drawers



- High strength ABS top panel for impact resistance
- Cabinet dimensions: 678 x 459 x 997mm
- Upper 3 drawer dimensions: 568 x 398 x 75mm
- Lower 3 drawer dimensions: 568 x 398 x 154mm
- Drawer load capacity: 40kg per drawer
- Total load capacity: 500kg
- Gross weight: 63.7kg

Order Code: **TFTB01-10610A**

Heavy Duty Tool Trolleys

- Made of high-quality cold-rolled steel plate, coated with high-temperature electrostatic spraying
- Large drawers more suitable for in-lay tools
- Each drawer is reinforced with strengthening ribs to reduce drawer shaking and ensure stability
- Each drawer is equipped with anti-slip hooks to prevent drawer from sliding out due to inertia, increasing safety
- Press the spring switch concealed on the back of the aluminum trim can open each drawer freely
- Pre-installed ABS top panel for placing tools, parts, and other items
- Patented pagoda lock providing extra security
- 5" PP casters: 2 fixed and 2 swivel casters with brakes
- Aluminum alloy handle giving a visual appealing, dirt and corrosion resistance
- Load capacity: 50kg per drawer

Red/Black
7-Drawer Tool Trolley



Grey
7-Drawer Tool Trolley



Red/Black
3-Drawer Tool Trolley
with Storage Cabinet



Grey
3-Drawer Tool Trolley
with Storage Cabinet



Order Code	Model/Colour	Dimensions(mm) (W x D x H)	Dimensions (with casters)(mm) (W x D x H)	Small Drawer Size(mm) (W x D x H)	Large Drawer Size(mm) (W x D x H)	Cabinet Size(mm) (W x D x H)	Weight (kg)
TFTB01							
-11070A	Red/Black 7-Drawer	665 x 465 x 850	665 x 465 x 1005	575 x 395 x 65	575 x 395 x 145	-	55.1
-11170A	Grey 7-Drawer	665 x 465 x 850	665 x 465 x 1005	575 x 395 x 65	575 x 395 x 145	-	55.1
-12030C	Red/Black 3-Drawer, with Storage Cabinet	665 x 465 x 850	665 x 465 x 1005	575 x 395 x 65	575 x 395 x 145	600 x 460 x 400	41.3
-12130C	Grey 3-Drawer, with Storage Cabinet	665 x 465 x 850	665 x 465 x 1005	575 x 395 x 65	575 x 395 x 145	600 x 460 x 400	41.3

Heavy Duty 7 Drawer Stainless Steel (304) Roller Cabinet

- Made of quality 304 stainless steel, featuring aesthetic appearance, sanitation, corrosion resistance, acid and alkali resistance, dustproof, and anti-bacterial properties
- Widely used in industries or worksites such as food, medical, hospitals, electronic, cleanrooms, laboratories and automotive repairs etc
- Cabinet dimensions (including casters): W688 x D500 x H1005mm
- Drawer dimensions (W x D x H):
5 @ 597 x 428 x 90mm
1 @ 597 x 428 x 135mm
1 @ 597 x 428 x 180mm
- Equipped with 4" heavy duty marking free TPR+PU casters, 2 fixed and 2 swivels with brakes, for durable, easy movement and long time use
- Max load capacity per drawer: 45kg



Order Code: **TFTB01-40007B**

4 Drawer Industrial Tool Chest - Black

- Black powder-coated cabinet, resistant to dirt, oil, and corrosion.
- Recessed aluminum alloy handles for easier handling and nicer appearance
- High quality ball bearing slides ensure smooth and effortless open-to-close of the drawers
- Heavy duty support rods and piano hinges for higher durability and security
- Cabinet dimensions: 660 x 432 x 492mm
- Drawer dimensions: 551 x 396 x 80mm
- Drawer load capacity: 25kg each
- Total load capacity: 140kg



Order Code	Numbers of Drawers	Net Weight (kg)	Gross Weight (kg)	Accessories	Order Code
TFTB02					TFTB00
-30410B	4	27.0	30.0	Lock	-02010L

7 Drawer Industrial Tool Chest - Black / Silver

- Black powder-coated body with silver drawers, resistant to dirt, oil and corrosion
- Embossed diamond pattern drawer fronts not only increase the strength but also the aesthetics
- Wide aluminum alloy trims make the drawers easier to open and more stylish
- High quality ball bearing slides ensure smooth and effortless open-to-close of the drawers
- Hydraulic support rods make an effortless top open
- Piano hinges for higher durability and security
- Cabinet dimensions: 660 x 405 x 455mm
- Drawer dimensions:
Top 4 drawers: 270 x 375 x 47mm each
5th drawer: 570 x 375 x 47mm
6th drawer: 570 x 375 x 72mm
7th drawer: 570 x 375 x 97mm
- Drawer load capacity: 25kg each
- Total load capacity: 175kg



Order Code	Numbers of Drawers	Net Weight (kg)	Gross Weight (kg)	Accessories	Order Code
TFTB02					TFTB00
-20710B	7	30.0	33.9	Lock	-02010L

3 Drawer Professional Tool Chest - Black / Silver

- Textured ABS top panel, impact resistance and anti-slip
- 100% opening drawers for optimum ease of use. Only one drawer can be opened at the same time
- Specially designed lift-up-open handles allowing smooth open of the drawers
- High quality ball bearing slides ensuring smooth and effortless open-to-close of the drawers
- Featured with plastic-rubber edge protectors for impact resistance and damage prevention
- Cabinet dimensions: 678 x 459 x 365mm
- Drawer dimensions: 568 x 398 x 75mm
- Drawer load capacity: 40kg each
- Total load capacity: 200kg



Order Code	Numbers of Drawers	Net Weight (kg)	Gross Weight (kg)	Accessories	Order Code
TFTB02					TFTB00
-10310A	3	28.5	31.9	Lock	-02010L

18" Professional Cantilever Tool Box - Black

- Black powder-coated, resistant to dirt, oil and corrosion
- Embossed body and bottom ribs not only increase the strength but also the aesthetics
- Reinforced hinges ensure smooth opening and closure for durable use
- Pad lock hole offers additional safety for inside valuable tools and parts
- Cabinet dimensions: 465 × 220 x 240mm
- Tool tray dimensions:
 Top layer: 463 x 108 x 55mm
 Middle layer: 463 x 108 x 57mm
 Bottom layer: 463 x 218 x 120mm



Order Code	Net Weight (kg)	Gross Weight (kg)
TFTB03		
-10510A	6.28	7.10

18" Industrial Cantilever Tool Box - Black

- Black powder-coated, resistant to dirt, oil and corrosion
- Heavy duty hinges ensure smooth opening and closure for durable use
- Heavy duty spring closure latches secure the storage and transportation
- Cabinet dimensions: 460 × 200 x 224mm
- Tool tray dimensions:
 Top layer: 458 × 98 x 50mm
 Middle layer: 458 × 98 x 50mm
 Bottom layer: 458 × 198 x 100mm



Order Code	Net Weight (kg)	Gross Weight (kg)
TFTB03		
-20510B	4.22	5.30

18" Professional Cantilever Tool Box - Red



Order Code	Dimensions (mm)	Net Weight (kg)
TFTB03		
-01128A	450 x 200 x 209	4.3

Red Portable Tool Chests with Drawers

2-Drawer



3-Drawer



Order Code	Model	Dimensions (mm)			Net Weight (kg)
		Width	Depth	Height	
TFTB03					
-11132A	2-Drawer	520	218	243	6.6
-11133A	3-Drawer	520	218	300	8.2

3 Tray Service Carts

- Durable steel construction, made from cold-rolled steel for long-lasting durability and strength
- Swivel casters provide smooth movement and mobility for easy transportation
- Standard with 2 fixed and 2 swivel casters with brakes
- Overall load capacity > 150kg

Classic



Tools Hangable



Single Drawer



Order Code	Model	Dimensions (mm)	Caster	Net Weight (kg)
TFTB01				
-00302C	Classic	H785*D360*W655	4" Nylon	9.8
-00303C	Tools Hangable	H785*D360*W655	4" Nylon	11.5
-00305C	Single Drawer	H790*D350*W700	3" Rubber	18.0

Industrial Plastic Toolboxes

- An industrial grade product, precisely manufactured for great toughness and durability
- Ultra impact resistance, fall prevention with IP67 waterproof rating, greatly protecting the inside tools and any valuable objects
- Compartment tray for improved storage and organization



Indented ergonomic handle providing tight and comfortable grip



Thickened closure latches made of ABS, performing high toughness and exceptional durability



Security anti-theft lock hole designed to accommodate a 6mm shackle of a padlock



Featured with a pressure equalization valve to equalize the inside and outside air pressure of the case for effortless opening



Full stainless steel hinges providing increased durability and longevity, ensuring a strong and reliable connection



P67 waterproof rating
Dustproof level: 6
Waterproof level: 7

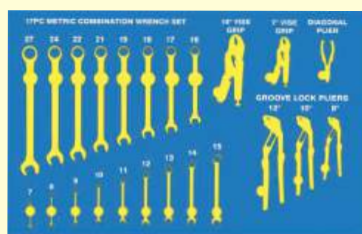
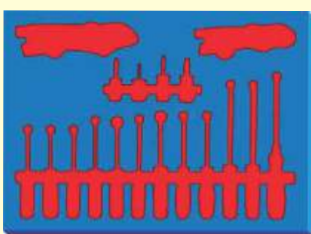
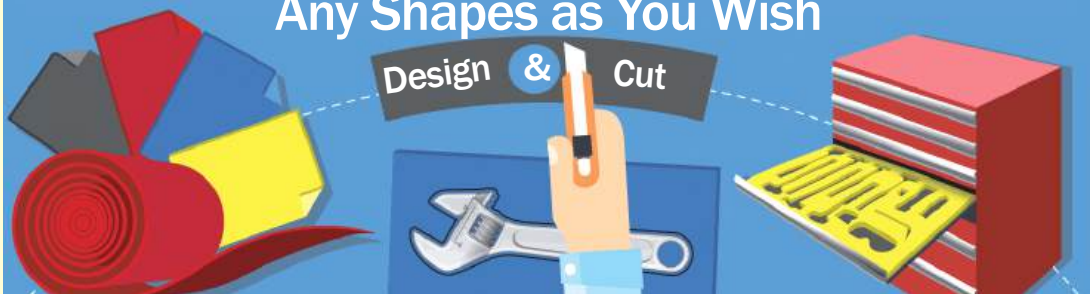
Order Code	Capacity (L)	Dimensions (mm) (length x width x height)	Internal Dimensions (mm) (length x width x height)	Wall Thickness (mm)	Weight (kg)	Colour
TFTB03						
-43617A	16	395 x 225 x 180	360 x 170 x 133	3.5	1.35	Black
-44020A	18	430 x 250 x 210	400 x 200 x 160	3.5	2.15	Black
-44625A	22	495 x 300 x 245	460 x 250 x 195	3.5	2.95	Black

EVA Foam Organizers

- EVA hi-density foam storage inserts cut to shadow your tools
- Offers extra protection for your specific tools
- Keeps your tool kit well organized for rapid tool location and instant use
- Easy identification of missing tools
- Excellent cushioning performance: can effectively absorb and disperse impact energy, protecting the tools in the tool box from damage
- Good thermal insulation effect: the closed-cell structure makes the EVA foam have good thermal insulation performance, which can keep the temperature inside the tool box stable in cold environments
- Environmentally friendly and safe: EVA foam is non-toxic, harmless and recyclable, complying with the environmental protection requirements of modern society
- **We can offer the multiple possibilities for our customers such as material, color and shape options, design and cut etc.**

Any Shapes as You Wish

Design & Cut



Industrial Engineer's Tool Kits - Configuration 1

- Prof. 6-drawer roller cabinet (black/silver) - 678 x 459 x 997mm
- Prof. 3-drawer tool chest (black/silver) - 678 x 459 x 365mm
- 28pc 1/2" dr. metric socket set (10 - 32mm)
- 7pc industrial screwdriver set
- 37pc 1/4" dr. socket screwdriver bit set
- 12pc industrial combination spanner set (6 - 32mm)
- 25pc HSS black/golden jobber drill set (1.0 - 13mm)
- 7"/180mm industrial combination pliers
- 8"/200mm industrial long nose pliers
- 7"/180mm industrial heavy-duty diagnose pliers
- 6"/150mm industrial flat nose pliers
- 10"/250mm curved jaw grip wrench
- 12" heavy duty pipe wrench
- 14" aluminum handled bolt cutter
- 12"/300mm hacksaw
- 12"/300mm bi-metal hacksaw blades (10pcs)
- 8"/200mm phosphate adjustable wrench
- 1.5lbs wood shafted ball-pein hammer
- 9pc metric extra long L ball driver set (1.5 - 10mm)
- 8pc folded Torx wrench set (T9 - T40)
- 6pc needle file set - 5 x 180mm
- 10"/250mm flat engineers file (medium)
- 10"/250mm 3-square engineers file (medium)
- 10"/250mm half-round engineers file (medium)
- 10"/250mm round engineers file (medium)
- 5M x 19mm measuring tape
- Heavy-duty utility knife
- 18mm x 8 segment utility knife
- 20 blade metric feeler gauge set (0.05 - 1.00mm)
- 1.5kg magnetic pick-up pen
- 50mm flexible round inspection mirror
- 6pc punch set
- 8-1/4"/210mm prof. stainless steel multi-purpose scissors
- 190mm 125-250V mains tester
- LED hand-held magnifier
- Protective spectacles
- Rechargeable headlight
- Auto-range digital multimeter

(Set contents may vary slightly according to product development and availability)

Industrial Engineer's Tool Kits - Configuration 2

- Prof. 6-drawer roller cabinet (black/silver) - 678 x 459 x 997mm
- Prof. 3-drawer tool chest (black/silver) - 678 x 459 x 365mm
- 30pc 1/2" dr. metric & inch socket set (8 - 24mm & 3/8" - 7/8")
- 6pc industrial screwdriver set
- 6pc industrial double ended open spanner set (6 x 7 - 16 x 17mm)
- 8pc industrial double ended ring spanner set (8 x 9 - 22 x 24mm)
- Industrial impact screwdriver set
- 7pc 1/2" dr. hex. socket bit set (H4 - H14)
- 9pc metric L hex wrench set (1.5 - 10mm)
- 8pc folded Torx wrench set (T9 - T40)
- 7" insulation combination pliers
- 8" insulation snipe nose pliers
- 6" insulation diagnose pliers
- 6"/150mm industrial flat nose pliers
- 10"/250mm straight jaw grip wrench
- 7"/180mm, 10-40mm straight jaw external circlip pliers
- 7"/180mm, 12-65mm straight jaw internal circlip pliers
- 12"/300mm English tinsnips
- 10" heavy duty pipe wrench
- 12"/300mm hacksaw
- 12"/300mm bi-metal hacksaw blades (10pcs)
- 10"/250mm phosphate adjustable wrench
- 400cc heavy duty grease gun
- 1.5lbs wood shafted ball-pein hammer
- 1lb wood shafted claw hammer
- 6pc 140mm diamond file set
- 6pc chisel & punch set
- 6pc high torque screw extractor set (No.1 - No.6)
- Tap wrench (M1 - M10)
- Tap wrench (M5 - M20)
- Black cleaning pads (10pcs/pk)
- 13 blade metric feeler gauge set (0.05 - 1.00mm)
- 13 blade metric 60° screw gauge set (0.25 - 3.00mm)
- Prof. retractable utility knife
- 7.5M x 25mm measuring tape
- 50 x 80 x 575mm LED flexible inspection mirror
- 555mm LED flexible pick-up tool
- Pen type digital multimeter
- Folded screen digital multimeter

(Set contents may vary slightly according to product development and availability)

Configuration 1



Configuration 2



Order Code	Configuration	6-Drawer Cabinet	3-Drawer Tool Chest	Qty. Inc.	Order Code	Configuration	6-Drawer Cabinet	3-Drawer Tool Chest	Qty. Inc.
TFTK01					TFTK01				
-01195A	1	✓	✓	195	-01186A	2	✓	✓	186
-01194B	1	✓		194	-01185B	2	✓		185

108Pc Industrial Engineer's Tool Kit

- 18" cantilever toolbox (460 x 200 x 224mm)
- 1/2" dr. offset ratchet handle
- 1/2" dr. hex sockets (13pcs): 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32mm
- 1/2" dr. universal joint
- 1/2" dr. x 250mm T sliding handle
- 6pc industrial double ended open spanner set (6 x 7 - 16 x 17mm)
- 9pc metric extra long L ball driver set (1.5 - 10mm)
- 6pc industrial screwdriver set
- 7"/180mm industrial combination pliers
- 8"/200mm industrial long nose pliers
- 7"/180mm industrial heavy-duty diagnose pliers
- 6"/150mm industrial flat nose pliers
- 180mm curved jaw grip wrench
- 8"/200mm phosphate adjustable wrench
- 1lb wood shafted ball-pein hammer
- 8"/200mm flat engineers file (medium)
- 8"/200mm 3-square engineers file (medium)
- 8"/200mm half-round engineers file (medium)
- 8"/200mm round engineers file (medium)
- 6pc 160mm diamond file set
- 6pc punch set
- 160mm Kevlar scissors
- 10"/250mm English tinsnips
- 20 blade metric feeler gauge set (0.05 - 1.00mm)
- 24 blade metric 60° screw gauge set (0.25 - 6.00mm)
- Protective spectacles

(Set contents may vary slightly according to product development and availability)



Order Code	Numbers of Trays	Qty. Inc.
TFTK02		
-01108A	4	108

26Pc Industrial Electrician's Tool Kit

- 18" cantilever toolbox (460 x 200 x 224mm)
- 19pc insulation tool set (TMNS88-20119A)
- 8" insulation adjustable wrench
- 10" insulation water pump pliers
- 8" insulation straight blade knife
- 5M x 19mm measuring tape
- Rechargeable headlight
- Auto-range digital multimeter

(Set contents may vary slightly according to product development and availability)



Order Code	Numbers of Trays	Qty. Inc.
TFTK02		
-02026N	4	26

58Pc Industrial Engineer's Tool Kit

- 18" cantilever toolbox (460 x 200 x 224mm)
- 8pc industrial combination spanner set (6 - 22mm)
- 6pc industrial screwdriver set
- 9pc metric L hex wrench set (1.5 - 10mm)
- 8pc folded Torx wrench set (T9 - T40)
- 7"/180mm industrial combination pliers
- 7"/180mm industrial heavy-duty diagnose pliers
- 8"/200mm industrial long nose pliers
- 6"/150mm industrial flat nose pliers
- 8"/200mm phosphate adjustable wrench
- 1lb wood shafted ball-pein hammer
- 6pc chisel & punch set
- 10pc 140mm diamond file set
- 5M x 19mm measuring tape
- 18mm x 8 segment utility knife
- Magnetic pick-up tool
- 190mm 125-250V mains tester

(Set contents may vary slightly according to product development and availability)



Order Code	Numbers of Trays	Qty. Inc.
TFTK02		
-01058A	4	58

53Pc Industrial Engineer's Tool Kit

- 18" cantilever toolbox (460 x 200 x 224mm)
- 8pc industrial double ended open spanner set (8 x 9 - 22 x 24mm)
- 9pc metric L ball driver set (1.5 - 10mm)
- 7pc industrial screwdriver set
- 7"/180mm industrial combination pliers
- 8"/200mm industrial long nose pliers
- 7"/180mm industrial heavy-duty diagnose pliers
- 6"/150mm industrial flat nose pliers
- 180mm straight jaw grip wrench
- 6"/150mm phosphate adjustable wrench
- 1.5lbs wood shafted ball-pein hammer
- 400cc heavy duty grease gun
- 8"/200mm flat engineers file (medium)
- 8"/200mm 3-square engineers file (medium)
- 8"/200mm half-round engineers file (medium)
- 8"/200mm round engineers file (medium)
- 6pc 140mm needle file set
- 6pc chisel & punch set
- 3M x 16mm measuring tape
- Auto-range digital multimeter
- LED flexible pick-up tool
- 9mm x 13 segment utility knife

(Set contents may vary slightly according to product development and availability)



Order Code	Numbers of Trays	Qty. Inc.
TFTK02		
-01053A	4	53

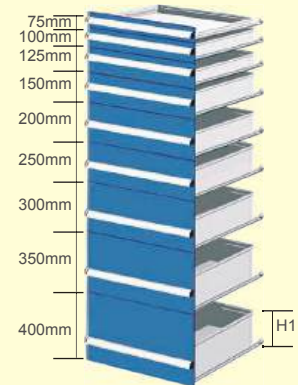
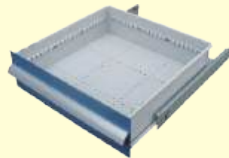
Tool Cabinets

- Made of high quality cold-rolled steel plates with phosphate coating
- Single-slide drawers, 90% opening, load capacity of 80kg each drawer
- Double-slide drawers, 100% opening, load capacity of 150kg each drawer
- Featured with dividable drawers
- **Customization is available on customer's requirement**

Single-Slide-Drawer Type








Double-Slide-Drawer Type



Double Tool Storages

- Below listed dimensions are adopted from single-slide-drawer cabinets, for the double-slide-drawers, they will be slightly larger
- **Customization is available on customer's requirement**

	Single-Slide	Double-Slide		
	Order Code TFTB20	Order Code TFTB20	Size W x D x H(mm)	Drawer Configuration (W: 411mm + 411mm)
	-00850L	-00852L	810 x 572 x 850	2 x (1 x 100, 2 x 200, 1 x 250)
	-01150L	-01152L	810 x 572 x 1150	2 x (2 x 125, 2 x 150, 2 x 250)
	-01450L	-01452L	810 x 572 x 1450	2 x (2 x 125, 2 x 150, 2 x 250, 1 x 400)
	-00850D	-00852D	816 x 725 x 850	2 x (1 x 100, 2 x 200, 1 x 250)
	-01150D	-01152D	816 x 725 x 1150	2 x (2 x 125, 2 x 150, 2 x 250)
	-01450D	-01452D	816 x 725 x 1450	2 x (2 x 125, 2 x 150, 2 x 250, 1 x 400)
	Order Code TFTB20	Order Code TFTB20	Size W x D x H(mm)	Drawer Configuration (W: 564mm + 564mm)
	-11000L	-11002L	1116 x 572 x 1000	2 x (2 x 100, 2 x 200, 1 x 300)
	-11350L	-11352L	1116 x 572 x 1350	2 x (1 x 100, 2 x 200, 1 x 350, 1 x 400)
	-11000D	-11002D	1122 x 725 x 1000	2 x (2 x 100, 2 x 200, 1 x 300)
	-11350D	-11352D	1122 x 725 x 1350	2 x (1 x 100, 2 x 200, 1 x 350, 1 x 400)
	Order Code TFTB20	Order Code TFTB20	Size W x D x H(mm)	Drawer Configuration (W: 717mm + 717mm)
	-21000L	-21002L	1422 x 572 x 1000	2 x (2 x 100, 2 x 200, 1 x 300)
	-21450L	-21452L	1422 x 572 x 1450	2 x (2 x 75, 2 x 150, 2 x 250, 1 x 400)
	-21000D	-21002D	1428 x 725 x 1000	2 x (2 x 100, 2 x 200, 1 x 300)
	-21450D	-21452D	1428 x 725 x 1450	2 x (2 x 75, 2 x 150, 2 x 250, 1 x 400)
	Order Code TFTB20	Order Code TFTB20	Size W x D x H(mm)	Drawer Configuration (W: 411mm + 564mm)
	-31000L	-31002L	963 x 572 x 1000	2 x (2 x 100, 2 x 200, 1 x 300)
	-31450L	-31452L	963 x 572 x 1450	2 x (2 x 125, 2 x 200, 2 x 350)
	-31000D	-31002D	969 x 725 x 1000	2 x (2 x 100, 2 x 200, 1 x 300)
	-31450D	-31452D	969 x 725 x 1450	2 x (2 x 125, 2 x 200, 2 x 350)
	Order Code TFTB20	Order Code TFTB20	Size W x D x H(mm)	Drawer Configuration (W: 564mm + 717mm)
	-41000L	-41002L	1270 x 572 x 1000	2 x (2 x 100, 2 x 200, 1 x 300)
	-41350L	-41352L	1270 x 572 x 1350	2 x (2 x 125, 3 x 200, 1 x 400)
	-41000D	-41002D	1276 x 725 x 1000	2 x (2 x 100, 2 x 200, 1 x 300)
	-41350D	-41352D	1276 x 725 x 1350	2 x (2 x 125, 3 x 200, 1 x 400)

Combination Tool Cabinets

- Additional inside shelves are available, height adjustment of every 25mm with load capacity of 100kg each shelf
- Additional desktops, casters, handles, hanging panels and the other accessories are available according to customer's requirement
- Below listed dimensions are adopted from single-slide-drawer cabinets, for the double-slide-drawers, they will be slightly larger
- **Customization is available on customer's requirement**



Slide-Slide		Double-Slide		Size W x D x H(mm)	Drawer Configuration (mm)	Shelves
Order Code TFTB20		Order Code TFTB20				
-40700L		-40702L		870 x 572 x 700	2 x 100, 2 x 200	1
-40850L		-40852L		870 x 572 x 850	3 x 100, 1 x 200, 1 x 250	1
-41100L		-41102L		870 x 572 x 1000	3 x 100, 2 x 150, 1 x 300	2
-41150L		-41152L		870 x 572 x 1150	1 x 100, 2 x 150, 2 x 200, 1 x 250	2
-41450L		-41452L		870 x 572 x 1450	2 x 100, 2 x 150, 3 x 200, 1 x 250	3
-40700D		-40702D		876 x 725 x 700	2 x 100, 2 x 200	1
-40850D		-40852D		876 x 725 x 850	3 x 100, 1 x 200, 1 x 250	1
-41100D		-41102D		876 x 725 x 1000	3 x 100, 2 x 150, 1 x 300	2
-41150D		-41152D		876 x 725 x 1150	1 x 100, 2 x 150, 2 x 200, 1 x 250	2
-41450D		-41452D		876 x 725 x 1450	2 x 100, 2 x 150, 3 x 200, 1 x 250	3
-50700L		-50702L		1023 x 572 x 700	2 x 100, 2 x 200	1
-50850L		-50852L		1023 x 572 x 850	3 x 100, 1 x 200, 1 x 250	1
-51000L		-51002L		1023 x 572 x 1000	3 x 100, 2 x 150, 1 x 300	2
-51150L		-51152L		1023 x 572 x 1150	1 x 100, 2 x 150, 2 x 200, 1 x 250	2
-51450L		-51452L		1023 x 572 x 1450	2 x 100, 2 x 150, 3 x 200, 1 x 250	3
-50700D		-50702D		1029 x 725 x 700	2 x 100, 2 x 200	1
-50850D		-50852D		1029 x 725 x 850	3 x 100, 1 x 200, 1 x 250	1
-51000D		-51002D		1029 x 725 x 1000	3 x 100, 2 x 150, 1 x 300	2
-51150D		-51152D		1029 x 725 x 1150	1 x 100, 2 x 150, 2 x 200, 1 x 250	2
-51450D		-51452D		1029 x 725 x 1450	2 x 100, 2 x 150, 3 x 200, 1 x 250	3



Order Code TFTB20	Order Code TFTB20	Size W x D x H(mm)	Drawer Configuration (mm)	Shelves
-60700L	-60702L	870 x 572 x 700	1 x 100	1
-61150L	-61152L	870 x 572 x 1150	2 x 100	2
-61450L	-61452L	870 x 572 x 1450	3 x 100	2
-60700D	-60702D	876 x 725 x 700	1 x 100	1
-61150D	-61152D	876 x 725 x 1150	2 x 100	2
-61450D	-61452D	876 x 725 x 1450	3 x 100	2
-70700L	-70702L	1023 x 572 x 700	1 x 100	1
-71150L	-71152L	1023 x 572 x 1150	2 x 100	2
-71450L	-71452L	1023 x 572 x 1450	3 x 100	2
-70700D	-70702D	1029 x 725 x 700	1 x 100	1
-71150D	-71152D	1029 x 725 x 1150	2 x 100	2
-71450D	-71452D	1029 x 725 x 1450	3 x 100	2

Configured with wood desktop, pegboard, handles and casters etc.

Configured with complex desktop, pegboard etc.



Roller Cabinets with Tool Panels

- A - Single-Slide; B - Double-Slide
- Customization is available on customer's requirement



Single-Slide	Double-Slide
Order Code TFTB21	Order Code TFTB21
-10820A	-10820B

Size W x D x H (mm):
564 x 572 x 820

Drawer configuration (mm):
2 x 100, 1 x 150, 1 x 200

Height of pegboard tool panel (mm): 550

Casters:
4" Polyurethane,
2 x fixed,
2 x swivels with brakes



Single-Slide	Double-Slide
Order Code TFTB21	Order Code TFTB21
-10870A	-10870B

Size W x D x H (mm):
564 x 572 x 870

Drawer configuration (mm):
3 x 100, 2 x 150

Height of pegboard tool panel (mm): 550

Casters:
4" Polyurethane,
2 x fixed,
2 x swivels with brakes



Single-Slide	Double-Slide
Order Code TFTB21	Order Code TFTB21
-10970A	-10970B

Size W x D x H (mm):
564 x 572 x 970

Drawer configuration (mm):
2 x 75, 2 x 100,
1 x 150, 1 x 200

Height of pegboard tool panel (mm): 550

Casters:
4" Polyurethane,
2 x fixed,
2 x swivels with brakes



Single-Slide	Double-Slide
Order Code TFTB21	Order Code TFTB21
-20870A	-20870B

Size W x D x H (mm):
717 x 572 x 870

Drawer configuration (mm):
3 x 100, 2 x 150

Height of pegboard tool panel (mm): 550

Casters:
4" Polyurethane,
2 x fixed,
2 x swivels with brakes



Single-Slide	Double-Slide
Order Code TFTB21	Order Code TFTB21
-20970A	-20970B

Size W x D x H (mm):
717 x 572 x 970

Drawer configuration (mm):
2 x 75, 2 x 100,
1 x 150, 1 x 200

Height of pegboard tool panel (mm): 550

Casters:
4" Polyurethane,
2 x fixed,
2 x swivels with brakes



Single-Slide	Double-Slide
Order Code TFTB21	Order Code TFTB21
-30870A	-30870B

Size W x D x H (mm):
564 x 572 x 870

Drawer configuration (mm):
1 x 100

Compartment height (mm):
460

Height of pegboard tool panel (mm): 550

Casters:
4" Polyurethane,
2 x fixed,
2 x swivels with brakes

Large Combination Roller Cabintes

- Customization is available on customer's requirement



- 30mm composite desktop
- 1 shelf
- Drawer configuration (mm): 3 x 100, 2 x 150
- Caster wheels: 5" Polyurethane, 2 x fixed, 2 x swivels with brakes

Single-Slide

Double-Slide

Order Code	Order Code	Dimensions
TFTB22	TFTB22	W x D x H(mm)
-40870L	-40872L	1150 x 600 x 870



- 30mm composite desktop
- 1 shelf
- Drawer configuration (mm): 2 x 100, 4 x 150, 2 x 200
- Caster wheels: 5" Polyurethane, 2 x fixed, 2 x swivels with brakes

Single-Slide

Double-Slide

Order Code	Order Code	Dimensions
TFTB22	TFTB22	W x D x H(mm)
-41870L	-41872L	1150 x 600 x 870



- 30mm composite desktop
- 1 shelf, 1 pegboard (450mm)
- Drawer configuration (mm): 2 x 75, 1 x 100, 2 x 200
- Caster wheels: 5" Polyurethane, 2 x fixed, 2 x swivels with brakes

Single-Slide

Double-Slide

Order Code	Order Code	Dimensions
TFTB22	TFTB22	W x D x H(mm)
-40920L	-40922L	1150 x 600 x 870

Service Carts

- Single-slide drawers, 90% opening, load capacity of 80kg each drawer
- 4" polyurethane casters, 2 x fixed, 2 x swivels with brakes
- Customization is available on customer's requirement

Upper Drawers



Order Code	Size	Drawer Configuration	Drawer Height	Top Cover
TFTB23	W x D x H(mm)	(mm)	(mm)	
-10800A	411 x 572 x 800	2 x 100	300	1
-10850A	411 x 572 x 850	2 x 100	300	1
-10900A	411 x 572 x 900	2 x 150	400	1
-11000A	411 x 572 x 1000	2 x 150	400	1
-20800A	564 x 572 x 800	2 x 100	300	1
-20850A	564 x 572 x 850	2 x 100	300	1
-20900A	564 x 572 x 900	2 x 150	400	1
-21000A	564 x 572 x 1000	2 x 150	400	1
-30800A	717 x 572 x 800	2 x 100	300	1
-30850A	717 x 572 x 850	2 x 100	300	1
-30900A	717 x 572 x 900	2 x 150	400	1
-31000A	717 x 572 x 1000	2 x 150	400	1

Lower Drawers



Order Code	Size	Drawer Configuration	Drawer Height	Top Cover
TFTB23	W x D x H(mm)	(mm)	(mm)	
-10800B	411 x 572 x 800	2 x 100	300	1
-10850B	411 x 572 x 850	2 x 100	300	1
-10900B	411 x 572 x 900	2 x 150	400	1
-11000B	411 x 572 x 1000	2 x 150	400	1
-20800B	564 x 572 x 800	2 x 100	300	1
-20850B	564 x 572 x 850	2 x 100	300	1
-20900B	564 x 572 x 900	2 x 150	400	1
-21000B	564 x 572 x 1000	2 x 150	400	1
-30800B	717 x 572 x 800	2 x 100	300	1
-30850B	717 x 572 x 850	2 x 100	300	1
-30900B	717 x 572 x 900	2 x 150	400	1
-31000B	717 x 572 x 1000	2 x 150	400	1

TEMOTUF™ Professional Heavy Duty Drawer Cabinet Series

EXCELLENT

- Equipped with an European made central lock which can lock all of the drawers in cabinets simultaneously with one turn of a key. The mutual opening rate of locks is less than 1/2000. Each lock and key correspond to a unique 5-digit code for key replacement. Also there is an option of master key system to provide or limit access to different cabinets which increasing convenience, security, peace of mind and control
- Interlocking mechanism ensures only one drawer can be opened at any time to prevent the filing cabinet from accidentally falling over
- European made drawer slides are made from 3mm quality steel plates by one-time forming, ensuring smooth pulling
- European made bearing tested for 100,000 pulls, ensuring load-bearing capacity and long-lasting use
- These cabinets must be secured to the floor or to the wall
- Load capacity of each drawer: Normal - 100kg; Telescopic Full Extension - 200kg
- **Top covers/mats and drawer compartments are optional**
- **Regular colors to order: blue, green, gray and silver, please inquire us for other colors**
- **Customization is available on customer's requirement**

4 Drawer Cabinet



Order Code TFTB30	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-10505A	No.1	564 x 573 x 600(h)	75 x 2	Normal	87%
			150 x 1	Normal	87%
			200 x 1	Normal	87%
			200 x 1	Normal	87%

5 Drawer Cabinets



Order Code TFTB30	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-10605A	No.1	564 x 573 x 700(h)	75 x 2	Normal	87%
			100 x 1	Normal	87%
			150 x 1	Normal	87%
			200 x 1	Normal	87%
-10705A	No.2	564 x 573 x 800(h)	50 x 1	Normal	87%
			100 x 2	Normal	87%
			150 x 1	Normal	87%
			150 x 1	Normal	87%
			300 x 1	Normal	87%

6 Drawer Cabinets



Order Code TFTB30	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-10905A	No.1	564 x 573 x 1000(h)	75 x 2	Normal	87%
			100 x 1	Normal	87%
			150 x 1	Normal	87%
			200 x 1	Normal	87%
-10755A	No.2	564 x 573 x 850(h)	300 x 1	Normal	87%
			75 x 1	Normal	87%
			100 x 3	Normal	87%
			125 x 1	Normal	87%
			250 x 1	Normal	87%

5 Drawer Wide Cabinets



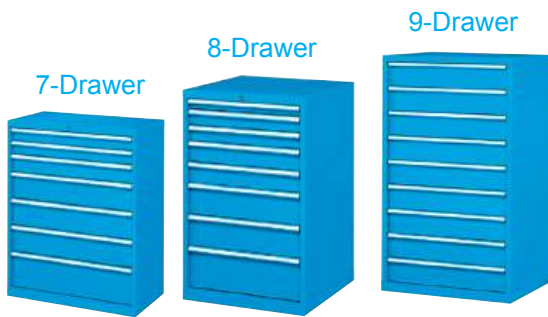
Order Code TFTB30	Model	Size (mm)	Shelf Configuration (mm)	Type of Shelf	Pullout of Shelf
-40340A	No.1	1023 x 573 x 850(h)	100 x 3	Normal	87%
			150 x 1	Telescopic Full Ext.	100%
			300 x 1	Telescopic Full Ext.	100%
-40345B	No.2	1023 x 573 x 850(h)	100 x 3	Telescopic Full Ext.	100%
			150 x 1	Telescopic Full Ext.	100%
			300 x 1	Telescopic Full Ext.	100%

Pullout 3-Shelf Cabinets



Order Code TFTB30	Model	Size (mm)	Shelf Configuration	Type of Shelf	Pullout of Shelf
-20581A	No.1	717 x 726 x 1450(h)	Upper	Height Adj.	N/A, Fixed
			Middle	Pullout	87%
			Lower	Pullout	87%
-20586B	No.2	717 x 726 x 1450(h)	Upper	Height Adj.	N/A, Fixed
			Middle	Pullout	100%
			Lower	Pullout	100%

Multiple Drawer Cabinets



7 Drawer Cabinets

Order Code TFTB30	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-10340A	No.1	717 x 573 x 850(h)	50 x 1	Normal	87%
			75 x 2	Normal	87%
			100 x 2	Normal	87%
			150 x 1	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%
-10345B	No.2	717 x 573 x 850(h)	50 x 1	Normal	87%
			75 x 2	Telescopic Full Ext.	100%
			100 x 2	Telescopic Full Ext.	100%
			150 x 1	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%
-20340A	No.3	717 x 726 x 850(h)	50 x 1	Normal	87%
			75 x 2	Normal	87%
			100 x 2	Normal	87%
			150 x 1	Normal	87%
			200 x 1	Normal	87%
-20345B	No.4	717 x 726 x 850(h)	50 x 1	Normal	87%
			75 x 2	Telescopic Full Ext.	100%
			100 x 2	Telescopic Full Ext.	100%
			150 x 1	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%

8 Drawer Cabinets

Order Code TFTB30	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-10401A	No.1	717 x 573 x 1000(h)	50 x 1	Normal	87%
			75 x 2	Normal	87%
			100 x 3	Normal	87%
			150 x 1	Telescopic Full Ext.	100%
			250 x 1	Telescopic Full Ext.	100%
-10406B	No.2	717 x 573 x 1000(h)	50 x 1	Normal	87%
			75 x 2	Telescopic Full Ext.	100%
			100 x 3	Telescopic Full Ext.	100%
			150 x 1	Telescopic Full Ext.	100%
			250 x 1	Telescopic Full Ext.	100%
-20400A	No.3	717 x 726 x 1000(h)	50 x 1	Normal	87%
			75 x 2	Normal	87%
			100 x 2	Normal	87%
			150 x 2	Normal	87%
			200 x 1	Telescopic Full Ext.	100%
-20405B	No.4	717 x 726 x 1000(h)	50 x 1	Normal	87%
			75 x 2	Telescopic Full Ext.	100%
			100 x 2	Telescopic Full Ext.	100%
			150 x 2	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%

9 Drawer Cabinets

Order Code TFTB30	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-10580B	No.1	717 x 573 x 1450(h)	150 x 9	Telescopic Full Ext.	100%

7 Drawer Wide Cabinets



Order Code TFTB30	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-40400A	No.1	1023 x 573 x 1000(h)	75 x 2	Normal	87%
			100 x 1	Normal	87%
			150 x 3	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%
-40405B	No.2	1023 x 573 x 1000(h)	75 x 2	Telescopic Full Ext.	100%
			100 x 1	Telescopic Full Ext.	100%
			150 x 3	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%

9 Drawer Wide Cabinets



Order Code TFTB30	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-40580A	No.1	1023 x 573 x 1450(h)	75 x 2	Normal	87%
			100 x 2	Normal	87%
			150 x 2	Normal	100%
			200 x 2	Telescopic Full Ext.	100%
			300 x 1	Telescopic Full Ext.	100%
-40585B	No.2	1023 x 573 x 1450(h)	75 x 2	Telescopic Full Ext.	100%
			100 x 2	Telescopic Full Ext.	100%
			150 x 2	Telescopic Full Ext.	100%
			200 x 2	Telescopic Full Ext.	100%
			300 x 1	Telescopic Full Ext.	100%

Double Drawer Cabinets with Lower Buck Storage Compartments



Order Code TFTB30	Model	Size (mm)	Drawer Configuration (mm)	Compartment Configuration (mm)	Drawer Type / Compartment Shelf
-11605A	No.1	564 x 573 x 700(h)	75 x 2	425(h) x 1	2 x Normal Drawers 1 x Height Adj. Shelf
-11705A	No.2	564 x 573 x 800(h)	100 x 1 150 x 1	425(h) x 1	2 x Normal Drawers 1 x Height Adj. Shelf

TEMOTUF™ Professional Heavy Duty Roller Cabinet Series

EXCELLENT

- Equipped with an European made central lock which can lock all of the drawers in cabinets simultaneously with one turn of a key. The mutual opening rate of locks is less than 1/2000. Each lock and key correspond to a unique 5-digit code for key replacement. Also there is an option of master key system to provide or limit access to different cabinets which increasing convenience, security, peace of mind and control
- Interlocking mechanism ensures only one drawer can be opened at any time to prevent the filing cabinet from accidentally falling over
- European made drawer slides are made from 3mm quality steel plates by one-time forming, ensuring smooth pulling
- European made bearing tested for 100,000 pulls, ensuring load-bearing capacity and long-lasting use
- Load capacity of each drawer: Normal - 100kg; Telescopic Full Extension - 200kg
- These cabinets must be secured to the floor or to the wall
- Top covers/mats and drawer compartments are optional
- Regular colors to order: blue, green, gray and silver, please inquire us for other colors
- **Customization is available on customer's requirement**

4 Drawer Roller Cabinet

- Overall load capacity: 310kg
- Equipped with 4" rubber casters: 2 fixed + 2 swivels with brakes
- Equipped with a top cover
- Comes with rubber drawer liners for additional protection



Order Code	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
TFTB31			75 x 1	Normal	87%
-55002A	No.1	564 x 613 x 777(h)	100 x 1	Normal	87%
			125 x 1	Normal	87%
			200 x 1	Normal	87%
			200 x 1	Normal	87%

5 Drawer Roller Cabinet

- Overall load capacity: 310kg
- Equipped with 4" rubber casters: 2 fixed + 2 swivels with brakes
- Equipped with a top cover
- Comes with rubber drawer liners for additional protection



Order Code	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
TFTB31			75 x 2	Normal	87%
-56001A	No.1	564 x 613 x 877(h)	100 x 1	Normal	87%
			150 x 1	Normal	87%
			200 x 1	Normal	87%
			200 x 1	Normal	87%

4 Drawer Combination Roller Cabinet

- 4 drawers + 1 adjustable height shelf
- Equipped with 4" rubber casters: 2 fixed + 2 swivels with brakes
- 1 flap door
- 1 perforated tool panel
- 1 rubber covered MDF top
- Side handle
- Tools, hooks and toolboxes etc. are not included



Order Code	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
TFTB31			75 x 2	Normal	87%
-23415A	No.1	717 x 726 x 1027/1727(h)	100 x 1	Normal	87%
			200 x 1	Normal	87%
			300 x 1	Normal	87%
			300 x 1	1 Flap Door / 1 Height Adj. Shelf	-

6 Drawer Roller Cabinet

- Overall load capacity: 350kg
- Equipped with 4" rubber casters: 2 fixed + 2 swivels with brakes
- Equipped with a top cover
- Comes with rubber drawer liners for additional protection



Order Code	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
TFTB31			75 x 2	Normal	87%
-57002A	No.1	564 x 613 x 977(h)	100 x 2	Normal	87%
			150 x 1	Normal	87%
			200 x 1	Normal	87%
			200 x 1	Normal	87%

6 Drawer Wide Roller Cabinets

- Overall load capacity: 600kg
- Equipped with a top cover
- Equipped with 4" elastic rubber casters: 2 fixed + 2 swivels with brakes
- Comes with rubber drawer liners for additional protection



Order Code TFTB31	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-53405A	No.1	1098 x 727 x 1037(h)	75 x 2	Normal	87%
			100 x 1	Normal	87%
			150 x 2	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%
-53455B	No.2	1098 x 727 x 1037(h)	75 x 2	Telescopic Full Ext.	100%
			100 x 1	Telescopic Full Ext.	100%
			150 x 2	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%

7 Drawer Roller Cabinets

- Overall load capacity: 350kg
- Equipped with a top cover
- Equipped with 4" rubber casters: 2 fixed + 2 swivels with brakes
- Comes with rubber drawer liners for additional protection



Order Code TFTB31	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-13401A	No.1	717 x 574 x 1027(h)	50 x 1	Normal	87%
			75 x 2	Normal	87%
			100 x 2	Normal	87%
			150 x 1	Telescopic Full Ext.	100%
-13451B	No.2	717 x 574 x 1027(h)	200 x 1	Telescopic Full Ext.	100%
			50 x 1	Normal	87%
			75 x 2	Telescopic Full Ext.	100%
			100 x 2	Telescopic Full Ext.	100%
-23401A	No.3	717 x 802 x 1027(h)	150 x 1	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%
			50 x 1	Normal	87%
			75 x 2	Normal	87%
-23451B	No.4	717 x 802 x 1027(h)	100 x 2	Normal	87%
			150 x 1	Normal	87%
			200 x 1	Normal	87%
			50 x 1	Normal	87%
-23451B	No.4	717 x 802 x 1027(h)	75 x 2	Telescopic Full Ext.	100%
			100 x 2	Telescopic Full Ext.	100%
			150 x 1	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%

7 Drawer Wide Roller Cabinets

- Overall load capacity: 600kg
- Equipped with a top cover
- Equipped with 4" elastic rubber casters: 2 fixed + 2 swivels with brakes
- Comes with rubber drawer liners for additional protection



Order Code TFTB31	Model	Size (mm)	Drawer Configuration (mm)	Drawer Type	Drawer Opening
-54002A	No.1	1098 x 727 x 1187(h)	75 x 2	Normal	87%
			100 x 1	Normal	87%
			150 x 3	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%
-54052B	No.2	1098 x 727 x 1187(h)	75 x 2	Telescopic Full Ext.	100%
			100 x 1	Telescopic Full Ext.	100%
			150 x 3	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%
-74002B	No.3	1506 x 727 x 1187(h)	75 x 2	Telescopic Full Ext.	100%
			100 x 1	Telescopic Full Ext.	100%
			150 x 3	Telescopic Full Ext.	100%
			200 x 1	Telescopic Full Ext.	100%

ABS Enhanced Impact Resistant Tool Cases

- This case is made of ultra sturdy ABS plastic with a stylish design, withstands impacts and falls with ease
- Rugged aluminum rim with reinforced corners
- Four feet provide additional security and stability and protect the bottom of the case shell from abrasions from uneven surfaces
- 3-digit combination lock with lock latches
- Quality hinged lid and supports
- Main compartment with aluminum divider system to accommodate various needs
- 37 tool pockets in total for tool storage and organization



Order Code	Outer Dimensions (mm)	Inner Dimensions (mm)	Volume (L)	Gross Weight (kg)	Load Capacity (kg)
TFTB06					
-03011A	500 x 420 x 200	460 x 355 x 180	29	5.0	25
-04011A	500 x 430 x 225	465 x 360 x 210	35	5.2	30

High Volume Impact Resistant HDPE Plastic Tool Case

- This case is made of high-strength HDPE plastic with a stylish design, withstands impacts and falls with ease
- Rugged aluminum rim with reinforced corners
- Unique arc lines on the lid are not only for easier identification but also designed for extra strength
- Four feet provide additional security and stability and protect the bottom of the case shell from abrasions from uneven surfaces
- 3-digit combination lock with lock latches
- Quality hinged lid and supports
- Main compartment with aluminum divider system to accommodate various needs
- Comes with a should strap for convenient carrying

- Volume: 35L
- Inner dimensions: 480 x 360 x 195mm
- Load capacity: 30kg
- Weight: 6kg

- Tools are not included



Order Code: **TFTB06-01010A**

28L Economic ABS High Volume Engineers Tool Case

- This economic case is made of ultra sturdy ABS plastic, withstands impacts and falls with ease. It can satisfy your needs at a low cost while maintaining reliable quality
- Rugged aluminum rim with reinforced corners
- Four feet provide additional security and stability and protect the bottom of the case shell from abrasions from uneven surfaces
- 3-digit combination lock with lock latches
- Quality hinged lid and supports
- The flexible insertion system comes with 2 tool boards for 3-side use, up to 38 tool pockets
- Main compartment with aluminum divider system to accommodate various needs



Order Code	Outer Dimensions (mm)	Inner Dimensions (mm)	Volume (L)	Gross Weight (kg)	Load Capacity (kg)
TFTB06					
-10000A	480 x 375 x 180	460 x 355 x 170	28	4.5	20

Classic Impact Resistant Service Engineer's Trolley Case

- This trolley case is made of ultra sturdy ABS plastic. It is a perfect travel companion in a classic design for any use and in any situation, especially for the professionals
- Rugged aluminum rim with reinforced corners
- The telescoping handle and built-in inline casters make it easy to transport even when full
- Four feet provide additional security and stability and protect the bottom of the case shell from abrasions from uneven surfaces
- 3-digit combination lock with lock latches
- Quality hinged lid and supports
- Main compartment with aluminum divider system to accommodate various needs

- Volume: 36L
- Inner dimensions: 485 x 350 x 195mm
- Load capacity: 30kg
- Weight: 8kg

- Tools are not included



Order Code: **TFTB06-05010B**

Waterproof Plastic Cases **IP67**

- This waterproof plastic case is ideal for transportation and protection of camera and audio-visual equipment, electronics, instruments, drones, laptops, GPS, tablets and other small high value items. It is a weatherproof product can be used indoors and outdoors
- Made of high-impact-resistant ABS plastic through injection molding, ensuring durability in the harshest environments
- The IP67 rating signifies its ability to shield against dust and solid particles entirely
- The fully customizable interior ESD foam provides exceptional shock protection, allowing you to create your own shapes
- The pressure relief valve offers a safe means to balance pressure inside and outside the case, especially during changes in altitude or extreme conditions
- Featured with a pad lock hole for additional security
- The dimensions of the case are flight suitable



Order Code	Length (mm)	Width (mm)	Height (mm)
TFTB05			
-01010A	277	228	99
-01020A	277	228	153
-01030A	372	267	135
-01040A	387	289	104
-01050A	456	355	133
-01060A	415	319	168
-01070A	456	372	185
-01080A	515	435	199
-01090A	670	500	210

Waterproof Plastic Trolley Case

- This waterproof plastic trolley case is ideal for transportation and protection of camera and audio-visual equipment, electronics, instruments, drones, laptops, GPS, tablets and other small high value items
- Made of high-impact-resistant ABS plastic through injection molding, ensuring durability in the harshest environments
- The IP67 rating signifies its ability to shield against dust and solid particles entirely
- The fully customizable interior ESD foam provides exceptional shock protection, allowing you to create your own shapes
- The pressure relief valve offers a safe means to balance pressure inside and outside the case, especially during changes in altitude or extreme conditions
- Featured with a pad lock hole for additional security
- Comfortable and wide handle for effortless pulling and long-lasting use
- Dimensions: 720 x 470 x 260mm



Order Code: **TFTB05-02010B**

Small Waterproof Plastic Case



Order Code	Length (mm)	Width (mm)	Height (mm)	Weight (kg)
TFTB05				
-01001A	239	144	70	0.35

Split Leather Pliers/Tool Holsters & Waist Belt

- Crafted from quality split leather, hand sewn, rivet reinforced
- Durable, and wear resistant

Image 1 - Single Deep Loop



Image 2 - Double-Loop



Image 3 - 3-Loop



Image 4 - 4-Loop



Image 5 - Comb. 4-Loop



Image 6 - 5-Loop



Image 7 - 6-Loop



Image 8 - 7-Loop



Image 9 - Electrician Belt



Order Code	Type	Loop Opening x Total Height (cm)	Weight (g)	Image
TFTB59				
-00101A	Single Deep Loop	6 x 19	88	1
-00102A	Double-Loop	(3.5 + 4.5) x 16.5	64	2
-00103A	3-Loop	(3.2 + 4.3 + 3.2) x 16.5	96	3
-00104A	4-Loop	(4 + 3.2 + 2.2 + 3.5) x 14.5	116	4
-00204A	Comb. 4-Loop	(2 + 7 + 7 + 2) x 23.5	124	5
-00105A	5-Loop	(2.5 + 3.3 + 4 + 3.3 + 2.5) x 15	126	6
-00106A	6-Loop	(2.5 + 3.2 + 4 + 4 + 3.2 + 2.5) x 16.5	168	7
-00107A	7-Loop	(2 + 3 + 3.2 + 4.2 + 2.2 + 2.2 + 2) x 18	206	8
-00501B	Electrician Belt	3.3 x 143 (Width x Length)	226	9

Extra Heavy Duty Oxford Cloth Multi-usage Tool Bag

- This heavy duty tool bag is made of premium 1680D oxford cloth material, which is waterproof and durable
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Multiple pockets for easy storage of a variety of tools
- Increased volume can accommodate more tools with ease
- Large dot rubber feet giving enhanced protection and effect isolation of the dirt
- Rugged zipper closure helps prevent tool loss
- Super load capacity up to 80kg
- Dual-color: blue/black



Order Code	Size	Dimensions (cm) (W x H x T)	Pockets	Load Capacity (kg)
TFTB59				
-30008D	17"	42 x 26 x 23	3 (exterior) + 11 (interior)	80

Oxford Cloth Multi-usage Maintenance Tool Bag

- This heavy duty tool bag is made of premium 600D oxford cloth material, which is waterproof and durable
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Multiple pockets for easy storage of a variety of tools
- Increased volume can accommodate more tools with ease
- Thickened bottom for high load-bearing up to 30kg
- Rugged zipper closure helps prevent tool loss
- Suitable for applications such as elevator installation and maintenance, construction, broadband equipment installation and maintenance, home appliance installation and maintenance, etc.
- Dual-color: blue/black



Order Code	Size	Dimensions (cm) (W x H x T)	Pockets	Load Capacity (kg)
TFTB59				
-30001D	16"	39 x 28 x 25	6 (exterior) + 10 (interior)	30

Heavy Duty Oxford Cloth Electricians' Tool Bag

- This heavy duty tool bag is made of premium 600D oxford cloth material, which is waterproof and durable
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Multiple pockets and loops for easy storage of a variety of tools
- Thickened bottom for high load-bearing up to 30kg
- Rugged zipper closure helps prevent tool loss
- A standard equipment for electricians, telecom engineers and maintenance engineers etc.
- Dual-color: blue/black



Order Code	Size	Dimensions (cm) (W x H x T)	Pockets / Loops	Load Capacity (kg)
TFTB59				
-30004A	14"	35 x 28 x 11.5	5 (exterior) + 1 (interior)	30

Heavy Duty Multi-loops Electricians' Waist Tool Pouch

- This heavy duty electricians' waist tool pouch is made of premium 600D oxford cloth material, which is waterproof and durable
- Reinforced edges for enhanced durability
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Multiple pockets and loops for easy storage of a variety of tools
- Suitable for working at height
- Dual-color: blue/black



Order Code	Dimensions (cm) (W x H x T)	Pockets / Loops	Load Capacity (kg)
TFTB59			
-30004B	56 x 16 x 5	1 + 9	30

Heavy Duty Maintenance Worker & Electricians' Waist Tool Pouch

- This heavy duty waist tool pouch is made of premium 600D oxford cloth material, which is waterproof and durable
- Reinforced edges for enhanced durability
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Multiple pockets and loops for easy storage of a variety of tools
- A standard equipment for maintenance engineers, mechanics and electricians etc.
- Suitable for working at height
- Dual-color: blue/black



Order Code	Dimensions (cm) (W x H x T)	Pockets / Loops	Load Capacity (kg)
TFTB59			
-30002B	56 x 16 x 5	1 + 7	30

Heavy Duty Oxford Cloth Waist Pouch with Drill Holster and Tool Loops

- This heavy duty multiple-use waist tool pouch is made of premium 600D oxford cloth material, which is waterproof and durable
- Reinforced edges for enhanced durability
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Consists of a pistol drill holster, multiple large mouth loops and a large velcro pocket for easy storage of a variety of tools
- A standard equipment for electricians, maintenance engineers and mechanics etc.
- Dual-color: blue/black



Order Code	Dimensions (cm) (W x H x T)	Pockets / Loops	Load Capacity (kg)
TFTB59			
-30007B	56 x 16 x 5	1 + 4	30

Heavy Duty Multi-usage Maintenance Waist Tool Pouch

- This heavy duty multiple-use waist tool pouch is made of premium 600D oxford cloth material, which is waterproof and durable
- Reinforced edges for enhanced durability
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Consists of 2 large main pockets, side pockets and multiple loops for ample and easy storage of a variety of tools
- A standard equipment for electricians and maintenance engineers etc.
- Dual-color: blue/black



Order Code	Dimensions (cm) (W x H x T)	Pockets / Loops	Load Capacity (kg)
TFTB59			
-30001B	22 x 23 x 13	3 + 5	20

Heavy Duty Electricians' Tool Pouch with Big Pockets

- This heavy duty multiple-use waist tool pouch is made of premium 600D oxford cloth material, which is waterproof and durable
- Reinforced edges for enhanced durability
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Consists of multiple large pockets and loops to accommodate more tools
- Suitable for working at height
- Dual-color: blue/black



Order Code	Dimensions (cm) (W x H x T)	Pockets / Loops	Load Capacity (kg)
TFTB59			
-30005B	28 x 22 x 15	3 + 9	30

Oxford Cloth Multi-loops Maintenance Workers' Tool Pouch

- This heavy duty multiple-use waist tool pouch is made of premium 600D oxford cloth material, which is waterproof and durable
- Reinforced edges for enhanced durability
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Consists of multiple pockets and loops to accommodate more tools
- A standard equipment for maintenance engineers, mechanics and electricians etc.
- Dual-color: blue/black



Order Code	Dimensions (cm) (W x H x T)	Pockets / Loops	Load Capacity (kg)
TFTB59			
-30008B	15 x 20 x 8	1 + 4	20

Oxford Cloth Electricians' Waist Tool Pouch

- This heavy duty multiple-use waist tool pouch is made of premium 600D oxford cloth material, which is waterproof and durable
- Reinforced edges for enhanced durability
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Consists of 5 large mouth loops for ample storage capacity
- Suitable for working at height and low-voltage operation etc. making tool access more convenient
- Dual-color: blue/black



Order Code	Dimensions (cm) (W x H x T)	Loops	Load Capacity (kg)
TFTB59			
-30003B	23 x 22 x 3	5	20

Oxford Cloth Multi-usage Drill Holster

- This heavy duty multiple-use pistol drill holster is made of premium 600D oxford cloth material, which is waterproof and durable
- Reinforced edges for enhanced durability
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- Hook and loop velcro can fasten the pistol drill tightly
- Additionally featured with small pockets for carrying drill bits
- Suitable for working at height
- A standard equipment for electricians and maintenance engineers etc.
- Dual-color: blue/black



Order Code	Dimensions (cm) (W x H x T)	Pockets / Loops	Load Capacity (kg)
TFTB59			
-30006B	15 x 25 x 3	6	15

Super Magnetic Wristband

- Made of premium 600D oxford cloth material, which is waterproof and durable
- Wear-resistant, scratch-resistant, tear-resistant, waterproof coating for long service life
- One-size-fits-most design with a breathable mesh and adjustable strap ensures a comfortable fit during work
- Powerful magnets to securely hold screws, nails, bolts, washers, and drill bits, keeping them within easy reach
- Dual-color: blue/black



Order Code	Extended Size (cm) (W x H x T)
TFTB59	
-31000C	38 x 9 x 0.4

Multi-purpose Plastic Storage Boxes

- Made of quality PP material
- Industrial grade ensures tight and secured locking

Multi-compartment Free Combination Plastic Storage Boxes

- Transparent visibility is for better identification and management
- Removable dividers can make the different sizes of compartments for flexible storage
- Versatile usage for many purposes such as small parts, tools, rings, earrings, beads, necklaces, bracelets, nails, etc



Order Code	Numbers of Compartments	Configuration	Dimensions (mm) (L x W x H)	Compartment Sizes (mm)	Printing	Image
TFTB25						
-07596A	10	Semi Removable Dividers	133 x 99 x 27	45 x 24	Yes	1
-07572A	18	Semi Removable Dividers	200 x 146 x 27	36 x 31	Yes	2
-07589A	18	Fixed Dividers	210 x 120 x 32	37 x 32	Yes	3
-07619A	24	Semi Removable Dividers	195 x 130 x 38	42 x 29	Yes	4
-07602A	9	Semi Removable Dividers	185 x 155 x 43	50 x 58	Yes	5
-07626A	12	Semi Removable Dividers	260 x 124 x 40	58 x 40	Yes	6
-07657A	No Dividers	No Dividers	260 x 125 x 42	-	Yes	7
-07558A	18	Semi Removable Dividers	275 x 185 x 41	58 x 43	Yes	8
-07565A	12	Fully Removable Dividers	225 x 168 x 57	52 x 53	Yes	9
-07541A	15	Fully Removable Dividers	280 x 170 x 55	52 x 53	Yes	10
-07534A	24	Semi Removable Dividers	335 x 223 x 56	52 x 52	No	11

Small Hand Carry Plastic Tool Organizer

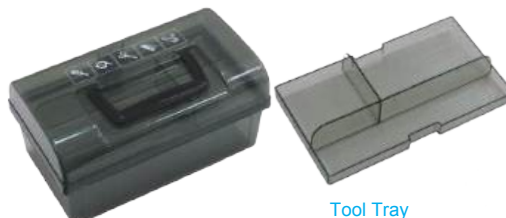
- Lightweight and sturdy, reliable locking mechanism
- Transparent visibility, easier management



Order Code	Dimensions (mm) (L x W x H)	Printing
TFTB25		
-07725A	230 x 195 x 55	Yes

Small Double-layer Plastic Tool Box

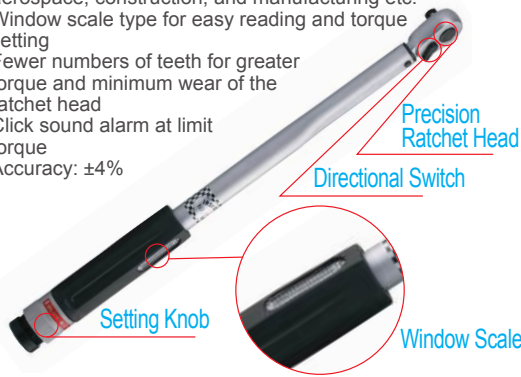
- Lightweight and sturdy, reliable locking mechanism
- Dual-layer design to accommodate more tools and parts
- Transparent visibility for easier management



Order Code	Dimensions (mm) (L x W x H)	Printing
TFTB25		
-07732A	225 x 135 x 110	Yes

Professional Torque Wrenches - Torque Setting Window Type

- Commonly used in industries such as automotive, aerospace, construction, and manufacturing etc.
- Window scale type for easy reading and torque setting
- Fewer numbers of teeth for greater torque and minimum wear of the ratchet head
- Click sound alarm at limit torque
- Accuracy: ±4%



Order Code	Square Drive (inch)	Torque Range Metric (Nm)	Numbers of Teeth	Total Length (mm)	Weight (kg)
-10010W	1/4"	3 - 15	20	193	0.21
-10020W	1/4"	6 - 30	20	300	0.59
-20010W	3/8"	12 - 60	30	390	0.75
-20020W	3/8"	20 - 100	30	425	0.88
-30010W	1/2"	40 - 200	32	530	1.62
-30020W	1/2"	60 - 320	32	600	1.83

Professional Torque Wrenches - Torque Setting Ring Type

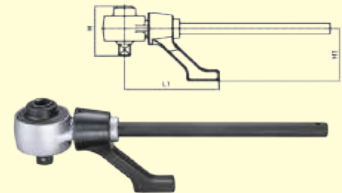
- Commonly used in industries such as automotive, aerospace, construction, and manufacturing etc.
- Ring scale type for easy reading and torque setting
- Fewer numbers of teeth for greater torque and minimum wear of the ratchet head
- Metric and imperial dual readings
- Click sound alarm at limit torque
- Accuracy: ±4%



Order Code	Square Drive (inch)	Torque Range		Numbers of Teeth	Total Length (mm)	Weight (kg)
		Metric (Nm)	Imperial (lbf.ft)			
-10010D	1/4"	6 - 30	4.43 - 22.14	24	350	0.74
-20010D	3/8"	20 - 110	15.00 - 81.18	24	385	0.96
-30010D	1/2"	40 - 210	29.52 - 154.98	24	535	1.7
-30020D	1/2"	70 - 350	51.66 - 258.30	24	645	2.54
-40010D	3/4"	100 - 500	73.80 - 369.00	24	865	3.66
-40020D	3/4"	140 - 700	103.32 - 516.60	24	1092	5.94
-40030D	3/4"	140 - 980	103.32 - 723.24	24	1230	6.46
-50010D	1"	300 - 1500	221.40 - 1107.00	24	1700	11.58

Torque Multipliers

- This manual torque multiplier is engineered for tightening and loosening of heavy-duty fastening applications
- Commonly used in industries such as aerospace, shipbuilding, automotive, and manufacturing etc.
- Commonly used in energy fields such as power plants, oil fields, and refineries etc.
- Commonly used in construction such as bridging, railways, automated garages etc.
- It is prohibited to work with air tools or by the excessive force
- Slim head design is suitable for use in narrow spaces



Order Code	Type	Input Sq.	Output Sq.	Ratio	Maximum Output Torque		Accuracy	W (mm)	H (mm)	H1 (mm)	L (mm)	L1 (mm)
					Metric (Nm)	Imperial (lbf.ft)						
-31001M	Slim Head	1/2"	3/4"	1:3	1500	1100	±6%	73	84	90	420	157
-41001M	Slim Head	3/4"	1"	1:3	3000	2200	±6%	92	104	120	500	206

11Pc Professional Torque Wrench Kits

- Commonly used in industries such as automotive, aerospace, construction, and manufacturing etc.



3/8" Sq. Dr. Kit

Ring scale torque wrench: 20 - 110N.m

Sockets: 10, 12, 14, 17, 19, 21mm

Hex socket bits: 4, 5, 6, 8mm

1/2" Sq. Dr. Kit

Ring scale torque wrench: 40 - 210N.m

Sockets: 17, 19, 21, 22, 24, 27mm

Hex socket bits: 6, 8, 10, 12mm

Order Code	Size
TFTQ17	
-20011D	3/8"
-30011D	1/2"

6Pc Professional Torque Wrench Kit

- Commonly used in industries such as automotive, aerospace, construction, and manufacturing etc.



1/2" Sq. Dr. Kit

Ring scale torque wrench: 40 - 210N.m

Extension bar: 250mm

75mm deep impact sockets: 17, 19, 21mm

Hex socket bit: H3

Order Code	Size
TFTQ18	
-30006D	1/2"

Heavy Duty Bi-manual Ratchet Wrench Kit

- Unique bi-manual design for effortless operation
- Featured with 30-tooth ratchet head for comparatively high torque
- Come with deep sockets: 17, 19, 21mm



Order Code	Size
TFWR10	
-30004T	1/2"

Digital Torque Wrenches

- This digital torque wrench is featured with multiple functions such as torque setting, unit setting, mode setting, value storage, value reset and value output etc. It is easy to use while providing accurate readings and reducing the requirements for operators. It is suitable for for bolt tightening and loosening in automobile and machinery industries
- It can be operated in both CW and CCW
- Quick release button is easy for either socket removal or installation
- Dual operation modes of real-time and peak hold
- Buzzer and LCD indications at preset torque value
- 4 engineering units (ft-lb, in-lb, Nm, kgf.cm)
- Measurement accuracy: CW: $\pm 2\%$, CCW: $\pm 2.5\%$
- Stores up to 100 recordable values
- Automatic shutdown after 5 minutes
- Powered by 2 x AA (1.5V) batteries
- Comes with a calibration certificate



Order Code	Max Torque (Nm)	Square Drive (in)	Resolution (Nm)	Length (mm)
TFTQ14				
-01010A	10	1/4	0.01	390
-01030A	30	1/4	0.01	390
-02030A	30	3/8	0.01	420
-02060A	60	3/8	0.01	420
-02085A	85	3/8	0.01	420
-02135A	135	3/8	0.1	420
-03135A	135	1/2	0.1	535
-03200A	200	1/2	0.1	535
-03340A	340	1/2	0.1	655
-03410A	410	1/2	0.1	675
-04500A	500	3/4	0.1	950
-04850A	850	3/4	0.1	1220

Knurled Aluminum Handled Torque Wrenches

- Non-slip with anodic aluminum knurled handle design for comfortable control
- Featured with a quick release pear head reversible ratchet, securely engages without slipping
- It can be operated in both CW and CCW
- High visibility laser etched dual scales make it easy to adjust your specified torque
- Measurement accuracy: $\pm 3\%$
- Comes with a calibration certificate



Order Code	Max Torque (Nm)	Square Drive (in)	Graduation (Nm)	Length (mm)	Weight (kg)
TFTQ09					
-10006K	1 - 6	1/4	0.05	200	0.33
-10020K	2 - 20	1/4	0.15	228	0.36
-20030K	5 - 30	3/8	0.25	250	0.38
-20060K	5 - 60	3/8	0.5	250	0.38
-30110K	10 - 110	1/2	0.5	460	1.2
-30210K	20 - 210	1/2	1.0	490	1.3
-30350K	65 - 350	1/2	1.0	540	1.4
-30400K	70 - 400	1/2	1.0	540	1.4
-30450K	90 - 450	1/2	1.0	540	1.4

Rectangular Interchangeable Digital Torque Wrenches

- This rectangular interchangeable digital torque wrench is featured with multiple functions such as torque setting, unit setting, mode setting, value storage, value reset and value output etc. It is easy to use while providing accurate readings and reducing the requirements for operators. It is suitable for for bolt tightening and loosening in automobile and machinery industries
- It can be operated in both CW and CCW
- Dual operation modes of real-time and peak hold
- Buzzer and LCD indications at 80% of preset torque value
- 4 engineering units (ft-lb, in-lb, Nm, kgf.cm)
- Measurement accuracy: CW: $\pm 2\%$, CCW: $\pm 2.5\%$
- Stores up to 100 recordable values
- Powered by 2 x AA (1.5V) batteries
- Comes with a calibration certificate
- Automatic shutdown after 5 minutes

Installation of the following types of heads can meet the different job requirements



** Each wrench equipped with this standard Interchangeable adjustable open end

Order Code	Max Torque (Nm)	Sq. Dr. Size (mm)	Resolution (Nm)	Adj. Jaw Opening (mm)	Length (mm)
TFTQ15					
-11010A	10	9 x 12	0.01	5 - 31	360
-11030A	30	9 x 12	0.01	5 - 31	360
-11060A	60	9 x 12	0.01	5 - 31	380
-11085A	85	9 x 12	0.01	5 - 31	380
-11135A	135	9 x 12	0.1	5 - 31	380
-12200A	200	14 x 18	0.1	10 - 41	475
-12340A	340	14 x 18	0.1	10 - 41	595

1. Adjustable Wrench Heads

Order Code	Insert Size (mm)	Adj. Jaw Opening (mm)	Max Torque (Nm)
TFTQ15			
-11005F	9 x 12	5 - 27	135
-11010F	9 x 12	5 - 30	135
-12005F	14 x 18	5 - 30	410
-12010F	14 x 18	10 - 41	410

2. Ratchet Heads

Order Code	Insert Size (mm)	Sq. Dr. (in)	Max Torque (Nm)
TFTQ15			
-21105F	9 x 12	1/4	135
-22105F	9 x 12	3/8	135
-23105F	9 x 12	1/2	135
-23205F	14 x 18	1/2	410

3. Rebar Heads

Order Code	Insert Size (mm)	Max Torque (Nm)
TFTQ15		
-32005F	14 x 18	135
-32010F	14 x 18	200
-32015F	14 x 18	340
-32020F	14 x 18	410

Industrial Pre-Set Torque Wrenches

- Innovated design for industrial applications
- Constructed with alloy steel body for durability and long-lasting
- SCM440 high strength ratchet head with 72 teeth ensuring durability and precision torsion
- Ergonomic plastic handle for maximum anti-fatigue
- Consistent within +/- 3% of output and when operated correctly units maintain a repeatability factor of 100% by 10,000 times, twice the general standard
- Quality meets standards of DIN ISO 6798 & ASME B107.14 etc.



Order Code	Sq. Dr.	Torque Range (Nm)	Graduation (Nm)	Overall Length (mm)	Weight (kg)
TFTQ11					
-10006R	1/4"	1 - 6	0.05	205	0.25
-10025R	1/4"	5 - 25	0.2	250	0.28
-20060R	3/8"	10 - 60	0.5	300	0.42
-20120R	3/8"	10 - 120	1.0	400	0.85
-30120R	1/2"	20 - 120	1.0	415	0.98
-30220R	1/2"	40 - 220	1.0	500	1.14
-30330R	1/2"	60 - 330	1.5	560	1.23
-40600R	3/4"	100 - 600	2.5	1000	6.25
-40800R	3/4"	150 - 800	5.0	1200	7.25
-41000R	3/4"	200 - 1000	5.0	1200	7.25
-51500R	1"	300 - 1500	10.0	1800	9.8
-52000R	1"	400 - 2000	10.0	1800	10.2

Heavy Duty Industrial Pre-Set Torque Wrenches

- Constructed with alloy steel body and handle for durability and long-lasting
- SCM440 high strength ratchet head ensuring durability and precision torsion
- +/- 3% torque accuracy, undergoes repeatability test by 10,000 times
- Interchangeably ratchet head, clockwise and counterclockwise directional operation
- Quality meets standards of DIN ISO 6798 & ASME B107.14 etc.



Image 1



Image 2



Image 3



Industrial Interchangeable Pre-Set Torque Wrenches

- Innovated design for industrial applications
- Constructed with alloy steel body and handle ensuring durable and effortless use
- +/- 3% torque accuracy, undergoes repeatability test by 10,000 times
- Quick release design, compatible to rectangle inserts of 9 x 12mm
- Applied to both clockwise and counterclockwise directions
- Quality meets standards of DIN ISO 6798 & ASME B107.14 etc.



Order Code	Insert Size (mm)	Torque Range (Nm)	Graduation (Nm)	Overall Length (mm)	Weight (kg)
TFTQ15					
-15006C	9 x 12	1 - 6	0.05	194	0.24
-15025C	9 x 12	5 - 25	0.2	239	0.3
-15060C	9 x 12	10 - 60	0.5	293	0.43
-15120C	9 x 12	10 - 120	1.0	408	0.87
-15220C	9 x 12	40 - 220	1.0	498	1.15
-15330C	9 x 12	60 - 330	1.5	558	1.25

** Torque wrenches for 14 x 18 inserts are also available on requests

Rectangle Wrench Inserts

Open Ends



Adjustable Wrench Heads



Order Code	Insert Size (mm)	Open End Size (mm)	Order Code	Insert Size (mm)	Adj. Jaw Opening (mm)
TFTQ15			TFTQ15		
-40007F	9 x 12	7	-41030F	9 x 12	0 - 30
-40008F	9 x 12	8	-41040F	14 x 18	0 - 40
-40009F	9 x 12	9			
-40010F	9 x 12	10			
-40011F	9 x 12	11			
-40012F	9 x 12	12			
-40013F	9 x 12	13			
-40014F	9 x 12	14			
-40015F	9 x 12	15			
-40016F	9 x 12	16			
-40017F	9 x 12	17			
-40018F	9 x 12	18			
-40019F	9 x 12	19			
-40022F	9 x 12	22			
-40024F	9 x 12	24			

Ratchet Heads



Order Code	Insert Size (mm)	Sq. Dr.	Numbers of Teeth
TFTQ15			
-51105F	9 x 12	1/4"	72
-52105F	9 x 12	3/8"	72
-53105F	14 x 18	1/2"	72

Order Code	Sq. Dr.	Torque Range (Nm)	Graduation (Nm)	Overall Length (mm)	Weight (kg)	Image
TFTQ11						
-40600A	3/4"	100 - 600	2.5	1000	4.8	1
-41000A	3/4"	200 - 1000	5.0	1200	5.9	2
-51500A	1"	300 - 1500	10.0	1800	9.8	3
-52000A	1"	400 - 2000	10.0	1800	9.8	3
-53000A	1"	600 - 3000	10.0	1800	9.8	3

Torque Wrench Kits for Motorcycle and Car Maintenance - Blow Case Packaging

20pc 1/4" Sq. Dr. Kit

- Contents:
- 1 of 1/4" dr. torque wrench: 5 - 25Nm
- 14 of 1/4" dr. bit sockets: H2, H3, H4, H5, H6, H8, H10, T10, T15, T20, T25, T30, PH2, SL4
- 2 of 1/4" dr. sockets: 10mm, 12mm
- 1 of 3/8" dr. socket: 15mm
- 1 of 1/4" dr. extension bar: 4" (100mm)
- 1 of driver converter: 1/4" (F) x 3/8" (M)



Order Code	Sq. Dr.	Numbers of Pieces
TFTQ18	1/4"	20
-11020K	1/4"	20

13pc 3/8" Sq. Dr. Kit

- Contents:
- 1 of 3/8" dr. torque wrench: 10 - 120Nm
- 8 of 3/8" dr. bit sockets: H6, H8, H10, H12, T40, T45, T50, T55
- 3 of 3/8" dr. sockets: 10mm, 14mm, 17mm
- 1 of 3/8" dr. extension bar: 3" (75mm)



Order Code	Sq. Dr.	Numbers of Pieces
TFTQ18	3/8"	13
-21013K	3/8"	13

7pc 1/2" Sq. Dr. Kit

- Contents:
- 1 of 1/2" dr. torque wrench: 40 - 210Nm
- 5 of 1/2" dr. sockets :14mm, 17mm, 19mm, 21mm, 23mm
- 1 of 1/2" dr. extension bar: 5" (125mm)



Order Code	Sq. Dr.	Numbers of Pieces
TFTQ18	1/2"	7
-31007K	1/2"	7

Professional Torque Wrench Kits for General Applications - Blow Case Packaging

18pc 1/4" Sq. Dr. Kit

- Contents:
- 1 of 1/4" dr. torque wrench: 5 - 25Nm
- 14 of 1/4" dr. bit sockets: T20, T25, T30, T40, H3, H4, H5, H6, H8, H10, PH1, PH2, SL4, SL7
- 1 of 1/4" dr. long bit socket : H5 x 100mm
- 1 of 1/4" dr. extension bar: 4" (100mm)
- 1 of driver converter: 1/4" (F) x 3/8" (M)



Order Code	Sq. Dr.	Numbers of Pieces
TFTQ18	1/4"	18
-12018K	1/4"	18

7pc 3/8" Sq. Dr. Kit

- Contents:
- 1 of 3/8" dr. torque wrench: 19 - 110Nm
- 3 of 3/8" dr. sockets: 13mm, 15mm, 17mm
- 1 of 3/8" dr. extension bar: 3" (75mm)
- 1 of driver converter: 3/8" (F) x 1/4" (M)
- 1 of driver converter: 3/8" (F) x 1/2" (M)



Order Code	Sq. Dr.	Numbers of Pieces
TFTQ18	3/8"	7
-22007K	3/8"	7

7pc 1/2" Sq. Dr. Kit

- Contents:
- 1 of 1/2" dr. torque wrench: 40 - 210Nm
- 4 of 1/2" dr. sockets :14mm, 17mm, 19mm, 24mm
- 1 of 1/2" dr. spark plug socket : 21mm
- 1 of 1/2" dr. extension bar: 5" (125mm)



Order Code	Sq. Dr.	Numbers of Pieces
TFTQ18	1/2"	7
-32007K	1/2"	7

NovaTork Full Metal Ring Scale Torque Wrenches

- All steel construction, superb durability
- Permanently stamped major and minor scales for precision torque values setting
- Convenient major metric and secondary imperial scales
- +/-4% accuracy in clockwise direction from 20% to 100% max torque
- Pull/push to unlock/lock the locking ring to setting torque
- Grooved handle for non-slip grip
- 100% calibrated



Product Code	Sq. Dr.	Torque Range			Overall Length (mm)	Weight (kg)	Remark
		Main Scale (Nm)	Sec. Scale (Lb.ft)	Sec. Scale (Lb.in)			
NVTQ11							
-11200G	1/4"	2.5 - 12	-	20 - 105	290	0.7	
-12000G	1/4"	4.0 - 20	-	30 - 180	290	0.7	
-23000G	3/8"	6.0 - 30	-	50 - 250	318	0.8	
-21250G	3/8"	25 - 125	20 - 90	-	443	1.0	
-26000G	3/8"	10 - 60	9 - 45	-	388	1.0	
-31250G	1/2"	25 - 125	20 - 90	-	443	1.0	
-36000G	1/2"	10 - 60	9 - 45	-	388	1.0	
-32000G	1/2"	40 - 200	30 - 150	-	468	1.2	
-33350G	1/2"	65 - 335	50 - 250	-	528	1.3	
-33350L	1/2"	65 - 335	50 - 250	-	700	2.1	Large Size
-43350G	3/4"	65 - 335	50 - 250	-	528	1.3	
-43350L	3/4"	65 - 335	50 - 250	-	700	2.2	Large Size
-48000G	3/4"	160 - 800	120 - 600	-	1055	5.9	
-41000G	3/4"	200 - 1000	150 - 750	-	1055	5.9	
-51000G	1"	200 - 1000	150 - 750	-	1055	5.9	
-51500G	1"	300 - 1500	200 - 1100	-	1260	9.2	
-51500E	1"	300 - 1500	200 - 1100	-	2200	12.1	with Extension
-52000G	1"	400 - 2000	300 - 1500	-	1260	9.2	
-52000E	1"	400 - 2000	300 - 1500	-	2200	12.1	with Extension
-53000G	1"	600 - 3000	400 - 2000	-	1260	10.5	
-53000E	1"	600 - 3000	400 - 2000	-	2780	15.5	with Extension
-54000D	1"	1500 - 4000	1100 - 3000	-	2900	15.0	Temo Brand

NovaTork Double Window Scale Torque Wrenches

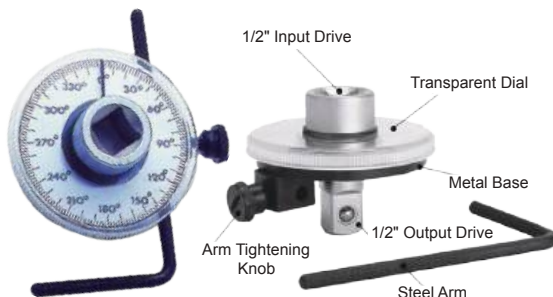
- Unique double window scale with fine increments
- 1/20 of increment on main scale
- Convenient major metric and secondary imperial scales
- +/-4% accuracy in clockwise direction from 20% to 100% max torque
- Pull/push to unlock/lock the locking ring to setting torque
- Ergonomic soft handles for comfortable grip
- 100% calibrated



Product Code	Sq. Dr.	Torque Range			Overall Length (mm)	Weight (kg)	Remark
		Main Scale (Nm)	Sec. Scale (Lb.ft)	Sec. Scale (Lb.in)			
NVTQ10							
-10120C	1/4"	2.5 - 12	-	20 - 105	285	0.5	
-10200C	1/4"	4.0 - 20	-	30 - 180	285	0.5	
-20300C	3/8"	6.0 - 30	-	50 - 250	313	0.7	
-20600C	3/8"	10 - 60	9 - 45	-	383	0.8	
-21250C	3/8"	25 - 125	20 - 90	-	428	0.9	
-30600C	1/2"	10 - 60	9 - 45	-	383	0.8	
-31250C	1/2"	25 - 125	20 - 90	-	428	0.9	
-32000C	1/2"	40 - 200	30 - 150	-	463	1.0	
-33350C	1/2"	65 - 335	50 - 250	-	523	1.2	
-33350L	1/2"	65 - 335	50 - 250	-	700	2.0	Large Size
-43350C	3/4"	65 - 335	50 - 250	-	523	1.2	
-43350L	3/4"	65 - 335	50 - 250	-	700	2.0	Large Size
-45000C	3/4"	100 - 500	80 - 400	-	840	4.0	
-41000C	3/4"	200 - 1000	150 - 750	-	1040	4.9	
-51000C	1"	200 - 1000	150 - 750	-	1040	4.9	
-51500C	1"	300 - 1500	200 - 1100	-	1250	8.2	
-52000C	1"	400 - 2000	300 - 1500	-	1250	8.2	
-53000C	1"	600 - 3000	400 - 2200	-	1250	9.5	

Torque Wrench Angle Gauge

- Designed for professional auto mechanics and heavy duty applications
- Torque angle gauge for fasteners where manufacturers are specifying both torque and angle settings. With this gauge the professional mechanic can meet the demands of the new specifications to turn the fastener a specified number
- Additional angular movement after torque is applied
- For use with 1/2" drive tools, universal and applies to all vehicles
- 360° angle scale in 2° increments, adjustable arm has 2 different lengths for flexibility of use
- Made of chrome vanadium steel for heavy duty and durable use
- Clear, easy to read dial



Order Code	Square Drive		Angle Gauge	Increment	Dial Diameter
	Input	Output			
TFTQ22					
-20360A	1/2"	1/2"	360°	2°	67mm

Ratchet Cable Cutters for Copper and Aluminum Cables

- Hardened alloy steel blades suitable for high-strength and sharp cutting
- Suitable for cutting copper/aluminum cables only, NOT suitable for steel wires or steel cored materials
- Telescopic galvanized handles for greater labor saving
- Ergonomic grip for anti-fatigue and better control

Type A Double-hand Operation **Type B** Single-hand Operation



Order Code	Type	Cutting Dia. Capacity (mm)	Length (mm)	Weight (kg)
TFCU50				
-10040A	A	40	346	1.6
-10040B	B	40	249	1.1
-10052A	A	52	397 - 568	2.9
-10065A	A	65	416 - 587	3.6
-10075A	A	75	416 - 587	3.6
-10095A	A	95	446 - 620	5.7
-10100A	A	100	490 - 660	1.8

1/2" Dr. Digital Torque Adapters

- The digital torsion meter is a torque monitoring device with a ratchet wrench. It is used for various tightening and disassembly control forces, compact, sturdy, easy to use, and ideal for industries such as automobiles, bicycles, and mechanical maintenance
- Large backlit LCD display for accurate reading
- 3 working modes of real-time mode, peak, and preset for flexible usage
- 4 torque units can be freely switched over among kgf.cm, Nm, lbf.ft, and lbf.in
- Buzzer and red light indications at preset torque value
- Measurement accuracy: CW: ±2%, CCW: ±2.5%



Order Code	Torque Range (Nm)	Square Drive (in)	Resolution (Nm)
TFTQ14			
-70030A	3 - 30	1/2	0.01
-70135A	13.5 - 135	1/2	0.1
-70200A	20 - 200	1/2	0.1

Preset Torque Screwdrivers

- Click sound alarm at the preset torque value while the tool slips
- Featured with a metal regulating wheel to prevent the faulty
- Dual directional operations of CW & CCW
- Ergonomic rubber grip for comfortable control, anti-slip and anti-sweat



Order Code	Torque Range (Nm)	Square Drive (in)	Resolution (Nm)	Accuracy	Length (mm)
TFTQ25					
-01006A	0.1 - 0.6	1/4	0.01	±5%	164
-01012A	0.2 - 1.2	1/4	0.02	±5%	164
-01030A	0.5 - 3.0	1/4	0.05	±5%	187
-01060A	1 - 6	1/4	0.1	±5%	187

Economy Preset Torque Screwdrivers

- Advanced design, economical and practical, comfortable grip
- Click sound alarm at the preset torque value while the tool slips
- Dual directional operations of CW & CCW
- Clear linear scale for accurate reading



Order Code	Torque Range (Nm)	Square Drive (in)	Resolution (Nm)	Accuracy	Length (mm)
TFTQ25					
-05006A	0.6	1/4	0.01	±5%	156
-05012A	1.2	1/4	0.02	±5%	156
-05030A	3.0	1/4	0.05	±5%	156
-05060A	6.0	1/4	0.1	±5%	156

72T Mirror Finish Ratchet Handles

- Constructed with chrome vanadium handle and chrome molybdenum ratchet head for enhanced durable
- Mirror polished handle, resistant to corrosion, rust, oil and easy to clean
- Ergonomic compound grip for comfortable operation and anti-slip
- 72-tooth ratchet is perfect for tight spaces



Professional Mirror Finish Offset Ratchet Handles

- Made of high-quality chrome vanadium steel
- Whale-shaped design for wider applications
- Mirror polished handle, resistant to corrosion, rust, oil and easy to clean
- Ergonomic compound grip for comfortable operation and anti-slip
- Quick release button is easy for either socket removal or installation
- 72-tooth ratchet is perfect for tight spaces



Order Code	Square Drive	Overall Length (mm)
TFWR01		
-10010A	1/4"	140
-20010A	3/8"	200
-30010A	1/2"	255

Professional Satin Finish Ratchet Handle

- Made of high-quality chrome vanadium steel
- Satin finished handle, resistant to scratch, corrosion, rust, oil and easy to clean
- Compound grip for comfortable grip and anti-slip
- Quick release button is easy for either socket removal or installation
- 45-tooth ratchet is for greater torque and minimum wear for various industrial needs



Order Code	Square Drive	Overall Length (mm)
TFWR02		
-10010A	1/4"	135

Industrial Ratchet Handles with Dotted Rubber Grips

- Made of high-quality chrome vanadium steel
- Satin finished handle, resistant to scratch, corrosion, rust, oil and easy to clean
- Dotted compound grip for maximum anti-slip
- Quick release button is easy for either socket removal or installation
- 72-tooth ratchet is perfect for tight spaces



Order Code	Square Drive	Overall Length (mm)
TFWR03		
-10010B	1/4"	140
-20010B	3/8"	195

Order Code	Type	Square Drive	Overall Length (mm)	Weight (g)
TFWR01				
-12001A		1/4"	152	140
-22001A	Offset	3/8"	194	300
-32001A		1/2"	250	620
-12001B		1/4"	160	200
-22001B	Straight	3/8"	200	350
-32001B		1/2"	255	650

Industrial Spanners

- Made of high quality chrome vanadium steel
- Satin finish for industrial use
- In accordance with German standard DIN311

Double Open Ended Spanners

Individuals

Order Code TFSP01	Size (mm)	Order Code TFSP01	Size (mm)
-10010A	6 × 7	-10150A	18 × 19
-10030A	8 × 9	-10190A	20 × 22
-10050A	10 × 11	-10200A	21 × 23
-10080A	12 × 13	-10210A	22 × 24
-10110A	14 × 15	-10230A	24 × 27
-10130A	16 × 17	-10250A	25 × 28
-10140A	17 × 19	-10280A	30 × 32



6 Piece Set **Order Code: TFSP01-80106M**

6 × 7mm, 8 × 9mm, 10 × 11mm
12 × 13mm, 14 × 15mm, 16 × 17mm

8 Piece Set **Order Code: TFSP01-80208M**

8 × 9mm, 10 × 11mm, 12 × 13mm
14 × 15mm, 16 × 17mm, 18 × 19mm
20 × 22mm, 22 × 24mm

12 Piece Set **Order Code: TFSP01-80312M**

6 × 7mm, 8 × 9mm, 10 × 11mm
12 × 13mm, 14 × 15mm, 16 × 17mm
18 × 19mm, 20 × 22mm, 21 × 23mm
24 × 27mm, 25 × 28mm, 30 × 32mm

Combination Spanners

Individuals

Order Code TFSP02	Size (mm)	Order Code TFSP02	Size (mm)
-10006A	6	-10017A	17
-10007A	7	-10018A	18
-10008A	8	-10019A	19
-10009A	9	-10020A	20
-10010A	10	-10021A	21
-10011A	11	-10022A	22
-10012A	12	-10023A	23
-10013A	13	-10024A	24
-10014A	14	-10027A	27
-10015A	15	-10030A	30
-10016A	16	-10032A	32



6 Piece Set **Order Code: TFSP02-80106M**

6mm, 8mm, 10mm, 12mm, 14mm, 17mm

8 Piece Set **Order Code: TFSP02-80208M**

6mm, 8mm, 10mm, 12mm,
14mm, 17mm, 19mm, 22mm

12 Piece Set **Order Code: TFSP02-80312M**

6mm, 8mm, 10mm, 12mm,
14mm, 17mm, 19mm, 22mm,
24mm, 27mm, 30mm, 32mm

14 Piece Set **Order Code: TFSP02-80414M**

6mm, 7 mm, 8 mm, 9 mm, 10 mm,
11mm, 12mm, 13mm, 14mm, 15mm,
16mm, 17mm, 18mm, 19mm

25 Piece Set **Order Code: TFSP02-80325M**

6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm,
13mm, 14 mm, 15 mm, 16mm, 17mm, 18mm,
19mm, 20mm, 21mm, 22mm, 23mm, 24mm,
25mm, 26mm, 27mm, 28mm, 30mm, 32mm

Double Ended Ring Spanners

Individuals

Order Code TFSP03	Size (mm)	Order Code TFSP03	Size (mm)
-10015A	6 × 7	-10095A	18 × 19
-10025A	8 × 9	-10135A	20 × 22
-10035A	8 × 10	-10145A	21 × 23
-10045A	10 × 11	-10155A	22 × 24
-10065A	12 × 13	-10185A	24 × 27
-10075A	14 × 15	-10205A	25 × 28
-10085A	16 × 17	-10245A	30 × 32
-10090A	17 × 19		



6 Piece Set **Order Code: TFSP03-80106M**

6 × 7mm, 8 × 9mm, 10 × 11mm
12 × 13mm, 14 × 15mm, 16 × 17mm

8 Piece Set **Order Code: TFSP03-80208M**

8 × 9mm, 10 × 11mm, 12 × 13mm
14 × 15mm, 16 × 17mm, 18 × 19mm
20 × 22mm, 22 × 24mm

12 Piece Set **Order Code: TFSP03-80312M**

6 × 7mm, 8 × 9mm, 10 × 11mm
12 × 13mm, 14 × 15mm, 16 × 17mm
18 × 19mm, 20 × 22mm, 21 × 23mm
24 × 27mm, 25 × 28mm, 30 × 32mm

Industrial Fully Polished Inch Combination Spanners

- Made of industrial-grade chrome vanadium steel
- Fully mirror finished

Order Code TFSP02	Size (in)	Order Code TFSP02	Size (in)
-40010B	1/4"	-40075B	3/4"
-40020B	5/16"	-40090B	7/8"
-40030B	3/8"	-40100B	15/16"
-40035B	7/16"	-40105B	1"
-40045B	1/2"	-40115B	1-1/16"
-40050B	9/16"	-40125B	1-1/8"
-40055B	5/8"	-40140B	1-1/4"
-40065B	11/16"		

Individual



12-piece Imperial Set



Order Code TFSP02	Qty	Size (in)	Packing
-94012N	12	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 15/16" & 1"	EVA Inlay

72T Mirror Polish Finished Ratchet Combination Spanners

- Mirror-polished, durable, and rust-resistant

Fixed Heads



Flex Heads



Ratchet Reversible



Size (mm)	Fixed Heads	Flex Heads	Ratchet Reversible	Size (mm)	Fixed Heads	Flex Heads	Ratchet Reversible
	Order Code TFSP07	Order Code TFSP07	Order Code TFSP07		Order Code TFSP07	Order Code TFSP07	Order Code TFSP07
6	-20060A	-30060A	-	18	-20180A	-30180A	-40180A
7	-20070A	-30070A	-	19	-20190A	-30190A	-40190A
8	-20080A	-30080A	-40080A	20	-20200A	-30200A	-
9	-20090A	-30090A	-40090A	21	-20210A	-30210A	-
10	-20100A	-30100A	-40100A	22	-20220A	-30220A	-
11	-20110A	-30110A	-40110A	23	-20230A	-30230A	-
12	-20120A	-30120A	-40120A	24	-20240A	-30240A	-
13	-20130A	-30130A	-40130A	25	-20250A	-30250A	-
14	-20140A	-30140A	-40140A	27	-20270A	-30270A	-
15	-20150A	-30150A	-40150A	30	-20300A	-30300A	-
16	-20160A	-30160A	-40160A	32	-20320A	-30320A	-
17	-20170A	-30170A	-40170A				



12pc Fixed Head Set (Blow Case)



22pc Fixed Head Set (EVA Inlay Case)

Order Code TFSP07	Type	Size (mm)	Packing
-20012T	12pc Set - Fixed Head	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19	Blow Case
-20022T	22pc Set - Fixed Head	6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32	EVA Inlay Case



12pc Flex Head Set (Blow Case)



12pc Ratchet Rev. Set (EVA Inlay Case)

Order Code TFSP07	Type	Size (mm)	Packing
-30012T	12pc Flex Head Set	8, 9, 10, 11, 12, 13,	Blow Case
-40012T	12pc Ratchet Rev. Set	14, 15, 16, 17, 18, 19,	EVA Inlay Case

72T Mirror Polished Double Ended Ring Ratchet Spanners

- Made of thickened chrome vanadium steel



Individuals

Order Code TFSP07	Size (mm)
-00809B	8 x 9
-00810B	8 x 10
-01011B	10 x 11
-01012B	10 x 12
-01213B	12 x 13
-01214B	12 x 14
-01415B	14 x 15
-01417B	14 x 17
-01618B	16 x 18
-01719B	17 x 19
-01922B	19 x 22
-02224B	22 x 24



8Pc Set in Zipped Oxford Cloth Bag

Order Code TFSP07	Size (mm)
-00108T	8 x 9, 10 x 11
	12 x 13, 14 x 15
	14 x 17, 16 x 18
	17 x 19 & 19 x 22

Phosphate Adjustable Wrenches

- Made of premium-quality chrome vanadium steel, drop forged, can meet the highest industrial standards world-widely
- Induction hardened jaws for durability and longevity
- Great jaw capacity for wider applications and exceeding ISO standard
- Engraved size markings for clear identification
- Black phosphate finish for easy clean and rust resistant
- Precision knurl for easy adjustment ensures a tight jaw fit
- Adjustable jaw is suitable for tight spaces



Order Code TFWR25	Size (mm)	Jaw Opening (mm)
-00150A	6" / 150mm	23.9mm
-00200A	8" / 200mm	28.6mm
-00250A	10" / 250mm	32.8mm
-00300A	12" / 300mm	38.0mm
-00375A	15" / 375mm	50.0mm

Industrial Satin Finished Adjustable Wrenches

- Made of forged chrome vanadium steel
- Precision worm for smooth adjustment and tight fit
- Satin finish for corrosion resistance and a slip resistant grip
- Precision laser scale with metric graduations
- Wider handle reducing the fatigue during work
- Square tail hanging hole design, easy to hang and store



Order Code TFWR25	Size	Overall Length (mm)	Jaw Opening (mm)	Jaw Depth (mm)	Jaw Thickness (mm)	Weight (kg)
-10200B	8" / 200mm	206	28	25	10 - 14	0.32
-10250B	10" / 250mm	255	33	32	11 - 15	0.50
-10300B	12" / 300mm	305	37	36	12 - 18	0.81
-10375B	15" / 375mm	385	48	46	14 - 22	1.48
-10450B	18" / 450mm	455	60	56	15 - 23	2.32
-10600B	24" / 600mm	606	64	68	23 - 33	4.71

Industrial Hex Sockets

- Made of quality chrome vanadium steel
- Mirror finish + knurling, resistant to corrosion and slip



1/4" Sq. Dr.

Order Code TFSK10	Size (mm)	Overall Length (mm)	Weight (g)
-10004A	4.0	25.0	10.0
-10005A	5.0	25.0	10.0
-10006A	6.0	25.0	10.0
-10007A	7.0	25.0	10.0
-10008A	8.0	25.0	15.0
-10009A	9.0	25.0	15.0
-10010A	10.0	25.0	15.0
-10011A	11.0	25.0	20.0
-10012A	12.0	25.0	25.0
-10013A	13.0	25.0	25.0
-10014A	14.0	25.0	25.0

3/8" Sq. Dr.

Order Code TFSK10	Size (mm)	Overall Length (mm)	Weight (g)
-20006A	6.0	28.0	25.0
-20007A	7.0	28.0	25.0
-20008A	8.0	28.0	25.0
-20009A	9.0	28.0	25.0
-20010A	10.0	28.0	25.0
-20011A	11.0	28.0	25.0
-20012A	12.0	28.0	25.0
-20013A	13.0	28.0	25.0
-20014A	14.0	28.0	30.0
-20015A	15.0	28.0	40.0
-20016A	16.0	28.0	35.0
-20017A	17.0	30.0	50.0
-20018A	18.0	30.0	60.0
-20019A	19.0	30.0	60.0
-20020A	20.0	30.0	75.0
-20021A	21.0	30.0	70.0
-20022A	22.0	30.0	80.0

1/2" Sq. Dr.

Order Code TFSK10	Size (mm)	Overall Length (mm)	Weight (g)
-30008A	8.0	38.0	50.0
-30009A	9.0	38.0	50.0
-30010A	10.0	38.0	55.0
-30011A	11.0	38.0	55.0
-30012A	12.0	38.0	55.0
-30013A	13.0	38.0	60.0
-30014A	14.0	38.0	55.0
-30015A	15.0	38.0	55.0
-30016A	16.0	38.0	60.0
-30017A	17.0	38.0	65.0
-30018A	18.0	38.0	85.0
-30019A	19.0	38.0	75.0
-30020A	20.0	38.0	90.0
-30021A	21.0	38.0	85.0
-30022A	22.0	38.0	100.0
-30023A	23.0	38.0	120.0
-30024A	24.0	38.0	110.0
-30025A	25.0	42.0	135.0
-30026A	26.0	42.0	160.0
-30027A	27.0	42.0	160.0
-30028A	28.0	42.0	180.0
-30029A	29.0	42.0	170.0
-30030A	30.0	44.0	210.0
-30032A	32.0	44.0	225.0

Industrial Extension Bars

- Made of quality chrome vanadium steel
- Mirror finish + knurling, resistant to corrosion and slip



1/4" Sq. Dr.

Order Code TFSK30	Size (mm)	Weight (g)
-10050E	50mm / 2"	20.0
-10100E	100mm / 4"	45.0
-10150E	150mm / 6"	65.0

3/8" Sq. Dr.

Order Code TFSK30	Size (mm)	Weight (g)
-20075E	75mm / 3"	80.0
-20150E	150mm / 6"	140.0
-20250E	250mm / 10"	240.0

1/2" Sq. Dr.

Order Code TFSK30	Size (mm)	Weight (g)
-30075E	75mm / 3"	145.0
-30125E	125mm / 5"	220.0
-30250E	250mm / 10"	430.0

Industrial T Sliding Handles

- Made of quality chrome vanadium steel
- Mirror finish, resistant to corrosion



Order Code TFSK31	Square Drive	Overall Length (mm)	Weight (g)
-10150E	1/4"	115.0	40.0
-20165E	3/8"	165.0	150.0
-30250E	1/2"	250.0	360.0

1/2" Dr. Industrial Full Steel Speed Bar

- Made of quality chrome vanadium steel
- Mirror finish + knurling, resistant to corrosion and slip



Order Code TFSK31	Square Drive	Overall Length (mm)	Weight (g)
-30420S	1/2"	420mm / 16-1/2"	600.0

Drive Converters

- Made of quality chrome vanadium steel
- Mirror finish, resistant to corrosion



1/4" Sq. Dr.

Order Code TFSK36	Square Drive (F x M)	Overall Length (mm)	Weight (g)
-11438A	1/4" x 3/8"	26.0	20.0
-23814A	3/8" x 1/4"	26.5	30.0

3/8" Sq. Dr.

Order Code TFSK36	Square Drive (F x M)	Overall Length (mm)	Weight (g)
-23814A	3/8" x 1/4"	26.5	30.0
-23812A	3/8" x 1/2"	36.5	50.0
-31238A	1/2" x 3/8"	36.5	50.0

1/2" Sq. Dr.

Order Code TFSK36	Square Drive (F x M)	Overall Length (mm)	Weight (g)
-23812A	3/8" x 1/2"	36.5	50.0
-31238A	1/2" x 3/8"	36.5	50.0
-31234A	1/2" x 3/4"	51.0	140.0
-43412A	3/4" x 1/2"	56.0	190.0

Industrial T Sliding Handles

- Made of quality chrome vanadium steel
- Mirror finish, resistant to corrosion



Order Code TFSK36	Square Drive	Overall Length (mm)	Weight (g)
-01414J	1/4"	34.5	20.0
-03838J	3/8"	36.0	25.0
-01212J	1/2"	39.5	30.0

3/4" Dr. Industrial Heavy Duty Hex Sockets

- Industrial grade, made of high quality forged chrome vanadium steel
- Satin finish, resistant to rust and slip



3/4" Sq. Dr.

Order Code	Size (mm)	Overall Length (mm)	Outside Diameter (mm)
TFSK10			
-40019A	19	50	36
-40021A	21	50	36
-40022A	22	50	36
-40023A	23	50	36
-40024A	24	50	36
-40025A	25	50	36
-40026A	26	50	37.5
-40027A	27	50	38
-40028A	28	50	39
-40029A	29	50	40
-40030A	30	53	42
-40032A	32	53	44
-40033A	33	53	45
-40034A	34	53	47
-40035A	35	58	48
-40036A	36	58	50
-40038A	38	58	52
-40041A	41	63	56
-40046A	46	68	62
-40050A	50	68	68
-40055A	55	70	74
-40060A	60	75	80
-40065A	65	75	85

3/4" Dr. Offset Fixed Handle

- Industrial grade, made of high quality chrome vanadium steel, overall quenching
- Mirror finish



Order Code	Size	Weight (g)
TFSK30		
-40100E	100mm / 4"	556
-40200E	200mm / 8"	723
-40400E	400mm / 16"	1334

3/4" Dr. Offset Fixed Handle

- Industrial grade, made of high quality chrome vanadium steel, overall quenching
- Mirror finish



Order Code	Size	Weight (g)
TFSK31		
-40380L	380mm / 15"	1200

3/4" Dr. T Handle

- Industrial grade, made of high quality chrome vanadium steel, overall quenching
- Mirror finish



Order Code	Size	Weight (g)
TFSK31		
-40460E	460mm / 18"	1000

3/4" Dr. Universal Joint

- Industrial grade, made of high quality chrome vanadium steel, overall quenching
- Mirror finish



Order Code	Square Drive (F x M)	Weight (g)
TFSK36		
-03434J	3/4" x 3/4"	350

37Pc 1/4" Dr. Small Screwdriver Bit & Socket Set

- Made of chrome vanadium steel, compact, practical and easy to carry
- 1/4" sq. dr. ratchet handle: 88mm
- 1/4" sq. dr. mirror finished hex sockets: 4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 13mm
- 1/4" sq. socket adapter: 25mm
- 1/4" sq. dr. screwdriver bits:
 - Slotted: 4.0, 5.0, 6.0, 7.0mm
 - ⊕ Phillips: PH1, PH2, PH3
 - ⊕ Pozidriv: PZ1, PH2, PZ3
 - ⊕ Torx: T8, T9, T10, T15, T20, T25, T30, T40
 - ⊕ Spline: M5, M6



Order Code	Qty.	Weight (g)
TFBT88		
-10237T	37	460

16Pc 1/4" Dr. Socket Set - Metric

- Made of high quality chrome vanadium steel
- 1/4" sq. dr. 72-tooth ratchet handle: 140mm
- 1/4" sq. dr. T sliding handle: 115mm
- 1/4" sq. dr. extension: 100mm
- 1/4" sq. dr. spinner handle: 150mm
- 1/4" sq. dr. universal joint
- 1/4" sq. dr. sockets (11 sizes in total): 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13mm



Order Code	Qty.
TFSK80	
-10116M	16

17Pc 1/2" Dr. Socket Set - Metric

- Made of high quality chrome vanadium steel
- 1/2" sq. dr. 72-tooth ratchet handle: 255mm
- 1/2" sq. dr. T sliding handle: 250mm
- 1/2" sq. dr. extension: 250mm
- 1/2" sq. dr. universal joint
- 1/2" sq. dr. sockets (13 sizes in total): 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32mm



Order Code	Qty.
TFSK80	
-30117M	17

28Pc 1/2" Dr. Socket Set - Metric

- Made of high quality chrome vanadium steel
- 1/2" sq. dr. 72-tooth ratchet handle: 255mm
- 1/2" sq. dr. T sliding handle: 250mm
- 1/2" sq. dr. universal joint
- 1/2" sq. dr. extensions (2 sizes in total): 125mm, 250mm
- 1/2" sq. dr. screwdriver bits (11 sizes in total):
 - ⊙ Hex: 5, 6, 7, 8, 10, 12, 14mm
 - ⊖ Slotted: 8, 10mm
 - ⊕ Crosspoint: PH2, PH3
- 1/2" sq. dr. sockets (12 sizes in total): 10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 32mm



Order Code	Qty.
TFSK80	
-30128M	28

30Pc 1/2" Dr. Socket Set - Metric & Inch

- Made of high quality chrome vanadium steel
- 1/2" sq. dr. 72-tooth ratchet handle: 255mm
- 1/2" sq. dr. sockets (22 sizes in total): 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22, 24mm
- 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8"
- 1/2" sq. dr. spark plug sockets (2 sizes in total): M10, M14
- 1/2" sq. dr. T sliding handle: 250mm
- 1/2" sq. dr. extensions (3 sizes in total): 75, 125, 250mm
- 1/2" sq. dr. universal joint



Order Code	Qty.
TFSK80	
-30130T	30

44Pc 3/8" Dr. Comb. Socket & Spanner Set - Metric

- Made of high quality chrome vanadium steel
- 3/8" sq. dr. 72-tooth ratchet handle: 200mm
- 3/8" sq. dr. T sliding handle: 160mm
- 3/8" sq. dr. universal joint
- 3/8" sq. dr. extensions (2 sizes in total): 75mm, 250mm
- 3/8" sq. dr. sockets (15 sizes in total): 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22mm
- 3/8" sq. dr. hex screwdriver bits (7 sizes in total): 3, 4, 5, 6, 7, 8, 10mm
- Combination spanners (15 sizes in total): 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22mm
- 3/8" sq. dr. spark plug sockets (2 sizes in total): M16, M21



Order Code	Qty.
TFSK88	
-20144M	44

14Pc 3/4" Dr. Heavy Duty Socket Set - Metric

- Made of high quality chrome vanadium steel
- 3/4" sq. dr. ratchet wrench: 500mm
- 3/4" sq. dr. T sliding handle: 500mm
- 3/4" sq. dr. extensions (2 sizes in total): 200mm, 400mm
- 3/4" sq. dr. sockets (10 sizes in total): 22, 24, 27, 30, 32, 36, 38, 41, 46, 50mm



Order Code	Qty.
TFSK80	
-40214M	14

14Pc 3/4" Dr. Socket Set - Metric

- Made of high quality chrome vanadium steel
- 3/4" sq. dr. ratchet wrench: 500mm
- 3/4" sq. dr. T sliding handle: 485mm
- 3/4" sq. dr. extensions (2 sizes in total): 200mm, 400mm
- 3/4" sq. dr. sockets (10 sizes in total): 22, 24, 27, 30, 32, 36, 38, 41, 46, 50mm



Order Code	Qty.
TFSK80	
-40114M	14

26Pc 3/4" Dr. Heavy Duty Socket Set - Metric & Inch

- Made of high quality chrome vanadium steel
- 3/4" sq. dr. ratchet wrench: 500mm
- 3/4" sq. dr. T sliding handle: 455mm
- 3/4" sq. dr. extensions (2 sizes in total): 100mm, 200mm
- 3/4" sq. dr. sockets (22 sizes in total): 22, 24, 27, 30, 32, 36, 38, 41, 46, 50mm, 7/8", 15/16", 1", 1-1/8", 1-3/16", 1-5/16", 1-3/8", 1-7/16", 1-5/8", 1-3/4", 1-7/8", 2"



Order Code	Qty.
TFSK80	
-40226T	26

12Pc 1" Dr. Heavy Duty Socket Set - Metric

- Made of high quality chrome vanadium steel
- 1" sq. dr. ratchet wrench: 500mm
- 1" sq. dr. 3-way adapter
- 1" sq. dr. extensions (2 sizes in total): 200mm, 400mm
- 1" sq. dr. sockets (8 sizes in total): 46, 50, 55, 60, 65, 70, 75, 80mm



Order Code	Qty.
TFSK80	
-50212M	12

25Pc Professional Engineer's Tool Kit

- Heavy-duty ABS tool case
- 1/2" sq. dr. 260mm ratchet handle
- 6"/150mm industrial combination pliers
- 6"/150mm industrial long-nose pliers
- 6"/150mm industrial H/D diagonal cutting pliers
- Screwdrivers:
 - ⊖ Slotted: 3 × 75mm, 6 × 38mm, 6 × 100mm, 8 × 150mm
 - ⊕ Phillips: PH1 × 100mm, PH2 × 38mm, PH2 × 100mm, PH3 × 150mm
 - ⊗ Torx: T20 × 100mm, T25 × 100mm
- 9pc metric extra long L ball driver set (1.5 - 10mm)
- 555mm LED flexible pickup tool



Order Code	Qty.
TFTK10	
-01025A	25

26Pc Professional General Purpose Tool Kit

- Impact proof ABS tool case
- Screen foldable digital multimeter
- Industrial double open ended spanners: 8 × 9mm, 10 × 11mm, 12 × 13mm, 14 × 15mm, 16 × 17mm, 18 × 19mm, 20 × 22mm, 22 × 24mm
- 7"/180mm industrial combination pliers
- 6"/150mm industrial long-nose pliers
- 6"/150mm industrial H/D diagonal cutting pliers
- 9pc metric standard length L ball driver set (1.5 - 10mm)
- 8"/200mm insulated adjustable wrench
- 160mm insulated electrician's scissors
- 8"/200mm insulated electrician's knife (pointed)
- 50mm flexible round inspection mirror



Order Code	Qty.
TFTK10	
-04026A	26

26Pc Professional Insulation Tool Kit

- High volume impact proof ABS tool case
- Insulated offset single ring ended spanners: 10, 11, 12, 13, 14, 15, 16, 17, 18, and 19mm
- Insulated single open ended spanners: 15, 16, 17, 18, and 19mm
- Insulated screwdrivers:
 - ⊖ Slotted: 4 × 100mm & 6 × 100mm
 - ⊕ Phillips: PH1 × 100mm & PH2 × 125mm
- 200mm insulated adjustable wrench
- 200mm insulated heavy-duty diagonal cutting pliers
- 250mm insulated water pump pliers
- 150mm insulated mini hacksaw
- 200mm insulated electrician's knife
- AC/DC digital clamp meter



Order Code	Qty.
TFTK10	
-05026N	26

55Pc Utility Maintenance Tool Kit

- High volume impact proof ABS tool case
- 300mm professional hacksaw
- 300mm 24T bi-metal hacksaw blades
- Industrial screwdrivers:
 - ⊖ Slotted: 3.2 × 75mm, 4.0 × 100mm, 5.0 × 100mm
 - ⊕ Phillips: PH0 × 75mm, PH1 × 100mm
- 6pc industrial double open ended spanner set: 6 × 7, 8 × 9, 10 × 11, 12 × 13, 14 × 15, 16 × 17mm
- 6"/150mm phosphate adjustable wrench
- 9pc folding Torx clip set
- 6"/150mm industrial combination pliers
- 6"/150mm industrial long-nose pliers
- 1lb wood shafted ball pein hammer
- 10pc 140mm diamond file set
- 200mm insulated straight blade electrician's knife
- 190mm German pattern mains test
- 3M industrial tape measure
- 177mm telescopic magnetic pickup tool
- 25mm x 8 seg. utility knife
- Sealing tape
- Pen-type digital multimeter
- Powerful LED torch set with USB charging cable



Order Code	Qty.
TFTK10	
-07055B	55

32Pc Heavy Duty Engineer's Tool Kit

- High volume impact proof ABS tool case
- 150mm industrial combination pliers
- 150mm industrial long-nose pliers
- 150mm industrial H/D diagnose cutting pliers
- 150mm industrial flat nose pliers
- 180mm straight jaw grip wrench
- 200mm phosphate adjustable wrench
- Industrial combination spanners: 11, 13, 15, 16, 17, 18, 19, 20, 22 & 24mm
- 9pc metric standard length L hex wrench set (1.5 - 10mm)
- 1/2" sq. dr. mirror finished offset ratchet handle
- 1/2" sq. dr. hex sockets: 8, 10, 13, 15 & 17mm
- 1/2" sq. dr. 5-position socket clip rail
- 1lb wood shafted claw hammer
- Industrial screwdrivers:
 - ⊖ Phillips: PH1 x 150mm, PH2 x 150mm
 - ⊕ Slotted: 5 x 150mm, 6 x 150mm
- 5M tape measure
- 50 x 80 x 575mm LED flexible square inspection mirror



Order Code	Qty.
TFTK10	
-06032A	32

97Pc Engineer's Trolley Tool Kit

- High volume impact proof ABS trolley case
- Heavy-duty multi-loop electricians waist pouch
- 15cm 5-loop split leather tool holster
- 300mm professional hacksaw
- 300mm 24T bi-metal hacksaw blades
- Industrial screwdrivers:
 - ⊖ Phillips: PH0 x 75mm, PH1 x 100mm
 - ⊕ Slotted: 3.2 x 75mm, 4.0 x 100mm, 5.0 x 100mm
- 8pc industrial combination spanner set: 6, 8, 10, 12, 14, 17, 19 & 22mm
- 150mm phosphate adjustable wrench
- 9pc metric standard length L hex wrench set (1.5 - 10mm)
- 37pc 1/4" sq. dr. screwdriver bit set
- 150mm industrial combination pliers
- 150mm industrial long-nose pliers
- 1lb wood shafted ball pein hammer
- 6pc 140mm needle file set
- 8M/26' metric/inch tape measure
- Zinc alloy side-open utility knife
- 9mm x 13 seg. utility knife
- Sealing tape
- Powerful LED torch set with USB charging cable



Order Code	Qty.
TFTK10	
-08097C	97

48pc Engineers Tool Kit in Double Layer Cowhide Bag

- Double-layer cowhide, rivet reinforced
- Stitched with A&E sewing thread for durability and wear-resistant
- Resistant to abrasive, puncture and tear, with a tearing strength of 17 times higher than ordinary products
- Kit configuration with all industrial-grade tools, can be widely used for various industrial and maintenance circumstances
- Large volume for high practicality

Cowhide Bag



Kit Includes:

23-in-1 Socket & Bit Set



8"/200mm Phosphate Adjustable Wrench



9pc metric extra long L ball driver set (1.5 - 10mm)



10" Tin Snips



Digital Multimeter



7" Comb. Pliers



7" H/D Diagnose Cutting Pliers



6" Flat Nose Pliers



1.5lb Ball Pein Hammer



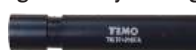
5M Tape Measure



300mm Spirit Level



Mini High-Intensity Flashlight



Magnetic Pickup Tool



Slotted Screwdriver (SL6.0*150mm)



Phillips Screwdriver (PH1*150mm)



190mm Mains Tester



Automatic Spring-Loaded Utility Knife



Cautions:

- 1) The color of natural leather may vary
- 2) It is normal for new leather to have a slight odor. Naturally dry for a period of time can remove the odor.

Tool Kit (including a cowhide bag)

Order Code	Qty.	Weight (kg)
TFTK11		
-01048K	48	5.3

Cowhide Bag Only

Order Code	Opening Size (mm)	Weight (kg)
TFTB59		
-31044C	L440 x H200	0.8

15 in 1 Colorful Screwdriver Bit Kit - 1/4" Hex Bits

- Made of high-hardness S2 chrome vanadium steel
- Color coded bits for better identification and easy use
- Packed in a fashionable and sturdy triangle-shaped plastic case, easy to carry and organize
- Kit includes:
1/4" x 63mm hex quick change bit holder
1/4" hex bits:
 - SL4, SL6
 - PH1, PH2
 - PZ1, PZ2
 - H3, H4, H5
 - T10, T15, T20, T25, T30



Order Code	Qty.	Close Size of Storage Case (mm)	Weight (g)
TFBT88			
-13015T	15	W95 x D47 x H45	116

12 in 1 Industrial Magnetic Ratchet Screwdriver Set with Bit Holder

- Made of high-quality chrome vanadium steel with non-slip compound handle
- Press-to-eject design for easy use and storage
- Reversible ratchet is more practical
- Set includes:
 - SL3.0, SL4.0, SL5.0, SL6.0
 - PH0, PH1, PH2, PH3
 - T10, T15, T20, T25



Order Code	Qty.	Overall Length (mm)	Bit Holder Length (mm)	Weight (g)
TFSC49				
-01012T	12	240	115	266

40Pc S2 Screwdriver Bit Set - 1/4" Hex Bits

- Made of high-hardness S2 chrome vanadium steel, durable and wear-resistance
- 3/8" hex bit adapter (F x F)
- 1/2" hex bit adapter (F x F)
- 19pcs of 1/4" hex bits (30mm long)
 - Hex : 4mm, 5mm, 6mm, 7mm, 8mm, 10mm, 12mm
 - Torx: T20, T25, T30, T40, T45, T50, T55
 - Spline : 5mm, 6mm, 8mm, 10mm, 12mm
- 19pcs of 1/4" hex bits (75mm long)
 - Hex: 4mm, 5mm, 6mm, 7mm, 8mm, 10mm, 12mm
 - Torx: T20, T25, T30, T40, T45, T50, T55
 - Spline : 5mm, 6mm, 8mm, 10mm, 12mm



Order Code	Qty.
TFBT88	
-11040T	40

38 in 1 Automatic Flip-up Electronics Screwdriver Bit Kit

- Made of high-quality chrome vanadium steel
- Bright electroplating surface for rust resistance
- Light weight CNC machined aluminum alloy handle providing high strength and durable
- Automatic flip-open and upright-stand box for easy use and nice presentation
- Kit includes:
 - H4 aluminum alloy handle (95mm long)
 - H4 hex extension (60mm long)
 - H4 hex bits (28mm long):
 - T3, T4, T5, T6, T7, T8, T9, T10, T15, T20
 - H0.9, H1.3, H1.5, H2.0, H2.5, H3.0, H3.5, H4.0
 - SL1.0, SL1.5, SL2.0, SL2.5, SL3.0, SL3.5, SL4.0
 - PH1.0, PH1.5, PH2.0, PH2.5, PH3.5
 - 2.3
 - 2.6
 - 2.0
 - 0.8, 1.2
 - 0.8



Order Code	Qty.	Close Size of Box (mm)	Weight (g)
TFBT88			
-41038T	38	W86 x T28 x H154	240

32Pc Screwdriver Bit Set

- Made of chrome vanadium steel
- Transparent window plastic case for easy visibility and management
- Set includes:
 - 1/4" x 67mm hex quick change bit holder
 - 1/4" x 25mm hex socket adapter
 - 1/4" x 25mm hex bits:
 - Slotted : 3mm, 4mm, 5mm, 6mm
 - Phillips: 1 x PH1, 2 x PH2, 1 x PH3
 - Pozidriv: 1 x PZ1, 2 x PZ2, 1 x PZ3
 - Hex: 3mm, 4mm, 5mm, 6mm
 - Torx: T10, T15, T20, T25, T27, T30, T40
 - Tamperproof: T10, T15, T20, T25, T27, T30, T40



Order Code	Qty.
TFBT88	
-10032T	32

23 in 1 Hex Socket & Bit Socket Kit - 1/4" Sq. Dr.

- Made of industrial-grade chrome vanadium steel
- Packed in a fashionable and sturdy plastic case, easy to carry and organize
- Kit includes:
 - 1/4" sq. dr. 72-tooth reversible ratchet handle (150mm)
 - 1/4" sq. dr. T sliding handle (110mm)
 - 1/4" sq. dr. hex sockets: 4, 5, 6, 7, 8, 10, 11, 12, 13, 14mm
 - 1/4" sq. dr. screwdriver bits:
 - H3, H4, H5, H6
 - T25, T30
 - SL4, SL5.5, SL7
 - PH2



Order Code	Qty.	Close Size of Storage Case (mm)	Weight (g)
TFBT88			
-11023T	23	W168 x D66 x H52	608

8Pc 1/4" Dr. Hex Bit Socket Set - S2 Alloy Steel

- Made of S2 high hardness and torque alloy steel, impact resistance
- Packed in an EVA inlay case
 - 38mm short bits: H3, H4, H5, H6
 - 120mm long bits: H3, H4, H5, H6



Order Code	Qty.
TFSK81	
-11208H	8

37 in 1 Hex Socket & Colorful Screwdriver Bit Kit - 1/4" Sq. Dr. Sockets & 1/4" Hex Bits

- Made of industrial-grade chrome vanadium steel
- Bits made of S2 high hardness alloy steel
- Color coded bits for better identification and easy use
- Packed in a fashionable and sturdy plastic case, easy to carry and organize
- Kit includes:
 - 1/4" sq. dr. 72-tooth reversible ratchet handle (150mm)
 - 1/4" sq. dr. 75mm extension
 - 1/4" sq. dr. 100mm extension
 - 1/4" hex bit adapter (M x M)
 - 1/4" hex bit adapter (F x F)
 - 1/4" sq. dr. hex sockets: 4, 5, 6, 7, 8, 10, 11, 12, 13mm
 - 1/4" hex bits:
 - H2.5, H3, H4, H5, H6
 - T10, T15, T20, T25, T27, T30, T40
 - SL4, SL5.5, SL6.5
 - PH1, PH2, PH3
 - PZ1, PZ2(2), PZ3



Order Code	Qty.	Close Size of Storage Case (mm)	Weight (g)
TFBT88			
-12037T	37	W168 x D66 x H46	522

17pc 1/4" Dr. Screwdriver Bit Set

- Made of industrial-grade chrome vanadium steel
- Bits made of S2 high hardness alloy steel
- Set includes:
 - 1/4" sq. dr. 72-tooth ratchet handle (140mm)
 - 1/4" sq. dr. spinner (150mm)
 - 1/4" sq. dr. extension (50mm)
 - 1/4" sq. dr. x 37mm screwdriver bits (14pcs in total)
 - H3, H4, H5, H6, H8
 - SL4.0, SL5.0, SL7.0
 - PH1, PH2, PH3
 - PZ1, PZ2, PZ3
- Packed in a steel box with inlayed EVA



Order Code	Qty.
TFBT88	
-10317T	17

15Pc 1/4" Dr. Hex & Torx Bit Socket Set

- Made of industrial-grade chrome vanadium steel
- 8pcs of 1/4" sq. dr. x 38mm hex bit sockets:
 - ⊕ H1.5, H2, H3, H4, H5
 - ⊕ H6, H8, H10
- 7pcs of 1/4" sq. dr. x 38mm Torx bit sockets:
 - ⊕ T10, T15, T20, T25
 - ⊕ T27, T30, T40
- Packed in a steel box

Order Code	Qty.
TFSK81	15
-11015T	



9Pc 3/8" Dr. Torx Bit Socket Set

- 9pcs of 3/8" sq. dr. x 48mm Torx bit sockets:
 - ⊕ T10, T15, T20, T25, T27,
 - ⊕ T30, T40, T45, T50
- Packed in a steel box

Order Code	Qty.
TFSK81	9
-20109T	



6Pc 3/8" Dr. Long Type Torx Bit Socket Set

- 6pcs of 3/8" sq. dr. x 100mm long Torx bit sockets:
 - ⊕ T25, T30, T40, T45, T50, T55
- Packed in a steel box

Order Code	Qty.
TFSK81	6
-20206L	



16Pc 1/2" Dr. Torx Bit Socket & E Socket Set

- Made of chrome vanadium steel, satin finished
- High torque, resistant to rust and durable
- 7pcs of 1/2" sq. dr. x 55mm Torx bit sockets:
 - ⊕ T30, T40, T45, T50, T55, T60, T70
- 9pcs of 1/2" sq. dr. x 38mm E sockets:
 - ⊕ E10, E11, E12, E14, E16
 - ⊕ E18, E20, E22, E24
- Packed in a steel box

Order Code	Qty.
TFSK81	16
-31016T	



8Pc 1/4" Dr. Long Type Hex Bit Socket Set

- 8pcs of 1/4" sq. dr. x 90mm long hex bit sockets:
 - ⊕ H1.5, H2, H2.5, H3,
 - ⊕ H4, H5, H5.5, H6
- Packed in a steel box

Order Code	Qty.
TFSK81	8
-10108L	



6Pc 3/8" Dr. Long Type Hex Bit Socket Set

- 6pcs of 3/8" sq. dr. x 100mm long hex bit sockets:
 - ⊕ H4, H5, H6, H8, H10, H12
- Packed in a steel box

Order Code	Qty.
TFSK81	6
-20106L	



5Pc 1/2" Dr. Long Type Hex Bit Socket Set

- 5pcs of 1/2" sq. dr. x 80mm long hex bit sockets:
 - ⊕ H5, H6, H8, H10, H12
- Packed in a steel box

Order Code	Qty.
TFSK81	5
-30105L	



9Pc 1/2" Dr. Hex Bit Socket Set

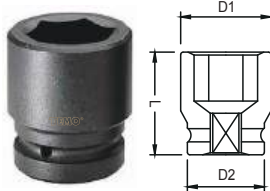
- Made of S2 high hardness and torque alloy steel, mirror finished
- 9pcs of 1/2" sq. dr. x 75mm hex bit sockets:
 - ⊕ H4, H5, H6, H7, H8
 - ⊕ H10, H12, H14, H17
- Packed in a blow molded case

Order Code	Qty.
TFSK81	9
-30309H	



Impact Sockets

- Industrial quality, forged from high quality steel
- Phosphated for rust-resistance and anti-slip
- Suitable to use with air and power tools such as air wrenches
- **Inch sizes are also available on request**



3/8" Sq. Dr.

Order Code TFSK40	Size (mm)	L (mm)	D1 (mm)	D2 (mm)
-20006C	6	30	11	19
-20007C	7	30	12.5	19
-20008C	8	30	13	19
-20009C	9	30	15	19
-20010C	10	30	16.5	19
-20011C	11	30	17.5	19
-20012C	12	30	18	19
-20013C	13	30	20	22
-20014C	14	30	21.5	22
-20015C	15	30	22	22
-20016C	16	30	24	22
-20017C	17	30	25	22
-20018C	18	30	26	22
-20019C	19	30	27.5	22
-20020C	20	30	28	22
-20021C	21	30	30	22
-20022C	22	30	32	23
-20024C	24	30	34	23

1/2" Sq. Dr.

Order Code TFSK40	Size (mm)	L (mm)	D1 (mm)	D2 (mm)
-30008C	8	38	14	24
-30009C	9	38	16	24
-30010C	10	38	16	24
-30011C	11	38	18	24
-30012C	12	38	19	24
-30013C	13	38	20	24
-30014C	14	38	22	24
-30015C	15	38	24	24
-30016C	16	38	24	24
-30017C	17	38	26	26
-30018C	18	38	27	27
-30019C	19	38	28	28
-30020C	20	38	30	30
-30021C	21	38	30	30
-30022C	22	38	32	32
-30023C	23	38	34	32
-30024C	24	42	35	32
-30025C	25	42	35	32
-30026C	26	42	36	32
-30027C	27	42	38	32
-30028C	28	42	40	32
-30029C	29	42	40	32
-30030C	30	42	42	32
-30031C	31	45	43	32
-30032C	32	45	44	32
-30034C	34	50	46	34
-30036C	36	50	50	34
-30038C	38	50	53	34

3/4" Sq. Dr.

Order Code TFSK40	Size (mm)	L (mm)	D1 (mm)	D2 (mm)
-40017C	17	51	31	40
-40018C	18	51	32	40
-40019C	19	51	33	40
-40020C	20	51	34	40
-40021C	21	51	35	40
-40022C	22	51	36	40
-40023C	23	51	37	40
-40024C	24	51	38	40
-40026C	26	56	41	40
-40027C	27	56	42	40
-40028C	28	56	42	40
-40029C	29	56	43	40
-40030C	30	56	45	40
-40031C	31	56	46	42
-40032C	32	56	47	42
-40033C	33	56	48	42
-40034C	34	56	49	42
-40035C	35	56	51	44
-40036C	36	56	52	44
-40038C	38	56	54	44
-40041C	41	56	58	46
-40046C	46	70	65	48
-40050C	50	70	70	50
-40055C	55	90	78	50
-40060C	60	80	83	55
-40065C	65	100	88	55
-40070C	70	100	98	60

Impact Drive Converters

- Forged, industrial-grade quality



Order Code TFSK46	Square Drive (F x M)
-23812C	3/8" x 1/2"
-31238C	1/2" x 3/8"
-31234C	1/2" x 3/4"
-43412C	3/4" x 1/2"
-43401C	3/4" x 1"
-51012C	1" x 1/2"
-51034C	1" x 3/4"
-51015C	1" x 1-1/2"
-61510C	1-1/2" x 1"

Impact Universal Joints

- Forged, industrial-grade quality



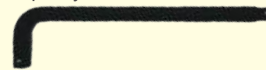
Order Code TFSK47	Square Drive (F x M)
-03838J	3/8" x 3/8"
-01212J	1/2" x 1/2"
-03434J	3/4" x 3/4"
-01010J	1" x 1"

1" Sq. Dr. - Deep

Order Code TFSK40	Size (mm)	L (mm)	D1 (mm)	D2 (mm)
-50017C	17	80	32	50
-50018C	18	80	33	50
-50019C	19	80	34	50
-50020C	20	80	35	50
-50021C	21	80	37	50
-50022C	22	80	38	50
-50023C	23	80	41	50
-50024C	24	80	42	50
-50025C	25	80	42	50
-50026C	26	80	43	50
-50027C	27	80	44	50
-50028C	28	80	46	50
-50029C	29	80	48	50
-50030C	30	80	50	54
-50031C	31	80	50	54
-50032C	32	80	51	54
-50033C	33	80	52	54
-50034C	34	80	53	54
-50035C	35	80	54	54
-50036C	36	80	56	54
-50038C	38	80	59	54
-50040C	40	90	61	56
-50041C	41	80	63	54
-50042C	42	90	64	56
-50046C	46	90	68	56
-50048C	48	90	70	56
-50050C	50	90	72	56
-50055C	55	90	78	56
-50060C	60	90	84	56
-50065C	65	100	89	65
-50070C	70	100	94	65
-50075C	75	100	104	65
-50080C	80	100	108	75
-50085C	85	100	114	75
-50090C	90	100	125	80
-50095C	95	100	129	80
-50100C	100	100	134	80
-50105C	105	110	139	80
-50110C	110	110	144	80
-50115C	115	120	149	90
-50120C	120	120	158	90

Impact Offset Handles

- Forged, industrial-grade quality



Order Code TFSK61	Square Drive	Length (mm)
-30250L	1/2"	250 x 50
-40400L	3/4"	400 x 100
-50400L	1"	400 x 200
-50500L	1"	500 x 100

1-1/2" Sq. Dr.

Order Code TFSK40	Size (mm)	L (mm)	D1 (mm)	D2 (mm)
-60036C	36	90	58	74
-60038C	38	93	60	74
-60041C	41	95	64	74
-60046C	46	100	70	74
-60050C	50	100	74	74
-60055C	55	100	79	74
-60060C	60	100	90	80
-60065C	65	100	98	80
-60070C	70	100	102	80
-60075C	75	100	107	80
-60080C	80	100	114	84
-60085C	85	110	119	84
-60090C	90	110	128	90
-60095C	95	110	132	90
-60100C	100	110	136	90

Impact Extension Bars

- Forged, industrial-grade quality
- Phosphated for rust-resistance and anti-slip



Order Code TFSK60	Square Drive	Length (mm)
-30075F	1/2"	75
-30125F	1/2"	125
-30250F	1/2"	250
-40100F	3/4"	100
-40150F	3/4"	150
-40200F	3/4"	200
-40250F	3/4"	250
-40300F	3/4"	300
-50100F	1"	100
-50150F	1"	150
-50200F	1"	200
-50300F	1"	300
-50400F	1"	400
-60200F	1-1/2"	200
-60300F	1-1/2"	300
-60400F	1-1/2"	400

Cr-Mo Sliding T Handles

- Forged, industrial-grade quality



Order Code TFSK61	Square Drive	Length (mm)
-30250F	1/2"	250
-40550F	3/4"	500
-50600F	1"	500

3Pc Wheel Impact Socket Set (1/2" Dr.)

- Made from chrome molybdenum alloy steel for exceptional strength and durability
- Thin wall socket design for access in confined spaces
- Protective outer sheath prevents damage to rims
- Insert protects lug nuts and bolts from damage
- Color coded for easy identification and use
- Set includes: 1/2" Sq. Dr. x 85mm sockets - 17, 19 & 21mm

Order Code TFSK85	Qty.
-37003M	3



Impact Hex Bit Sockets

- Industrial quality, forged from high quality chrome molybdenum alloy steel
- Phosphated for rust-resistance and anti-slip
- Suitable to use with air and power tools such as air wrenches



1/2" Sq. Dr.

Order Code TFSK70	Size (mm)	L (mm)	L1 (mm)	D2 (mm)
-30004C	4	78	13	25
-30005C	5	78	13	25
-30006C	6	78	13	25
-30007C	7	78	13	25
-30008C	8	78	15	25
-30009C	9	78	15	25
-30010C	10	78	15	25
-30011C	11	78	15	25
-30012C	12	78	15	28
-30013C	13	78	15	28
-30014C	14	78	15	28
-30015C	15	78	15	28
-30016C	16	78	15	28
-30017C	17	78	20	28
-30018C	18	78	20	28
-30019C	19	78	20	28
-30021C	21	78	20	32
-30022C	22	78	20	32

3/4" Sq. Dr.

Order Code TFSK70	Size (mm)	L (mm)	L1 (mm)	D2 (mm)
-40012C	12	100	24	44
-40014C	14	100	24	44
-40017C	17	100	24	44
-40019C	19	100	24	44
-40021C	21	100	24	44
-40022C	22	100	24	44
-40024C	24	100	24	44
-40027C	27	100	26	44
-40030C	30	100	26	44
-40032C	32	100	28	44

1" Sq. Dr.

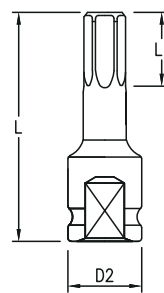
Order Code TFSK70	Size (mm)	L (mm)	L1 (mm)	D2 (mm)
-50014C	14	100	20	54
-50017C	17	100	20	54
-50019C	19	100	24	54
-50021C	21	100	24	54
-50022C	22	100	24	54
-50024C	24	100	24	54
-50027C	27	100	24	54
-50030C	30	100	24	54
-50032C	32	100	24	54
-50036C	36	100	24	54

1-1/2" Sq. Dr.

Order Code TFSK70	Size (mm)	L (mm)	L1 (mm)	D2 (mm)
-60024C	24	100	30	76
-60027C	27	100	30	76
-60030C	30	100	30	76
-60032C	32	100	30	76
-60034C	34	100	30	76
-60036C	36	100	30	76
-60038C	38	100	30	76
-60041C	41	100	30	76
-60046C	46	100	30	76

Impact Torx Bit Sockets

- Industrial quality, forged from high quality chrome molybdenum alloy steel
- Phosphated for rust-resistance and anti-slip
- Suitable to use with air and power tools such as air wrenches

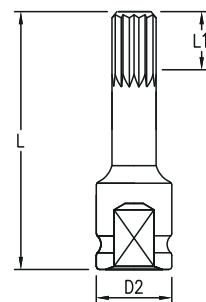


1/2" Sq. Dr.

Order Code TFSK70	Size (mm)	L (mm)	L1 (mm)	D2 (mm)
-30415C	T15	78	7	25
-30420C	T20	78	7	25
-30425C	T25	78	7	25
-30427C	T27	78	9	25
-30430C	T30	78	9	25
-30435C	T35	78	9	25
-30440C	T40	78	9	25
-30445C	T45	78	11	25
-30450C	T50	78	11	25
-30455C	T55	78	15	25
-30460C	T60	78	15	25
-30470C	T70	78	18	25
-30480C	T80	78	18	25
-30490C	T90	78	21	25

Impact Spline Bit Sockets

- Industrial quality, forged from high quality chrome molybdenum alloy steel
- Phosphated for rust-resistance and anti-slip
- Suitable to use with air and power tools such as air wrenches



1/2" Sq. Dr.

Order Code TFSK70	Size (mm)	L (mm)	L1 (mm)	D2 (mm)
-30905C	5	78	7	24
-30906C	6	78	7	24
-30908C	8	78	9	24
-30909C	9	78	9	24
-30910C	10	78	9	24
-30912C	12	78	11	24
-30913C	13	78	11	24
-30914C	14	78	11	24
-30916C	16	78	13	24
-30918C	18	78	13	24

15Pc Metric Impact Socket Set (1/2" Dr.)

- 1/2" sq. dr. x 38mm Impact sockets: 8, 10, 11, 12, 13, 14, 16, 17, 19, 22, 24, 27, 30 & 32mm
- 1/2" sq. dr. x 125mm Impact extension bar



Order Code	Qty.
TFSK85	
-30015M	15

10Pc Metric Impact Socket Set (3/4" Dr.)

- 3/4" sq. dr. x 56mm impact sockets: 24, 27, 30, 32, 33, 34, 36, 38, 41 & 46mm



Order Code	Qty.
TFSK85	
-40010M	10

21Pc Metric Impact Socket & Wrench Set (3/4" Dr.)

- 3/4" sq. dr. x 56mm impact sockets: 19, 21, 22, 23, 24, 26, 27, 29, 30, 32, 33, 34, 36, 38, 41 & 46mm
- 3/4" sq. dr. ratchet wrench: 500mm
- 3/4" sq. dr. extension bars: 100mm & 200mm
- 3/4" sq. dr. T sliding bar: 500mm
- 3/4" sq. dr. universal joint



Order Code	Qty.
TFSK85	
-41021T	21

26Pc Metric & Imperial Impact Socket & Wrench Set (3/4" Dr.)

- 3/4" sq. dr. x 56mm metric impact sockets: 22, 24, 27, 30, 32, 36, 38, 41, 46 & 50mm
- 3/4" sq. dr. x 56mm imperial impact sockets: 7/8", 15/16", 1", 1-1/8", 1-3/16", 1-5/16", 1-3/8", 1-7/16", 1-5/8", 1-3/4", 1-7/8" & 2"
- 3/4" sq. dr. ratchet wrench: 500mm
- 3/4" sq. dr. extension bars: 100mm & 200mm
- 3/4" sq. dr. T sliding bar: 500mm



Order Code	Qty.
TFSK85	
-40226T	26

4Pc Metric Impact Socket Set (1" Dr.)

- 1" sq. dr. x 78mm impact sockets: 22, 27, 38 & 41mm



Order Code	Qty.
TFSK85	
-50004M	4

8Pc Metric Impact Socket Set (1" Dr.)

- 1" sq. dr. x 78mm impact sockets: 22, 24, 27, 30, 32, 36, 38 & 41mm



Order Code	Qty.
TFSK85	
-50008M	8

8Pc Impact Bit Socket Sets (1/2" Dr.)



Order Code	Size
TFSK86	
-30008H	Hex : H5, H6, H8, H10, H12, H14, H17 & H19
-30108T	Torx : T30, T40, T45, T50, T55, T60, T70 & T80

26Pc Big Impact Socket Set - 3/4" & 1" Dr.

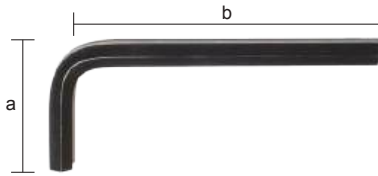
- 3/4" sq. dr. impact sockets: 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 34, 36, 38, 41, 46 & 50mm
- 1" sq. dr. impact sockets: 55, 60 & 65mm
- 3/4" sq. dr. ratchet head: 150mm
- 3/4" sq. dr. extension bar: 200mm
- 3/4" sq. dr. extension with through hole: 485mm
- 3/4" sq. dr. T sliding bar: 500mm
- 3/4" sq. dr. L-shaped handle: 190mm
- 3/4" sq. dr. (F) x 1" sq. dr. (M) converter



Order Code	Qty.	Weight (kg)
TFSK85		
-40126T	26	20.4

Black Hex Key L Wrenches - Standard Length

- Industrial-grade products, made from high-quality chrome vanadium steel with full heat treatFent
- Blackening finish for anti-corrosion and anti-rust
- High hardness, durable and long-lasting



Metric

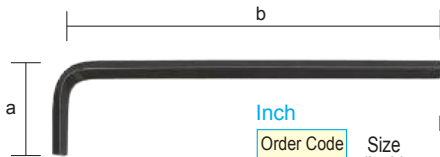
Order Code HDWR50	Size (mm)	Length (mm)	
		a	b
-01007A	0.7	8	35
-01009A	0.9	10	38
-01013A	1.3	12	41
-01015A	1.5	14	45
-01020A	2.0	16	50
-01025A	2.5	18	56
-01030A	3.0	20	63
-01040A	4.0	25	70
-01045A	4.5	26	75
-01050A	5.0	28	80
-01055A	5.5	30	85
-01060A	6.0	32	90
-01070A	7.0	34	95
-01080A	8.0	36	100
-01090A	9.0	38	106
-01100A	10.0	40	112
-01120A	12.0	45	125
-01140A	14.0	56	140
-01170A	17.0	63	160
-01190A	19.0	70	180
-01220A	22.0	80	200
-01240A	24.0	90	225
-01270A	27.0	100	250

Inch

Order Code HDWR50	Size (Inch)	Length (mm)	
		a	b
-02021A	1/16"	14	44
-02024A	5/64"	15	48
-02027A	3/32"	17	51
-02030A	7/64"	18	54
-02033A	1/8"	19	57
-02036A	9/64"	20	60
-02039A	5/32"	21	64
-02042A	3/16"	24	70
-02045A	7/32"	26	76
-02048A	1/4"	28	83
-02051A	5/16"	32	95
-02054A	3/8"	36	108
-02057A	7/16"	38	121
-02060A	1/2"	41	133
-02063A	9/16"	44	146
-02066A	5/8"	48	159
-02069A	3/4"	54	184
-02072A	1"	95	235

Black Hex Key L Wrenches - Long Length

- Industrial-grade products, made from high-quality chrome vanadium steel with full heat treatFent
- Blackening finish for anti-corrosion and anti-rust
- High hardness, durable and long-lasting



Metric

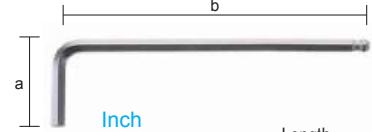
Order Code HDWR50	Size (mm)	Length (mm)	
		a	b
-31007A	0.7	8	65
-31009A	0.9	10	68
-31013A	1.3	12	72
-31015A	1.5	14	77
-31020A	2.0	16	83
-31025A	2.5	18	90
-31030A	3.0	20	98
-31040A	4.0	25	106
-31050A	5.0	28	118
-31060A	6.0	32	137
-31070A	7.0	36	156
-31080A	8.0	36	156
-31100A	10.0	40	170

Inch

Order Code HDWR50	Size (Inch)	Length (mm)	
		a	b
-32021A	1/16"	14	77
-32024A	5/64"	15	82
-32027A	3/32"	17	88
-32030A	7/64"	18	92
-32033A	1/8"	19	96
-32036A	9/64"	20	101
-32039A	5/32"	21	105
-32042A	3/16"	24	114
-32045A	7/32"	26	124
-32048A	1/4"	28	135
-32051A	5/16"	32	151
-32054A	3/8"	36	170
-32057A	7/16"	38	189
-32060A	1/2"	41	208
-32063A	9/16"	44	228
-32066A	5/8"	48	250
-32069A	3/4"	54	284

Bright Ball Driver L Wrenches - Long Length

- Industrial-grade product, made from high-quality chrome vanadium steel with full heat treatFent
- Nickel plating for anti-corrosion and anti-rust
- High hardness, durable and long-lasting



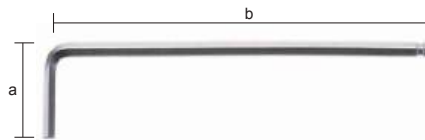
Metric

Order Code HDWR51	Size (mm)	Length (mm)	
		a	b
-21015B	1.5	15	74
-21020B	2.0	16	80
-21025B	2.5	18	87
-21030B	3.0	20	96
-21040B	4.0	24	107
-21050B	5.0	28	120
-21060B	6.0	32	136
-21070B	7.0	34	148
-21080B	8.0	36	154
-21100B	10.0	40	172

Inch

Order Code HDWR51	Size (Inch)	Length (mm)	
		a	b
-22024B	5/64"	16	80
-22027B	3/32"	18	87
-22030B	7/64"	19	92
-22033B	1/8"	20	98
-22036B	9/64"	22	104
-22039B	5/32"	24	110
-22042B	3/16"	28	120
-22045B	7/32"	30	130
-22048B	1/4"	32	141
-22051B	5/16"	36	154
-22054B	3/8"	40	172

Bright Ball Driver L Wrenches - Extra Long Length



Metric

Order Code HDWR51	Size (mm)	Length (mm)	
		a	b
-41015B	1.5	14	90
-41020B	2.0	16	100
-41025B	2.5	18	112
-41030B	3.0	20	126
-41040B	4.0	25	140
-41050B	5.0	28	160
-41060B	6.0	32	180
-41080B	8.0	36	156
-41100B	10.0	40	200
-41120B	12.0	45	250
-41140B	14.0	56	280
-41170B	17.0	63	320
-41190B	19.0	70	360

Inch

Order Code HDWR51	Size (Inch)	Length (mm)	
		a	b
-42021B	1/16"	14	90
-42024B	5/64"	15	100
-42027B	3/32"	17	111
-42033B	1/8"	19	123
-42039B	5/32"	21	136
-42042B	3/16"	24	150
-42045B	7/32"	26	165
-42048B	1/4"	28	182
-42051B	5/16"	32	200
-42054B	3/8"	36	220

16Pc All-in-One T-Handled Driver Set

- Made from chrome vanadium steel with high hardness
- Ergonomic handle for comfortable grip and anti-slip
- 4 types of ends: hex, ball, Torx, Tamperproof
- Weight: 2kg



Order Code TFWR55	End Type	Size
-02016T		H2.0*75mm; H2.5*75mm
		H3.0*100mm; H4.0*100mm
		H5.0*150mm; H6.0*150mm
		H8.0*200mm; H10.0*200mm
		T10*75mm; T15*75mm
		T20*100mm; T25*100mm
		T30*150mm; T40*150mm
		T45*200mm; T50*200mm

9Pc Hex L-Wrench Sets

- Made from high-quality chrome vanadium steel
- Matt chrome plating, resistant to rust, corrosion and oil



9Pc Metric Sets

Size (mm)	Std. Long Length (mm)	Ext. Long Length (mm)
1.5	44	90
2.0	48	100
2.5	51	112
3.0	57	126
4.0	64	140
5.0	70	160
6.0	83	180
8.0	95	200
10.0	108	224

9Pc Inch Sets

Size (inch)	Std. Long Length (mm)	Ext. Long Length (mm)
1/16"	44	90
5/64"	48	100
3/32"	51	112
1/8"	57	126
5/32"	64	140
3/16"	70	160
1/4"	83	180
5/16"	95	200
3/8"	108	224

Order Code	Sets	Size Range
TFWR50		
-81009M	9Pc Metric Set - Standard Long	1.5 ~ 10.0mm
-83009M	9Pc Metric Set - Extra Long	1.5 ~ 10.0mm
-91009N	9Pc Inch Set - Standard Long	1/16" ~ 3/8"
-93009N	9Pc Inch Set - Extra Long	1/16" ~ 3/8"

9Pc Torx L-Wrench Sets

- Made from high-quality chrome vanadium steel
- Matt chrome plating, resistant to rust, corrosion and oil



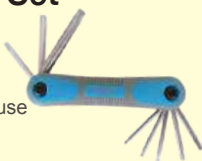
9Pc Torx Sets

Size	Std. Long Length (mm)	Ext. Long Length (mm)
T10	48	91
T15	54	100
T20	57	113
T25	60	128
T27	63	142
T30	70	161
T40	75	180
T45	81	202
T50	88	224

Order Code	Sets	Size Range
TFWR52		
-71209T	9Pc Torx Set - Standard Long	T10 ~ T50
-73209T	9Pc Torx Set - Extra Long	T10 ~ T50
-71309T	9Pc Tamperproof Set - Standard Long	T10 ~ T50
-73309T	9Pc Tamperproof Set - Extra Long	T10 ~ T50

8pc Folding Torx Clip Set

- Made from high-quality chrome vanadium steel
- Resistant to rust, corrosion and oil
- Folding design for easy carry and use



Order Code	Size
TFWR55	
-70108T	T9, T10, T15, T20, T25, T27, T30, T40

9Pc Ball Driver Hex L-Wrench Sets

- Made from high-quality chrome vanadium steel
- Matt chrome plating, resistant to rust, corrosion and oil
- Ball driver ends are ideal for areas that are hard to reach, great for blind or difficult areas to reach or if the bolt and screw is close to an obstruction on one side. However, ball driver ends are not ideal for higher torque applications



Metric Size (mm)	Inch Size (inch)	Std. Long Length (mm)	Ext. Long Length (mm)
1.5	1/16"	45	90
2.0	5/64"	50	100
2.5	3/32"	56	112
3.0	1/8"	63	126
4.0	5/32"	70	140
5.0	3/16"	80	160
6.0	1/4"	90	180
8.0	5/16"	100	200
10.0	3/8"	112	224

Order Code	Sets	Size Range
TFWR51		
-81109M	9Pc Metric Set - Standard Long	1.5 ~ 10.0mm
-83109M	9Pc Metric Set - Extra Long	1.5 ~ 10.0mm
-93109N	9Pc Inch Set - Extra Long	1/16" ~ 3/8"

9Pc Color Coded Ball Driver Hex L-Wrench Sets - Extra Long

- Made from high-quality chrome vanadium steel, chrome plated
- Color coded for easy identification and use
- Environmentally-friendly powder coating, never fading
- ABS+TPR folding clip for easy carry and management



9Pc Metric Set		9Pc Inch Set	
Size (mm)	Length (mm)	Size (inch)	Length (mm)
1.5	90	1/16"	90
2.0	100	5/64"	100
2.5	112	3/32"	112
3.0	126	1/8"	126
4.0	140	5/32"	140
5.0	160	3/16"	160
6.0	180	1/4"	180
8.0	200	5/16"	200
10.0	224	3/8"	224

Order Code	Sets	Size Range
TFWR51		
-84109M	9Pc Metric Set	1.5 ~ 10.0mm
-94109N	9Pc Inch Set	1/16" ~ 3/8"

14pc Long Series Chrome Plated Ball-End Hex Wrench Set

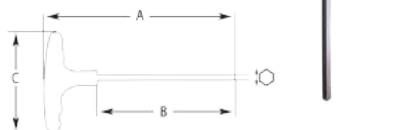
- Made from high-quality chrome vanadium steel, chrome plated, for long time use
- Packed in a ABS blow case, easy to carry and store
- **Set includes:**
 - Long L-shaped ball-end hex wrenches: 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 7.0, 8.0 & 10.0mm
 - Extra long L-shaped ball-end hex wrenches: 12.0 & 14.0mm
 - L-shaped hex wrench: 17.0mm
 - Screwdriver: Phillips 6 x 100mm
 - Wrench set clip



Order Code	Qty.	Size
HDWR51		
-81014M	14	1.5 - 17.0mm

S2 Steel T-Handled Hexagon Driver Wrenches

- Made of heat treated drop forged S2 steel for strength and durability
- This Temo T-handled wrench provides firm grip and gives you more turning power
- Bronze-colored coating is resistant to corrosion and rust
- Long arm is suitable for better access to hex head bolts on the machine, car vehicles etc.



Order Code	Size (mm)	A (mm)	B (mm)	C (mm)	Weight (g)
TFWR55					
-01020A	2	150	105	90	27
-01025A	2.5	160	115	90	30
-01030A	3	172	130	90	33
-01040A	4	180	137	90	42
-01050A	5	195	142	110	70
-01060A	6	220	168	110	92
-01080A	8	230	178	107	140
-01100A	10	260	183	180	305

Extra Long T-handled Hex Ball Driver Wrenches

- Made of forged chrome vanadium steel for strength and durability
- Extra long arm is helpful for getting into hard to reach places
- Ergonomic handle for comfortable grip and anti-slip



Order Code	Size (mm)	Overall Length (mm)
TFWR55		
-03004B	4	350
-03005B	5	350
-03006B	6	350
-03008B	8	350
-03010B	10	350

Letter Hand Stamp Sets

- Made of high-quality alloy steel by sandblasting treatment, precision-made and built to last
- Highly durable and resistant to breakage, all stamps are hardened precisely, up to hardness level of HRC58~60
- High-quality imprints with sharp edges, resulting in clear and crisp impressions without any short legs or closed holes
- Set includes (27pcs in total): "A - Z" letter and "&" stamps
- Each set comes with a sturdy plastic box



Order Code	Letter Size (mm)	Stamp Square Size (mm)	Set Description	Numbers of Pieces
TFMS10				
-01027L	1	6	Letter	27
-02027L	2	6	Letter	27
-03027L	3	6	Letter	27
-04027L	4	6	Letter	27
-05027L	5	8	Letter	27
-06027L	6	10	Letter	27
-08027L	8	12	Letter	27
-10027L	10	12	Letter	27
-12027L	12	16	Letter	27

Figure Hand Stamp Sets

- Made of high-quality alloy steel by sandblasting treatment, precision-made and built to last
- Highly durable and resistant to breakage, all stamps are hardened precisely, up to hardness level of HRC58~60
- High-quality imprints with sharp edges, resulting in clear and crisp impressions without any short legs or closed holes
- Set includes (9pcs in total): "0 - 8" figure stamps (6 and 9 used interchangeably)
- Each set comes with a sturdy plastic box



Order Code	Figure Size (mm)	Stamp Square Size (mm)	Set Description	Numbers of Pieces
TFSM11				
-01009F	1	6	Figure	9
-02009F	2	6	Figure	9
-03009F	3	6	Figure	9
-04009F	4	6	Figure	9
-05009F	5	8	Figure	9
-06009F	6	10	Figure	9
-08009F	8	12	Figure	9
-10009F	10	12	Figure	9
-12009F	12	16	Figure	9

Round Dotted Steel Stamp Sets

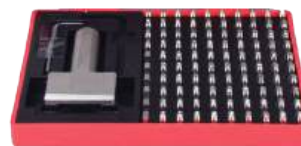
- This dotted stamp set is designed to reduce the impact of the stamps. All stamps come with a "round nose" engraving, to reduce the stress even more, all characters are shown in a dot matrix
- Made of high-quality alloy steel by sandblasting treatment, precision-made and built to last
- Highly durable and resistant to breakage, all stamps are hardened precisely, up to hardness level of HRC58~60
- Letter set includes (27pcs in total): "A - Z" letter and "&" stamps
- Figure set includes (9pcs in total) - "0 - 8" figure stamps (6 and 9 used interchangeably)
- Combination set includes (36pcs in total) - "A - Z" letter and "&" stamps + "0 - 8" figure stamps
- Each set comes with a sturdy plastic box



Order Code	Size (mm)	Stamp Size (mm)	Set Description	No. of pieces
TFSM30				
-03009F	3	10	Figure	9
-03027L	3	10	Letter	27
-03036C	3	10	Figure & Letter	36
-06009F	6	12	Figure	9
-06027L	6	12	Letter	27
-06036C	6	12	Figure & Letter	36
-10009F	10	16	Figure	9
-10027L	10	16	Letter	27

102Pc Font Sets

- Suitable for industries such as aviation, nuclear energy and petroleum
- Made of high-quality alloy steel by sandblasting treatment, precision-made and built to last
- Surface treated with sandblasting for enhanced hardness, reaching a hardness level of HRC58~60
- Set includes (1 x holder with 100 small steel stamps):
52 x letter stamps (2 off each letter "A - Z")
36 x Figure stamps (4 off each "0-8")
1 x Symbol "&"
2 x Symbol "/"
2 x Symbol "-"
6 x blanks
- 1 x hex wrench
- The stamp holder can accommodate 9 stamps in maximum



Order Code	Font Size (mm)	Qty.
TFSM80		
-03102T	3	102
-05102T	5	102
-06102T	6	102

Claw Ended Crowbars

- Made of forged manganese steel, spray coating treatment for anti-rust and easy clean
- The claw end is ideal for removing nails and the chisel end is ideal for opening crates and boxes etc.



Order Code	Length (mm)	Thickness (mm)	Weight (mm)
TFHT02			
-00450A	450	16	800
-00600A	600	16	1040
-00750A	750	16	1270
-00900A	900	16	1500

4pc Screwdriver Pry Bar Set

- Made of heavy duty chrome vanadium steel, full heat treatment, providing high hardness and resistance to breaking
- Curved blades providing greater leverage to save effort
- Featured with "Go-Thru" striking cap



Order Code	Set Contents
TFOT02	
-05104T	Bent bar: 30° cranked end, 920mm O/A length, 692mm blade length Straight bar: 913mm O/A length, 685mm blade length Bent bar: 45° cranked end, 595mm O/A length, 367mm blade length Bent bar: 90° cranked end, 633mm O/A length, 405mm blade length

Go-through Screwdriver Pry Bars

- Made of high-quality heat-treated chrome steel for superb durability and longevity
- Precisely polished blades with flared tips
- "Go-Thru" caps allowing striking
- PVC anti-slip handles
- Long and 12mm thick square blades providing extra force for the jobs



Order Code	Size	Overall Length (mm)	Blade Length (mm)	Blade Thickness (mm)	Tip Width (mm)	Handle Length (mm)	Net Weight (kg)
TFOT02							
-05217A	17"	620	420	12	12	190	0.80
-05219A	19"	700	550	12	12	190	0.90
-05225A	25"	800	620	12	12	190	1.03
-05233A	33"	1020	820	12	12	190	1.25

Drum Lid Opener

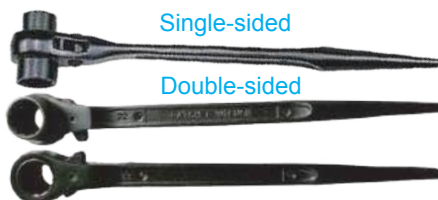
- Made of bearing steel, suitable for most drum lids such as 55 gallon oil drum lid, 200L plastic oil drum lid & others
- Easy to operate, lightweight
- Thick non-slip handle



Order Code	Overall Length (mm)	Width (mm)	Thickness (mm)	Net Weight (kg)
TFOT07				
-02010A	265	100	10	0.75

Scaffolding Reversible Ratchet Podger Spanners

- Premier quality, ratchet heads are made of chrome vanadium steel and handles are made of forged #45 carbon steel
- Phosphated treatment for anti-rust
- Bi-hex sockets are more suitable for narrow spaces



Order Code	Double Sided (mm)
TFWR71	
-01012A	10 x 12
-01013A	10 x 13
-01014A	10 x 14
-01113A	11 x 13
-01214A	12 x 14
-01317A	13 x 17



Order Code	Double Sided (mm)
TFWR71	
-01415A	14 x 15
-01417A	14 x 17
-01618A	16 x 18
-01719A	17 x 19
-01721A	17 x 21
-01922A	19 x 22
-02224A	22 x 24
-02427A	24 x 27
-02730A	27 x 30
-03022A	30 x 32
-03436A	34 x 36
-03641A	36 x 41
-03841A	38 x 41
-04146A	41 x 46
-04650A	46 x 50
-04155A	41 x 55
-04655A	46 x 55
-05055A	50 x 55
-05560A	55 x 60
-06065A	60 x 65
-06570A	65 x 70

Order Code	Single Sided (mm)
TFWR71	
-10010B	10
-10012B	12
-10013B	13

Order Code	Single Sided (mm)
TFWR71	
-10014B	14
-10015B	15
-10016B	16
-10017B	17
-10018B	18
-10019B	19
-10020B	20
-10021B	21
-10022B	22
-10023B	23
-10024B	24
-10026B	26
-10027B	27
-10030B	30
-10031B	31
-10032B	32
-10033B	33
-10035B	35
-10036B	36
-10038B	38
-10041B	41
-10046B	46
-10048B	48
-10050B	50
-10054B	54
-10055B	55
-10060B	60
-10080B	80

Bi-directional Square Ratchet Wrenches

- Applied in benchwork, molding and mechanical maintenance etc.
- Constructed with precision gears, effortless without slipping
- High-frequency quenching for enhanced strength and durability



Order Code	Size (mm)	Order Code	Size (mm)
TFWR11		TFWR11	
-00010A	10 x 10	-00017A	17 x 17
-00011A	11 x 11	-00024A	24 x 24
-00012A	12 x 12	-00025A	25 x 25
-00013A	13 x 13	-00026A	26 x 26
-00014A	14 x 14	-00027A	27 x 27

Punch & Chisel Sets

- Made from chrome vanadium steel
- Specially hardened tips, strong and durable
- Moderate hardness of handles, can effectively reduce the vibration, easy to control
- Golden surface, resistant to rust
- Packed in a steel box, easy to carry and store

6Pc Punch & Chisel Set

- Flat Chisels:
15 × 12 × 150mm
12 × 10 × 130mm
- Pin Punches:
3 × 10 × 150mm
5 × 12 × 150mm
- Center Punches:
4 × 10 × 120mm
- Taper Punches:
4 × 10 × 120mm



Order Code	Numbers of Pieces
TFPC88	6
-00206T	

6Pc Punch Set

- Center Punches:
3 × 10 × 150mm
5 × 10 × 150mm
8 × 12 × 150mm
- Taper Punches:
3 × 10 × 150mm
5 × 10 × 150mm
8 × 12 × 150mm



Order Code	Numbers of Pieces
TFPC88	6
-00406T	

6Pc Pin Punch Set

- Pin Punches:
3 × 10 × 150mm
4 × 10 × 150mm
5 × 10 × 150mm
6 × 10 × 150mm
7 × 12 × 150mm
8 × 12 × 150mm



Order Code	Numbers of Pieces
TFPC88	6
-00506T	

6Pc Punch & Chisel Set

- Flat Chisels: 15 × 12 × 150mm
12 × 10 × 130mm
- Cross-cut Chisel: 5 × 10 × 130mm
- Pin Punch: 5 × 12 × 150mm
- Center Punch: 3 × 10 × 120mm
- Taper Punch: 4 × 10 × 120mm



Order Code	Numbers of Pieces
TFPC88	6
-00306T	

Center Punches

Octagon

- Made from bearing steel, full heat treatment, chrome-plated surface
- Octagon shaft for safe handling
- Beautiful and rust resistant

Knurled

- Made from chrome vanadium steel, full heat treatment, nickel-plated surface
- Knurled grip for secure holding
- Beautiful and rust resistant



Order Code	Type	Overall Length (mm)	Tip Diameter (mm)	Shaft Size (mm)	Weight (g)
-01006A	Octagon	119	6	12	98
-02005A	Knurled	109	5	9	50

Stainless Steel Oil Tank Gauging Tapes - Metric & Inch Readings

- Suitable for measuring the depth of oil in vessels such as tankers and tanks, or for measuring the depth of water level at the bottom of vessels
- Tapes are made of stainless steel to prevent rust and corrosion
- Anchors are made of brass, can be rotated arbitrarily to prevent the tape from spiraling and also solid explosive-proof, making the oil gauging safe to use
- Double-sided with different unit scales, inches/feet & metric for accurate reading
- Quick retraction, ergonomic handle



Order Code	Tape Length (M / ft)	Tape Width (mm)	Resolution (mm)	Weight (g)
-30100C	10M / 32ft	12.5	1	780
-30150C	15M / 48ft	12.5	1	850
-30200C	20M / 64ft	12.5	1	950
-30300C	30M / 96ft	12.5	1	1200

14Pc Punch & Chisel Set

- Flat Chisels:
12.7 × 9.5 × 151mm, 16 × 12.7 × 178mm
19 × 16 × 178mm, 22 × 16 × 200mm, 25 × 19 × 216mm
- Pin Punch: 3 × 9.5 × 127mm
- Center Punches:
3 × 9.5 × 127mm
2.4 × 9.5 × 127mm
4.8 × 9.5 × 150mm
6 × 12.7 × 150mm
- Taper Punches:
3 × 9.5 × 216mm
3 × 12.7 × 250mm
4 × 12.7 × 229mm
9.5 × 16 × 250mm



Order Code	Numbers of Pieces
TFPC88	14
-00114T	

Nut Splitters

- Sturdy forged high carbon steel body with bearing steel blades. Hardened and tempered for durability with satin finish for rust resistance
- Can easily cut off rusted, cross-threaded or rounded-off nuts without damaging bolt threads
- Typically used with sockets or spanners



Order Code	No. of Size	Bolt Dia. (mm)	Overall Length (mm)	Applicable Nut Range (mm)
-01001A	1#	12	80	9 - 12
-01002A	2#	14	102	12 - 16
-01003A	3#	18	130	16 - 22
-01004A	4#	21	150	22 - 27

4Pc Set

- Packed in a sturdy blow case



Order Code	Set Contents
TFOT07	1 #, 2 #, 3 #, and 4 # each
-01104T	

Industrial High Tensile Screwdrivers

- Premium quality for industrial purpose. Blades made of high tensile chrome molybdenum steel with magnetic tips for sturdy and durable use
- Phosphated and sandblasted blades for excellent anti-rust and visually appealing
- Ergonomic soft TPR handles for comfortable grip and effortless
- Tail hanging hole for easy storage, preventing loss


Phillips Screwdrivers



Order Code	Size
-10003A	PH0 x 75mm
-11004A	PH1 x 100mm
-11006A	PH1 x 150mm

Order Code	Size
-12004A	PH2 x 100mm Bolster Blade
-12006A	PH2 x 150mm Bolster Blade
-12008A	PH2 x 200mm Bolster Blade
-13006A	PH3 x 150mm Bolster Blade

Slotted Screwdrivers



Order Code	Size
-10303A	3.2 x 75mm
-10404A	4.0 x 100mm
-10504A	5.0 x 100mm
-10506A	5.0 x 150mm

Order Code	Size
-10604A	6.0 x 100mm Bolster Blade
-10606A	6.0 x 150mm Bolster Blade
-10608A	6.0 x 200mm Bolster Blade
-10610A	6.0 x 250mm Bolster Blade
-10806A	8.0 x 150mm Bolster Blade
-10808A	8.0 x 200mm Bolster Blade

Industrial Screwdriver Sets in Plastic Boxes



Order Code	Numbers of Pieces	Set Contents
-30106T	6	⊕ PH1x100mm, PH1x150mm, PH2x100mm, PH2x150mm ⊖ 5.0x100mm, 5.0x150mm
-30206T	6	⊕ PH1x150mm, PH2x100mm ⊖ 4.0x100mm, 5.0x100mm, 5.0x150mm, 6.0x100mm
-30306T	6	⊕ PH0x75mm, PH1x100mm, PH1x150mm, PH2x100mm, PH2x150mm ⊖ 5.0x150mm
-30406T	6	⊕ 3.2x75mm, 4.0x100mm, 5.0x100mm, 5.0x150mm, 6.0x100mm ⊖ 6.0x150mm
-30107T	7	⊕ PH0x75mm, PH1x100mm, PH1x150mm, PH2x150mm ⊖ 3.2x75mm, 4.0x100mm, 6.0x100mm
-30207T	7	⊕ PH1x150mm, PH2x100mm, PH2x150mm ⊖ 3.2x75mm, 4.0x100mm, 5.0x100mm, 5.0x150mm
-30307T	7	⊕ PH0x75mm, PH1x100mm, PH2x100mm ⊖ 3.2x75mm, 4.0x100mm, 5.0x150mm, 6.0x150mm
-30407T	7	⊕ PH1x100mm, PH1x150mm, PH2x150mm ⊖ 4.0x100mm, 5.0x100mm, 5.0x150mm, 6.0x150mm

Industrial Precision Screwdriver Sets in Plastic Boxes

- Premium quality for industrial purpose. Blades made of high tensile chrome molybdenum steel with hardness up to HRC54-57
- Phosphated and chrome plating treatment blades for excellent anti-rust and visually appealing
- Ergonomic plastic handles for comfortable grip and effortless



Order Code	Numbers of Pieces	Set Contents
-01004T	4	⊕ PH00 x 40mm, PH1 x 40mm ⊖ 2.0 x 40mm, 3.0 x 40mm
-02007T	7	⊕ PH00 x 40mm, PH0 x 40mm, PH1 x 40mm ⊖ 1.6 x 40mm, 2.0 x 40mm, 2.4 x 40mm, 3.0 x 40mm
-03012T	12	⊕ PH00 x 50mm, PH0 x 50mm, PH1 x 50mm ⊖ 2.0 x 50mm, 2.4 x 50mm, 3.0 x 50mm ⊕ T7 x 50mm, T8 x 50mm, T9 x 50mm, T10 x 50mm, T15 x 50mm, T20 x 50mm

12Pc Industrial Go-through Screwdriver Set

- Blades made of high tensile chrome vanadium steel ensuring a better performance in terms of bending and torsion
- Hexagonal blades enabling powerful tightening and loosening with a wrench
- Chrome-plated blades with magnetic tips for better adhesion to the screws and better corrosion resistance
- Hex nut end for concentrating striking
- Ergonomic soft TPR handles for comfortable grip and effortless

⊖ Slotted:	⊕ Phillips:
3 x 75mm	PH0 x 75mm
5.5 x 75mm	PH1 x 75mm
6.5 x 38mm	PH2 x 38mm
6.5 x 100mm	PH2 x 100mm
8 x 150mm	PH3 x 150mm
10 x 200mm	PH4 x 200mm



Order Code	Qty.
TFSC88	
-20112T	12

7Pc Industrial Screwdriver Set

- Blades made of high tensile S2 alloy steel, with magnetic tips for sturdy and durable use
- Ergonomic soft TPR handles for comfortable grip and effortless
- Packed in an upright blow case for good presentation and easy access
- Compliant with German DIN standard
- ⊖ Slotted: 3 x 75mm, 6 x 100mm, 8 x 150mm
- ⊕ Phillips: PH1 x 100mm, PH2 x 100mm
- ⊗ Torx: T20 x 100mm, T25 x 100mm



Order Code	Qty.
TFSC88	
-10107T	7

7Pc Industrial Torx Screwdriver Set

- Blades made of high tensile S2 alloy steel, with magnetic tips for sturdy and durable use
- Ergonomic soft TPR handles for comfortable grip and effortless
- Packed in an upright blow case for good presentation and easy access
- Compliant with German DIN standard
- ⊗ Torx: T20 x 100mm, T25 x 100mm, T27 x 100mm, T30 x 100mm, T40 x 125mm, T45 x 150mm, T50 x 175mm



Order Code	Qty.
TFSC88	
-10307T	7

Impact Screwdriver Sets

- Bits made of high quality chrome vanadium steel
- Each set standard with: 2pcs of 5/16" hex x 70mm; 4pcs of 5/16" hex x 45mm

7Pc Professional Grade Set in Blow Case

- Plastic protective sleeve offering comfortable grip, anti-smashing, shockproof and anti-slip



7Pc Industrial Grade Set in Steel Case

- Knurled handle for secure grip, anti-slip and oil resistant



Order Code	Type	Packaging	Qty.	Drive Size
TFSC50				
-10007A	Professional Grade	Blow Case	7	5/16" Hex
-20007B	Industrial Grade	Steel Case	7	5/16" Hex

Spiral Ratchet Screwdriver

- Widely used in field work sites and tight spaces
- Enabling quick tightening or loosening screws
- 3-position ratchet for forward, reverse and stop operations
- Quick bit change collet
- Chrome plated blade, genuine wood handle
- Standard with 4 bits



Order Code	Numbers of Pieces	Extended Length (mm)
TMSC49		
-10440T	5	440

Magnetizer / Demagnetizer


- Instantly magnetize or demagnetize steel tools and other small ferrous parts such as screwdriver bits
- Made with premium materials, this tool is built to last and withstand everyday wear and tear
- The shock-resistant ABS plastic provides added durability and protection



Order Code	Dimensions (mm)
TFOT03	
-01001A	50 x 50 x 30

40 in 1 Color Screwdriver Bit Kit for Electric Appliances

- Specialized for your daily repair works, i.e. electrical and furniture assembly, precision device and laptop assembly and daily home maintenance
- Bits are made of S2 alloy material, which is very sturdy and durable. Color coded is for better identification and easy storage
- Magazine designed aluminum case offering convenient use. You only need to press the button at the end of the screwdriver quickly, and the storage compartment for the bit will automatically pop up
- The magnetic mechanism with extension enables you to connect screws and nuts easily when using a screwdriver, even in a narrow scenarios



- ⊕ PH0, PH1, PH2, PH3
- SL2.0, SL3.0, SL4.0, SL5.0, SL6.0
- H3, H4, H5, H6
- ⊕ T5H, T6H, T8H, T10H, T20H, T25H, T27H, T30H, T35H, T40H
- SQ1, SQ2, SQ3
- 2.0, 2.3, 3.0
- Y1, Y2
- 1, 2, 3
- U6, U8, U10

Order Code	Qty.	Storage Case Dimensions (mm)	Weight (g)
TFBT88	40	L150 x W70 x H36	494
-44040T			

132Pc Precision Electronics Screwdriver Bit Kit

- An almighty kit for all your electronic repair needs for home appliances such as TVs, air conditioners, fans and refrigerators cell phones, watches, glasses, laptops and so on
- Made from the highest quality CRV material to reach a hardness of HRC56±2 and a salt spray test at 48 hours
- Adopts advanced UV printing technology for bit color coding, improving visibility and facilitating faster identification of the required bits
- Built-in 3-layer storage case for easy pickup and put away




- ① Handle & Extension
- ② Hobby Knife (Metal)
- ③ Flexible Extension Hose
- ④ Long Double-Ended Pry Bar
- ⑤ Pointed Tweezers
- ⑥ Suction Cup
- ⑦ 1/4" Impact Extension
- ⑧ Double-Ended Pry Bar A
- ⑨ Double-Ended Pry Bar B
- ⑩ Triangular Thick Pieces (x3)
- ⑪ Triangular Thin Pieces (x4)
- ⑫ Large Triangular Thin Pieces (x5)
- ⑬ H4 x 28mm CRV Bit Set (x108)

Order Code	Qty.	Bit Size	Storage Case Dimensions (mm)	Weight (g)
TFBT88	132	H4 x 28mm	L160 x W105 x H64	655
-44132T				

45 in 1 Finishing Screwdriver Bit Kit for Cell Phones

- Specialized for cellphone, watch and glass assembly and daily home maintenance
- Bits are made of S2 alloy material, which is very sturdy and durable. Color coded is for better identification and easy storage
- Built-in strong magnet can easily pick up the small screws and parts
- Packed in a press-to-pop up aluminum storage case



- ⊕ PH000, PH00, PH0, PH1
- SL1.0, SL1.5, SL2.0, SL2.5, SL3.0, SL3.5
- H0.7, H0.9, H1.3, H1.5, H2.0, H2.5, H3.0, H3.5
- T2, T3, T4
- ⊕ T5H, T6H, T8H, T10H, T15H, T20H
- S0, S1
- 2.0, 2.3
- Y0.6, Y2.0, Y2.5
- P2, P5, P6
- U2.6, U3.0
- 0.8
- 2.5

Order Code	Qty.	Storage Case Dimensions (mm)	Weight (g)
TFBT88	45	L150 x W37 x H37	295
-44045T			

Kit Contents

Items	Image	Size (mm)	Materials
Handle & Extension	1	146 x 20	Soft Grip + Aluminum Alloy
Hobby Knife (Metal)	2	128	PP + Stainless Steel
Flexible Extension Hose	3	130	Spring Steel + ABS
Long Double-Ended Pry Bar	4	153	Plastic
Pointed Tweezers	5	142 x 1.5	Stainless Steel
Suction Cup	6	Ø35	PVC + Steel Ring
1/4" Impact Extension	7	45 x 6	CRV Steel
Double-Ended Pry Bar A	8	81 x 10 x 7	Plastic
Double-Ended Pry Bar B	9	82 x 10 x 5	Plastic
Triangular Thick Pieces (x3)	10	31 x 3	Plastic
Triangular Thin Pieces (x4)	11	31 x 1.5	Plastic
Large Triangular Thin Pieces (x5)	12	36 x 0.8	Plastic
H4 x 28mm CRV Bit Set (x108)	⊕ Phillips	PH000*3 PH000*3 PH00*3 PH0*3 PH1*2 PH2*2	
	○ Slotted	SL1*3 SL1.3*3 SL1.5*2 SL2.0*2 SL2.5 SL3.0 SL3.5 SL4.0	
	○ Hex	H0.7*2 H0.9*2 H1.3 H1.5 H2.0 H2.5 H3.0 H3.5 H4.0 H4.5 H5.0 H6.0	
	○ Socket	M2.5 M3.0 M3.5 M4.0 M4.5 M5.0 M5.5	
	⊕ Torx	T1*3 T2*3 T3*3 T4*2 T5*2	
	⊕ Drilling	T6H T7H T8H T9H T10H T15H T20H	
	○ Tri-wing	Y000*3 Y00*2 Y0*2 Y1 Y2	
	○ Pentalobe	AP0.8*2 AP1.2*2 AP1.5*2 AP2.0*2	
	○ Triangle	2.0 2.3 2.6 3.0	
	○ Square	SQ0 SQ1 SQ2	
	⊕ Pozidriv	PZ00 PZ0 PZ1.0 PZ2.0	
	○ Spanner	U2.0 U2.6 U3.0	
	○ SIM	SIM0.8 SIM1.0	
⊕ Standoff	2.0 2.5		

Order Code	Qty.	Bit Size	Storage Case Dimensions (mm)	Weight (g)
TFBT88	132	H4 x 28mm	L160 x W105 x H64	655
-44132T				

8" Industrial Single Hand Operational Rivet Nut Gun

- Perfect for projects involving sheet metal, gutters, storm doors, and automotive repairs. Widely used in industries such as automotive, aviation, railway, refrigeration, elevator, switch, instrument, furniture and decoration etc.
- One-hand operation for fast riveting process
- The aluminum alloy body and blackened surface treatment makes the tool more durable
- Spray plastic casing for easy clean
- Ergonomic non-slip handles for secure grip
- Max. stroke: 7mm
- Max. force arm multiple: 27
- Weight: 500g
- Comes with metric nose piece & mandrel set - M3, M4, M5, M6



Order Code	Overall Length	Riveting Range
TFPL60		
-10200R	8" / 200mm	M3 - M6

Additional Replacement: M3 - M6 Nose Piece & Mandrel Set

Order Code	Qty.	Set Contents
TFPL60		
-10201P	4	M3, M4, M5, M6 Nose Pieces & Mandrels, 1 off each

8" Industrial T Type Rivet Nut Gun

- Innovative design for effortless operation
- The aluminum alloy body with spray plastic casing makes the tool more durable and longevity
- Ergonomic non-slip handles for secure grip
- Max. stroke: 5mm
- Max. force arm multiple: 26
- Weight: 760g
- Comes with metric nose piece & mandrel set - M3, M4, M5, M6



Order Code	Overall Length	Riveting Range
TFPL60		
-50200R	8" / 200mm	M3 - M6

14" Industrial Automatic Rivet Nut Gun

- Innovative design for labor-saving by over 40% becomes a truly one of the most labor-saving rivet nut guns in the market
- The aluminum alloy body and carbon steel handles for durability and longevity
- Plastic coated casing preventing from corrosion
- Quick-change head design make it simple to change mandrels and nose pieces quickly
- Loosen the red knob can release the rivet gun from the rivet nut easily
- Ergonomic non-slip handles for secure grip
- Max. stroke: 7mm
- Max. force arm multiple: 38
- Weight: 920g
- Comes with metric nose piece & mandrel set - M3, M4, M5, M6, M8, M10, M12



Order Code	Total Length	Riveting Range
TFPL60		
-30360R	14" / 360mm	M3 - M12

Additional Replacement: M3 - M12 Nose Piece & Mandrel Set

Order Code	Qty.	Set Contents
TFPL60		
-30307P	7	M3, M4, M5, M6, M8, M10, M12 Nose Pieces & Mandrels, 1 off each

17" Industrial Automatic Nut Riveter

- A perfect tool for professionals. Just "pull & push" the knob to load and unload rivet nuts quickly
- Innovative fixing-hole design is not only for solving headache problem of rivet nut stuck with mandrels, but also assisting user to exchange mandrels easily
- Handles are made of 3mm thick carbon steel to eliminate vibration during the operation
- Heat-treatment finish for anti-corrosion
- Spray plastic casing for easy clean
- Ergonomic non-slip handles for secure grip
- Max. stroke: 9mm
- Max. force arm multiple: 45
- Weight: 1500g
- Comes with metric nose piece & mandrel set - M3, M4, M5, M6, M8, M10, M12



Order Code	Total Length	Riveting Range
TFPL60		
-40440R	17" / 440mm	M3 - M12

Additional Replacement: M3 - M12 Nose Piece & Mandrel Set

Order Code	Qty.	Set Contents
TFPL60		
-30307P	7	M3, M4, M5, M6, M8, M10, M12 Nose Pieces & Mandrels, 1 off each

15" Industrial Heavy Duty Riveter with Stem Collector

- The most labor-saving and smallest dual-handled riveter in the market thanks to the innovative design. It can pull max. 6.4mm aluminum or stainless steel rivets by reducing the effort of more than 40%.
- Quick-change head design make it simple to change mandrels and nose pieces quickly without additional tools
- The Integrated rivet stem collecting bottle ensuring the safety of the operator and easy to handle
- Handles are made of 4.3mm thick carbon steel to eliminate vibration during the operation
- Heat-treatment finish for anti-corrosion
- Spray plastic casing for easy clean
- Ergonomic non-slip handles for secure grip
- Max. stroke: 7mm
- Max. force arm multiple: 30
- Weight: 1200g
- Comes with metric nose piece set - M2.4 - M6.4



Order Code	Total Length	Riveting Range
TFPL60		
-60380R	15" / 380mm	Aluminum Blind: M2.4 - M6.4 Steel Blind: M2.4 - M6.4 Stainless Blind: M2.4 - M6.4

10" Industrial Folding Riveter

- Ideal for repetitive tasks using either aluminum, stainless steel or steel blind rivets
- Innovative design for labor-saving by over 20%. This lazy tong riveter's lever action reduces the effort and force required to set rivets, it can be used with only one hand without any loss of efficiency. Single pull action for fast and continuous riveting, suitable for limited lateral access and site work
- The aluminum alloy body and blackened surface treatment makes the tool more durable
- Spray plastic casing for easy clean
- Ergonomic non-slip handles for secure grip
- Extended length: 825mm
- Retracted length: 205mm
- Max. stroke: 9mm
- Max. force arm multiple: 56
- Weight: 1471g
- Comes with metric nose piece set - M2.4 - M6.4



Order Code	Retracted Length	Riveting Range
TFPL60		Aluminum Blind: M2.4 - M6.4 Steel Blind: M2.4 - M6.4 Stainless Blind: M2.4 - M6.4
-60250R	10" / 250mm	

7-1/2" Industrial Single Hand Operational Riveter

- Ideal for repetitive tasks using either aluminum, stainless steel or steel blind rivets
- Innovative design for labor-saving by over 40%. One-hand operation for fast riveting process
- Adjustment free fixing nut for easier operation
- The aluminum alloy body and blackened surface treatment makes the tool more durable
- Spray plastic casing for easy clean
- Ergonomic non-slip handles for secure grip
- Max. stroke: 7mm
- Max. force arm multiple: 26
- Weight: 500g
- Comes with metric nose piece set - M2.4 - M4.8



Order Code	Retracted Length	Riveting Range
TFPL60		Aluminum Blind: M2.4 - M4.8 Steel Blind: M2.4 - M4.8 Stainless Blind: M2.4 - M4.8
-00190R	7-1/2" / 190mm	

Industrial Pliers

- Made from high-quality, wear-resistant chrome vanadium steel
- Precision forged and finely processed for optimal performance and durability
- Cutting edges are specially hardened with a high hardness rating of HRC57-65
- Ergonomic dual-color compound handles for comfortable grip, anti-slip and anti-fatigue
- Meets the standards of ANSI and DIN

Combination Pliers

- Combines various functions in one tool for gripping, cutting, twisting, and bending
- Serrated jaws ensure a tight grip on the flat and round work pieces, and the cutting edges for clean and accurate cuts on soft and hard wires
- Ergonomic handles with non-slip grips for reduced hand fatigue



Order Code	Size
TFPL10	
-10150A	6" / 150mm
-10180A	7" / 180mm
-10200A	8" / 200mm

Long Nose Pliers

- Features long serrated jaws to maximum grip, tapered to a fine end for accessing and manoeuvring small objects in confined spaces
- Perfectly aligned edges for greater manipulation capacity
- Ergonomic handles with non-slip grips for reduced hand fatigue



Order Code	Size
TFPL11	
-10150A	6" / 150mm
-10200A	8" / 200mm

Heavy Duty Diagonal Cutting Pliers

- Ideal for heavy and repetitive tasks, suitable for cutting both hard & soft wires
- High leverage design for less effort when cutting
- Induction hardened cutting edges are equally aligned for precision cut
- Hot-riveted joint ensures smooth action and no handle wobble
- Ergonomic handles with non-slip grips for reduced hand fatigue



Order Code	Size
TFPL12	
-20150H	6" / 150mm
-20180H	7" / 180mm
-20200H	8" / 200mm

Flat Nose Pliers

- Features long serrated jaws to maximum grip
- Perfectly aligned edges for greater manipulation capacity
- Ergonomic handles with non-slip grips for reduced hand fatigue



Order Code	Size
TFPL14	
-10150A	6" / 150mm

FUJIYA Pliers & Scissors

- Suitable for various industrial and maintenance fields, these pliers are designed with ergonomic considerations, providing a comfortable grip and easy operation.
- Manufactured in Taiwan.

Industrial Lineman's Pliers

- These pliers can cut steel bars below 1.0mm, stainless steel below 2.5mm, steel cables below 2.5mm, iron bars below 4mm, and electrical wires below 6mm.
- They feature an eccentric axle design for improved leverage and reduced effort during use.



Order Code	Total length
K-800	8" / 200mm

Industrial Lineman's Pliers

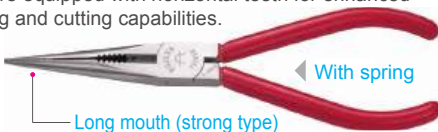
- These pliers can cut steel bars below 1.5mm, stainless steel wire below 3mm, steel cables below 3mm, iron bars below 4mm, and electrical wires below 6mm. They also have a crimping capability with a range of 1.25mm, 2mm, 5.5mm, and 8mm.
- The pliers feature an eccentric axle design for improved leverage and reduced effort during use.



Order Code	Total length
K-900CR	9" / 230mm

Electronics Long Nose Pliers

- These pliers can cut iron wire below 2.0mm, copper wire below 3.0mm, electrical wire below 3.0mm, and steel bars below 1.0mm.
- They are equipped with horizontal teeth for enhanced gripping and cutting capabilities.



Order Code	Total length
F-106D	7" / 180mm

Electronics Round Long Nose Pliers

- These pliers can cut electrical wires below 2.0mm, copper wires below 2.0mm, and iron wires below 1.5mm.
- They feature horizontal teeth for improved gripping and cutting performance.



Order Code	Total length
F-108	5-5/16" / 135mm

Electronics Needle Nose Pliers

- Horizontal teeth



Order Code	Total length
F-108C	5-1/8" / 130mm

Electronics 15° Bent Nose Pliers

- Horizontal teeth



Order Code	Total length
F-106RR	6-5/16" / 160mm

Electronics 45° Bent Nose Pliers

- Horizontal teeth



Order Code	Total length
F-106BB	6-1/8" / 155mm

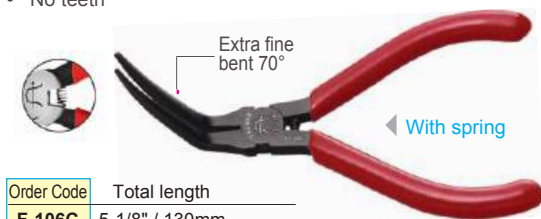
Electronics 70° Bent Nose Pliers



Order Code	Types	Total length
F-106CC	Horizontal teeth	6" / 150mm
F-106PP	No teeth	6" / 150mm

Electronics 70° Bent Extra Fine Nose Pliers

- No teeth



Order Code	Total length
F-106C	5-1/8" / 130mm

Electronics Diagonal Cutters for Plastic

- These pliers can cut plastic below 5mm and steel bars below 2.0mm. They are also capable of cutting iron wires below 1.5mm.

Do not be cut hard plastic materials that contain steel or acrylic.



Order Code	Total length
FC-21	5"/ 125mm

Electronics Diagonal Cutters for Plastic

- These pliers can cut plastic below 6mm and steel bars below 2.5mm. They are also capable of cutting iron wires below 2.0mm.

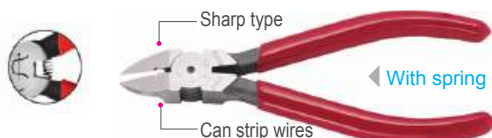
Do not be cut hard plastic materials that contain steel or acrylic.



Order Code	Total length
FC-22	6-1/2" / 165mm

Electrician's Flat Surface Diagonal Cutting Pliers

- This is a specialized tool for telecommunications equipment.
- It can cut wires, iron wires, and copper wires, and it also has wire stripping functionality.
- **Do not cut steel materials**



Order Code	Total length
K-150	6-5/16" / 160mm

Electronics 45° Diagonal Cutters for Plastic

- These pliers can cut plastic below 5.0mm and steel bars below 2.5mm. They are also capable of cutting iron wires below 1.5mm.

Do not be cut hard plastic materials that contain steel or acrylic.



Order Code	Total length
FC-33	6"/ 150mm

Electronics 90° Diagonal Cutters for Plastic

- These pliers can cut plastic below 5.0mm and steel bars below 2.5mm. They are also capable of cutting iron wires below 1.5mm.

Do not be cut hard plastic materials that contain steel or acrylic.



Order Code	Total length
FC-33A	6"/ 150mm

Electronics Diagonal Cutters for Plastic - Carbide Blades

- This tool can be used as an electronic diagonal cutter, plastic nippers, electrician diagonal cutter, and fine steel wire cutter.
- It features tungsten steel blade edges that are sharp and flat.

Not suitable for cutting steel wires thicker than 0.5mm. Avoid twisting the tool during use, and refrain from using the pointed tip to cut any material.



Order Code	Total length
FU-22	6"/ 150mm

Modern Type Electronics Diagonal Cutters

- This lightweight diagonal cutter is specifically designed for electronic applications,
- 1C boards, precision instruments, and similar purposes. It is capable of cutting copper wires up to 1.8mm in diameter.

Do not cut steel materials

Refrain from using the pointed tip to cut any material.



Order Code	Total length
F-162	5"/ 130mm

ESD Electronics Pliers

- This anti-static diagonal cutter is specifically designed for electronic applications, 1C boards, precision instruments, and similar purposes. It features a handle made of anti-static material for electrostatic discharge protection.
- It is capable of cutting copper strips up to 1.8mm thick and electrical wires below 1.8mm in diameter.

Do not cut steel materials

⚡ Anti-static



Order Code	Total length
F-257	5"/ 125mm

45° ESD Electronics Pliers

- Designed specifically for electronics, PCBs, and precision instruments, this anti-static diagonal pliers feature a rubber grip with anti-static properties.
 - Cutting capacity: Copper wire below 1.8mm diameter, electrical wire below 1.8mm diameter.
- Do not cut steel materials.**

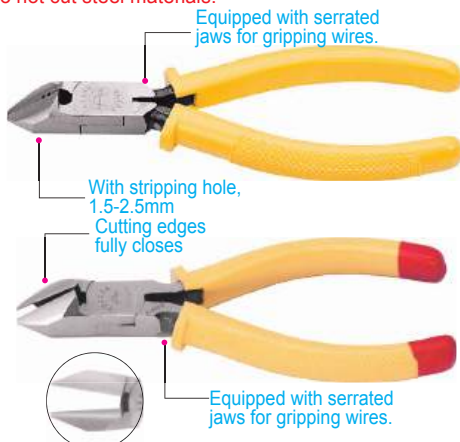
Cutting edge angle: 45°



Order Code	Total length
F-260	5" / 125mm

Heavy Duty Diagonal Cutting Nippers

- Specialized tool for mechanical, automotive, electrical equipment, and telecommunication repairs.
 - Cutting capacity: Electrical wire below 2.5mm diameter, copper wire below 3.0mm diameter, iron wire below 1.5mm diameter, stainless steel wire below 1.0mm diameter.
- Do not cut steel materials.**



Equipped with serrated jaws for gripping wires.

With stripping hole, 1.5-2.5mm
Cutting edges fully closes

Equipped with serrated jaws for gripping wires.

Order Code	Total length	Properties
F-105	6-5/16" / 160mm	With stripping hole, 1.5-2.5mm
F-105B	6-5/16" / 160mm	Cutting edges fully closes

Slim Side Cutters

- Best cutting pliers for toys, models, plastics, and similar materials.

Super slim cutter blade



Order Code	Total length
F-107S	4-1/2" / 115mm

Heavy Duty New Industrial Slip Joint Pliers

- Industrial-grade, suitable for all industries
- Adjustable opening size



Order Code	Total length
F-300H	9-5/8" / 245mm

Heavy Duty Full Cr-V Steel Slip Joint Pliers

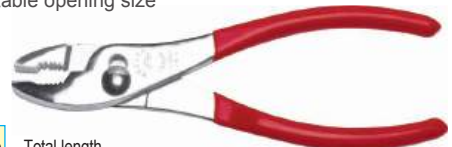
- Industrial-grade, suitable for all industries
- Adjustable opening size



Order Code	Total length
F-200E	8-1/16" / 205mm

Industrial Slip Joint Pliers with Bonded Vinyl-coated Handles

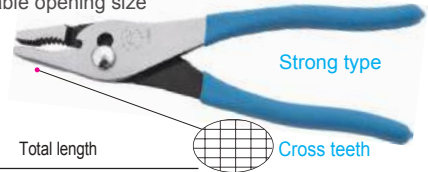
- Industrial-grade, suitable for all industries
- Adjustable opening size



Order Code	Total length
F-200H	8" / 200mm
F-250H	10" / 250mm

Heavy Duty Automobile Slip Joint Pliers

- Designed for automotive, plumbing, and mechanical repairs
- Cross serration
- Adjustable opening size



Order Code	Total length
F-215H	8-1/2" / 215mm

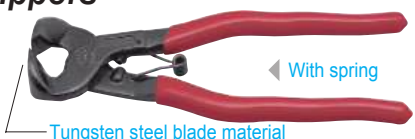
Wire Twisting Pliers

- Specialized wire bending pliers for aviation, marine, and electrical industries



Order Code	Type	Total length
F-WTP806	one-way	8-1/2" / 215mm
F-WTP806R	Forward and reverse	9-1/4" / 235mm

Tile Nippers



Order Code	Total length
F-009	8" / 200mm

Internal Circlip Pliers - Straight Nose

- Mechanical, automotive, maintenance, and other industrial applications



◀ With spring

Order Code	Total length	Range of use (mm)	Tip diameter (mm)
F-170	5-1/2" / 140mm	10~25	1.5~2.0
F-123	7" / 180mm	12~65	2.0~2.5
F-230A	9-3/5" / 245mm	32~80	2.5~3.0
F-330A	12-1/2" / 320mm	85~165	3.5~4.0

External Circlip Pliers - Straight Nose

- Mechanical, automotive, maintenance, and other industrial applications



◀ With spring

Order Code	Total length	Range of use (mm)	Tip diameter (mm)
F-171	5-1/2" / 140mm	10~25	1.5~2.0
F-124	7" / 180mm	12~65	2.0~2.5
F-230B	9-3/5" / 245mm	32~80	2.5~3.0
F-330B	12-1/2" / 320mm	85~165	3.5~4.0

Internal Circlip Pliers - Bent Nose



◀ With spring

Order Code	Total length	Range of use (mm)	Tip diameter (mm)
F-172	5-1/2" / 140mm	10~25	1.5~2.0
F-125	6-7/8" / 175mm	12~65	2.0~2.5
F-230C	9" / 230mm	32~80	2.5~3.0
F-330C	12" / 300mm	85~165	3.5~4.0

External Circlip Pliers - Bent Nose



◀ With spring

Order Code	Total length	Range of use (mm)	Tip diameter (mm)
F-173	5-1/2" / 140mm	10~25	1.5~2.0
F-126	6-7/8" / 175mm	12~40	2.0~2.5
F-230D	9" / 230mm	32~80	2.5~3.0
F-330D	12" / 300mm	85~165	3.5~4.0

Long Circlip Pliers

Internal, Straight Nose



External, Straight Nose



Internal, Bent Nose



External, Bent Nose



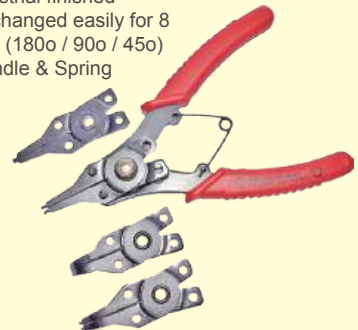
Order Code	Type	Total length	Range of use (mm)	Tip diameter (mm)
F-450A	Internal, Straight Nose	20" / 500mm	165~300	4.5~5.5
F-450B	External, Straight Nose	20" / 500mm	165~300	4.5~5.5
F-450C	Internal, Bent Nose	20" / 500mm	165~300	4.5~5.5
F-450D	External, Bent Nose	20" / 500mm	165~300	4.5~5.5

Replacement pliers tip set

Order Code
F-450AP
F-450CP
F-450BP
F-450DP

4-In-1 Combination Snap-Ring Plier

- Cr-V alloy steel with 4 convertible tips
- Drop forged and heat treated
- Black oxide industrial finished
- Jaws can be exchanged easily for 8 Internal-External (180° / 90° / 45°)
- PVC coating handle & Spring function
- Using Range : 10-50mm , Nose \varnothing 1.2mm



Order Code	Total length (mm)	Interchangeable (mm)
FA-4PCS	6" / 155mm	10 - 50

240mm Push Button Water Pump Pliers

- Chromium-vanadium steel treated with heat.
- Surface blackened treatment for corrosion and rust resistance.



Order Code	Total length	Maximum opening
K-10A	9-1/2" / 240mm	35mm

305mm Push Button Water Pump Pliers

- Chromium-vanadium steel treated with heat.
- Surface blackened treatment for corrosion and rust resistance.



Order Code	Total length	Maximum opening
K-12A	12" / 305mm	45mm

260mm Slip Joint Water Pump Pliers

- Chromium-vanadium steel treated with heat.
- Surface polished treatment for corrosion and rust resistance.



Order Code	Total length	Maximum opening	Price RM
K-10	10" / 260mm	40mm	

285mm Groove Joint Water Pump Pliers



Order Code	Total length	Maximum opening
K-12B	11" / 285mm	50mm

410mm Groove Joint Water Pump Pliers



Order Code	Total length	Maximum opening
K-16B	16" / 410mm	100mm

Japanese Style Long Jaw Water Pump Pliers



Order Code	Total length	Maximum opening
F-250DL	10-1/2" / 270mm	55mm
F-300DL	12-1/2" / 325mm	60mm

Revolving Leather Punch Tool

- Special hole punch pliers for genuine leather below 4.0mm.
- Hole diameter range: 2.0mm、2.5mm、3.0mm、3.5mm、4.0mm、4.5mm

Please often clean crumbs in holes



Order Code	Total length
F-4734	9" / 230mm

Interchangeable Leather Punch Pliers

- Special hole punch pliers for leather, cardboard, and other materials.
- Hole diameter range: 1.0mm、2.0mm、3.0mm、4.0mm、5.0mm、6.0mm



Order Code	Total length
F-4735	7" / 180mm

Cable Strippers



Order Code	Total length	Applicable cable diameter
F-0428	140mm	0.4~28mm
F-2835	160mm	28~35mm
F-3550	170mm	35~50mm
F-0828K	190mm	8~28mm(Bladed edge)

Wire Strippers

- Single-wire, manual wire stripping pliers with wire cutting and wire clamping functions.
- Stripping diameter range: 0.2mm、0.3mm、0.4mm、0.5mm、0.6mm、0.8mm



◀ With spring

Order Code	Total length
F-119	6"/ 155mm

Heavy Duty Automatic Wire Strippers

- Single-wire, automatic wire stripping pliers.
- Stripping diameter range: 1.0mm、1.6mm、2.0mm、2.6mm、3.2mm



◀ With spring

Order Code	Total length
F-2734B	175mm

Automatic Wire Strippers

- Wire stripping tool with fast stripping in the middle and compression and cutting functions.
- Stripping diameter range: 0.3~6.0mm • **Do not overload the tool.**



Order Code	Total length
F-2834	210mm

Heavy Duty Automatic Wire Strippers

- Professional wire stripping pliers for ribbon cables, single wires, and multi-core cables, with wire cutting function.
- Stripping diameter range: 0.2~4.0mm
- **Do not overload the tool.**



Order Code	Total length
F-127	170mm

Crimping Pliers

- Ergonomic design for comfortable grip and easy operation.
- Application range: YO-type terminals.
- Crimping style: Point crimping.



Order Code	Total length	Crimping range	Weight
FMH-02A	200mm	JIS(mm)1.25 - 2.0	230g

Crimping Pliers

- Ergonomic design for comfortable grip and easy operation.
- Application range: YO-type terminals.
- Crimping style: Point crimping.



Order Code	Total length	Crimping range	Weight
FMH-08	260mm	JIS(mm)1.25 - 2.0 - 5.5 - 8.0	420g

Heavy Duty Ratchet Crimping Pliers

- Non-insulated terminals, insulated terminals, YO-type insulated (non-insulated terminals). European sleeve insulated terminals. COAXBNC and TNC connector series, etc.
- Replaceable heads.



Order Code	Total length	Crimping range
FHT-236E1	200mm	AWG 10/8/6, DIN 6/10/16mm ²
FHT-236E2	200mm	AWG 22/20/18/16/14/12/10/8/6, DIN 0.5/0.75/1.0/1.5/2.5/4/6/10/16mm ²
FHT-236H	200mm	AWG 22-18/16-14/12-10, DIN 0.5-1.0/1.5-2.5/4-6mm ²

Modular Crimping Tool

- 4P4C, 6P6C, 8P8C three-in-one multifunctional tool.
- Comes with wire cutting blades and stripping function.



Order Code	Total length
F-468	191mm

Super Strong Sheet-Metal Cutting Snips

- Professional scissors for varnished board, corrugated board, thin lead, aluminium and copper board.
- Special steel cutting edge 3 Pirelli, steel plating anti-rust treatment.



Order Code	Total length
F-910A	10" / 250mm

Heavy Duty Aviation Tin-Snips

- Capable of cutting soft copper, cold-rolled steel, hard steel, and stainless steel.
- The blade is made of special steel, exceeding USA standards by 3 times or more, with a lifespan of over 100,000 uses under normal conditions.
- Can cut: soft copper up to 1.5mm, cold-rolled steel up to 1.2mm, hard steel up to 0.8mm, and stainless steel up to 0.7mm.



Left cut



Right cut

Straight Cut

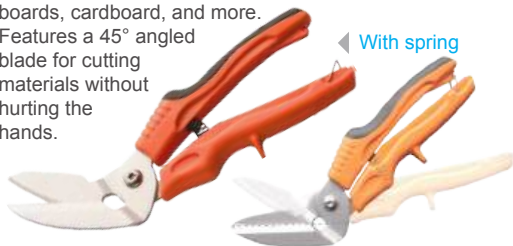


Straight cut

Order Code	Type	Total length
F-950	Left cut	9-1/2" / 245mm
F-960	Right cut	9-1/2" / 245mm
F-970	Straight cut	10" / 250mm
F-980	Longer Straight	11-3/16" / 285mm

45° Carpet Scissors

- Capable of cutting carpets, thin sheets, corrugated boards, cardboard, and more.
- Features a 45° angled blade for cutting materials without hurting the hands.



Order Code	Total length
F-910AA	10" / 250mm

Multi-Purpose Stainless Steel Scissors

- Ergonomic design for comfortable grip and easy operation.
- Suitable for cutting in gardening, fabrics, leather, and food-related applications.



Order Code	Total length	Blade length
F-712	9-1/4" / 235mm	85mm

Professional Multi-Purpose Stainless Steel Scissors

- Ergonomic design for comfortable grip and easy operation.
- Widely used in various industrial fields.
- Fine-toothed blade.
- Suitable for cutting fiber optic cables, copper wires, thin iron wires, stainless steel sheets, thin lead sheets, and food-related applications.
- Blade material: 420 J2 Japanese stainless steel.



Order Code	Total length
F-700	7-1/4" / 185mm
F-702	8-1/4" / 210mm

Fiber Optic Cutters

- Ergonomic design for comfortable grip and easy operation.
- Specifically designed for cutting Kevlar fabric and fiber optic cables.
- Features fine-toothed blades for precision cutting.



Order Code	Total length	Cut length
F-502	5-3/4" / 145mm	32mm

Fiber Optic Cutters

- Ergonomic design for comfortable grip and easy operation.
- Specifically designed for cutting Kevlar fabric and fiber optic cables.
- Features fine-toothed blades for precision cutting.



Order Code	Total length	Cut length
F-951	6-1/4" / 160mm	42mm

Tailor's Scissors

- Ergonomic design for comfortable grip and easy operation.
- Suitable for cutting materials such as fabric, leather, plastic, and more.



Order Code	Total length
FBS-909	9" / 230mm

Stainless Steel Poly Handled Multi-Purpose Scissors

- Suitable for multiple industries.
- Lightweight knife body with a spring and a locking switch.



Straight



Curved

Order Code	Model	Total Length
F-505	Straight	6-1/2" / 165mm
F-504	Curved	6" / 150mm

Stainless Steel Straight Blade Fruit Scissors

- Specialized scissors for harvesting fruits, tree buds, gardening, plastics, and more.



Order Code	Total Length
F-706	8" / 200mm

Multi-Purpose Stainless Steel Bent Blade Hedge Scissors

- Specialized scissors for gardening, branches, plastics, and more.
- Capable of cutting branches with a diameter of up to 20mm or less.



Order Code	Total Length
F-714	8" / 205mm

Stainless Steel Bent Blade Hedge Scissors

- Specialized scissors for gardening, branches, plastics, and more.
- Capable of cutting branches with a diameter of up to 15mm or less.



Order Code	Total Length
F-708	8" / 205mm

Stainless Steel Labor-saving Hedge Scissors

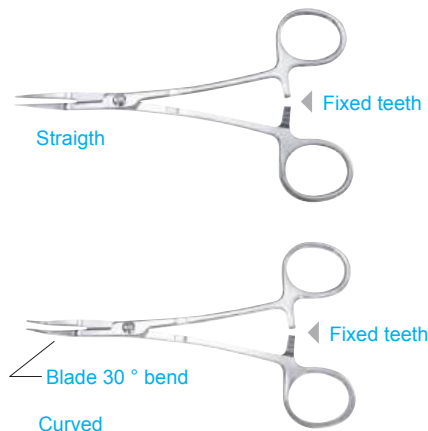
- Specialized scissors for gardening, branches, and more, with a progressive cutting design.
- Mechanically progressive and labor-saving, capable of cutting branches with a diameter of up to 20mm or less.



Order Code	Total Length
F-710	8" / 205mm

Stainless Steel Precision Long Nose Electronic Scissors

- Specialized needle-nose pliers for electronics and precision instruments.



Order Code	Model	Total Length
F-234	Straight	6-1/4" / 160mm
F-235	Curved	6-1/4" / 160mm

300mm Industrial Extra-Long Nose Pliers

- The extra long nose design will allow you to work in a variety of tight spots and constrained areas
- No blade, suitable for holding the things in depth place



No blade

Order Code	Total length
K-300	12" / 300mm

175mm Plastic Long-Side Nipper 25 Degree



Order Code	Total length
FC-35	7" / 175mm

175mm Multi-Purpose Industrial Long Nose Crimping Pliers

- Drop forged and heat-treated CR-MO high-grade alloy steel
- Stripping Holes : Ø0.5~1.25mm, 0.5~1.5mm
- Crimping function : 1.2 - 3.0mm



Order Code	Total length
F-106R	6" / 175mm

140mm Fujiya Flat Cutting Pliers

- Made of S55C high carbon steel drop forged and heat-treat with end cutting
- PVC coated handle and spring function.



Order Code	Total length
FC-29A	6" / 140mm

172mm Ratchet Pruner

- Upper Blade: High carbon SK-5 + TEFLON coated (adhesion prevention)
- Handle: Black Nylon + Fiberglass handle, red color TPR grip
- New ergonomic design allows you to prune for longer periods of time without fatigue
- Suitable for cutting 20mm btanches, casting polyurethane (PU) 60mm² coble.



Order Code	Total length
F-5674	7" / 172mm

125mm Slim Side Cutting Pliers

- Stainless steel
- TPR comfort handle & spring function
- Precise cutting edge



Order Code	Total length
FSP-23	5" / 125mm

125mm Round-Side Cutting Pliers

- Drop forged and heat treated, S55C high carbon steel
- PVC coating handle & spring function
- Precise superslim cutting edge & polished surface



Order Code	Total length
F-109A	5" / 125mm

190mm Fujiya Top Grade Steel Wire Rope Cutter

- Made of SAE1008 carbon steel body with SK-5 blade
- PVC coating handle & spring function
- Suitable for cutting:
 - Ø3.0mm Iron bar
 - Ø4.0mm Steel rope
 - Ø5.0mm Steel wire



Order Code	Total length
F-008	7-1/2" / 190mm

255mm High-Lever Cable Cutter

- Drop forged and heat treated, precision cutting edge
- S55C carbon alloy steel,
- 60% force saving, high-lever action design
- Suitable for cutting 60mm² copper stickm 80mm² welding wire (Ø15.5mm)



Order Code	Total length
F-80CS	10" / 255mm

Curve Jaw Locking Pliers

- Cr-V/Cr-Mo alloy steel
- Constructed of high-grade heat-treated alloy steel for maximum toughness and durability
- Nickel-plated finish
- Suitable for tightening, clamping, twisting and turning



Order Code	Total Length
F-5WR	5-1/2" / 140mm

Multi-Purpose Pliers

- Cr-V/Cr-Mo alloy steel
- Constructed of high-grade heat-treated alloy steel for maximum toughness and durability
- Nickel-plated finish
- Suitable for tightening, clamping, twisting and turning



Order Code	Total Length
F-7WR	7-1/2" / 190mm
F-10WR	9-1/2" / 240mm

Multi-Purpose Long Nose Pliers

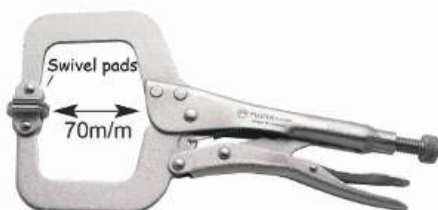
- Cr-V/Cr-Mo alloy steel
- Heat-treated jaws and body
- Drop forged steel jaws
- Nickel-plated finish
- Extends deep into a narrow screw hole
- Suitable for tightening, clamping, twisting and turning



Order Code	Total Length
F-6LN	6-1/2" / 165mm

Locking C-Clamp with Pad

- Cr-Mo/Cr-V alloy steel
- Constructed of high-grade heat-treated alloy steel for maximum toughness and durability
- Nickel-plated finish / Smooth Pressure Jaw Adjustment
- Wide-opening jaws provide greater versatility in clamping a variety of shapes
- Suitable for clamping and securing components in inaccessible locations
- Swivel pads hold tapered work, awkward fabricating jobs and delicate projects without damaging the work surface
- Max Depth: 70mm ; Max mouth opening : 80mm



Order Code	Total Length
F-11SP	11" / 275mm

Mini Locking C-Clamp

- Cr-Mo alloy steel
- Constructed of high-grade heat-treated alloy steel for maximum toughness and durability
- Nickel-plated finish / Smooth Pressure Jaw Adjustment
- Suitable for clamping and securing components in inaccessible locations
- Swivel pads hold tapered work, awkward fabricating jobs, and delicate projects without damaging the work surface
- Max Depth: 45mm; Max mouth opening: 27mm



Order Code	Total Length
F-6SP	6-1/2" / 170mm

Multi-Purpose Flat Nose Plocking Pliers

- Suitable for bending, clamping and flanging thin sheet metal work



Order Code	Total Length
F-8R	10" / 250mm

Multi-Purpose Curved jaw Locking Plier

- Cramp ring screw
- Suitable for tightening, clamping, twisting and turning.



Order Code	Total Length
F-10WRC	10" / 250mm

Multi-Purpose "C" Round Clamp

- For multi-purpose works, suitable for installing, removing and tightening oil filter



Order Code	Total Length
F-11C	9-1/2" / 240mm

Fujiya Fiber Stripper - American Style

- S55C high carbon alloy steel, black oxide industrial finished
- PVC comfort handle & Spring function
- For wire-strip 0.2~2.6 mm (smallest ~200um)
- Adjustable screw for different size of stripping hole



Order Code	Total length
F-184	6" / 145mm

Fujiya Ratchet Crimping Tool

- Suitable for JIS (m/m) 1.25, 2, 3.5, 5.5



Order Code	Total length
FMH-5.5A	7" / 176mm

Fujiya Ratchet Crimping Tool

- Suitable for JIS (m/m) 8, 14, 22, 38



Order Code	Total length
FMH-38A	14-1/2" / 370mm

Ratchet Crimping Tool

- Suitable for JIS (m/m) 0.3, 0.5, 1.25, 2.0, 3.5, 5.5



Order Code	Total length
FMH-0.3A	6-1/2" / 170mm

Fujiya Crimping Tool

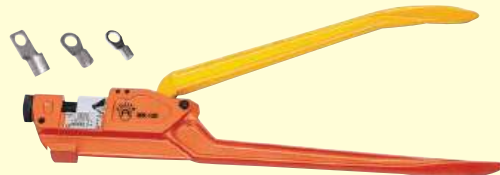
- Suitable for JIS (m/m) 1.25, 2, 3.5, 5.5, 8 m/m (JIS)



Order Code	Total length
FMH-8AA	7-1/2" / 195mm

Bare Terminal Crimping Tool

- Body made of ductile iron, 4030 alloy steel crimping head, drop forged and heat treated
- Interchangeable 240mm PVC replacement handsaw blades
- Pressing style: Point style
- Insulated, Ergonomic design
- Suitable for copper and aluminum
- Crimp specification: 8-14-22-38-60-80-120 JIS [mm]



Order Code	Total length
FMK-120	22" / 570mm

Wire Stripping Pliers

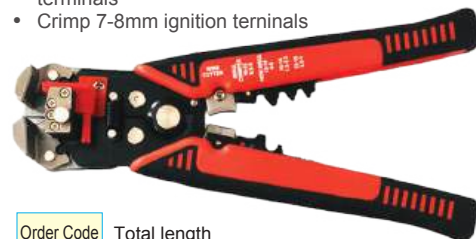
- Drop forged and heat treated, S55C high carbon steel with Cutter
- For wire-strip: 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0, 1.3mm



Order Code	Total length
F-118	6" / 155mm

Automatic Wire Stripper

- Jaw: Powder metallurgy with heat treatment
- Body: SS41 steel with heat treatment 15N & oxide black finishing
- ABS grip; strip and cut cable/wire 26-10 AWG (0.13-6.0mm²)
- Use micro adjustable knob to strip wire smallest to 30 AWG (0.05mm²) or largest to 8 AWG (8.0mm²)
- Cutter replaceable stainless steel blades
- Crimp 22-10 AWG (0.5-6.0mm²) insulated/non-insulated terminals
- Crimp 7-8mm ignition terminals



Order Code	Total length
F-2834A	8" / 205mm

430mm PVC Pipe Cutter

- Aluminium alloy body
- Replaceable S55C high carbon steel blade
- Suitable PVC Cutting Ø65mm; thickness above 3mm



Order Code	Total Length
S-65	17" / 430mm

Gun-Type PVC Pipe Cutter

- Made of aluminum alloy with SK-5 steel replaceable blade
- Blade will automatically return after finishing cutting
- Suitable for cutting PVC pipe diameter from 6-35mm



Order Code	Total Length
FTC-35	7-1/2" / 185mm

Automatic PVC Pipe Cutter

- Made of Aluminum alloy body with anti-slip handle, effort-saving ratcheting design and comes with safety hook to close the product
- SK-5 Japanese alloy steel of V-blade makes cutting more effective
- With auto-retraction blade function, one-handed operation much easier
- V-shaped blade design, with the point-breaking surface, which is better than normal flat cutting edge and effort-saving
- Quick blade change by loosening a screw
- suitable for cutting (thin & thick) PVC tubing Ø below 34mm (1-1/3")



Order Code	Total Length
SV-36	8" / 200mm

190mm PVC Pipe Cutter

- Aluminium alloy body with SK-5 steel replaceable blade
- Suitable PVC Cutting: Ø40mm



Order Code	Total Length
S-42	7-1/2" / 190mm

180mm Tubing Cutter

- Aluminium alloy body with HSS cutter wheel
- 1 Additional replaceable cutter wheel in the back of cutter
- Suitable for cutting plastic, copper, aluminium, iron and stainless steel tubing Ø5-50mm, thickness : 0.8mm



Order Code	Total Length
TC-107	7" / 180mm

135mm Tubing Cutter

- Aluminium alloy body with HSS cutter wheel
- 1 Additional replaceable cutter wheel in the back of cutter
- Suitable for cutting plastic, copper, aluminium, iron and stainless steel tubing Ø3-35mm, thickness : 0.8mm



Order Code	Total Length
TC-105	5" / 135mm

155mm Tubing Cutter

- Aluminium alloy body with HSS cutter wheel
- 1 Additional replaceable cutter wheel in the back of cutter
- Suitable for cutting plastic, copper, aluminium, iron and stainless steel tubing Ø38mm, thickness : 2.5mm
- With additional 2 sets contact roller, more effort-saving and efficient



Order Code	Total Length
TC-105A	6" / 155mm

Tubing Cutter Replacement Blade



Order Code	Compatible model	Cutting Material	Cutting Thickness
TC105A, 107AP	TC-105A	Copper, aluminium iron and stainless steel	0.8mm
TC105,107P	TC-107 TC-105	Copper, aluminium iron and stainless steel	0.8mm

Pruning Shears

- A tool that is used for cutting off the branches of trees, bushes, flowers, and many other items.
- Made of high quality SK-5 Japanese steel
- Sharp and tough
- All Fujiya shears comes with an ergonomic and non-slip design handles

Premium Pruning Shears

- Made of Japanese SK-5 Steel blade & PTFE plated
- Silver color Aluminum body & Red rubber (TPR) non-slip grip ergonomically handle
- Spring function and adjustable one thumb press jumping lock for easy to use
- Non-stick PTFE coating prevents sap stickiness, rust and corrosion
- cutting capacity: Normal tree branch: 15mm, fresh tree branch: 20mm



Order Code	Total length
F-708A	8" / 205mm

Fruit Picking Shears

- Multifunctional scissors for gardening, fruit picking, flowers, etc.
- Using 420J2 Japanese steel, sharp and tough.
- Comes with an opening lock for easy and safe storage.



Order Code	Total length
F-002A	7-1/2" / 185mm

PTFE Multi-function Garden Trimming Shears

- SK-5 Japanese steel blade / PTFE plated / spring function
- PP/TPR ergonomic handle to reduce fatigue working long hours Non-stick PTFE coating prevents sap thickness, rust and corrosion
- Cutting capacity: normal tree branch : Ø7mm, fresh tree branch Ø5mm
- Suitable for garden pruning, office handicraft, leather, and cloth tailor



Order Code	Total length
F-508BT	7-1/2" / 210mm

Miniature Bolt Cutter

- Precision cutting edge with black finished
- Drop forged and heat treated
- Spring function & safety lock device



Order Code	Total length
FGC-200	8" / 210mm

Long Nose Plier

- Drop forged and heat treated, high-grade alloy steel
- Precision machined serrated jaws.
- PVC comfort handle
- Polish surface finished



Order Code	Total length
F-106	6-1/2" / 165mm

Super Needle Nose Plier (Serrated)

- Drop forged and heat treated, high carbon alloy steel
- Precision machined serrated & smooth jaw
- Suitable for use in narrow&depth spaces such as the electronics industry, IC Boards, precision instruments, telecommunications, handicrafts, and jewelry industries.
- Able to hold & curved objects, precise gripping, bending convenient operation
- PVC comfort handle & polished surface



Order Code	Total length
F-106AS	6" / 155mm

Long Nose Plier

- Drop forged and heat treated
 - Precision machined serrated jaws
 - PVC comfort handle
 - Polished surface finished
- Suitable cutting electric wire, copper wire, Stainless wire 0.8mm wire



Order Code	Total length
F-110	8" / 210mm

Fujiya Multi-Function Scissors

- Made of 420 J2 Stainless steel material, fully drop-forged, cutting edge
- Suitable for box opener, wire nettings, tin sheets, carpet, cartons, aluminum/copper wires, leathers and etc.
- Serrated and curved-blade design
- The knife of back blade can be used for cutting cartons
- PP + TPR comfort handle

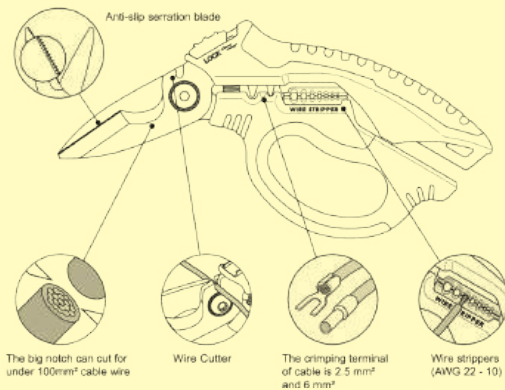


Order Code	Total length
F-703	8" / 205mm

Multi-function Heavy Duty Professional Electrician Scissors

- Made of 420J2 Stainless Steel material / heat treatment blade.
- Embedded anti-slip ridges TPR on comfort Ergonomically handles
- With a special whole steel frame for high resistance and durable life.
- High hardness blades and anti-slip serrated edge for cutting more strength
- Nylon-made Sheath can be molded with the customer's logo if necessary
- The function of the wire stripper between handles is 0.3mm² / 0.5mm² / 1.0mm² / 1.5mm² / 2.5mm² / 4.0mm² / 6.0mm²
- With the function of crimping the terminal of the cable
- The concave hole on the side of the blade can be used to cut iron wire, copper wire
- Suitable for cutting welding cable up to 100mm², electric wire, wire netting, power cords, aluminum/copper wares, rope, etc.

Multi-function Heavy Duty Electrician Scissors



Order Code	Total Length
F-518S	8" / 204mm

Multi-function Electrician Scissors

- Made of 420J2 Stainless Steel/heat treatment blade.
- Embedded anti-slip ridges TPR on comfort Ergonomically handles
- Serrated cutting-edge make the cutting more strength
- Blades come with 6mm notch for cable stripping
- Suitable for cutting power cable Ø 2.0mm*3C, electric wire, wire nettings, power cords, aluminum wire Ø3.0mm / copper sheet 0.5mm, and ect.



Order Code	Total length
F-510	6" / 150mm

150mm Insulation Knife

- Made of Cr-V high carbon steel blade
- ABS plastic handle
- Ideal for machinery , office stationery, cable peeling.



Order Code	Total length
F-007	6" / 150mm

7-1/2"/190mm Cable Stripping Knife

- Stainless Steel blade with secure cover
- The V-shaped groove of protection set can be used to position wire and prevent sliding
- Ergonomically-designed handles suitable for comfort and durable using
- Suitable for stripping cable dia. between 3~30mm



Order Code	Total length
F-1702	7-1/2"/190mm

165mm Cable Cutter

- S55C alloy steel with bilateral cutting edge
- Drop forged and heat treated
- Precision cutting edge
- PVC coating handle & polished surface
- Suitable for cutting 22mm² cable(Ø 9.2mm)



Order Code	Total length
F-22	6-1/2" / 165mm

210mm Cable Cutter

- For wires, cables less than 38 m²(Ø 11.5mm), and special scissors for soft plastics.
- This is a single-hole cutting edge, the cutting edge can be cut if it can be inserted.



Order Code	Total length
F-38	8" / 210mm

240mm Cable Cutter

- For wires, cables less than 80 m²(Ø 15.5mm), and special scissors for soft plastics.
- This is a single-hole cutting edge, the cutting edge can be cut if it can be inserted.



Order Code	Total length
F-80C	9-1/2" / 240mm

Fujiya Stainless Steel Cable Cutter

- Made of grade 420- J2 Stainless Steel material, Full drop-forged, precision cutting edge.
- PP+TPR comfort handle and spring function
- Suitable cutting 60mm² welding wire, Ø 14mm cable wire/plastic
- Suitable stripping: Ø 15mm cable wire
- **Do not cut steel material**



Order Code	Total length
F-50S	7" / 205mm

595mm Cable Cutter

- It is a special scissors for 400 square cable wire, electric welding wire and soft plastic
- Chromium-molybdenum alloy steel blade, ultra-thin blade, saving effort, fast cutting, strong and durable



Order Code	Total length
FH-400	23" / 595mm

600mm Cable Cutter

- 250 square cable professional cable cutter
- Chromium-molybdenum alloy steel blade is labor saving, durable and tough



Order Code	Total length
FME-250	23-1/2" / 600mm

800mm Cable Cutter

- 500 square cable professional powerful cable cutter
- Chromium-molybdenum alloy steel blade is labor saving, durable and tough



Order Code	Total length
FME-500	31" / 800mm

410mm Steel Rope Cutter

- All kinds of cables, steel cables, iron bars and stainless steel special steel cable cutters
- The blade SCM440 Cr-Mo alloy steel is forged and heat treated, which is labor-saving and durable
- Cuttable steel cable: Ø 10.0mm cable : 80mm²



Order Code	Total length
F-1000	16" / 410mm

Fujiya Cable cutter

- Fujiya cable cutter are made of Cr-V & S55C alloy steel with singular or bilateral cutting edge
- Drop forged and heat treated, PVC coating & polished surface
- One-hand shearing action, perfect for working in confined space

255mm Heavy-Duty Ratcheting Cable Cutters

- Heavy-duty ratcheting cable cutter for cables below 325m² (Ø 32mm) electric welding wires
- Ratcheting mechanism, labor-saving and efficient to use and reduces fatigue



Order Code	Total Length
CS-325	10" / 255mm

410mm Heavy-Duty Ratcheting Cable Cutters

- Heavy-duty ratcheting cable cutter for cables below 500m² (Ø 36.5mm) electric welding wires
- Ratcheting mechanism, labor-saving and efficient to use and reduces fatigue



Order Code	Total Length
CS-520	16" / 410mm

Steel Strap Cutters

- Iron strapping, professional iron shears (strong type).
- Made of Cr-V alloy steel with black oxide industrial finish
- Drop forged and heat treated, high carbon alloy steel handle
- PVC sleeves comfort handle
- Suitable for heavy-duty steel or polyester (PET) banding up to 50mm width and 1.2mm thickness.
- The two-handed operation allows cutting steel strapping with minimal effort. Cr-V alloy steel for better performance and durability
- the ergonomic and easier-to-use cutter strapping easy and faster when it comes to getting rid of the pallet strapping while unpacking



450mm Steel Strap Cutter

- Irons trapping, professional iron nshears (strong type).
- Cutable width: 32mm or less
- Cutable thickness: 1.2mm or less



Order Code	Total Length
FSC-18	18" / 450mm

300mm Steel Strap Cutter

- Irons trapping, professional iron nshears (strong type).
- Cutable width: 20mm or less
- Cutable thickness: 1.2mm or less



Order Code	Total Length
FSC-12	12" / 300mm

610mm Steel Strap Cutter

- Irons trapping, professional iron nshears (strong type).
- Cutable width: 50mm or less
- Cutable thickness: 1.2mm or less



Order Code	Total Length
FSC-24	24" / 610mm

Fujiya Superior Quality Bolt Cutter

(Replacement blade set can be purchased separately)

- Made of Cr-V alloy steel blade with black oxide industrial finish
- Drop forged and heat treated
- S50C carbon steel and iron pipe body
- Suitable for cutting steel bar, bolts, chains, padlocks, threaded rods, wires and other metals.
- Superior quality with an adjustable nut and adjustable opening size



ADJUSTMENT OF CUTTING EDGES

- 1 Loosen nuts on cam bolts about one round (360°)
- 2 Align cutter jaws by rotating the cam bolts; move arrows on cam bolt inward to close jaw.
- 3 Tighten nuts.

Fujiya Superior Quality Bolt Cutter



Order Code	Total Length	Cutting Capacity	Cutting Material
FBC-12	12" / 300mm	5mm	Iron bar
FBC-14	14" / 350mm	7mm	Iron bar
FBC-18	18" / 450mm	8mm	Iron bar
FBC-24	24" / 600mm	10mm	Iron bar
FBC-30	30" / 750mm	13mm	Iron bar
FBC-36	36" / 900mm	16mm	Iron bar
FBC-42	42" / 1050mm	18mm	Iron bar

Replacement Blade Superior Quality Bolt Cutter



Order Code	Total Length	Cutting Capacity	Cutting Material
FBC-12	12" / 300mm	5mm	Iron bar
FBC-14	14" / 350mm	7mm	Iron bar
FBC-18	18" / 450mm	8mm	Iron bar
FBC-24	24" / 600mm	10mm	Iron bar
FBC-30	30" / 750mm	13mm	Iron bar
FBC-36	36" / 900mm	16mm	Iron bar
FBC-42	42" / 1050mm	18mm	Iron bar

Super Heavy-Duty Fujiya Strong Pipe Wrench

- Made of Cr-MO, guaranteed heavy duty strength with drop forged steel handle, sturdiness and durability. The upper and lower jaws are precisely milled to provide large torque. Solid construction ensure along service life.
- The overall forged alloy steel material, the handle sleeve iron tube will not bend when used,.
- After research and developmetnests, it is twice as durable as the Japanese brand (it is a strong type), and the screw structure is stronger than that of the Japanese brand
- High quality as Japanese MCC pipe wrench
- Full floating hook jaw with spring suspension for easy grip and release.
- This pipe wrench have exceptional strength but is versatile enough for professiona plumbers, and suitable for various industries, tightening crews, faucets and rotating round pipes.



300mm Super Heavy-Duty Fujiya Strong Pipe Wrench



Order Code	Total Length	Jaw Opening Capacity
FCC-12	12" / 300mm	45mm

350mm Super Heavy-Duty Fujiya Strong Pipe Wrench



Order Code	Total Length	Jaw Opening Capacity
FCC-14	14" / 350mm	50mm

450mm Super Heavy-Duty Fujiya Strong Pipe Wrench



Order Code	Total Length	Jaw Opening Capacity
FCC-18	18" / 450mm	60mm

600mm Super Heavy-Duty Fujiya Strong Pipe Wrench



Order Code	Total Length	Jaw Opening Capacity
FCC-24	24" / 600mm	73mm

130mm Stainless Steel Long Nose Pliers

- Fully Stainless steel material
- Suitable for where corrosion is not desirable
- PVC Comfort and spring function
- 5" nose plier serrated jaws to hold material easily with small design
- Stronger and durable
- **Do not use to cut steel material**



Order Code	Total Length
F-117	5" / 130mm

155mm Stainless Steel Long Nose Pliers

- Fully Stainless steel material
- Suitable for where corrosion is not desirable
- PVC Comfort and spring function
- 6" nose plier serrated jaws to hold material easily with small design
- Stronger and durable
- **Do not use to cut steel material**



Order Code	Total Length
F-121	6" / 155mm

205mm Stainless Steel Long Nose Pliers

- Fully Stainless steel material
- Suitable for where corrosion is not desirable
- PVC Comfort and spring function
- 8" nose plier serrated jaws to hold material easily with small design
- Stronger and durable
- **Do not use to cut steel material**



Order Code	Total Length
F-121A	8" / 205mm

155mm Stainless Steel 25° Long Nose Pliers

- Fully Stainless steel material
- Suitable for where corrosion is not desirable
- PVC Comfort and spring function
- Professional 25° curved serrated jaws to hold material easily with small design
- Stronger and durable
- **Do not use to cut steel material**



Order Code	Total Length
F-122	6" / 155mm

200mm Stainless Steel 25° Long Nose Pliers

- Fully Stainless steel material
- Suitable for where corrosion is not desirable
- PVC Comfort and spring function
- Professional 25° curved serrated jaws to hold material easily with small design
- Stronger and durable
- **Do not use to cut steel material**



Order Code	Total Length
F-122A	8" / 200mm

160mm Stainless Steel 45° Bent Nose Slim Pliers

- Fully Stainless steel material
- Suitable for where corrosion is not desirable
- PVC Comfort and spring function
- Professional 25° curved serrated jaws to hold material easily with small design
- Stronger and durable
- **Do not use to cut steel material**



Order Code	Total Length
F-106DD	6" / 160mm

215mm Multi-Angle Cutter Set 5 In 1

- Steel body + mirror polished
- PVC coating handle & spring function
- Replaceable SK-5 blade
- Aluminium anvil + sanding surface



Order Code	Total Length
FS-351	8-1/2" / 215mm



Sk-5 Replacement Blade

Replacement blade	Pack Quantity
Order Code	
FS-311AP	1



240mm Fujiya Multi-Angle Cutter

- Body made of carbon steel with Nylon + fiber glass and Sk-2 blade
- ABS Plastic comfort handle & spring action
- 2 Additional blades inside the handle
- Suitable for cutting flexible PVC pipe, thin branch and PU stick



Order Code	Total Length
FS-318	9-1/2" / 240mm

Sk-2 Replacement Blade

Sk-2 Blade	Pack Quantity	Total Length
Order Code		
FS-318P	10	9-1/2" / 240mm



9" / 230mm Multi-Angle Cutters

- This model of products, specially cut wooden strips, plastic pressing lines, Youli rubber strips and cables below 60 square meters,
- knife edge super sharp and quick replacement, also known as (wiring slot scissors, decoration scissors)
- Ergonomically-designed handles suitable for comfort and durable using
- Steel body and mirror polished
- PVC coating handle & spring function
- Professional SK-5 blade
- Aluminium anvil + sanding surface



Order Code	Total Length
FS-311A	9" / 230mm

Fujiya Heavy-Duty Pneumatic Cutter

(Pneumatic Cutter Body Only)

- This pneumatic cutter has small volume, light weight, convenient operation, reliable performance, it's abrasive resistance and durability
- Portable and compact structure and ergonomic handle design to reduce fatigue during your manipulations.
- Widely used in electronics, instruments, meters and other industries on the assembly line, which can significantly increase productivity.
- S5 blades cutters work extremely well and fast. you can use them to cut many materials in short time.
- Power pressure: 5 - 6Kg • Diameter: 45 mm
- Weight: 378g
- Overall length: 155mm



Order Code	Total Length	Powerpre	Diameter	Weight
FMR-20	155mm	5 - 6Kg	45mm	378g

S5 Pneumatic Scissor Blade - Round Surface

- S5 blade, powerful, handheld pneumatic metal cutting shear cuts through 2.6mm copper wire, 2.0mm wire
- Blade material made of high toughness alloy structural steel SCM440 alloy steel
- It is applied to cutting the plastic, iron, copper, stainless steel, and other wires
- Applicable body:FJPC10-00155M



Cutable Material	Copper Wire	Iron Wire	White Iron Wire
Cutting Ability	94mm	20mm	12mm

Order Code	Total Length	Blade length	Thlckn
S5	94mm	20mm	12mm

S5S Pneumatic Scissor Blade - Flat Surface

- S5S blade, powerful, handheld pneumatic metal cutting shear cuts through 2.6mm copper wire, 2.0mm wire
- Blade material made of high toughness alloy structural steel SCM440 alloy steel
- It is applied to cutting the plastic, iron, copper, stainless steel, and other wires
- Applicable body:FJPC10-00155M



Cutable Material	Copper Wire	Iron Wire	White Iron Wire
Cutting Ability	94mm	20mm	12mm

Order Code	Total Length	Blade length	Thlckn
S5S	94mm	20mm	12mm

F5 Pneumatic Scissor Blade - Round Surface

- F5 blade, powerful, handheld pneumatic metal cutting shear cuts through 7.0mm soft plastic, 5.0mm hard plastic
- Blade material made of high toughness alloy structural steel SCM440 alloy steel
- It is applied to cutting the plastic
- Applicable body:FJPC10-00155M



Cutable Material	Soft Plastic	Hard Plastic
Cutting Ability	7.0mm	5.0mm

Order Code	Total Length	Blade length	Thlckn
F5	94mm	20mm	12mm

F5S Pneumatic Scissor Blade - Flat Surface

- F5S blade, powerful, handheld pneumatic metal cutting shear cuts through 7.0mm soft plastic, 5.0mm hard plastic
- Blade material made of high toughness alloy structural steel SCM440 alloy steel
- It is applied to cutting the plastic
- Applicable body:FJPC10-00155M



Cutable Material	Soft Plastic	Hard Plastic
Cutting Ability	7.0mm	5.0mm

Order Code	Total Length	Blade length	Thlckn
F5S	94mm	20mm	12mm

FD5 Pneumatic Scissor Blade - Round Surface 40 Degree

- FD5 blade, powerful, handheld pneumatic metal cutting shear cuts through 7.0mm soft plastic, 5.0mm hard plastic
- Blade material made of high toughness alloy structural steel SCM440 alloy steel
- It is applied to cutting the plastic
- Applicable body:FJPC10-00155M



Cutable Material	Soft Plastic	Hard Plastic
Cutting Ability	7.0mm	5.0mm

Order Code	Total Length	Blade length	Thlckn
FD5	94mm	20mm	12mm

F5CT Pneumatic Scissor Blade - End Cutting

- F5CT blade, powerful, handheld pneumatic metal cutting shear cuts through 7.0mm soft plastic, 5.0mm hard plastic
- Blade material made of high toughness alloy structural steel SCM440 alloy steel
- It is applied to cutting the plastic
- Applicable body:FJPC10-00155M



Cutable Material	Soft Plastic	Hard Plastic
Cutting Ability	7.0mm	5.0mm

Order Code	Total Length	Blade length	Thlckn
F5CT	94mm	20mm	12mm

190mm VDE Combination Pliers

- Drop forged & heat treated, Cr-V alloy steel
- Induction hardened cutting edges
- serrated gripping surfaces
- IEC 60900 VDE/DIN safety pliers
- Suitable cutting Ø 3.0mm wire, Ø 4.0mm copper wire, Ø 5.5mm electric wire



Order Code	Total Length
F716V	7-1/2" / 190mm

210mm VDE Combination Pliers

- Drop forged & heat treated, Cr-V alloy steel
- Induction hardened cutting edges
- serrated gripping surfaces
- IEC 60900 VDE/DIN safety pliers
- Suitable cutting Ø 3.5mm wire, Ø 4.5mm copper wire, Ø 6.0mm electric wire



Order Code	Total Length
F816V	8" / 210mm

160mm VDE Long Nose Pliers

- Drop forged & heat treated, Cr-V alloy steel
- Long-straight, half round jaws
- VDE-tested to IEC 60900 1000V
- Safety ergonomic soft handle
- Suitable cutting Ø 2.0mm wire, Ø 3.0mm copper wire, Ø 2.5mm electric wire



Order Code	Total length
F601V	6" / 160mm

215mm VDE Long Nose Pliers

- Drop forged & heat treated, Cr-V alloy steel
- Long-straight, half round jaws
- VDE-tested to IEC 60900 1000V
- Safety ergonomic soft handle
- Suitable cutting Ø 2.5mm wire, Ø 3.5mm copper wire, Ø 3.0mm electric wire



Order Code	Total length
F801V	8-1/2" / 215mm

160mm VDE Diagonal Cutting Pliers

- Drop forged & heat treated, Cr-V alloy steel
- Precision cutting edge
- For hard piano wires
- VDE-tested to IEC 60900 1000V
- Suitable cutting Ø 1.0mm steel bar, Ø 2.5mm iron wire



Order Code	Total length
F602V	6" / 160mm



This Product has met international strict testing and has obtained certificates



Multifunction Slanting Pipe Wrench

- 135° degree between fixed jaw handle made of ductile casting iron
- Unique design and mobile hook jaw made of drop-forged Cr-V steel material
- Widely used for parallel pipes near corner or closely lined
- Suitable for industrial engineering, oil and gas industries, heavy machinery maintenance and assembly application
- Slanting jaw makes it easier to use within tight areas



Order Code	Size (in / mm)	Maximum Jaw Opening (in / mm)	Weight (kg)
EXM110			
-50210M	10"/250mm	1-1/2"/48mm	3.6
-50214M	14"/350mm	2"/60mm	3.8
-50218M	18"/450mm	2-1/2"/76mm	5.0

Multifunction Aluminium Handle Slanting Pipe Wrench

- Aluminium handle made the wrench 20% lighter than normal and conventional type



Order Code	Size (in / mm)	Maximum Jaw Opening (in / mm)	Weight (kg)
EXM110			
-50310M	10"/250mm	1-1/2"/48mm	0.75
-50314M	14"/350mm	2"/60mm	1.40
-50318M	18"/450mm	2-1/2"/76mm	1.80

Heavy-Duty Offset Pipe Wrench

- Exceed federal specification No. GGG-651, Type 2 Class A
- The clamps are parallel to the handle, and the jaws are narrower, makes it easier to use within tight areas.
- Suitable for industrial engineering, oil and gas industries, heavy machinery maintenance and assembly applications



Order Code	Size (in / mm)	Maximum Capacity (mm)	Weight (kg)
EXM110			
-50414M	14"/360mm	48	3.5
-50418M	18"/460mm	60	6.0

Aluminium Handle Offset Pipe Wrench

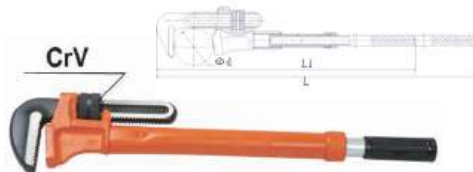
- Exceed federal specification No. GGG-651, Type 1 Class B
- Suitable for industrial engineering, oil and gas industries, heavy machinery maintenance and assembly application



Order Code	Size	Maximum Capacity (mm)	Weight (Kg)
EXM110			
-50510M	10"/250mm	60	1.0
-50514M	14"/350mm	76	1.7
-50518M	18"/450mm	89	2.6

Telescopic Pipe Wrench

- Material: Cr-V drop-forged, body heat treatment 40-49HRC
- Suitable for assembly and disassembly of various screw thread pipes
- Compact and light. It adopts telescopic extension bar, which reduce much more labor intensity.
- Large torque and high strength torque is higher, which reduce much more labor intensity
- Suitable for using in mining, shipbuilding, metallurgy, maintenance & inspection works, oil and gas industries



Order Code	Size (d)	Overall Length (mm)	L1 (mm)	Weight (kg)
EXM110				
-50018M	80	680	490	3.25
-50024M	95	780	570	4.50
-50036M	108	950	720	7.60
-50048M	152	1280	900	10.5

Spud Wrench

- 12" Spud wrench features narrow jaws to fit into tight space
- Smooth, toothless jaws ideal for square or rectangular stock
- Mobile jaws drop-forged with CrV steel graphite cast iron handle



Order Code	Size	Capacity	Weight (kg)
EXM110			
-50112M	12"/300mm	2-5/8" / 67mm	1.2

Extra Heavy-Duty Straight Pipe Wrench

- Handle made of heavy duty carbon steel with Cr-V jaw
- The sturdy and ergonomic designed non-slip handle is easy to hold and has a comfortable feel
- Exceed the standard GGG-651 type Class A
- Adjustable straight pipe wrench ideal for maintenance, plumbing and other mechanical work



Order Code	Size (in / mm)	Capacity (inch)	Weight (kg)
EXM110			
-50906M	6"/150mm	1/2"	0.2
-50908M	8"/200mm	3/4"	0.4
-50910M	10"/250mm	1"	0.8
-50912M	12"/300mm	1-1/4"	1.2
-50914M	14"/350mm	1-1/2"	1.6
-50918M	18"/450mm	2"	2.6
-50924M	24"/600mm	2-1/2"	4
-50936M	36"/900mm	3-1/2"	9
-50948M	48"/1200mm	5"	15.5
-50960M	60"/1500mm	8"	20

Aluminium Handle Straight Pipe Wrench

- Nearly 40% lighter than comparable cast-iron models of the same size
- The sturdy and ergonomic designed non-slip handle is easy to hold and has a comfortable feel
- Exceed the standard GGG-651 type 2 Class C
- Adjustable straight pipe wrench ideal for maintenance, plumbing and other mechanical work



Order Code	Size (in / mm)	Capacity (inch)	Weight (kg)
EXM110			
-50810M	10"/250mm	1"	0.6
-50812M	12"/300mm	1-1/4"	0.9
-50814M	14"/350mm	1-1/2"	1.1
-50818M	18"/450mm	2"	1.65
-50824M	24"/600mm	2-1/2"	2.75
-50836M	36"/900mm	3-1/2"	5.5
-50848M	48"/1200mm	5"	8.5

Ductile Iron Rapid/ Fast Wrench

- Wrench body made of ductile iron and jaw drop-forged with Cr-V Material
- Rapid Ratcheting system and self-locking, easy to use, suitable for all forms of pipe work and enhance productivity
- Ergonomic handle, easy and quick to operate by one hand that allow to complete jobs more quickly and reliably
- Forged jaw can grab the pipe or nut firmly, PVC coated handle, anti-slip



Order Code	Size (inch)	Clamping Diameter (Inch)	Weight (kg)
EXM130			
-50510M	10"	1/4" - 1-1/4"	2.6
-50514M	14"	3/8" - 1-1/2"	2.8

Hex Wrench

- Hex jaws design gives multi-sides, secure grip on all hex nuts, square nuts, union valves packing nuts. The extra-wide opening offset model is ideal for securing drain



9-1/2"



Order Code	Size	Capacity	Weight (kg)
EXM110			
-50709M	9-1/2" / 240mm	67mm	0.8
-50712M	12-1/2" / 320mm	30mm	2.0

60" Heavy Duty Oil Field Pipe Wrench

- Made of high tensile steel, black finished, overall heat treatment. Jaw hook with Cr-V material
- Capacity up to 100kN



Order Code	Size	Weight (kg)
EXM120		
-00513M	60"/1500mm	24.5

90° Bent Nose Swedish Pipe Wrench

- Swedish pipe wrench 90°, forged carbon steel with powder coated



Order Code	Overall length (mm)	Clamping diameter (mm)	Weight (kg)
EXM120			
-52010M	350	33.5	0.65
-52020M	520	60.0	2.00
-52030M	700	88.5	4.60

Claw Type Valve Wheel Wrench

- Special claw type design valve wheel wrenches is used to provide a strong gripping force.
- Leverage on hand operated valve wheels.
- The overall heat treatment ensures durability, while the induction hardening of the forged alloy steel jaws provides long-lasting performance.
- It is the preferred tool for oilfield work and heavy-duty valve wheels opening tools.
- Drop-forged alloy steel handle , high hardness, and resistance to deformation,ensuring durability.
- Ideal for use in confined spaces or working on overhead hand-wheels.
- Suitable for 6" to 18" Valve



Order Code	Overall Length	Head Size	Weight
EXM212			
-01233M	21-3/8"	1-3/8" - 1-1/2"	1.5kg

Double-Open Valve Wheel Wrench - C Type

- Made of high quality alloy steel
- Double-end valve wheel wrenches grip the valve hand wheel for secure leverage to open and close the valve, labour saving



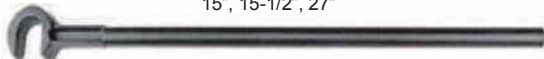
Order Code	Size	Wrench Open (Inch)	Net Weight (kg)
EXM210			
-56008M	8"/200mm	1/2 - 21/32	0.5
-56010M	10"/250mm	11/16 - 1	0.8
-56175M	17-1/2"/445mm	1 - 1-5/16	2.1

Single-end Valve Wheel Wrench

- Single-end valve wheel wrench has a special shaped opening which reduces the chance of slipping when working in overhead or crowded position
- Made of high-quality drop forged alloy steel, designed for multiple uses in the refinery, petrochemical, oil and gas industries
- 48" long handle are made of high carbon steel tube for more leverage, make the wrench easy to work



15", 15-1/2", 27"



48"

Order Code	Head Size	Overall length (inch)	Net Weight (kg)
EXM210			
-51150M	1"/25mm	15"	1.05
-51155M	1-3/8"/35mm	15-1/2"	1.25
-51270M	2"/50mm	27"	4.75
-51480M	2-1/4"/57mmV	48"	7.00

Refinery Pipe and Valve Wrenches

- Its unique design allows valve to be opened easily. Graduation on hook jaw show approximate size of opening for different pipe sizes
- Forged movable jaw for quick operation with integrate ratchet functions such as water pipe, clamp valve clamp and hammer.
- High resistance and tolerance and comprises a flat hitting area making it possible to be used as a hammer
- The tail is designed for valve jaws and can move most common valves .



Order Code	Size	Capacity	Jaw Opening
EXM210			
-52008M	8"/200mm	1/2" - 21/32"	1/2"
-52010M	10"/250mm	1/8-1-1/2"	3/4"

Heavy-Duty Chain Pipe Wrenches

- Made from High Tensile steel, drop-forged, jaw teeth induction quenched for durable using.
- Long handle designed provide extra leverage for tough jobs
- Chain pipe wrench with adjustable chains that tighten around an object to grip it so the object can be turned with labour saving
- Widely used in pipeline construction, oilfield operations and drilling operations
- Exceed the standard GGG-651 type 3 Class A



Order Code	Size (d)	Capacity	Chain length (mm)	Handle length (mm)	Weight (kg)
EXM110					
-50104M	4"/100mm	100mm	747	900	8.5
-50106M	6"/150mm	150mm	897	100	11
-50108M	8"/200mm	200mm	1048	1200	12
-50110M	10"/250mm	250mm	1205	1300	13.5
-50112M	12"/300mm	300mm	1357	1400	15
-50116M	16"/400mm	324mm	1516	1585	20

Aluminium Valve Wheel Wrench

- Made from Aluminium Magnesium to minimise the chance of sparks when opening stubborn valves
- Lightweight and comfortable rounded gripping area of turning the hand wheel for installation or removal of valve



Order Code	Size	Pipe Capacity (In)	Weight (kg)
EXM210			
-53135M	13-5/8"	1-3/8"	1.0
-53175M	17-5/8"	2-3/4"	1.6
-53255M	25-1/2"	2-1/2"	3.5

Roller Head Pipe Stand

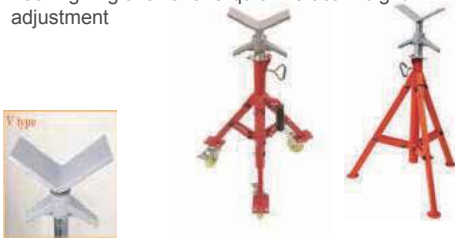
- Support for tough pipe demands
- Angled for a comfortable hand position during transport and height adjustment
- Retains the roller-head to the tube for a quick adjustment
- Ideal for pipes support and tubes in conjunction with a threading machine, rolling machine, pipe cutting machine, etc.
- Locking ring allows for a quick vertical height adjustment



Order Code	Height Adjustment (mm)	Max Pipe Capacity (mm)	Weight (kg)	Load Capacity (kg)
EXM212				
-01108R	810-1420	300	16	454

V-Head Pipe Stand

- Support for tough pipe demands
- Angled for a comfortable hand position during transport and height adjustment
- Retains the roller-head to the tube for a quick adjustments
- Ideal for pipe support and tubes in conjunction with threading machines, rolling machine, pipe cutting machine, etc.
- Locking ring allows for a quick vertical height adjustment



Order Code	Type	Height Adjustment (mm)	Max Pipe Capacity (mm)	Weight (kg)	Load Capacity (kg)
EXM212					
-01108V	Fixed	710-1320	300	11	1134
-01208V	With wheels	710-1320	300	12	1134

Ball Transfer Head Pipe Stand

- Support for tough pipe demands
- Conveyor head allows pipes to move forward and backward easily during transport and height adjustment
- Retains the roller-head to the tube for a quick adjustment
- Ideal for pipes support and tubes in conjunction with a threading machine, rolling machine, pipe cutting machine, etc.
- Locking ring allows for a quick vertical height adjustment



Order Code	Type	Height Adjustment (mm)	Max Pipe Capacity (mm)	Weight (kg)	Load Capacity (kg)
EXM212					
-01108B	2 Balls	510-960	300	11	675
-01208B	4 Balls	510-960	300	12	675

Conveyor Head Pipe Stand

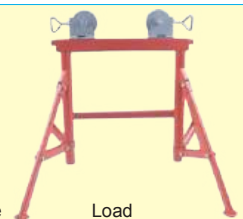
- Support for tough pipe demands
- Conveyor head allows pipes to move forward and backward easily during transport and height adjustment
- Retains the roller-head to the tube for a quick adjustments
- Ideal for pipe support and tubes in conjunction with threading machines, rolling machine, pipe cutting machine, etc.
- Locking ring allows for a quick vertical height adjustment



Order Code	Height Adjustment (mm)	Max Pipe Capacity (mm)	Weight (kg)	Load Capacity (kg)
EXM212				
-01108C	710-1320	300	11	1134

Heavy-Duty Pipe Stand with Adjustable Steel Roller

- Designed for large diameter pipe rotation and feeding
- Equipped with adjustable steel wheel allows quick and accurate fit-up and ease for transport
- Heavy-duty construction with 900kg load capacity
- Lockable steel wheels to hold pipe in position and enhanced stability when you are working
- Made of grade Q325 steel tube material, roller made of #45 carbon steel



Order Code	Height Adjustment (mm)	Max Pipe Capacity (mm)	Weight (kg)	Load Capacity (kg)	Dimension (mm)
EXM212					
-21108B	860	900	24	900	900x360x800

6" Portable Tri-Stand Chain Vise

- Tri-stand Chain Vise includes integral legs and tray fold in for easy carrying and set up
- Large vise base overhands front legs for clear tool swing
- Aluminium alloy, lightweight but strong enough
- Crank handle is anchored to base
- Features a larger work surface



Order Code	Pipe Capacity (mm)	Dimension (mm)	Weight (kg)
EXM213			
-11056T	10-168	640x150 x400	11

2.5" Portable Tri-Stand Yoke Vise

- Tri-stand yoke vise includes integral legs and tray fold in for easy carrying and setup
- Large vise base overhangs front legs for clear tool swing
- Aluminium alloy, lightweight but strong enough
- Crank handle is anchored to base
- Features a larger work surface



Order Code	Pipe Capacity (mm)	Dimension (mm)	Weight (kg)
EXM213			
-11025T	10-76	1090x290 x180	21

Pipe Vise with Tripod Stand

- Used for repetitive tasks on pipework
- The frame of the pipe vise is made from cast iron with jaws made hardened tool grade alloy steel with a corrosion resistant coating
- The tray, wide angled legs give greater provides easy storage and transportation



Order Code	Pipe Capacity Size	Dimension (mm)	Weight (kg)
EXM213			
-11022T	#2 10-90	335x275x275	10
-11023T	#3 10-115	365x295x255	12

Pipe Welding Clamp

- Pipe welding clamps are useful in alighting pipes in the pipe welding process
- Excelmans steel pipe welding clamps are made of forged steel and provide sufficient clamping force to fulfill the requirements of all pipe diameters
- Ideal to use for centering and alignment of steel pipe before pipe welding



Order Code	Size (Inch)	Pipe Capacity (Inch)	Weight (kg)
EXM213			
-10925C	2.5"	1"-2-1/2"	2.5
-11906C	6"	2"-6"	5.0
-11912C	12"	4-1/2"-12"	7.5

Workbench Yoke Pipe Vise

- Clamping capacity: 2" (60mm)
- Quenched teeth with high clamping force
- Integral yoke is easy to fix on the table and easy to carry
- Special for clamping steel tubes small than 60mm



Order Code	Size (Inch)	Pipe Capacity (Inch)	Weight (kg)
EXM213			
-11012B	2"	1/8" - 2"	4.0
-11013B	3"	1/8" - 3"	5.1
-11014B	4"	1/8" - 4"	7.0
-11016B	6"	1/8" - 6"	10.0
-11018B	8"	1/8" - 8"	18.0

Heavy Duty Chain Pipe Vise

- The chain pipe vise can be used for securely clamping pipes of all material types with Ø up to 6"
- V-shaped pipe support with teeth and bridge prevents undesired bending during clamping.
- Solid & Durable Construction: This heavy-duty pipe vise features a rugged cast iron base.



Order Code	Size (Inch)	Measurement (cm)	Weight (kg)
EXM213			
-11056S	6"	35x28x17	10

Ring Slogging Wrench

- Ring slogging wrenches also known as Striking Ring Wrenches are a tool with a block shape on the end of the handle that is struck hammer to provide strong force to loosen or tighten stubborn nuts & bolts
- Made from industrial grade Cr-V Steel, 40Cr, surface hardness 30-36HRC
- DIN 7444 Standard
- Widely used in drilling operation, ship maintenance, oilfield operations and frilling operation
- Special size or up to 200mm can be customized



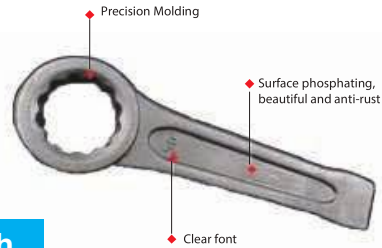
Metric

Order Code	Size (mm)	Length (mm)	Thickness (mm)	Width (mm)	Weight (g)
EXM012					
-12017M	17	147	13	33	136
-12019M	19	147	13	33	130
-12022M	22	156	13	38.5	184
-12024M	24	165	15	43	265
-12026M	26	165	15	43	285
-12027M	27	180	16	46	340
-12028M	28	180	16	46	355
-12029M	29	180	16	46	380
-12030M	30	190	17	52	435
-12031M	31	190	17	52	435
-12032M	32	190	17	52	415
-12033M	33	205	19	58	540
-12034M	34	205	19	58	540
-12035M	35	205	19	58	560
-12036M	36	205	19	58	560
-12037M	37	214	19	63	560
-12038M	38	214	19	63	580
-12039M	39	225	19.5	64	640
-12040M	40	225	19.5	64	640
-12041M	41	230	20	66	680
-12042M	42	230	20	66	670
-12043M	43	230	20	66	680
-12044M	44	230	20	66	680
-12045M	45	230	20	66	680
-12046M	46	240	22	74	865
-12047M	47	255	24	80	1100
-12048M	48	255	24	80	1100
-12049M	49	255	24	80	1125
-12050M	50	365	24.5	82	1200
-12051M	51	365	24.5	84	1180
-12052M	52	365	24.5	84	1180
-12054M	54	365	24.5	84	1240
-12055M	55	270	25	86	1330
-12056M	56	270	25	86	1380
-12057M	57	270	25	86	1380
-12058M	58	270	25	86	1290
-12059M	59	275	25.5	88	1360
-12060M	60	280	26	93	1245
-12061M	61	280	26	96	1250
-12062M	62	280	26	93	1250
-12063M	63	280	26	93	1220
-12064M	64	290	28	98	1750
-12065M	65	290	28	98	1800
-12067M	67	300	30	102	1875
-12070M	70	300	30	102	2000
-12071M	71	330	33	110	2735
-12073M	73	330	33	110	2900
-12074M	74	330	33	110	2980
-12075M	75	330	33	110	2735
-12076M	76	340	34	120	3200
-12077M	77	340	34	120	3250
-12078M	78	350	35	125	3450
-12080M	80	360	36	126	3710
-12085M	85	360	36	126	3740
-12086M	86	360	36	126	3775
-12088M	88	390	40	142	5850
-12090M	90	390	40	142	5350
-12095M	95	400	41	150	5500
-12097M	97	420	45	155	6455

Order Code	Size (mm)	Length (mm)	Thickness (mm)	Width (mm)	Weight (g)
EXM012					
-12100M	100	420	45	155	6500
-12105M	105	450	48	170	8000
-12110M	110	450	48	170	7500
-12115M	115	480	54	182	9000
-12120M	120	480	48	170	8900
-12125M	125	520	58	202	13500
-12130M	130	520	58	202	13200
-12135M	135	520	58	202	13200
-12140M	140	520	58	202	13200
-12145M	145	580	62	228	17760
-12150M	150	580	62	228	17200
-12155M	155	580	62	228	16650
-12160M	160	580	62	228	16050
-12165M	165	630	70	260	23000
-12170M	170	630	70	260	23000
-12175M	175	630	70	260	22500
-12180M	180	630	70	260	22000

Inch

Order Code	Size (mm)	Length (mm)	Thickness (mm)	Width (mm)	Weight (g)
EXM012					
-30010M	3/4"	147	13	330	130
-30020M	7/8"	156	13	38.5	184
-30030M	15/16"	165	15	043	265
-30040M	1"	165	15	043	265
-30050M	1-1/16"	180	16	046	340
-30055M	1-9/16"	180	16	046	340
-30060M	1-1/8"	180	16	046	340
-30070M	1-3/16"	190	17	052	435
-30075M	1-15/16"	205	19	058	560
-30080M	1-1/4"	190	17	052	415
-30090M	1-5/16"	190	17	052	415
-30100M	1-3/8"	205	19	058	560
-30110M	1-7/16"	205	19	058	560
-30120M	1-1/2"	205	19	058	560
-30130M	1-5/8"	230	20	066	680
-30140M	1-11/16"	230	20	066	680
-30150M	1-3/4"	230	20	066	680
-30160M	1-13/16"	240	22	074	895
-30170M	1-7/8"	240	22	074	9895
-30180M	2"	255	24	080	1125
-30190M	2-1/16"	255	24	080	1125
-30200M	2-1/8"	255	24	080	1125
-30210M	2-3/16"	270	25	086	1330
-30220M	2-1/4"	270	25	086	1330
-30230M	2-3/8"	280	26	090	1245
-30240M	2-7/16"	280	26	090	1245
-30250M	2-9/16"	300	30	102	1875
-30255M	2-11/16"	300	30	102	1875
-30260M	2-5/8"	300	30	102	1875
-30265M	2-13/16"	300	30	102	1875
-30270M	2-3/4"	330	33	110	2980
-30275M	2-15/16"	330	33	110	2980
-30280M	3"	330	33	110	2700
-30285M	2-5/16"	330	33	110	2980
-30290M	3-1/8"	360	36	126	3675
-30300M	3-3/8"	360	36	126	3710
-30310M	3-1/2"	390	40	142	5850
-30315M	3-5/8"	390	40	142	5350
-30320M	3-3/4"	390	40	142	5350
-30330M	3-7/8"	390	40	142	5350
-30340M	4"	420	45	155	6450
-30350M	4-1/8"	420	45	155	6450
-30360M	4-1/2"	450	48	170	7500
-30370M	4-5/8"	450	48	170	7500



Open End Slogging Wrench

- Open end slogging wrenches also known as Striking Open end wrenches are a tool with a block shape on the end of the handle that is struck with a hammer to provide strong force to loosen or tighten stubborn nuts & bolts
- Made from industrial grade Cr-V Steel, 40Cr, surface hardness 30-36HRC • DIN 133 Standard
- Widely used in pipeline construction, ship maintenance, oilfield operation and drilling operation
- Special size or up to 200mm can be customized



Metric

Order Code	Size (mm)	Length (mm)	Thickness (mm)	Width (mm)	Weight (g)
EXM012					
-22017M	17	125	12	43.5	130
-22019M	19	125	12	43.5	125
-22022M	22	125	12	43.5	125
-22024M	24	177	15.5	52.4	328
-22027M	27	180	17	56	420
-22030M	30	190	17	62.3	530
-22032M	32	190	17	66.5	550
-22034M	34	190	17	66.5	550
-22035M	35	190	17	66.5	550
-22036M	36	210	18	74.8	674
-22038M	38	210	18	74.8	674
-22041M	41	230	19	85.2	1040
-22042M	42	230	19	85.2	1040
-22046M	46	250	21	95.5	1224
-22050M	50	275	22	104	1790
-22054M	54	302	24	114	2360
-22055M	55	302	24	114	2360
-22058M	58	302	24	114	2360
-22060M	60	315	26	125	2850
-22065M	65	336	28	135	3250
-22067M	67	336	28	135	3250
-22070M	70	367	30	145	4000
-22071M	71	367	30	145	4000
-22075M	75	394	33	156	4780
-22080M	80	408	34	174	5800
-22085M	85	408	34	174	5800
-22090M	90	445	38	194	8100
-22095M	95	445	38	194	7900
-22100M	100	485	44	215.5	10500
-22105M	105	485	44	215.5	10300
-22110M	110	510	48	237	13500
-22115M	115	510	48	237	13500
-22120M	120	530	56	256	19200
-22130M	130	570	56	276	19400

Inch

Order Code	Size (mm)	Length (mm)	Thickness (mm)	Width (mm)	Weight (g)
EXM012					
-40010M	3/4"	125	12	43.5	125
-40030M	15/16"	177	15.5	52.4	328
-40040M	1"	177	15.5	52.4	328
-40050M	1-1/16"	180	17	56	420
-40060M	1-1/8"	180	17	56	420
-40070M	1-3/16"	190	17	62.3	530
-40080M	1-1/4"	190	17	62.3	530
-40090M	1-5/16"	190	17	62.3	530
-40100M	1-3/8"	210	18	74.8	674
-40110M	1-7/16"	210	18	74.8	674
-40120M	1-1/2"	210	18	74.8	674
-40130M	1-5/8"	230	19	85.2	1040
-40135M	1-9/16"	210	18	74.8	674
-40140M	1-11/16"	230	19	85.2	1040
-40150M	1-3/4"	230	19	85.2	1040
-40160M	1-13/16"	250	21	95.5	1224
-40170M	1-7/8"	250	21	95.5	1224
-40175M	1-15/16"	230	21	95.5	1224

Order Code	Size (mm)	Length (mm)	Thickness (mm)	Width (mm)	Weight (g)
EXM012					
-40180M	2"	275	22	104	1790
-40190M	2-1/16"	275	22	104	1790
-40200M	2-1/8"	275	22	104	1790
-40210M	2-3/16"	302	24	114	2360
-40220M	2-1/4"	302	24	114	2360
-40230M	2-3/8"	315	26	125	2850
-40240M	2-7/16"	315	26	125	2850
-40245M	2-1/2"	336	28	135	3500
-40250M	2-9/16"	336	28	135	3250
-40255M	2-11/16"	336	28	135	3250
-40256M	2-5/16"	336	28	135	3250
-40258M	2-13/16"	336	28	135	3250
-40259M	2-15/16"	336	28	135	3250
-40260M	2-5/8"	336	28	135	3250
-40270M	2-3/4"	367	30	145	4000
-40275M	2-7/8"	390	33	156	4500
-40280M	3"	394	33	156	4780
-40290M	3-1/8"	394	33	156	4780
-40300M	3-3/8"	408	34	174	5800
-40310M	3-1/2"	408	34	174	5800
-40320M	3-3/4"	445	38	194	8100
-40330M	3-7/8"	455	38	194	8100
-40340M	4"	485	44	215.5	10500
-40350M	4-1/8"	485	44	215.5	10500
-40360M	4-1/2"	510	48	237	13500
-40370M	4-5/8"	530	56	256	19200

Single Open-Ended Spanners

- Made from industrial grade Cr-V steel
- Surface hardness: 38-45 HRC
- DIN894 Standard
- Hardened, tempered and black phosphate finish
- Suitable for areas where chemicals and chrome plate can give off poisonous fumes



Order Code	Size (mm)	Length (mm)	Weight (g)
EXM206			
-01017S	17	170	90
-01019S	19	170	90
-01021S	21	193	120
-01024S	24	213	150
-01025S	25	213	150
-01027S	27	240	215
-01030S	30	253	310
-01032S	32	277	650
-01034S	34	309	430
-01036S	36	309	500
-01038S	38	309	500
-01041S	41	346	680
-01046S	46	380	1100
-01050S	50	415	1280
-01055S	55	456	1720
-01060S	60	498	2300
-01065S	65	520	3000
-01070S	70	580	3500
-01075S	75	630	3490
-01080S	80	630	3450
-01085S	85	680	4000
-01090S	90	850	6100
-01095S	95	850	6100
-01100S	100	1000	7700
-01105S	105	1000	7700
-01110S	110	1000	9000
-01115S	115	1000	9000
-01120S	120	1000	9050
-01125S	125	1000	9050

Combination Spanners

- Chrome Finish



Order Code	Size (mm)	Length (mm)	Weight (g)
EXM211			
-10006C	6	110	18
-10007C	7	120	22
-10008C	8	130	27
-10009C	9	140	34
-10010C	10	150	42
-10011C	11	160	52
-10012C	12	170	63
-10013C	13	180	80
-10014C	14	190	88
-10015C	15	200	103
-10016C	16	210	119
-10017C	17	220	137
-10018C	18	230	158
-10019C	19	240	179
-10020C	20	250	201
-10021C	21	260	225
-10022C	22	270	251
-10025C	25	300	323
-10027C	27	320	418
-10028C	28	330	459
-10029C	29	340	507
-10030C	30	350	553
-10032C	32	350	650

Combination Spanners

- Manufactured to German DIN 3133



Order Code	Size (mm)	Length (mm)	Weight (g)
EXM022			
-10032C	36	360	1231
-10036C	38	360	1231
-10041C	41	430	1360
-10046C	46	480	1810
-10050C	50	520	2020
-10055C	55	460	2580
-10060C	60	595	3100
-10065C	65	595	3400
-10070C	70	630	4200
-10075C	75	630	4000
-10080C	80	660	5400
-10085C	85	660	5200
-10090C	90	720	7100
-10095C	95	720	6800
-10100C	100	780	8400
-10105C	105	780	8100
-10110C	110	840	9800
-10115C	115	840	9500
-10120C	120	900	12100
-10125C	125	900	11800

Pin Type Adjustable Crescent Hook Spanner

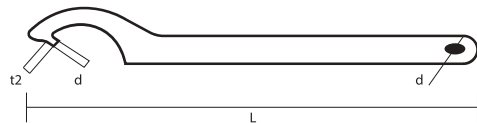
- Adjustable pin spanners are made by forged 50Cr-V, which are used to fasten or disassemble round and square screw nuts on machine, vehicles etc.



Order Code	Size (mm)	Length (mm)	Weight (g)
EXM205			
-00035P	15-35	168	800
-00050P	35-50	202	800
-00080P	50-80	280	1400
-00120P	80-120	345	1200
-00180P	120-180	492	1400

Fixed C-Hook Spanners Crescent Wrenches

- The surfaces are electroplating or blackening with long life and anti-rust
- Made of drop forged Cr-V steel with overall quenching
- These Wrenches are made in accordance to DIN1810 and hot sealed
- Ideal to tighten or loosen drive spanner head screws, threaded collars, retainer rings and shafts
- Designed to access hard-to-reach areas that are not accessible with common wrench and are suitable for use in loosening stubborn nuts



Order Code	Size (mm)	L (mm)	d (mm)	T2 (mm)	Weight (g)
EXM212					
-10020C	16-20	110	2	1.5	30
-10028C	25-28	135	2.5	2	30
-10032C	30-32	135	2.5	2	60
-10036C	34-36	170	3	2.5	60
-10042C	40-42	170	3	2.5	90
-10050C	45-50	205	3.5	3	190
-10055C	52-62	240	4	3.5	300
-10062C	58-62	240	4	3.5	300
-10075C	68-75	240	4	3.5	300
-10090C	80-90	280	5	4	466
-10100C	95-100	280	5	4	700
-10115C	110-115	335	5	4	850
-10130C	120-130	385	5	4	850
-10145C	135-145	385	6	5	1300
-10165C	155-165	385	6	5	1300
-10195C	180-195	465	6	5	2250
-10220C	205-220	465	6	5	2250

Multi-functional Adjustable Wrench Tool

- This multi-functional pocket size camping tool is portable, easy to carry around and with good practical use
- Perfect for camping, fishing, hiking, cooking, hunting, picnics, family, road trips, DIY, any outdoor activities
- Constructed with stainless steel body with black aluminum alloy handle
- Fine surface treatment for rust and corrosion resistance
- Functions/tools included:
Adjustable wrench (1)
Taper nose pliers (1)
Straight blade (1)
Can opener (1)
Bottle opener (1)
Slotted screwdriver bit (1)
Phillips screwdriver bits (2)
- Packed in an oxford cloth pouch



Order Code	Functions	Closed Size L x W x T (mm)	Weight (g)
TFPL30			
-00108A	8	165 x 39 x 26	372

Multi-functional Hammer Tool

- This multi-functional pocket size camping tool is portable, easy to carry around and with good practical use
- Perfect for camping, fishing, hiking, cooking, hunting, picnics, family, road trips, DIY, any outdoor activities
- Constructed with stainless steel body with black aluminum alloy handle
- Fine surface treatment for rust and corrosion resistance
- Featured with dual safety lock mechanism
- Functions/tools included:
Hammer head (1)
Nail claw (1)
Pipe grip pliers (1)
Flat grip pliers (1)
Wire cutter (1)
Straight knife (1)
Serrated blade (1)
Saw blade (1)
Nail file (1)
Slotted screwdriver (1)
Phillips screwdriver (1)
Bottle opener (1)
- Packed in an oxford cloth pouch



Order Code	Functions	Closed Size L x W x T (mm)	Weight (g)
TFPL30			
-00411A	12	140 x 70 x 21	240

Multi-functional Knife Tool

- This multi-functional pocket size camping tool is portable, easy to carry around and with good practical use
- Perfect for exploring, hiking, fishing, camping, or backpacking
- Main blade is made of 3Cr13MoV steel for high hardness and durability
- Constructed with stainless steel body with black aluminum alloy handle
- Functions/tools included:
Serrated knife (1)
Taper nose pliers (1)
Pliers handle (1)
Can opener (1)
Bottle opener (1)
Slotted screwdriver (1)
Bit holder (1)
Screwdriver bits (9)



Order Code	Functions	Closed Size L x W x T (mm)	Weight (g)
TFPL30			
-00615A	16	112 x 32 x 25	220

Multi-functional Pliers Tool

- This multi-functional pocket size camping tool is portable, easy to carry around and with good practical use
- Perfect for camping, fishing, hiking, cooking, hunting, picnics, family, road trips, DIY, any outdoor activities
- Constructed with stainless steel body with red aluminum alloy handle
- Functions/tools included:
Taper nose pliers (1)
Straight blade (1)
Serrated blade (1)
Wire cutter (1)
Bottle opener (1)
File (1)
Slotted screwdriver (1)
Phillips screwdrivers (2)
- Packed in an oxford cloth pouch



Order Code	Functions	Closed Size L x W x T (mm)	Weight (g)
TFPL30			
-00609A	9	108 x 38 x 23	232

Multi-functional Pliers & Carabiner Tool

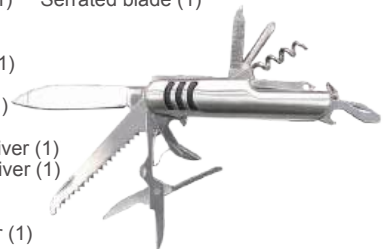
- This multi-functional pocket size camping tool is portable, easy to carry around and with good practical use
- Perfect for camping, fishing, hiking, cooking, hunting, picnics, family, road trips, DIY, any outdoor activities
- Constructed with stainless steel body with red aluminum alloy handle
- Functions/tools included:
Taper nose pliers (1)
Straight blade (1)
Serrated blade (1)
Can opener (1)
Bottle opener (1)
Slotted screwdriver (1)
Phillips screwdriver (1)
Carabiner (1)
- Packed in an oxford cloth pouch



Order Code	Functions	Closed Size L x W x T (mm)	Weight (g)
TFPL30			
-00408A	8	108 x 37 x 22	226

Small Multi-functional Kinfe Tool

- This multi-functional pocket size camping tool is portable, easy to carry around and with good practical use
- Perfect for camping, fishing, hiking, cooking, hunting, picnics, family, road trips, DIY, any outdoor activities
- Constructed with stainless steel body with anti-slip PVC strips
- Functions/tools included:
Straight blade (1) Serrated blade (1)
Scissors (1)
Fish scaler (1)
Hook remover (1)
Can opener (1)
Bottle opener (1)
File (1)
Slotted screwdriver (1)
Phillips screwdriver (1)
Ice chisel (1)
Nail file (1)
Needle threader (1)
Corkscrew (1)
Key ring (1)



Order Code	Functions	Closed Size L x W x T (mm)	Weight (g)
TFPL30			
-00915B	15	92 x 25 x 19	102

Grip Wrenches

- Made of chrome vanadium steel for maximum durability
- Span and clamping pressure adjustable with a knurled screw
- Features the functions of normal pliers
- Classic trigger release designed to provide maximum locking force

Straight Jaw Grip Wrenches

Order Code	Size
TFPL50	
-01125A	5" / 125mm
-01180A	7" / 180mm
-01250A	10" / 250mm



Long Nose Grip Wrenches

Order Code	Size
TFPL50	
-05150L	6" / 150mm
-05230L	9" / 230mm



Curved Jaw Grip Wrenches

Order Code	Size
TFPL50	
-02180B	7" / 180mm
-02250B	10" / 250mm



Locking C-Clamp Wrench

Order Code	Size
TFPL50	
-10280C	11" / 280mm



Chain Grip Wrench

Order Code	Size	Chain Length	Pipe Capacity
TFPL50			
-15230D	9" / 230mm	19" / 480mm	12mm



Cable Tie Guns

for Nylon Cable Ties

- Easy tie Installation, cutting blade cuts flush to the head with no sharp edges
- Wide side entry gap for easier cable tie insertion
- Tension adjustable



for S/Steel Ties

- Quality carbon steel body, manganese steel blade, ergonomic TPR handles
- Cut stainless steel cable ties, clean and without sharp edges
- Strong bundling force and adjustable
- Suitable for outdoor applications, resistant to corrosion, high-temperature and wear



Order Code	Applications	Cable Tie Width (mm)	Cable Tie Thickness (mm)
TFHT02			
-01005A	for Nylon Cable Ties	2.4 - 4.8	≤ 1.6
-02012A	for S/Steel Ties	4.6 - 12.0	≤ 3.0

Nylon Cable Ties

- Nylon cable ties are manufactured to meet the requirements of UL Listed. Nylon 66 ties offer a quick and easily applied solution to most binding applications
- Characterized by its high strength and rigidity and exhibits excellent chemical, solvent and oil resistance, flammability rating to UL94 V2
- Operating Temperature: -40°C to 85°C
- Tensile strength: 22kg (50lbs)
- Pack qty. 100pcs
- **Applicable cable tie gun: TMHT02-01005A**
(see left bottom of this page)



Length (mm)	Width (mm)	Bundle Dia. (mm)	White	Black
			Order Code TFOT40	Order Code TFOT40
120.00	4.80	27.00	-01120A	-01120B
160.00	4.80	39.00	-01160A	-01160B
190.00	4.80	49.00	-01190A	-01190B
203.00	4.80	52.00	-01200A	-01200B
250.00	4.80	68.00	-01250A	-01250B
280.00	4.80	77.00	-01280A	-01280B
310.00	4.80	86.00	-01310A	-01310B
350.00	4.80	98.00	-01350A	-01350B
368.00	4.80	105.00	-01368A	-01368B
385.00	4.80	110.00	-01385A	-01385B
400.00	4.80	116.00	-01400A	-01400B
432.00	4.80	125.00	-01432A	-01432B
450.00	4.80	131.00	-01450A	-01450B
500.00	4.80	147.00	-01500A	-01500B
550.00	4.80	162.00	-01550A	-01550B
610.00	4.80	181.00	-01610A	-01610B
635.00	4.80	189.00	-01635A	-01635B
914.00	8.80	278.00	-01914A	-01914B

Stainless Steel Cable Ties

- Heavy duty 316 stainless steel cable ties offer increased strength and durability over standard nylon cable ties
- Supreme locking strength + self locking design for fast and secure installation
- Virtually limitless applications for just about every industry including engineering, aerospace, marine etc. under high humidity, high temperatures, and cold conditions
- Operating temperature: -110F°/-78C° to 1,000F°/537°C
- UL Listed, anti-corrosion, non-rust, non-flammable
- **Applicable cable tie gun: TMHT02-02012A**
(see left bottom of this page)



Order Code	Length (mm)	Width (mm)	Bundle Dia. (mm)	Tensile Strength (lbs)	Pack Qty.
TFOT40					
-20127A	127.00	4.60	25.00	100	100
-20127B	127.00	7.90	25.00	250	100
-20152A	152.00	4.60	33.00	100	100
-20152B	152.00	7.90	33.00	250	100
-20201A	201.00	4.60	51.00	100	100
-20201B	201.00	7.90	51.00	250	100
-20266A	266.00	4.60	69.00	100	100
-20266B	266.00	7.90	69.00	250	100
-20300A	300.00	4.60	80.00	100	100
-20300B	300.00	7.90	80.00	250	100
-20362A	362.00	4.60	102.00	100	100
-20362B	362.00	7.90	102.00	250	100
-20521A	521.00	4.60	152.00	100	100
-20521B	521.00	7.90	152.00	250	100
-20679A	679.00	4.60	203.00	100	100
-20679B	679.00	7.90	203.00	250	100
-20838A	838.00	4.60	254.00	100	50
-20838B	838.00	7.90	254.00	250	50

Deburring Tool Sets

- Ergonomic handles for comfortable grip, easy to use

Type B

- Universal model for deburring straight edges and hole edges
- Set contains one handle, one telescopic holder B and one each of B10 and B20 high-speed steel blade



Type C

- Designed for high-quality finishing and scraping
- Set contains one handle with key, one holder C and one C42 triangular scraper



Type D

- Designed for deburring both sides of sheets up to 3mm (0.12") thick
- Set contains one handle, one holder D and one D80C blade



Type E

- Popular heavy duty, wear resistant set for long reach work on holes, slots and edges
- Set contains one handle and one telescopic holder E, one each of E100, E200 and E300 high-speed steel blade



Type F

- Designed for chamfering and cleaning pipes, tubes and holes up to 20mm (0.79") in diameter
- Set contains one handle, one telescopic holder F and one F20 countersink



Type FR

- Designed for chamfering and cleaning pipes, tubes and holes up to 20mm (0.79") in diameter
- Features FR ratchet holder, ideal for rotational chamfering, even when workspace is limited
- Set contains one handle, one telescopic ratchet holder and one F20 countersink



Order Code	Set Type	Holder Type	Holder Type
TFHT10			
-00101B	B	B	B10, B20
-00102C	C	C	C42
-00103D	D	D	D80C
-00104E	E	E	E100, E200, E300
-00105F	F	F	F20
-00106F	FR	FR	F20

Deburring & Scraping Sets

- These premier most popular sets are to provide focused solutions for many applications

Standard Duty Set

- Set contains (one of each):
Handle, Holder B, Holder C
Blades: B10, B20, B30, B60, B11, B70 and C40
C key



Standard Duty Set

Heavy Duty Set

- Set contains (one of each):
Handle, Holder E, Holder C
Blades: E42, E100P, E111, E200, E300 and E700
C key



Heavy Duty Set

Thin Sheet Set

- Set contains (one of each):
Handle, Holder D, Holder E
Blades: D80C, D82C, E100, E111, E200, E300 and E700



Thin Sheet Set

Order Code	Set Type
TFHT10	
-00801T	Standard
-00802T	Heavy Duty
-00803T	Thin Sheet

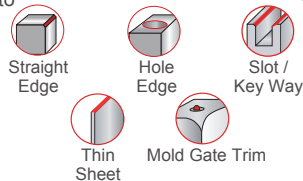
Telescopic Blade Holders for Deburring Tools



Order Code	Holder Type	Applicable Blade Type
TFHT10		
-29004E	E	All E Blades
-29000B	B	All B Blades
-29001C	C	C40 and C42 Scrapers
-29002D	D	D80C and D82C scrapers
-29005F	F	All F blades
-29006R	FR	Ratchet, all F blades

Cera-Burrs





















- High quality ceramic blades affixed on strong, lightweight handle
- Ceramic tools for deflashing plastics and deburring soft metals
- Ideal to remove unwanted mold gate trim on plastic work piece
- New curved blades to reach arched and angled areas



Order Code	Blade Type
TFHT10	
-01551A	Straight
-01552A	Curved

Blades

★ Frequently-used Blades

Blade Type	Order Code TFHT10	Description	Blade Working Direction	Applications										Materials									
				Straight Edge	Hole Edge	Outer Edge	Cross-Hole Both Edges	Hole Back-Edge	Hole Inner Surface	Flat Surface	Sheet	Slot/Keyway	Inner Straight Corners	Steel	Aluminum	Copper	Brass	Cast Iron	Stainless Steel	Hardened Steel	Plastics	Carbide & Glass	
B10	-09010B	HSS. Deburrs material with spiral chips	★ 	•	•												•	•	•				•
B11	-09011B	Extra thin, HSS. Deburrs holes with min. diameter 2mm (0.08")		•	•												•	•	•				•
B20	-09020B	HSS. Rotates clockwise & counterclockwise	★ 	•	•													•	•				•
B30	-09030B	Simultaneously deburrs the inside and outside of holes up to 4mm (0.16") thick	★ 				•										•	•	•				•
B60	-09060B	HSS. Removes burrs from back edge of holes up to 20mm (0.78") thick								•							•	•	•				•
B70	-09070B	Carbide tipped. Deburrs sheet metal up to 3.5mm (0.14") thick											•				•	•	•	•	•	•	•
C40	-09040C	Small, 4mm (0.16"), triangular HSS scraper for precision work	★ 							•	•	•					•	•	•	•	•	•	•
C42	-09042C	Standard size, 8mm (0.31"), triangular HSS scraper	★ 							•	•	•					•	•	•	•	•	•	•
D80C	-09080D	Solid carbide, 6 cutting edges. Scrapes surfaces and deburrs sheet metal up to 3mm (0.12") thick															•	•	•	•	•	•	•
D82C	-09082D	Heavy-duty, double-edged carbide blade. Deburrs sheet metal up to 9mm (0.35") thick															•	•	•	•	•	•	•
E100	-09100E	Heavy-duty HSS. Deburrs materials with spiral chips	★ 	•	•												•	•	•				•
E100P	-09101E	PVD TiN coated for high wear resistance. E100 geometry		•	•												•	•				•	•
E100S	-09102E	Long lasting cobalt-enriched. E100 geometry		•	•												•	•	•			•	•
E111	-09111E	Thin-nosed, HSS. Deburrs holes with min. diameter 1.5mm (0.06")		•	•												•	•	•				•
E120	-09120E	E shaft, B20 cutting edge for materials with powdery chips. Rotates clockwise & counterclockwise		•	•													•	•				•
E200	-09200E	HSS for materials with powdery chips. Rotates clockwise & counterclockwise	★ 	•	•													•	•				•
E300	-09300E	HSS for materials with spiral chips. Simultaneously deburrs the inside and outside of holes up to 6mm (0.24") thick	★ 				•										•	•	•				•
E400	-09400E	Mini triangular scraper		•						•	•	•					•	•	•	•	•	•	•
E700	-09700E	HSS for materials with spiral chips. Excellent for deburring & scraping inside thick-walled and cross-holes								•	•						•	•	•				•
F20	-09020F	Countersink for hole-edges with up to 20 mm (0.78") diameter	★ 		•												•	•	•	•	•	•	•

Multi-functional Hand Deburring System

- Ideal for deburring and trimming
- Economic, versatile, fast and convenient to use
- Adopts high-quality M2 HSS blades, resulting in high smooth surfaces

Models



Order Code	Models	Compatible Blades
TFHT10		
-31000G	NG-1-H	TS / TK / TC Series
-31000B	NB-H	
-32000E	EO-H	(Most Applicable) TS / TK Series
-31000R	RB-H	
-31300S	SC-H	TD Series

Compatible Blades

Order Code	Blade Types	Images	Angles	Pack Qty.	Applicable Materials
-91010S	TS10		40°	10	Steel, aluminum, plastic
-91012S	TS10TiN		40°	10	Grinding materials
-92010S	TS20		63°	10	Brass, cast iron
-92012S	TS20TiN		63°	10	Stainless steel
-93010S	TS30		40°	10	Internal and external burrs
-93510S	TS35		55°	10	Straight edges of most materials
-96001S	TS60		40°	1	Hard-to-reach cross holes
-91018S	TS100Cobalt		45°	10	Plastic, hard materials
-91010K	TK101		45°	10	Fine edges of most materials
-93010K	TK150		45°	10	Small holes with a diameter of 1.5mm
-92010K	TK202		55°	10	Fine edges of brass and cast iron
-96301C	TC6.3		90°	1	Chamfering internal holes below 6.3mm
-98301C	TC8.3		90°	1	Chamfering internal holes below 8.3mm
-91041C	TC10.4		90°	1	Chamfering internal holes below 10.4mm
-91651C	TC16.5		90°	1	Chamfering internal holes below 10.4mm
-95010D	TD50		60°	10	For holes, straight edges and inner walls etc.

Strap Wrenches

- Made of forged CRV steel through heat treatment
- Delivers high-torque application without scratching or damaging



Order Code	Handle Length (mm)	Pipe Capacity (mm)	Weight (g)
TFPW01			
-01009A	230	60 - 140	334
-01011A	279	60 - 203	560

American Pattern Chain Wrenches

- Made of high-quality carbon steel, chrome plated
- Overall heat treatment with induction hardened jaws
- Designed for working in confined areas
- Easy to reverse direction thanks to the special design of the jaw teeth



Order Code	Handle Length (mm)	Pipe Capacity (mm)	Weight (g)
TFPW02			
-01012A	300	110	818
-01015A	380	130	1200
-01024A	600	170	1750

Heavy Duty Rebar Cutter & Benders

- Unique 2-in-1 combination of cutting and bending rebars
- Constructed from heavy-duty cast iron with alloy steel jaws
- Features an open style top-loading mechanics, allowing the user to see exactly where the cut is for precision
- Non-slip handle grip and a lifting chain & ring to make it easier to carry to and from the job site
- Can be bolted to floor or board for easy operation

Japanese Style

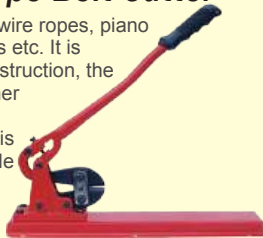
American Style



Order Code	Style	Size	Length (mm)	Cutting Capacity	Bending Capacity	Weight (kg)
TFCU09						
-10052A	Japanese	52"	1320	5/8" (16mm)	5/8"	17
-11052B	American	52"	1320	5/8" (16mm)	5/8"	18
-11057B	American	57"	1450	3/4" (16mm)	3/4"	25

Industrial Bench Type Bolt Cutter

- Wide applications of cutting wire ropes, piano wires, ACSR, airplane cables etc. It is commonly used in cable construction, the mechanical industry, and other maintenance areas
- This Temo bench cutter tool is made of CRV steel. The blade part is made of forged alloy steel, which makes the blade's hardness reach HRC35 - 45°. Simultaneously, the edge is thickened to make the blade more durable and corrosion-resistant



Order Code	Size	Cutting Capacity		Base Dimensions (mm)	Weight (kg)
		Soft Steel Wire Ropes	Medium-Hard Steel Wire Ropes		
TFCU09					
-01024A	24" (600mm)	3/8" (9.5mm)	1/4" (6.25)	3" x 6" (76 x 152mm)	11

8" Bolt Cutter

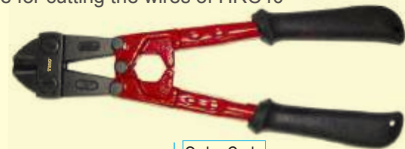
- Forged and hardened alloy steel jaws
- Compound cutting action requires less effort



Order Code	Size	Weight (g)
TFCU10		
-00200B	8" / 200mm	286

Bolt Cutters

- Cr-MO jaws and black finished jaws, hardness up to HRC55 - 60
- Suitable for cutting the wires of HRC40



Order Code	Size	Order Code	Size
TFCU10		TFCU10	
-00300B	12" / 300mm	-00750B	30" / 750mm
-00350B	14" / 350mm	-00900B	36" / 900mm
-00450B	18" / 450mm	-01050B	42" / 1050mm
-00600B	24" / 600mm		

Aluminum Handled Bolt Cutters

- Lightweight yet durable aluminum handles
- Cr-MO jaws and black finished jaws, hardness up to HRC55 - 60
- Suitable for cutting the wires of HRC40



Order Code	Size
TFCU20	
-00300A	12" / 300mm
-00350A	14" / 350mm

PVC Cutters

Quick Style

- Constructed from ABS, with high gloss, durable and strength
- 2.0mm thick manganese steel blade for quick and accurate cut
- Featured with round shaping tail
- Can cut PVC, CPVC, PP-R, PEX, POLY, PE and rubber hoses

H/D Ratchet

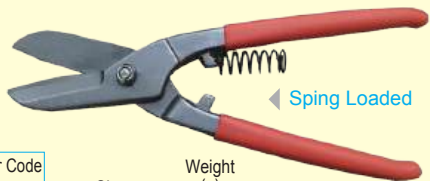
- Aluminum body, ratchet drive
- Quick-release function for one-hand operation
- Can cut PVC, CPVC, PP-R, PEX, POLY, PE and rubber hoses

Order Code	Style	Opening (mm)	Length (mm)	Weight (g)
TFCU25				
-82001A	Quick Style	16 - 32	248	136
-82105A	H/D Ratchet	42	235	474



TEMOTUF™ Industrial Tinsnips - British Style

- One-piece, drop-forged blades with spring loaded handles. Suitable for cutting thin gauge ferrous and non-ferrous metal sheet
- Suitable for various industrial and maintenance fields



Spring Loaded

Order Code	Size	Weight (g)
-01200A	8"/200mm	309
-01250A	10"/250mm	472
-01300A	12"/300mm	680
-01360A	14"/360mm	845

Bearing Steel Structured Pipe Cutter

- Used for cutting metal pipes such as copper pipes, aluminum pipes, stainless steel pipes etc.
- Bearing steel body, heat treated dual blades with high strength and force for quick and accurate cut
- Ergonomic knob for anti-slip and comfortable operation.



Order Code	Cutting Capacity (mm)
-02035A	3 - 35

Replacement Blade	Order Code	Pack Qty.
	-00103P	10

Aluminum Alloy Structured Pipe Cutters

- Used for cutting metal pipes such as copper pipes, aluminum pipes, stainless steel pipes etc.
- Aluminum alloy body, heat treated dual blades with high strength and force for quick and accurate cut
- Ball bearing top cutters make the cut more flexibly and smoothly
- Lightweight and compact form makes it easy to operate in tight spaces



Image 1 - Mini

Image 2 - Model I

Image 3 - Model II

Order Code	Types	Cutting Capacity (mm)	Image	Replacement Blade	Order Code	Pack Qty.
-02019A	Mini	3 - 19	1		-00101P	10
-02032A	I	4 - 32	2		-00102P	10
-02050A	I	5 - 50	2		-00104P	10
-02065A	II	6 - 65	3		-00105P	10

3-in-1 Mini Bender

- This 3-in-1 mini bender is calibrated for setting out left, right or offset bends up to 90° on 6mm, 8mm and 10mm outside diameter copper tubing
- Purpose built for micro bore central heating and hydraulic pipes



Order Code	Applicable Tubes (mm)
TFCU24	
-01010A	6, 8 & 10

Double Flaring Tool & Pipe Cutting Kit

- Constructed from carbon steel, yoke forged from heat-treated steel for maximum strength and longevity
- Ideal for double/single flare(s) in copper, alum, soft steel brake line, and brass tubing (to 45°)
- Kit includes:

- 1 x yoke
- 1 x flaring bar: 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8"
- 7 x flare adapter dies: 3/16", 1/4", 5/16", 3/8", 7/16", 1/2" & 5/8"
- 1 x tube cutter: 1/8" ~ 1-1/8"



Order Code	Numbers of Pieces	Flaring Capacity	Weight (kg)
TFCU26			
-80010A	10	3/16" ~ 5/8"	2.2

45° Copper Tube Flaring & Swaging Tool Kit

- Constructed from carbon steel, yoke forged from heat-treated steel for maximum strength and longevity
- Used as a method for joining copper tubing by eliminating the need for a coupling
- Kit includes:

- 1 x yoke
- 2 x flaring bars: 1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 5/8" & 3/4"
- 5 x swaging fittings (for 7 sizes): 3/16", 1/4", 5/16", 3/8", 1/2", 5/8" & 3/4"
- 1 x tube cutter: 1/8" ~ 1-1/8"
- 1 x ratchet wrench: 3/16", 1/4", 5/16", 3/8" for square valves



Order Code	Numbers of Pieces	Flaring Capacity	Swaging Capacity (mm)	Weight (kg)
TFCU26				
-80110A	10	1/8" ~ 3/4"	3/16" ~ 3/4"	2.8

Hand Bench Shears

- Constructed from solid steel frame and a hardened carbon steel blade
- Replaceable blade, spring assisted return handle
- Adjustable material thickness guide

Order Code	Cut Lgth. (mm)	Plate Steel (mm)	Belt Steel (mm)	Round Steel (mm)	Weight (kg)
TFCU27					
-10150A	150	6	70 x 6	Ø11	11
-10200A	200	6	70 x 6	Ø11	17
-10250A	250	6	70 x 6	Ø11	21
-10300A	300	6	70 x 6	Ø11	26



Ball Pein Hammers - Beech Wood Shafts

- Made of forged carbon steel, heat treated
- Beech wood shafts, resin sealed protects wood from debris and weather damage
- Durable and longevity



Order Code	Head Weight	Length (mm)	Weight (kg)
TFHM11			
-10010A	1lb / 16oz / 0.45kg	325	0.50
-10015A	1.5lbs / 24oz / 0.68kg	345	0.70
-10020A	2.0lbs / 32oz / 0.91kg	382	1.07

Claw Hammers - Beech Wood Shafts

- Made of forged carbon steel, heat treated
- Beech wood shafts, resin sealed protects wood from debris and weather damage
- Durable and longevity



Order Code	Head Weight	Length (mm)	Weight (kg)
TFHM12			
-10010A	1lb / 16oz / 0.45kg	320	0.67
-10015A	1.5lbs / 24oz / 0.68kg	320	0.71

Club Hammers - Beech Wood Shafts

- Made of forged carbon steel, heat treated
- Beech wood shafts, resin sealed protects wood from debris and weather damage
- Durable and longevity



Order Code	Head Weight	Length (mm)	Weight (kg)
TFHM08			
-10020A	2.2lbs / 35oz / 1kg	260	1.16
-10030A	3.3lbs / 53oz / 1.5kg	290	1.67
-10040A	4.4lbs / 70oz / 2kg	305	2.14

Ball Pein Hammers - Plastic Shafted

- Made of high-quality forged carbon steel, heat treated
- Ergonomic plastic shafts for comfortable grip
- Phosphated heads for rust and corrosion resistance
- Durable and longevity



Order Code	Head Weight	Length (mm)	Weight (kg)
TFHM11			
-11010B	1.0lb / 16oz / 0.45kg	320	0.69
-11015B	1.5lbs / 24oz / 0.68kg	320	1.00
-11020B	2.0lbs / 32oz / 0.91kg	340	1.20
-11025B	2.5lbs / 40oz / 1.14kg	340	1.44
-11030B	3.0lbs / 48oz / 1.36kg	340	1.73

American Pattern Claw Hammers - Plastic Shafted

- Made of high-quality forged carbon steel, heat treated
- Ergonomic plastic shafts for comfortable grip
- Phosphated heads for rust and corrosion resistance
- Durable and longevity



Order Code	Head Weight	Length (mm)	Weight (kg)
TFHM12			
-11005B	0.5lb / 8oz / 0.23kg	320	0.35
-11010B	1.0lb / 16oz / 0.45kg	320	0.73
-11015B	1.5lbs / 24oz / 0.68kg	340	1.38

Club Hammers - Plastic Shafted

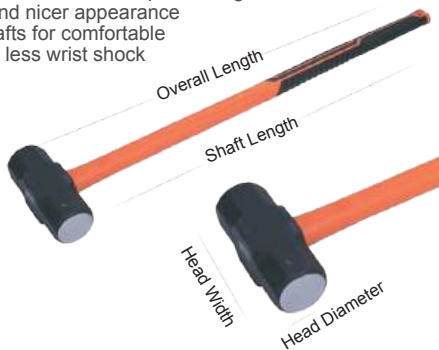
- Made of high-quality forged carbon steel, heat treated
- Ergonomic plastic shafts for comfortable grip
- Phosphated heads for rust and corrosion resistance
- Durable and longevity



Order Code	Head Weight	Length (mm)	Weight (kg)
TFHM08			
-11020B	2.0lbs / 32oz / 0.91kg	258	1.14
-11030B	3.0lbs / 48oz / 1.36kg	297	1.33
-11040B	4.0lbs / 64oz / 1.82kg	385	2.00
-11060B	6.0lbs / 96oz / 2.72kg	894	2.70
-11080B	8.0lbs / 128oz / 3.63kg	894	4.00
-11100B	10.0lbs / 160oz / 4.54kg	894	5.00
-11120B	12.0lbs / 192oz / 5.45kg	894	5.87
-11140B	14.0lbs / 224oz / 6.36kg	894	6.75
-11160B	16.0lbs / 256oz / 7.26kg	894	7.50
-11180B	18.0lbs / 288oz / 8.17kg	894	9.00
-11200B	20.0lbs / 320oz / 9.08kg	894	9.75

Sledge Hammers with TPR Handles

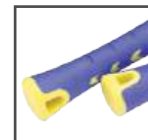
- Quality drop forged heads by precision ground with high hardness
- Resin sealed heads and precision ground faces for better safety and nicer appearance
- TPR shafts for comfortable grip and less wrist shock



Order Code	Head Weight (lb)	Head Dia. (mm)	Head Width (mm)	Overall Length (mm)	Handle Length (mm)	Weight (kg)
TFHM08						
-40006B	6	54	150	875	821	3.7
-40008B	8	57	165	880	821	4.6
-40010B	10	63	175	883	821	5.5
-40012B	12	65	185	890	821	6.4
-40014B	14	67	197	891	821	7.2

Integrated TPR Installation Hammers

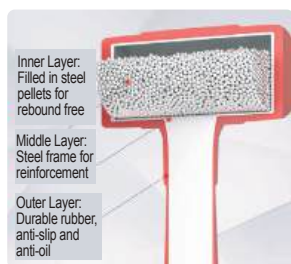
- Made of high-quality quenched steel and TPR materials, high hardness and wear-resistant
- Integrated design with high elastic and replaceable heads
- Ergonomic shafts for comfortable grip and oil-resistance



Order Code	Head Dia. (mm)	Face Dia. (mm)	Head Height (mm)	Overall Length (mm)	Weight (g)
TFHM35					
-02025B	25	23	65	245	174
-02030B	30	28	80	255	270
-02035B	35	33	88	265	373
-02040B	40	38	95	300	505
-02045B	45	43	100	310	655

Integrated Safe Blow Hammers

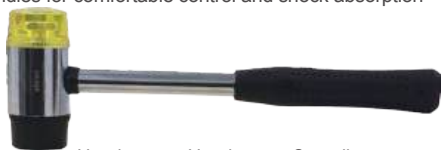
- Suitable for home decoration, DIY work and outdoor work, etc.
- Steel pellet filled canister provides dead blow action for sustained impact, maximum power and striking force
- One piece hot cast polyurethane construction for safety and durability, eliminating the risk of fall-off of the heads
- Non-slip rubber handles for anti-slip and comfortable grip



Order Code	Head Weight (lb)	Head Dia. (mm)	Head Height (mm)	Overall Length (mm)	Weight (g)
TFHM35					
-03005D	0.5	33	80	260	390
-03010D	1	45	93	290	620
-03020D	2	50	110	345	1050
-03030D	3	60	125	370	1500

PVC Assembly Hammers - Tubular Steel Shafts

- This soft hammer is delicate not only for glass and tiles but also for interior decoration, jewelry, handicrafts, furniture assembly, wood floor installation and so on
- Double heads, one is made of rubber and the other is made of polyurethane, resulting in excellent wear resistance and elasticity
- This hammer will not damage the surfaces but provide effective protection
- Adopts 0.6mm tubular steel shafts for additional strength and durability
- Replaceable heads, knock-resistance, non-slip and economic
- Electroplating surfaces for anti-rust, ergonomic rubber handles for comfortable control and shock absorption



Order Code	Head Diameter (mm)	Head Height (mm)	Overall Length (mm)	Weight (g)
TFHM35				
-01025A	25	64	260	180
-01030A	30	80	265	260
-01035A	35	89	270	370
-01040A	40	91	290	540
-01045A	45	93	300	650

White Rubber Mallets - French Style

- Ideal for construction, woodworking, metal forming, and automotive applications
- Made of high-quality nature rubber, will not mark surfaces
- Varnished wood shafts are friendly to environment and practical
- Self-locking handles are securely embedded, delivering a gentle but firm blow with little rebound



Order Code	Head Weight	Head Height (mm)	Overall Length (mm)	Weight (g)
TFHM31				
-02007A	0.75lb / 12oz	92	280	400
-02010A	1lb / 16oz	100	300	500
-02015A	1.5lb / 24oz	117	320	750
-02020A	2lb / 32oz	121	360	1000

Professional 12" Hacksaw Frame

- A revolutionary steel hacksaw with 360° rotary blade, specially for hard-to-reach spaces
- Heavy duty frame with steel I-beam ensures optimal performance with high tension force; ergonomic non-slip soft handle ensures a firm and comfortable grip
- High tension adjustment knob with scales can adjust the blade to any angles for right-and-left handers
- Turn the spring knob to tighten the blade firmly to desired tension, on the hand the spring mechanism can also help the blade change become very easily and promptly



Order Code	Size	Weight (g)
TFHT01		
-10300A	300mm / 12"	710

12" D Shape Hacksaw Frame

- Constructed from aluminum alloy frame with high strength carbon steel I-beam ensures optimal performance with high tension force
- Adjustable blade angles of 45 and 90°, ensuring different angles of cutting
- Wing nut knob for tension adjustment and quick blade change
- Convenient blade storage, store up to 5 extra 12" hacksaw blades



Order Code	Size	Weight (g)
TFHT01		
-20300A	300mm / 12"	472

Industrial Bi-Metal Hacksaw Blades

- Made of high-quality bi-metal material, safer than HSS
- Sharp, durable, flexible and long-lasting
- Packed in a plastic box with 100pcs
- MOQ: 10pcs



Order Code	Length	Width	TPI
TFCT80			
-02212B	12" (300mm)	1/2" (12.5mm)	18
-02312B	12" (300mm)	1/2" (12.5mm)	24

Engineer's Files

Flat Engineer's Files



Size L x W x T (mm)	Bastard Cut	Second Cut	Smooth Cut
	Order Code	Order Code	Order Code
200 x 20 x 4.5	-01200B	-01200M	-01200S
250 x 24 x 5.5	-01250B	-01250M	-01250S
300 x 28 x 6.5	-01300B	-01300M	-01300S

Triangular Engineer's Files



Size L x W x T (mm)	Bastard Cut	Second Cut	Smooth Cut
	Order Code	Order Code	Order Code
200 x 13.0 x 13.0	-03200B	-03200M	-03200S
250 x 16.0 x 16.0	-03250B	-03250M	-03250S
300 x 19.0 x 19.0	-03300B	-03300M	-03300S

Square Engineer's



Size L x W x T (mm)	Bastard Cut	Second Cut	Smooth Cut
	Order Code	Order Code	Order Code
200 x 7.0 x 7.0	-04200B	-04200M	-04200S
250 x 8.5 x 8.5	-04250B	-04250M	-04250S
300 x 10.8 x 10.8	-04300B	-04300M	-04300S

Half Round Engineer's Files



Size L x W x T (mm)	Bastard Cut	Second Cut	Smooth Cut
	Order Code	Order Code	Order Code
200 x 20 x 5.5	-05200B	-05200M	-05200S
250 x 24 x 7.0	-05250B	-05250M	-05250S
300 x 28 x 8.0	-05300B	-05300M	-05300S

Round Engineer's Files



Size L x W x T (mm)	Bastard Cut	Second Cut	Smooth Cut
	Order Code	Order Code	Order Code
200 x 7.0 x 7.0	-06200B	-06200M	-06200S
250 x 9.0 x 9.0	-06250B	-06250M	-06250S
300 x 11.0 x 11.0	-06300B	-06300M	-06300S

8Pc Engineer's File Sets

- All sets are packed in quality oxford canvas bags for good organization and nice presentation



Order Code	Content	Size (mm)
TFFL70		
-00108T	Flat Files: Second Cut & Bastard Cut	250 (1pc of each)
	Triangular Files: Second Cut & Bastard Cut	
	Half Round Files: Second Cut & Bastard Cut	
	Round Files: Second Cut & Bastard Cut	
-00208T	Flat Files: Second Cut & Smooth Cut	250 (1pc of each)
	Triangular Files: Second Cut & Smooth Cut	
	Half Round Files: Second Cut & Smooth Cut	
	Round Files: Second Cut & Smooth Cut	
-00308T	Flat Files: Second Cut	250 & 200 (1pc of each)
	Triangular Files: Second Cut	
	Half Round Files: Second Cut	
	Round Files: Second Cut	
-00408T	Flat Files: Second Cut & Bastard Cut	250 (1pc of each)
	Triangular Files: Second Cut & Bastard Cut	
	Half Square Files: Second Cut & Bastard Cut	
	Round Files: Second Cut & Bastard Cut	
-00508T	Flat Files: Second Cut & Smooth Cut	250 (1pc of each)
	Triangular Files: Second Cut & Smooth Cut	
	Half Square Files: Second Cut & Smooth Cut	
	Round Files: Second Cut & Smooth Cut	
-00608T	Flat Files: Second Cut	250 & 200 (1pc of each)
	Triangular Files: Second Cut	
	Square Files: Second Cut	
	Half Round Files: Second Cut	

Rotary Pump







- Crafted with high-quality cast iron. Can even fit all types of barrels (15 to 55 Gal / 57 to 210 L)
- Extractable liquids such as machine oil, kerosene, diesel, engine oil, hydraulic oil, gear oil, cooking oil (not food grade) etc.
- Liquids that can't be extracted: gasoline, water, urea, acid-base liquid, corrosive liquid and chemical liquid etc.
- The pump performs a smooth rotary action for quick oil extraction to save the time
- The fine filter can effectively separate the oil dirt to ensure that the only pure oil is pumped
- 3 piece segmented suction tubes with threads, strong sealing, easy to adjust the length and easy to store and carry



Order Code	Discharge Rate	Suction Lift (m)	Maximum Discharge Lift (m)	Weight (kg)
TFLB02				
-03100A	22L/Minute	1.5	5	5.7

6Pc Assorted Needle File Sets

- Manufactured from high-quality alloy steel, industrial grade
- Combines features of high hardness, sharp teeth and chip-free
- Ergonomic dual-color handles for comfortable grip, anti-fatigue and anti-slip
- Used for precision or delicate work and narrow areas
- Set includes (1 of each):







-  Equaling
-  Half Round
-  Three Square
-  Square
-  Round
-  Flat



Order Code	Length
TFFL88	
-11406T	140mm
-11606T	160mm
-11806T	180mm

6Pc Diamond Needle File Sets

- Adopts diamond grit onto high-grade steel, nickel electroplated, industrial grade
- Features with sharp teeth and long-lasting
- Ergonomic dual-color handles for comfortable grip, anti-fatigue and anti-slip
- Used for precision or delicate work and narrow areas
- Set includes (1 of each):











-  Equaling
-  Half Round
-  Three Square
-  Square
-  Round
-  Flat



Order Code	Length
TFFL89	
-11406D	140mm
-11606D	160mm
-11806D	180mm

10Pc Diamond Needle File Sets

- Adopts diamond grit onto high-grade steel, nickel electroplated, industrial grade
- Features with sharp teeth and long-lasting
- Ergonomic dual-color handles for comfortable grip, anti-fatigue and anti-slip
- Used for precision or delicate work and narrow areas
- Set includes (1 of each):

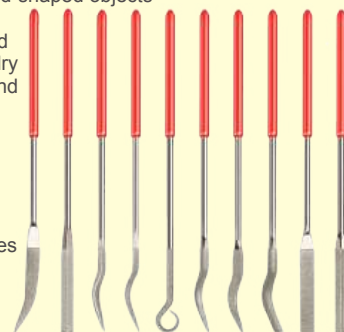
-  Equaling
-  Half Round
-  Three Square
-  Knife
-  Barrette
-  Square
-  Round
-  Flat
-  Crossing
-  Slitting



Order Code	Length
TFFL89	
-21410D	140mm
-21610D	160mm
-21810D	180mm

10pc 140cm Diamond Riffler Needle File Set

- Made of high carbon steel, coated with grit 120 diamond, industrial grade
- This high-quality diamond file set is designed for hard-to-reach & odd-shaped objects
- Ideal for glass, ceramic, metal, and hard wood or jewelry carving, shaping and material removal and cleaning
- Hardness up to HRC62 - 67, suitable for any steels
- PVC-dipped handles provide excellent grip



Order Code	Size
TFFL89	Dia. x Length
-70140D	3 x 140mm

Industrial Stainless Steel Tweezers

- Crafted from polished high-quality stainless steel, rustless, durable and beautiful
- These industrial-grade tweezers are useful in a range of laboratories and other working environments for gripping and manipulating small or delicate objects
- Anti-acid and anti-magnetic

A1 - Sharp tip, rounded tail



A2 - Long sharp tip, rounded tail



A3 - Sharp tip, rounded corner tail



A4 - Needle nose, rounded tail



A5 - Type F needle nose, rounded tail



A6 - Bent needle nose, rounded tail



Order Code	Type	Length (mm)
-50101A	A1	108
-50102A	A2	133
-50103A	A3	123
-50104A	A4	109
-50105A	A5	114
-50106A	A6	115

6Pc Set

Order Code	Type
TFOT10	
-58106T	A1, A2, A3, A4, A5, A6



Insulated Combination Pliers Δ 1000V

- Hot forged CrV steel, induction hardened cutting edge (HRC55 - 62)
- Firm gripping, exceptionally strong cutting force and durable
- VDE-GS EN 60900



Order Code	Size	Weight (g)
TFNS10		
-20150A	6"(150mm)	240
-20180A	7"(180mm)	290
-20200A	8"(200mm)	410

Insulated Diagonal Pliers Δ 1000V

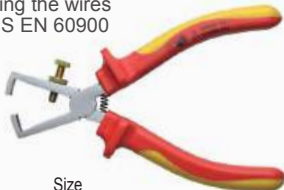
- Hot forged CrV steel, induction hardened cutting edge (HRC57 - 65)
- Sharp and aligned cutting edges ensure the clean cut to all types of wires
- Exceptionally strong cutting force and durable
- VDE-GS EN 60900



Order Code	Size	Weight (g)
TFNS12		
-20150A	6"(150mm)	230
-20180A	7"(180mm)	300

Insulated Wire Stripping Pliers Δ 1000V

- Hot forged CrV steel, specially hardened jaws for maximum strength and durability
- Adjustable screw for setting the desired diameters of wires to be stripped efficiently without damaging the wires
- VDE-GS EN 60900



Order Code	Size
TFNS18	
-20150A	6"(150mm)

Insulated Water Pump Pliers Δ 1000V

- Hot forged CrV steel, specially hardened jaws for maximum strength and durability
- Self-lock on pipes and nuts, no slipping on the workpieces but only low hand force required
- IEC 60900:2004 authenticated
- DIN EN 60900:2004



Order Code	Size
TFNS20	
-20250A	10"(250mm)

Insulated Long Nose Pliers Δ 1000V

- Hot forged CrV steel, induction hardened cutting edge (HRC55 - 62)
- Firm gripping, exceptionally strong cutting force and durable
- VDE-GS EN 60900



Order Code	Size	Weight (g)
TFNS11		
-20150A	6"(150mm)	170
-20200A	8"(200mm)	250

Insulated H/D Diagonal Cutting Pliers Δ 1000V

- Hot forged CrV steel, induction hardened cutting edge (HRC57 - 65)
- Sharp and aligned cutting edges ensure the clean cut to all types of wires
- High leverage design delivers stronger cutting force and less effort when cutting, makes the pliers more applicable for heavy duty needs
- VDE-GS EN 60900



Order Code	Size	Weight (g)
TFNS12		
-21180H	7"(180mm)	280
-21200H	8"(200mm)	290

Insulated Adjustable Wrenches Δ 1000V

- Made from quality CrV steel
- Ergonomic handles



Order Code	Size
TFNS08	
-10200A	8"(200mm)
-10250A	10"(250mm)

Insulated Electrician Shears Δ 1000V

- Made from high-grade stainless steel
- Ergonomic handles



Order Code	Type	Size
TFNS55		
-10140A	A	160mm
-10140B	B	160mm

1000V Insulated Plastic Rubber Handled Screwdrivers

- CrV steel blades with high strength for durability
- Dotted bi-material handles for more comfortable grip and less fatigue
- IEC/EN60900



Order Code	Size	Overall Length (mm)	Blade Length (mm)	Weight (g)
TFNS01				
-10002A	No.0	134	50	34
-11003A	No.1	159	75	66
-11004A	No.1	205	100	73
-12005A	No.2	240	125	100
-12006A	No.2	265	150	110
-13008A	No.3	327	200	165
-13010A	No.3	377	250	180

Slot



Order Code	Overall Length (mm)	Blade Length (mm)	Tip Width (mm)	Tip Thickness (mm)	Weight (g)
TFNS02					
-10302A	134	50	3.0	0.5	35
-10402A	134	50	4.5	1.0	42
-10303A	159	75	3.0	0.6	34
-10403A	159	75	4.0	0.8	44
-10503A	180	75	5.0	1.0	68
-10404A	184	100	4.0	0.8	44
-10504A	205	100	5.0	1.0	73
-10604A	215	100	6.0	1.1	84
-10605A	240	125	6.0	1.1	100
-10606A	265	150	6.0	1.1	110
-10706A	265	150	7.0	1.2	125
-10806A	277	150	8.0	1.2	140
-10808A	327	200	8.0	1.2	165
-10910A	377	250	9.0	1.6	185

8Pc Insulated Tool Set Δ 1000V

- Ideal for general use of the electricians
- Set includes:
 - 1 x 200mm combination pliers
 - 1 x 150mm diagonal pliers
 - 1 x 200mm long nose pliers
 - 1 x slot screwdriver: 5 x 100mm
 - 1 x slot screwdriver: 6 x 150mm
 - 1 x crosspoint screwdriver: No.1 x 75mm
 - 1 x crosspoint screwdriver: No.2 x 150mm
 - 1 x mains tester



Order Code	Numbers of Pieces
TFNS88	
-30008T	8

Insulated Cable Knife - Straight Blade



- High quality stainless steel blade
- Straight blade for easy cable stripping
- Comes with a protective cap



Order Code	Blade Length	Size	Weight
TFNS50			
-12001A	2"(50mm)	8"(200mm)	100g

Insulated Cable Knife - Hook Blade



- High quality stainless steel blade
- Hooked blade and flat tip for fast and damage free cable stripping
- Comes with a protective cap



Order Code	Blade Length	Size	Weight
TFNS50			
-12003H	2"(50mm)	8"(200mm)	100g

Insulated Cable Stripping Knife



- High quality stainless steel blade
- Narrow and straight edged blade for fine cable stripping
- Comes with a protective cap



Order Code	Blade Length	Size	Weight
TFNS50			
-11002A	2"(50mm)	8"(200mm)	100g

Insulated Electrician's Knife - Curved Blade



- High quality stainless steel blade
- Bowed cutting edge and a well-balanced design for effortless cutting
- Comes with a protective cap



Order Code	Blade Length	Size	Weight
TFNS50			
-12002B	2"(50mm)	8"(200mm)	100g

Insulated Cable Stripping Knife - Dagger Blade



- High quality stainless steel blade
- Dagger blade and a well-balanced design for sharp and effortless cutting
- Comes with a protective cap



Order Code	Blade Length	Size	Weight
TFNS50			
-11001A	2"(50mm)	8"(200mm)	100g

Insulated Interchangeable Blade Cable Knife



- High quality stainless steel blade
- Interchangeable blades
- With folding, captive blade guard integrated in the handle



Order Code	Blade Length	Size	Weight	Order Code	Pack Qty.
TFNS50				TFNS50	
-12004C	2"(50mm)	8"(200mm)	70g	-90004P	4Pcs

Mains Tester



- Made in Germany
- Hooked blade and flat tip for fast and damage free cable stripping
- Comes with a protective cap



Order Code	Test Range	Blade Length	Overall Length
TFNS70			
-01250A	125~250V	105mm	190mm

Insulated VDE Spanners



- Made of forged CrV steel, oil-hardened
- 1000V plastic dipped
- VDE authenticated




Single-End Open Jaw



Single-End Offset Ring

Size (mm)	Single-End Open Jaw	Length (mm)	Single-End Offset Ring	Length (mm)
	Order Code TFNS05		Order Code TFNS05	
7	-20507A	95	-20607A	125
8	-20508A	95	-20608A	125
9	-20509A	105	-20609A	125
10	-20510A	105	-20610A	125
11	-20511A	125	-20611A	130
12	-20512A	125	-20612A	130
13	-20513A	140	-20613A	145
14	-20514A	140	-20614A	145
15	-20515A	140	-20615A	155
16	-20516A	160	-20616A	155
17	-20517A	160	-20617A	155
18	-20518A	170	-20618A	170
19	-20519A	170	-20619A	170
20	-20520A	170	-20620A	170
21	-20521A	195	-20621A	190
22	-20522A	195	-20622A	190
23	-20523A	220	-20623A	215
24	-20524A	220	-20624A	215
25	-20525A	220	-20625A	215
26	-20526A	240	-20626A	230
27	-20527A	240	-20627A	230
28	-20528A	240	-20628A	230
29	-20529A	260	-20629A	255
30	-20530A	260	-20630A	255
31	-20531A	275	-20631A	265
32	-20532A	275	-20632A	265

1000V Insulated Bi-Hex Sockets

- Made of high-quality CrV steel, industrial grade 
- 1000V, VDE authenticated



1/2" Sq. Dr.		Order Code	Size	Overall Length (mm)	Weight (g)
TFNS04		-30010A	10	55	75
		-30011A	11	55	75
		-30012A	12	55	75
		-30013A	13	55	77
		-30014A	14	55	77
		-30015A	15	55	90
		-30016A	16	55	90
		-30017A	17	55	90
		-30018A	18	55	90
		-30019A	19	55	105
		-30020A	20	55	110
		-30021A	21	55	115
		-30022A	22	55	120
		-30023A	23	55	142
		-30024A	24	55	155
		-30025A	25	58	170
		-30026A	26	58	190
		-30027A	27	59	200
		-30028A	28	61	210
		-30029A	29	61	225
		-30030A	30	61	235
		-30032A	32	61	275

3/8" Sq. Dr.

Order Code	Size	Overall Length (mm)	Weight (g)
TFNS04			
-20008A	8	44	34
-20009A	9	44	34
-20010A	10	44	47
-20011A	11	44	47
-20012A	12	44	47
-20013A	13	44	47
-20014A	14	44	47
-20015A	15	44	50
-20016A	16	44	55
-20017A	17	46	60
-20019A	19	46	65
-20020A	20	48	75

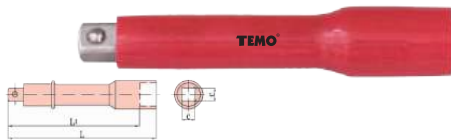
1/2" Dr. Insulated Ratchet Handle



Order Code	Overall Length (mm)	Weight (g)
TFNS05		
-33250A	250	215

Insulated Socket Extensions

- Made of high-quality CrV steel, industrial grade
- 1000V, VDE authenticated



Order Code	Squre Drive	Length L1 (mm)	Length L2 (mm)	Weight (g)
TFNS05				
-24075A	3/8"	75	91	85
-24150A	3/8"	150	166	170
-34125A	1/2"	125	141	245
-34250A	1/2"	250	266	450

Insulated Double Ended Ratchet Spanners

- Made of high-quality CrV steel, industrial grade
- Two way ratchet operation, easy conversion
- 1000V, VDE authenticated



Order Code	Size (mm)	Overall Length (mm)	Weight (g)
TFNS05			
-01417C	14 x 17	280	390
-01719C	17 x 19	310	435
-01922C	19 x 22	345	505
-02224C	22 x 24	365	655

Insulated L Hex Wrenches

- Made of high-quality CrV steel, industrial grade
- 1000V, VDE authenticated



Order Code	Size (mm)	Overall Length (mm)	Weight (g)
TFNS05			
-70030H	3	59 x 25	7
-70040H	4	65 x 30	8
-70050H	5	79 x 32	12
-70060H	6	85 x 37	20
-70070H	7	88 x 43	30
-70080H	8	92 x 44	50
-70090H	9	97 x 44	60
-70100H	10	110 x 45	75
-70110H	11	119 x 48	95
-70120H	12	130 x 52	140

Insulated Offset Handles

- Made of high-quality CrV steel, industrial grade
- 1000V, VDE authenticated



Order Code	Squre Drive	Overall Length (mm)	Weight (g)
TFNS05			
-25200A	3/8"	200	305
-35230A	1/2"	230	410

Insulated T-Handles

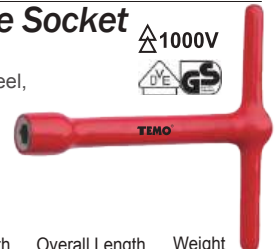
- Made of high-quality CrV steel, industrial grade
- 1000V, VDE authenticated



Order Code	Squre Drive	Handle Length (mm)	Overall Length (mm)	Weight (g)
TFNS05				
-26200B	3/8"	140	200	350
-36200B	1/2"	140	200	440

Insulated T-Handle Socket Wrenches

- Made of high-quality CrV steel, industrial grade
- 1000V, VDE authenticated



Order Code	Size (mm)	Handle Length (mm)	Overall Length (mm)	Weight (g)
TFNS05				
-07120B	7	120	120	95
-09130B	9	130	130	150
-11150B	11	140	150	180
-14170B	14	150	170	255
-17190B	17	170	190	390
-19210B	19	180	210	510

Insulated Hacksaws

- 1000V, VDE authenticated



Order Code	Type	Blade Length (mm)	Overall Length (mm)	Weight (g)
TFNS51				
-01150A	Small	150	260	272
-01300A	Standard	300	470	825

16Pc 3/8" Dr. Insulation Socket Set

- Set includes:
 - 1 x 3/8" dr. ratchet wrench: 200mm
 - 1 x 3/8" dr. T sliding bar: 200mm
 - 1 x 3/8" dr. socket extension: 150mm
 - 1 x 3/8" dr. socket extension: 250mm
 - 4 x 3/8" dr. hex bit sockets (60mm long): 4, 5, 6, 8mm
 - 8 x 3/8" dr. sockets: 8, 10, 12, 13, 14, 17, 19, 22mm
- 1000V, VDE authenticated



Order Code	Square Size
TFNS88	
-12016T	3/8"

20Pc 1/2" Dr. Insulation Socket Set

- Set includes:
 - 1 x 1/2" dr. ratchet wrench: 250mm
 - 1 x 1/2" dr. T sliding bar: 200mm
 - 1 x 1/2" dr. socket extension: 125mm
 - 1 x 1/2" dr. socket extension: 250mm
 - 5 x 1/2" dr. hex bit sockets (60mm long): 4, 5, 6, 8, 10mm
 - 11 x 1/2" dr. sockets: 10, 11, 12, 13, 14, 17, 19, 22, 24, 27, 32mm
- 1000V, VDE authenticated



Order Code	Square Size
TFNS88	
-13120T	1/2"

3Pc VDE Pliers Set

- Set includes:
 - 1 x 7"(180mm) combination pliers
 - 1 x 8"(200mm) long nose pliers
 - 1 x 6"(150mm) diagonal pliers
- 1000V, VDE authenticated
- Compliant with DIN EN/IEC 60900:2004



Order Code	Numbers of Pieces
TFNS88	
-20103T	3

4Pc VDE Pliers Set

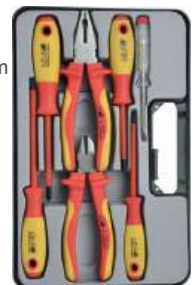
- Set includes:
 - 1 x 7"(180mm) combination pliers
 - 1 x 8"(200mm) long nose pliers
 - 1 x 6"(150mm) diagonal pliers
 - 1 x 6"(150mm) wire stripping pliers
- 1000V, VDE authenticated
- Compliant with DIN EN/IEC 60900:2004



Order Code	Numbers of Pieces
TFNS88	
-20104T	4

7Pc VDE Insulation Tool Set

- Set includes:
 - 1 x 7"(180mm) combination pliers
 - 1 x 6"(150mm) diagonal pliers
 - 1 x mains tester: 120V / 250V
 - 4 x screwdrivers:
 - ⊖ Slotted: 4.0x100mm; 5.5x125mm
 - ⊕ Phillips: PH1x80mm; PH2x100mm
- 1000V, VDE authenticated
- Compliant with DIN EN/IEC 60900:2004



Order Code	Numbers of Pieces
TFNS88	
-20107T	7

9Pc VDE Insulation Tool Set

- Set includes:
 - 1 x 7"(180mm) combination pliers
 - 1 x 8"(200mm) long nose pliers
 - 1 x 6"(150mm) diagonal pliers
 - 1 x mains tester: 120V / 250V
 - 5 x screwdrivers:
 - ⊖ Slotted: 2.5x75mm; 4.0x100mm; 5.5x125mm
 - ⊕ Phillips: PH1x80mm; PH2x100mm
- 1000V, VDE authenticated
- Compliant with DIN EN/IEC 60900:2004



Order Code	Numbers of Pieces
TFNS88	
-20109T	9

10Pc VDE Insulation Tool Set

- Set includes:
 - 1 x 7"(180mm) combination pliers
 - 1 x 6"(150mm) diagonal pliers
 - 1 x mains tester: 120V / 250V
 - 7 x screwdrivers:
 - ⊖ Slotted: 2.5x75mm; 3.0x100mm; 4.0x100mm; 5.5x125mm
 - ⊕ Phillips: PH0x60mm; PH1x80mm; PH2x100mm
- 1000V, VDE authenticated
- Compliant with DIN EN/IEC 60900:2004



Order Code	Numbers of Pieces	
TFNS88		
-20110T	10	

11Pc VDE Insulation Tool Set - Zipped Bag

- Set includes:
 - 1 x 7"(180mm) combination pliers
 - 1 x 8"(200mm) long nose pliers
 - 1 x 6"(150mm) diagonal pliers
 - 1 x electrician knife
 - 1 x electrician scissors
 - 1 x mains tester: 120V / 250V
 - 5 x screwdrivers:
 - ⊖ Slotted: 2.5x75mm; 4.0x100mm; 5.5x125mm
 - ⊕ Phillips: PH1x80mm; PH2x100mm
- 1000V, VDE authenticated
- Compliant with DIN EN/IEC 60900:2004



Order Code	Numbers of Pieces
TFNS88	
-20111T	11

19Pc VDE Insulation Tool Set

- Set includes:
 - 1 x 7"(180mm) combination pliers
 - 1 x 8"(200mm) long nose pliers
 - 1 x 6"(150mm) diagonal pliers
 - 1 x 6"(150mm) wire stripping pliers
 - 1 x mains tester: 120V / 250V
 - 2 x insulation tapes
 - 4 x cabinet keys:
 - (square hole: 6 x 100mm; square hole: 8 x 100mm)
 - triangular hole: 9 x 100mm; round hole: 5.3 x 100mm)
 - 8 x screwdrivers:
 - ⊖ Slotted: 2.5x75mm; 3.0x100mm; 4.0x100mm; 5.5x125mm; 6.5x150mm; 8.5x175mm
 - ⊕ Phillips: PH0x60mm; PH1x80mm
- 1000V, VDE authenticated
- Compliant with DIN EN/IEC 60900:2004



Order Code	Numbers of Pieces
TFNS88	
-20119A	19

7Pc VDE Insulated Screwdriver Sets



- 1000V, VDE authenticated
- Compliant with DIN EN/IEC 60900:2004

Type I



Type II



Type III



Type IV



Order Code	Type	Set Contents
TFNS88		
-21107T	I	⊖ Slotted: 4.0x100mm, 5.5x125mm, 6.5x150mm ⊕ Phillips: PH0x60mm, PH1x80mm, PH2x100mm 1 Mains Tester: 120V / 125V
-21207T	II	⊖ Slotted: 3.5x75mm, 4.0x100mm, 5.5x125mm, 6.5x150mm ⊕ Phillips: PH0x60mm, PH1x80mm, PH2x100mm
-21307T	III	⊖ Slotted: 3.5x75mm, 4.0x100mm, 5.5x125mm, 6.5x150mm ⊕ Phillips: PH0x60mm, PH1x80mm, PH2x100mm
-21407T	IV	⊖ Slotted: 3.5x75mm, 4.0x100mm, 5.5x125mm, 6.5x150mm ⊕ Phillips: PH0x60mm, PH1x80mm, PH2x100mm

Safety Tools

- Safety tools (non-sparking tools) are used when the job or environment presents a high risk of fire or explosion. For this reason, safety tools are used in a wide range of commercial industries, most significantly in sectors that process flammable chemicals, materials, or gases, such as hydrogen
- Safety tools are made from metals that only produce a cool or low energy spark. These include brass and bronze as well as copper-based alloys such as aluminum bronze, beryllium bronze, with copper being the primary component
- Aluminum bronze: hardness 25-30HRC; tensile strength 782-989N/mm²; extensibility $\epsilon > 5\%$; elasticity limit 450-550N/mm²; magnetic 1.2
- Beryllium bronze: hardness 35-40HRC; tensile strength 1117-1326N/mm²; extensibility $\epsilon > 1\%$; elasticity limit 840-880N/mm²; magnetic 0
- Beryllium bronze has better chemical and physical properties than aluminum bronze, so beryllium bronze tools are used for the places where demanding higher explosion proof ratings
- Phosphor bronze: lower hardness than beryllium bronze, non-sparking and non-magnetic
- These days the safety tools are widely used in many industries or working sites such as chemical, power energy, petro refine, oil and gas, pipeline, drilling platform, fuel service, varnishing, armed forces, army, mining, shipbuilding, aviation, and fire department etc.

Safety Combination Pliers

- Die forged
- Comply with ISO5746



Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code TFSF10	Weight (g)	Order Code TFSF10	Weight (g)
150	-00150B	180	-00150A	165
175	-00175B	355	-00175A	330
200	-00200B	465	-00200A	435
250	-00250B	550	-00250A	500

Safety Snipe Nose Pliers

- Die forged
- Comply with ISO5745



Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code TFSF11	Weight (g)	Order Code TFSF11	Weight (g)
150	-00150B	190	-00150A	170
200	-00200B	335	-00200A	300

Safety Diagonal Nose Pliers

- Die forged
- Comply with ISO5745



Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code TFSF12	Weight (g)	Order Code TFSF12	Weight (g)
150	-00150B	245	-00150A	225
200	-00200B	410	-00200A	365

Safety Flat Nose Pliers

- Die forged
- Comply with ISO5745



Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code TFSF14	Weight (g)	Order Code TFSF14	Weight (g)
150	-00150B	200	-00150A	150
200	-00200B	281	-00200A	257

Safety Bent Nose Pliers

- Die forged
- Comply with ISO5745



Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code TFSF11	Weight (g)	Order Code TFSF11	Weight (g)
150	-02150B	190	-02150A	170

Safety Slip Joint Pliers

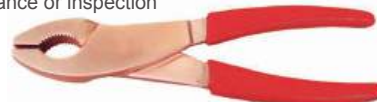
- Commonly used to remove hose clamps and grip small nuts and bolts
- 2-position adjustable jaws
- Die forged



Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code TFSF15	Weight (g)	Order Code TFSF15	Weight (g)
150	-01150B	175	-01150A	165
200	-01200B	355	-01200A	330

Safety Gas Pliers

- Used to clamp or hold cylindrical metallic parts i.e. gas pipe maintenance or inspection
- Die forged



Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code TFSF15	Weight (g)	Order Code TFSF15	Weight (g)
200	-02200B	350	-02200A	315

Safety Carpenter's Pincers

- Remove objects (typically nails) out of a material
- Grasp, cut and pull an object
- Die forged
- Comply with ISO9243



Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code TFSF15	Weight (g)	Order Code TFSF15	Weight (g)
200	-03200B	325	-03200A	300

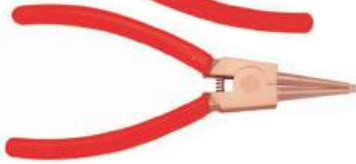
Safety Circlip Pliers

- Die forged
- Comply with DIN5254

Internal



External



Type	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code	Weight (g)	Order Code	Weight (g)
Internal	200	-01200B	290	-01200A	265
	250	-01250B	415	-01250A	380
External	200	-02200B	290	-02200A	265
	250	-02250B	415	-02250A	380

Safety End Wire Strippers

- For stripping insulating material away from conducting metal wires for wire ranging between 0.5 - 2.25mm²
- Die forged



Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code	Weight (g)	Order Code	Weight (g)
170	-00170B	225	-00170A	205

Safety Wire Ligature Cutters

- Designed to cut soft wires, elastic ligatures and pins



Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code	Weight (g)	Order Code	Weight (g)
150	-01150B	190	-01150A	175

Mini Safety Electronics Diagonal Cutters

- Particularly suitable for cutting wires, electronic foot trimming, plastic products, and small metal wires
- Repair for the electronics industry, jewelry processing, and model making



Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code	Weight (g)	Order Code	Weight (g)
125	-05125B	60	-05125A	50

Safety Wire Crimping / Stripping / Cutting Pliers

- Crimping capacity: 0.5 - 1mm², 1.5 - 2.5mm², 4.0 - 6.0mm²
- Stripping/Cutting capacity: 0.75 - 6.0mm²
- Screw cutting capacity: M2.6 - M5
- Die forged



Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code	Weight (g)	Order Code	Weight (g)
200	-00200B	225	-00200A	205

Safety Wire Strippers

- Die forged



Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code	Weight (g)	Order Code	Weight (g)
160	-03160B	120	-03160A	110

Safety Grip Wrenches

- Die forged



Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code	Weight (g)	Order Code	Weight (g)
225	-02225B	480	-02225A	455

Safety Hacksaws

- Precision casting



Size (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code	Weight (g)	Order Code	Weight (g)
300	470	-10300B	720	-10300A	650

12" Safety Hacksaw Blade

- Cold rolled
- Minimum order quantity: 1pc



Order Code	Size (mm)	Overall Length (mm)	Weight (g)
-17300B	300	470	32

Safety Slotted Screwdrivers

- Die forged
- Comply with ISO2380



Size (mm)	Blade Length (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF30	Weight (g)	Order Code TFSF30	Weight (g)
3	50	134	-10010B	35	-10010A	33
4.5	50	134	-10020B	43	-10020A	40
3	75	159	-10030B	35	-10030A	32
4	75	159	-10040B	45	-10040A	42
5	75	180	-10050B	70	-10050A	65
4	100	184	-10060B	45	-10060A	42
5	100	205	-10070B	75	-10070A	70
6	100	215	-10080B	85	-10080A	80
6	125	240	-10090B	100	-10090A	95
6	150	265	-10100B	110	-10100A	105
7	150	265	-10110B	125	-10110A	120
8	150	277	-10120B	140	-10120A	135
8	200	327	-10130B	165	-10130A	155
9	250	377	-10140B	185	-10140A	175
11	250	377	-10150B	260	-10150A	245
10	300	427	-10160B	245	-10160A	230
11	300	427	-10170B	290	-10170A	275
11	350	477	-10180B	320	-10180A	300
12	400	550	-10190B	450	-10190A	430

Safety Phillips Screwdrivers

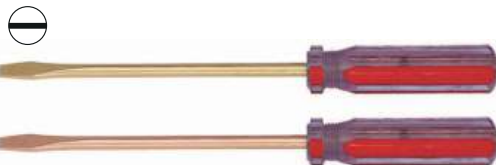
- Die forged
- Comply with ISO8764



Size	Blade Length (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF30	Weight (g)	Order Code TFSF31	Weight (g)
PH0	50	134	-11010B	35	-11010A	32
PH1	75	159	-11020B	70	-11020A	63
PH1	100	205	-11030B	75	-11030A	70
PH2	125	240	-11040B	100	-11040A	95
PH2	150	265	-11050B	110	-11050A	105
PH3	200	327	-11060B	165	-11060A	155
PH3	250	377	-11070B	185	-11070A	170
PH4	300	427	-11080B	245	-11080A	230
PH4	350	477	-11090B	270	-11090A	255
PH4	400	550	-11100B	295	-11100A	280
PH4	450	600	-11110B	320	-11110A	300

Safety Go-through Flared Screwdrivers

- Go-through design for striking
- Die forged



Safety Electricians Parallel Tipped Screwdrivers

- Die forged



Blade Width (mm)	Blade Thickness (mm)	Blade Length (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
				Order Code TFSF30	Weight (g)	Order Code TFSF30	Weight (g)
3	0.4	50	134	-14010B	37	-14010A	35
4	0.6	100	159	-14060B	47	-14060A	45
6	0.8	100	215	-14080B	95	-14080A	90
8	1.0	150	277	-14120B	145	-14120A	135
10	1.3	200	327	-14155B	230	-14155A	210

Safety PZ Screwdrivers

- Die forged



Size	Blade Length (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF30	Weight (g)	Order Code TFSF30	Weight (g)
No.0	50	134	-13000B	35	-13000A	33
No.1	75	159	-13010B	45	-13010A	42
No.2	100	215	-13020B	85	-13020A	80
No.3	150	277	-13030B	145	-13030A	135
No.4	200	327	-13040B	230	-13040A	210

Safety Torx Screwdrivers

- Die forged
- Comply with ISO8764



Size	Blade Length (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF30	Weight (g)	Order Code TFSF30	Weight (g)
T10	75	180	-12010B	70	-12010A	63
T15	75	180	-12015B	70	-12015A	63
T20	100	215	-12020B	100	-12020A	95
T25	125	240	-12025B	105	-12025A	100
T30	150	265	-12030B	110	-12030A	100
T40	200	327	-12040B	165	-12040A	155
T45	250	377	-12045B	185	-12045A	175
T50	300	427	-12050B	205	-12050A	195
T55	350	500	-12055B	245	-12055A	225
T60	400	550	-12060B	280	-12060A	255

Blade Width (mm)	Blade Thickness (mm)	Blade Length (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
				Order Code TFSF30	Weight (g)	Order Code TFSF30	Weight (g)
3	0.5	50	108	-50010B	35	-50010A	32
3	0.6	75	133	-50030B	48	-50030A	44
4	0.8	75	153	-50040B	50	-50040A	45
5	1.0	75	153	-50050B	51	-50050A	46
4	0.8	100	178	-50060B	60	-50060A	55
5	1.0	100	178	-50070B	71	-50070A	65
6	1.1	100	193	-50080B	77	-50080A	70
7	1.2	150	243	-50100B	115	-50100A	105
8	1.2	200	305	-50130B	197	-50130A	180
9	1.6	250	355	-50140B	221	-50140A	202
10	1.6	300	420	-50160B	304	-50160A	278
11	1.8	350	470	-50180B	365	-50180A	335

Safety Open Ended Slogging Wrenches

- Die forged
- Comply with DIN133



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF60	Weight (g)	Order Code TFSF60	Weight (g)
17	125	-10017B	150	-10017A	135
18	125	-10018B	150	-10018A	135
19	125	-10019B	150	-10019A	135
22	135	-10022B	195	-10022A	175
24	150	-10024B	245	-10024A	220
27	165	-10027B	335	-10027A	300
28	175	-10028B	385	-10028A	350
30	180	-10030B	435	-10030A	390
32	190	-10032B	515	-10032A	460
36	210	-10036B	725	-10036A	655
41	230	-10041B	955	-10041A	860
46	240	-10046B	1225	-10046A	1100
50	255	-10050B	1560	-10050A	1420
55	272	-10055B	1850	-10055A	1680
56	305	-10056B	2025	-10056A	1830
60	290	-10060B	2190	-10060A	1970
63	335	-10063B	3060	-10063A	2780
65	307	-10065B	3060	-10065A	2780
70	325	-10070B	4030	-10070A	3660
75	343	-10075B	4200	-10075A	3800
76	375	-10076B	4660	-10076A	4030
80	360	-10080B	5650	-10080A	5130
85	380	-10085B	6000	-10085A	5400
90	400	-10090B	7800	-10090A	7050
95	400	-10095B	7730	-10095A	7000
100	430	-10100B	11600	-10100A	10500
110	465	-10110B	13500	-10110A	12000
120	530	-10120B	17358	-10120A	15780
130	560	-10130B	19700	-10130A	17910
140	630	-10140B	25560	-10140A	23236
150	630	-10150B	25560	-10150A	23236

Safety Ring Slogging Wrenches

- Die forged
- Comply with DIN7444



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF61	Weight (g)	Order Code TFSF61	Weight (g)
17	165	-10017B	210	-10017A	190
19	165	-10019B	200	-10019A	180
22	165	-10022B	245	-10022A	220
24	165	-10024B	235	-10024A	210
27	175	-10027B	350	-10027A	315
30	185	-10030B	475	-10030A	430
32	185	-10032B	465	-10032A	420
34	200	-10034B	540	-10034A	490
36	200	-10036B	580	-10036A	520
38	215	-10038B	680	-10038A	620
41	225	-10041B	755	-10041A	680
46	235	-10046B	990	-10046A	890
50	250	-10050B	1145	-10050A	1030
55	265	-10055B	1440	-10055A	1300
60	274	-10060B	1620	-10060A	1450
65	298	-10065B	1995	-10065A	1800
70	320	-10070B	2435	-10070A	2200
75	326	-10075B	3010	-10075A	2720
80	350	-10080B	3600	-10080A	3250
85	355	-10085B	4330	-10085A	3915
90	390	-10090B	5200	-10090A	4700
95	390	-10095B	5450	-10095A	4920
100	420	-10100B	6750	-10100A	6100
105	420	-10105B	7000	-10105A	6320
110	450	-10110B	9130	-10110A	8250
120	480	-10120B	11000	-10120A	9930
130	510	-10130B	12610	-10130A	11400
140	520	-10140B	13000	-10140A	11750
150	565	-10150B	14500	-10150A	13100

Safety Angled Open Jaw Slogging Wrenches

- Die forged



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF60	Weight (g)	Order Code TFSF60	Weight (g)
17	140	-11017B	155	-11017A	140
19	140	-11019B	155	-11019A	140
22	150	-11022B	190	-11022A	170
24	150	-11024B	245	-11024A	220
27	175	-11027B	420	-11027A	380
30	190	-11030B	480	-11030A	440
32	190	-11032B	480	-11032A	440
34	210	-11034B	680	-11034A	620
36	210	-11036B	680	-11036A	620
38	230	-11038B	980	-11038A	800
41	230	-11041B	1050	-11041A	860
46	250	-11046B	1270	-11046A	1150
50	275	-11050B	1380	-11050A	1250
55	305	-11055B	1780	-11055A	1620
60	315	-11060B	2560	-11060A	2350
65	335	-11065B	3000	-11065A	2750

Safety Angled Ring Slogging Wrenches

- Die forged



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF61	Weight (g)	Order Code TFSF61	Weight (g)
24	160	-11024B	280	-11024A	240
27	175	-11027B	370	-11027A	335
30	190	-11030B	525	-11030A	475
32	190	-11032B	500	-11032A	450
36	210	-11036B	630	-11036A	570
41	225	-11041B	750	-11041A	650
46	240	-11046B	1160	-11046A	1030
50	255	-11050B	1240	-11050A	1100
55	270	-11055B	1450	-11055A	1285
60	285	-11060B	1820	-11060A	1640
65	300	-11065B	2645	-11065A	2390
70	320	-11070B	2960	-11070A	2675

Safety Offset Ring Slogging Wrenches

- Die forged



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF61	Weight (g)	Order Code TFSF61	Weight (g)
24	160	-12024B	370	-12024A	335
27	180	-12027B	475	-12027A	430
30	200	-12030B	615	-12030A	555
32	200	-12032B	615	-12032A	555
36	220	-12036B	825	-12036A	745
41	240	-12041B	950	-12041A	860
46	250	-12046B	1330	-12046A	1200
50	270	-12050B	1650	-12050A	1450
55	295	-12055B	2000	-12055A	1800
60	317	-12060B	2430	-12060A	2200
65	330	-12065B	2750	-12065A	2490
70	350	-12070B	3385	-12070A	3060
75	370	-12075B	4655	-12075A	4205
80	385	-12080B	5020	-12080A	4540

Safety Combination Spanners

- Die forged
- Comply with DIN3113



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF52	Weight (g)	Order Code TFSF52	Weight (g)
6	105	-10006B	22	-10006A	20
7	105	-10007B	37	-10007A	34
8	120	-10008B	37	-10008A	34
9	120	-10009B	55	-10009A	50
10	135	-10010B	55	-10010A	50
11	135	-10011B	75	-10011A	75
12	150	-10012B	75	-10012A	70
13	150	-10013B	122	-10013A	110
14	175	-10014B	122	-10014A	110
15	175	-10015B	160	-10015A	145
16	195	-10016B	155	-10016A	140
17	195	-10017B	155	-10017A	140
18	215	-10018B	210	-10018A	190
19	215	-10019B	210	-10019A	190
20	230	-10020B	225	-10020A	200
21	230	-10021B	225	-10021A	200
22	245	-10022B	250	-10022A	220
23	245	-10023B	265	-10023A	233
24	265	-10024B	260	-10024A	230
25	265	-10025B	260	-10025A	230
26	290	-10026B	420	-10026A	380
27	290	-10027B	420	-10027A	380
30	320	-10030B	560	-10030A	500
32	340	-10032B	670	-10032A	600
34	360	-10034B	850	-10034A	750
35	360	-10035B	890	-10035A	800
36	360	-10036B	890	-10036A	800
38	430	-10038B	1440	-10038A	1300
41	430	-10041B	1440	-10041A	1300
46	480	-10046B	1890	-10046A	1700
50	520	-10050B	2220	-10050A	2000
55	560	-10055B	2460	-10055A	2230
60	595	-10060B	3300	-10060A	2950
65	595	-10065B	3250	-10065A	2900
70	630	-10070B	4550	-10070A	4100

Safety Double Open Ended Spanners

- Die forged
- Comply with DIN895



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF51	Weight (g)	Order Code TFSF51	Weight (g)
5.5 x 7	90	-10010B	23	-10010A	20
6 x 7	92	-10020B	25	-10020A	22
8 x 9	98	-10030B	28	-10030A	25
9 x 10	105	-10040B	34	-10040A	31
10 x 11	115	-10050B	52	-10050A	47
10 x 12	120	-10060B	60	-10060A	55
11 x 13	126	-10070B	68	-10070A	62
12 x 13	128	-10080B	73	-10080A	67
12 x 14	130	-10090B	75	-10090A	69
13 x 17	140	-10100B	110	-10100A	100
14 x 15	143	-10110B	115	-10110A	105
14 x 17	150	-10120B	120	-10120A	110
16 x 17	157	-10130B	130	-10130A	120
17 x 19	170	-10140B	150	-10140A	135
18 x 19	179	-10150B	200	-10150A	180
19 x 21	182	-10160B	210	-10160A	190
19 x 22	185	-10170B	220	-10170A	200
19 x 24	190	-10180B	235	-10180A	210
20 x 22	195	-10190B	250	-10190A	225
21 x 23	200	-10200B	270	-10200A	235
22 x 24	210	-10210B	312	-10210A	285
24 x 26	225	-10220B	330	-10220A	302
24 x 27	230	-10230B	345	-10230A	310
24 x 30	233	-10240B	365	-10240A	330
25 x 28	236	-10250B	365	-10250A	330
27 x 30	250	-10260B	485	-10260A	430
27 x 32	255	-10270B	600	-10270A	549
30 x 32	265	-10280B	610	-10280A	540
30 x 36	270	-10290B	815	-10290A	730
32 x 36	290	-10300B	885	-10300A	800
36 x 41	335	-10310B	1350	-10310A	1210
41 x 46	355	-10320B	1590	-10320A	1430
46 x 50	370	-10330B	2050	-10330A	1850
50 x 55	385	-10340B	2160	-10340A	1950
50 x 60	400	-10350B	2488	-10350A	2275
55 x 60	415	-10360B	2700	-10360A	2450
60 x 65	435	-10370B	3950	-10370A	3600
65 x 70	460	-10380B	4540	-10380A	4150

Safety Single Open Jaw Spanners

- Die forged
- Comply with DIN894



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF50	Weight (g)	Order Code TFSF50	Weight (g)
8	95	-10008B	40	-10008A	35
10	100	-10010B	50	-10010A	45
12	110	-10012B	65	-10012A	60
14	140	-10014B	95	-10014A	85
17	160	-10017B	105	-10017A	95
19	170	-10019B	130	-10019A	115
22	195	-10022B	170	-10022A	152
24	220	-10024B	190	-10024A	170
27	240	-10027B	285	-10027A	260
30	260	-10030B	320	-10030A	290
32	275	-10032B	400	-10032A	365
34	290	-10034B	455	-10034A	410
36	310	-10036B	530	-10036A	480
41	345	-10041B	615	-10041A	555
46	375	-10046B	950	-10046A	860
50	410	-10050B	1080	-10050A	950
55	450	-10055B	1380	-10055A	1200
60	490	-10060B	1950	-10060A	1700
65	530	-10065B	2250	-10065A	2000
70	570	-10070B	2850	-10070A	2550
75	610	-10075B	3200	-10075A	2800

Safety Double Ring Ended Spanners

• Die forged



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF53	Weight (g)	Order Code TFSF55	Weight (g)
5.5 x 7	115	-10005B	22	-10005A	20
6 x 7	115	-10010B	25	-10010A	23
7 x 9	130	-10020B	50	-10020A	46
8 x 10	130	-10030B	55	-10030A	50
9 x 11	140	-10040B	70	-10040A	65
10 x 11	140	-10044B	80	-10044A	75
10 x 12	140	-10050B	85	-10050A	78
11 x 13	160	-10060B	120	-10060A	110
12 x 13	160	-10064B	120	-10064A	110
12 x 14	160	-10065B	151	-10065A	140
14 x 15	200	-10070B	205	-10070A	180
14 x 17	200	-10074B	205	-10074A	180
16 x 17	220	-10080B	220	-10080A	202
16 x 18	220	-10084B	220	-10084A	202
17 x 19	250	-10090B	225	-10090A	205
17 x 22	250	-10093B	290	-10093A	265
18 x 19	250	-10094B	295	-10094A	270
19 x 21	280	-10100B	310	-10100A	280
19 x 22	280	-10110B	310	-10110A	280
19 x 24	310	-10120B	355	-10120A	320
20 x 22	280	-10130B	310	-10130A	280
21 x 23	285	-10140B	405	-10140A	360
21 x 26	310	-10144B	450	-10144A	410
22 x 24	320	-10150B	455	-10150A	415
22 x 27	340	-10160B	520	-10160A	475
23 x 26	340	-10170B	520	-10170A	475
24 x 26	340	-10180B	520	-10180A	475
24 x 27	340	-10184B	520	-10184A	475
24 x 30	350	-10190B	550	-10190A	501
25 x 28	350	-10200B	580	-10200A	530
26 x 32	370	-10210B	640	-10210A	570
27 x 30	360	-10220B	705	-10220A	645
27 x 32	380	-10230B	705	-10230A	645
29 x 32	380	-10240B	805	-10240A	736
30 x 32	380	-10244B	805	-10244A	736
30 x 36	400	-10247B	1145	-10247A	1030
32 x 34	405	-10250B	1080	-10250A	980
32 x 35	405	-10260B	1145	-10260A	1030
32 x 36	405	-10270B	1145	-10270A	1030
34 x 36	420	-10280B	1165	-10280A	1065
41 x 46	470	-10300B	2077	-10300A	1905
46 x 50	490	-10310B	2530	-10310A	2315
50 x 55	510	-10320B	2580	-10320A	2360
50 x 60	520	-10330B	3002	-10330A	2745
55 x 60	530	-10340B	3203	-10340A	2905
60 x 70	560	-10350B	4105	-10350A	3605

Safety Single Ring Spanners

• Die forged



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF55	Weight (g)	Order Code TFSF55	Weight (g)
8	110	-10008B	40	-10008A	35
10	120	-10010B	50	-10010A	45
12	130	-10012B	65	-10012A	60
14	140	-10014B	90	-10014A	80
17	155	-10017B	105	-10017A	90
19	170	-10019B	130	-10019A	95
22	190	-10022B	175	-10022A	150
24	215	-10024B	220	-10024A	200
27	230	-10027B	270	-10027A	245
30	255	-10030B	370	-10030A	335
32	265	-10032B	425	-10032A	385
36	295	-10036B	550	-10036A	500
41	330	-10041B	825	-10041A	750
46	365	-10046B	1120	-10046A	1010
50	400	-10050B	1270	-10050A	1150
55	445	-10055B	1590	-10055A	1440
60	474	-10060B	1850	-10060A	1680
65	510	-10065B	2060	-10065A	1875
70	555	-10070B	2530	-10070A	2300
75	590	-10075B	2700	-10075A	2450

Safety Angled Ring Spanners

• Die forged

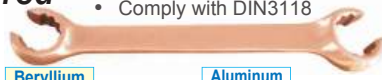
• Comply with JIS standards



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF55	Weight (g)	Order Code TFSF55	Weight (g)
10	119	-30010B	60	-30010A	50
12	151	-30012B	85	-30012A	75
14	151	-30014B	85	-30014A	75
16	174	-30016B	150	-30016A	130
17	174	-30017B	160	-30017A	145
18	207	-30018B	195	-30018A	190
19	207	-30019B	195	-30019A	190
20	207	-30020B	195	-30020A	190
21	207	-30021B	205	-30021A	180
22	207	-30022B	205	-30022A	180
23	250	-30023B	330	-30023A	295
24	250	-30024B	330	-30024A	295
25	250	-30025B	330	-30025A	295
26	250	-30026B	315	-30026A	275
27	250	-30027B	315	-30027A	275
28	250	-30028B	315	-30028A	275
29	295	-30029B	480	-30029A	430
30	295	-30030B	480	-30030A	430
31	295	-30031B	455	-30031A	410
32	295	-30032B	455	-30032A	410
34	307	-30034B	650	-30034A	580
35	307	-30035B	650	-30035A	580
36	307	-30036B	650	-30036A	580
38	340	-30038B	830	-30038A	740
41	340	-30041B	810	-30041A	720
42	340	-30042B	810	-30042A	720
46	370	-30046B	1230	-30046A	1100
50	400	-30050B	1400	-30050A	1255
55	430	-30055B	1930	-30055A	1720
60	450	-30060B	2100	-30060A	1900
65	470	-30065B	2360	-30065A	2135
70	490	-30070B	3080	-30070A	2800
75	510	-30075B	3600	-30075A	3250
80	530	-30080B	4460	-30080A	4030

Safety Flared Nut Ring Spanners

• Die forged
• Comply with DIN3118



Size (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF57	Weight (g)	Order Code TFSF57	Weight (g)
6 x 7	95	-03020B	17	-03020A	15
8 x 10	115	-03030B	32	-03030A	29
9 x 11	125	-03040B	37	-03040A	34
10 x 12	140	-03050B	55	-03050A	48
12 x 14	145	-03060B	70	-03060A	62
14 x 15	155	-03070B	90	-03070A	80
14 x 17	165	-03080B	100	-03080A	90
16 x 18	170	-03090B	127	-03090A	115
17 x 19	185	-03100B	132	-03100A	120
19 x 22	200	-03110B	180	-03110A	165
22 x 24	220	-03120B	240	-03120A	215
24 x 27	255	-03130B	320	-03130A	288
24 x 30	270	-03140B	375	-03140A	340
25 x 28	265	-03150B	380	-03150A	345
27 x 30	280	-03160B	430	-03160A	389
30 x 32	295	-03170B	498	-03170A	450
30 x 34	310	-03180B	588	-03180A	535
30 x 36	330	-03190B	657	-03190A	595
34 x 36	345	-03200B	758	-03200A	685
36 x 41	365	-03210B	935	-03210A	845

Safety Adjustable Wrenches

- Die forged



Size (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF59	Weight (g)	Order Code TFSF59	Weight (g)
100	13	-10100B	33	-10100A	30
150	18	-10150B	135	-10150A	120
200	24	-10200B	281	-10200A	255
250	30	-10250B	440	-10250A	401
300	36	-10300B	720	-10300A	655
375	46	-10375B	1410	-10375A	1290
450	55	-10450B	2261	-10450A	2065
600	65	-10600B	4705	-10600A	4301

Safety Open Ended Podger Spanners

- Die forged



Size (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF57	Weight (g)	Order Code TFSF57	Weight (g)
17	220	-20017B	125	-20017A	115
19	240	-20019B	160	-20019A	145
22	260	-20022B	210	-20022A	190
24	280	-20024B	265	-20024A	240
27	300	-20027B	350	-20027A	315
30	320	-20030B	445	-20030A	405
32	340	-20032B	530	-20032A	480
36	360	-20036B	720	-20036A	650
41	380	-20041B	1010	-20041A	910
46	400	-20046B	1115	-20046A	1010
50	420	-20050B	1165	-20050A	1055
55	450	-20055B	1485	-20055A	1345
60	480	-20060B	2015	-20060A	1825

Safety Double-Socket Reversible Ratchet Podger Spanners

- Die forged
- Double-sided for dual sizes



Size (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF48	Weight (g)	Order Code TFSF48	Weight (g)
14 & 17	280	-01417B	410	-01417A	370
17 & 19	310	-01719B	450	-01719A	410
19 & 22	345	-01922B	530	-01922A	480
22 & 24	365	-02224B	680	-02224A	620
24 & 27	380	-02427B	860	-02427A	780
27 & 30	400	-02730B	990	-02730A	900
30 & 32	400	-03032B	1025	-03032A	930
32 & 36	450	-03236B	1450	-03236A	1300
36 & 41	495	-03641B	1860	-03641A	1690

Safety Ratchet Wrenches

- Die forged
- Comply with DIN3122



Square Drive	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TMSF47	Weight (g)	Order Code TFSF47	Weight (g)
3/8"	200	-20200B	290	-20200A	260
1/2"	245	-30245B	690	-30245A	615
3/4"	320	-40320B	1570	-40320A	1430
1"	550	-50550B	3400	-50550A	3070

Safety Torque Wrenches

- Die forged



Square Drive	Torque (Nm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF01	Weight (g)	Order Code TFSF01	Weight (g)
3/8"	100	310	-20100B	600	-20100A	540
1/2"	300	490	-30300B	1340	-30300A	1210
3/4"	450	560	-40500B	2050	-40500A	1930

Safety Multi-purpose Drum Wrenches

- European design for opening and locking of different drum lids
- Precision casting



L (mm)	S1 (mm)	S2 (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF57	Weight (g)	Order Code TFSF57	Weight (g)
300	38	52	-00300B	830	-00300A	750

Safety Strap Wrenches

- High-strength nylon belt for tightening or loosening pipe fittings, shaft parts & tubes without damaging the workpieces
- Light weight, specially for narrow spaces
- Precision casting



L (mm)	L1 (mm)	B (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF58	Weight (g)	Order Code TFSF58	Weight (g)
300	425	30	-00300B	810	-00300A	735

Safety Hook Spanners

- Die forged
- For tightening and removing round nuts with notches or holes
- Comply with DIN1810

Fixed Type



Size (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF58	Weight (g)	Order Code TFSF58	Weight (g)
30 - 32	140	-10032B	63	-10032A	50
34 - 36	170	-10036B	95	-10036A	85
40 - 42	176	-10042B	105	-10042A	95
45 - 50	209	-10050B	160	-10050A	145
52 - 55	212	-10055B	170	-10055A	150
58 - 62	244	-10062B	225	-10062A	200
68 - 75	250	-10075B	265	-10075A	240
80 - 90	284	-10090B	375	-10090A	335
95 - 100	288	-10100B	415	-10100A	370
110 - 115	337	-10115B	770	-10115A	690
120 - 130	343	-10130B	770	-10130A	690
135 - 145	388	-10145B	1110	-10145A	1000

Adjustable Type



Size (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF58	Weight (g)	Order Code TFSF58	Weight (g)
19 - 50	162	-20050B	120	-20050A	110
32 - 75	205	-20075B	260	-20075A	235
50 - 120	288	-20120B	515	-20120A	460
115 - 170	310	-20170B	670	-20170A	600

Pin Type



Size (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF58	Weight (g)	Order Code TFSF58	Weight (g)
30 - 32	136	-30032B	63	-30032A	50
34 - 36	171	-30036B	95	-30036A	85
40 - 42	171	-30042B	105	-30042A	95
45 - 50	207	-30050B	160	-30050A	145
52 - 55	207	-30055B	170	-30055A	150
58 - 62	243	-30062B	225	-30062A	200
68 - 75	243	-30075B	265	-30075A	240
80 - 90	281	-30090B	375	-30090A	335
95 - 100	281	-30100B	415	-30100A	370
110 - 115	333	-30115B	770	-30115A	690

Safety F Spanners

- Arc heads, not easy to slip
- Knurled handle for firm grip
- Precision casting



Size (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF56	Weight (g)	Order Code TFSF56	Weight (g)
30	200	-00030B	265	-00030A	240
35	250	-00035B	375	-00035A	340
40	300	-00040B	450	-00040A	400
45	350	-00045B	585	-00045A	530
50	400	-00050B	740	-00050A	670
55	450	-00055B	830	-00055A	750
60	500	-00060B	1200	-00060A	1100
65	550	-00065B	1280	-00065A	1160
70	600	-00070B	1380	-00070A	1250
75	650	-00075B	1650	-00075A	1500
80	700	-00080B	1870	-00080A	1700
85	750	-00085B	2090	-00085A	1900
90	800	-00090B	2310	-00090A	2100
95	900	-00095B	2980	-00095A	2700
100	1000	-00100B	3330	-00100A	3010

Safety Rust Scrapers

- Suitable for removing rust and dirt etc.
- Die forged



Blade Length (mm)	Blade Width (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF62	Weight (g)	Order Code TFSF62	Weight (g)
200	30	325	-01200B	330	-01200A	300
300	30	430	-01300B	480	-01300A	440
350	35	490	-01350B	640	-01350A	580
350	50	500	-01351B	1020	-01351A	910
400	60	560	-01400B	1520	-01400A	1330

Safety Triangular Scrapers

- Precision casting
- Suitable for scraping, trimming and deburring metals, tubing and other materials



Blade Length (mm)	Blade Width (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF62	Weight (g)	Order Code TFSF62	Weight (g)
160	22	300	-11160B	245	-11160A	225
300	26	400	-11300B	645	-11300A	590

Safety Awls

- Suitable for piercing, widening holes or scoring and tracing on thick fabrics, woods, cardboards or paper
- Cold rolled



Overall Length (mm)	Blade Length (mm)	Blade Diameter (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF83	Weight (g)	Order Code TFSF83	Weight (g)
184	100	3	-10100B		-10100A	

Safety Scrapers

- Cold rolled
- Used for putty, paint, plaster processing
- Compound handles for comfortable grip



Blade Width (mm)	Blade Length (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code	Weight (g)	Order Code	Weight (g)
25	90	203	-01025B	75	-01025A	90
40	90	203	-01040B	95	-01040A	115
50	90	203	-01050B	105	-01050A	120
65	90	203	-01065B	115	-01065A	125

Safety Round Head Spreaders

- Cold rolled
- Used for removing dirt and rust of special areas
- Compound handles for comfortable grip



Blade Width (mm)	Blade Length (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code	Weight (g)	Order Code	Weight (g)
30	90	203	-10030B	85	-10030A	80
50	105	218	-10050B	115	-10050A	110
90	120	233	-10090B	160	-10090A	145

Safety Wood Handled Triangle Trowels

- Cold rolled
- Used for bricklaying purpose
- Durable wood handles



Blade Width (mm)	Blade Length (mm)	Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code	Weight (g)	Order Code	Weight (g)
130	215	335	-25130B	700	-25130A	620

Safety Stripping Knives

- Cold rolled
- Used for for splitting cables and stripping wires



Overall Length (mm)	Blade Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code	Weight (g)	Order Code	Weight (g)
185	80	-00080B	105	-00080A	75
250	145	-00145B	125	-00145A	95

Safety Locking Seizers

- Die forged
- Ideal for firmly clamping wires and small objects



Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code	Weight (g)	Order Code	Weight (g)
200	-10200B	488	-10200A	410

Safety Tin Snips

- Die forged
- Designed for cutting sheet metals with less effort



Overall Length (mm)	Blade Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code	Weight (g)	Order Code	Weight (g)
300	75	-02300B	488	-02300A	410

Safety Scissors - Easy Cut

- Die forged
- Long blades for effortless cutting on sheet metals



Overall Length (mm)	Blade Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code	Weight (g)	Order Code	Weight (g)
290	91	-03290B	235	-03290A	215
360	107	-03360B	900	-03360A	823

Safety Bent Blade Snips

- Die forged
- Perfect for cutting arches, bends and circular shapes in sheet metals



Overall Length (mm)	Beryllium Bronze		Aluminum Bronze	
	Order Code	Weight (g)	Order Code	Weight (g)
280	-04280B	500	-04280A	450

Safety Scissors

- Die forged



Overall Length (mm)	Blade Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code	Weight (g)	Order Code	Weight (g)
150	61	-01150B	110	-01150A	100

Safety Tailors Scissors

- Precision casting
- Used for cutting fabrics



Overall Length (mm)	Blade Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code	Weight (g)	Order Code	Weight (g)
225	98	-05225B	245	-05225A	210

Safety Pickaxes - Fiberglass Shafts

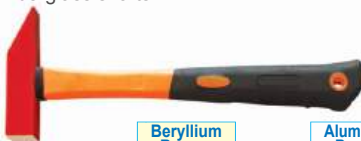
- Precision casting
- Ergonomic fiberglass shafts



Type	Size (mm)	Length (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
			Order Code TFSF65		Order Code TFSF65	
A	No.1	910	-20101B	2100	-20101A	2000
	No.2	910	-20102B	2950	-20102A	2800
	No.3	910	-20103B	3385	-20103A	3200
	No.4	910	-20104B	3715	-20104A	3500
B	No.1	910	-20201B	2100	-20201A	2000
	No.2	910	-20202B	2950	-20202A	2800
	No.3	910	-20203B	3385	-20203A	3200
	No.4	910	-20204B	4330	-20204A	4000

Safety Machinist's Hammers

- Precision casting
- For riveting, shaping & flattening of metal and leather
- Ergonomic fiberglass shafts



Head Weight (g)	Length (mm)	Weight (g)	Beryllium Bronze	Aluminum Bronze
			Order Code TFSF73	Order Code TFSF73
250	330	461	-10250B	-10250A
300	330	570	-10300B	-10300A

Safety Nylon Faced Hammers - Fiberglass Shafts

- Precision casting
- Ideal as a multi-purpose striking tool in most assembly applications with no risk of workpiece damage and marking free
- Ergonomic fiberglass shafts

Nylon Round Faces



Head Weight (g)	Length (mm)	Weight (g)	Beryllium Bronze	Aluminum Bronze
			Order Code TFSF69	Order Code TFSF69
800	340	950	-10800B	-10800A
1000	400	1200	-11000B	-11000A

Nylon Tipped



Size (g)	Length (mm)	Beryllium Bronze	Aluminum Bronze
		Order Code TFSF69	Order Code TFSF69
420	280	-20420B	-20420A
650	340	-20650B	-20650A

Safety Ball Pein Hammers - Fiberglass Shafts

- Precision casting
- Ergonomic fiberglass shafts



Head Weight (g)	Length (mm)	Weight (g)	Beryllium Bronze	Aluminum Bronze
			Order Code TFSF70	Order Code TFSF70
230	280	403	-00230B	-00230A
340	280	502	-00340B	-00340A
450	310	680	-00450B	-00450A
680	340	880	-00680B	-00680A
910	350	1100	-00910B	-00910A
1130	400	1470	-01130B	-01130A

Safety Claw Hammers - Fiberglass Shafts

- Precision casting
- Ergonomic fiberglass shafts



Head Weight (g)	Length (mm)	Weight (g)	Beryllium Bronze	Aluminum Bronze
			Order Code TFSF71	Order Code TFSF71
230	280	405	-00230B	-00230A
450	300	652	-00450B	-00450A
680	330	953	-00680B	-00680A
910	390	1205	-00910B	-00910A

Safety Claw Hammers - Fiberglass Shafts

- Precision casting
- Ergonomic fiberglass shafts



Head Weight (g)	Length (mm)	Weight (g)	Beryllium Bronze	Aluminum Bronze
			Order Code TFSF72	Order Code TFSF72
450	310	610	-00450B	-00450A
1000	400	1300	-01000B	-01000A
1400	400	1700	-01400B	-01400A
1500	400	1800	-01500B	-01500A
1800	400	2100	-01800B	-01800A
2000	400	2300	-02000B	-02000A
2200	400	2500	-02200B	-02200A
2500	900	3210	-02500B	-02500A
2700	900	3410	-02700B	-02700A
3000	900	3710	-03000B	-03000A
3600	900	4310	-03600B	-03600A
4000	900	4910	-04000B	-04000A
4500	900	5410	-04500B	-04500A
5000	900	5910	-05000B	-05000A
5400	900	6310	-05400B	-05400A
6400	900	7310	-06400B	-06400A
7200	900	8110	-07200B	-07200A
8000	900	8910	-08000B	-08000A
8200	900	9110	-07200B	-07200A
9100	900	10010	-09100B	-09100A
9900	900	10810	-09900B	-09900A

Safety Marbles Axes - Fiberglass Shafts

- Precision casting
- The blade end is purposed for chopping and the blunt end is strikable
- Ergonomic fiberglass shafts



Overall Length (mm)	Head Height (mm)	Blade Width (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF65	Weight (g)	Order Code TFSF65	Weight (g)
340	145	82	-01001B	980	-01001A	890

Safety Pointed Pick Fire Axes - Fiberglass Shafts

- Precision casting
- The blade end is purposed for chopping and the pick end is for demolition work
- Ergonomic fiberglass shafts



Overall Length (mm)	Head Height (mm)	Blade Width (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF65	Weight (g)	Order Code TFSF65	Weight (g)
340	190	98	-01002B	1425	-01002A	1300

Safety Fire Axes - Long Fiberglass Shafts

- Precision casting
- The blade end is purposed for chopping and the pick end is for demolition work
- Ergonomic fiberglass shafts



Overall Length (mm)	Blade Width (mm)	Head Weight (g)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF65	Weight (g)	Order Code TFSF65	Weight (g)
920	120	1800	-01015B	2650	-01015A	2650

Safety Square Files

- Die forged
- Ergonomic handles



L (inch)	L (mm)	B (mm)	Beryllium Bronze	
			Order Code TFSF63	Weight (g)
8	200	8	-02200B	130
10	250	10	-02250B	155
12	300	11	-02300B	202
14	350	12	-02350B	303

Safety 3 Square Files

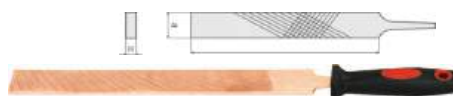
- Die forged
- Ergonomic handles



L (inch)	L (mm)	B (mm)	Beryllium Bronze	
			Order Code TFSF63	Weight (g)
8	200	12	-03200B	115
10	250	13	-03250B	125
12	300	14	-03300B	160
14	350	14	-03350B	205

Safety Flat Files

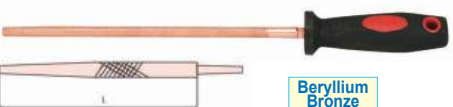
- Die forged
- Ergonomic handles



L (inch)	L (mm)	B (mm)	H (mm)	Weight (g)	Beryllium Bronze
					Order Code TFSF63
6	150	16	4.0	75	-00150B
8	200	21	4.5	160	-00200B
10	250	25	6.0	282	-00250B
12	300	30	6.5	455	-00300B
14	350	32	8.0	675	-00350B
16	400	32	9.5	925	-00400B

Safety Round Files

- Die forged
- Ergonomic handles



L (inch)	L (mm)	ø (mm)	Beryllium Bronze	
			Order Code TFSF63	Weight (g)
6	150	6.5	-06150B	45
8	200	7.5	-06200B	91
10	250	8.5	-06250B	122
12	300	9.5	-06300B	180
14	350	10.5	-06350B	250

Safety Half Round Files

- Die forged
- Ergonomic handles



L (inch)	L (mm)	B (mm)	H (mm)	Beryllium Bronze	
				Order Code TFSF63	Weight (g)
6	150	22	6	-05150B	105
8	200	23	7	-05200B	190
10	250	26	8	-05250B	255
12	300	28	9	-05300B	375
14	350	30	10	-05350B	565

5Pc 180mm Safety Needle File Set

- Flat
- Square
- △ Three Square
- Round
- ◐ Half Round

Length (mm)	Shank Dia. (mm)	Beryllium Bronze	
		Order Code TFSF63	Weight (g)
180	5	-80505B	140



Safety Bi-Hex Sockets

- Comply with DIN3120



1/4" Square Drive		Beryllium Bronze		Aluminum Bronze	
Size (mm)	Length (mm)	Order Code TFSF40	Weight (g)	Order Code TFSF40	Weight (g)
4	25	-11040B	17	-11040A	15
4.5	25	-11045B	17	-11045A	15
5	25	-11050B	17	-11050A	15
5.5	25	-11055B	17	-11055A	15
6	25	-11060B	17	-11060A	15
7	25	-11070B	17	-11070A	15
8	25	-11080B	17	-11080A	15
9	25	-11090B	21	-11090A	20
10	25	-11100B	22	-11100A	20
11	25	-11110B	27	-11110A	25
12	26	-11120B	30	-11120A	27
13	26	-11130B	30	-11130A	27

3/8" Square Drive		Beryllium Bronze		Aluminum Bronze	
Size (mm)	Length (mm)	Order Code TFSF40	Weight (g)	Order Code TFSF40	Weight (g)
6	28	-12060B	35	-12060A	32
7	28	-12070B	35	-12070A	32
8	28	-12080B	35	-12080A	32
9	28	-12090B	35	-12090A	32
10	32	-12100B	50	-12100A	45
11	32	-12110B	50	-12110A	45
12	32	-12120B	50	-12120A	45
13	32	-12130B	50	-12130A	45
14	32	-12140B	50	-12140A	45
15	32	-12150B	53	-12150A	48
16	32	-12160B	58	-12160A	53
17	32	-12170B	63	-12170A	57
19	32	-12190B	68	-12190A	62
20	32	-12200B	77	-12200A	70

1/2" Square Drive		Beryllium Bronze		Aluminum Bronze	
Size (mm)	Length (mm)	Order Code TFSF40	Weight (g)	Order Code TFSF40	Weight (g)
10	40	-13100B	78	-13100A	71
11	40	-13110B	79	-13110A	72
12	40	-13120B	79	-13120A	72
13	40	-13130B	80	-13130A	73
14	40	-13140B	80	-13140A	73
15	40	-13150B	82	-13150A	75
16	40	-13160B	85	-13160A	77
17	40	-13170B	88	-13170A	80
18	42	-13180B	90	-13180A	82
19	42	-13190B	110	-13190A	100
20	42	-13200B	120	-13200A	105
21	43	-13210B	125	-13210A	110
22	43	-13220B	130	-13220A	115

Transferred to right column...

...Continued from left column

1/2" Square Drive		Beryllium Bronze		Aluminum Bronze	
Size (mm)	Length (mm)	Order Code TFSF40	Weight (g)	Order Code TFSF40	Weight (g)
23	43	-13230B	150	-13230A	135
24	43	-13240B	165	-13240A	145
25	43	-13250B	180	-13250A	160
26	43	-13260B	200	-13260A	180
27	46	-13270B	215	-13270A	190
28	46	-13280B	225	-13280A	200
29	46	-13290B	235	-13290A	210
30	46	-13300B	250	-13300A	220
32	46	-13320B	295	-13320A	260

3/4" Square Drive		Beryllium Bronze		Aluminum Bronze	
Size (mm)	Length (mm)	Order Code TFSF40	Weight (g)	Order Code TFSF40	Weight (g)
17	50	-14170B	246	-14170A	225
19	50	-14190B	246	-14190A	225
21	55	-14210B	268	-14210A	245
22	55	-14220B	268	-14220A	245
23	55	-14230B	306	-14230A	280
24	55	-14240B	307	-14240A	280
26	55	-14260B	307	-14260A	280
27	55	-14270B	312	-14270A	285
28	55	-14280B	339	-14280A	310
29	55	-14290B	350	-14290A	320
30	60	-14300B	410	-14300A	370
31	60	-14310B	430	-14310A	380
32	60	-14320B	465	-14320A	410
34	60	-14340B	480	-14340A	440
36	60	-14360B	510	-14360A	465
38	60	-14380B	555	-14380A	510
41	65	-14410B	660	-14410A	640
46	65	-14460B	765	-14460A	690
50	70	-14500B	910	-14500A	825

1" Square Drive		Beryllium Bronze		Aluminum Bronze	
Size (mm)	Length (mm)	Order Code TFSF40	Weight (g)	Order Code TFSF40	Weight (g)
22	55	-15220B	361	-15220A	330
24	55	-15240B	372	-15240A	340
25	55	-15250B	377	-15250A	345
26	55	-15260B	383	-15260A	350
27	55	-15270B	394	-15270A	360
28	55	-15280B	397	-15280A	363
29	55	-15290B	399	-15290A	365
30	60	-15300B	443	-15300A	405
31	60	-15310B	448	-15310A	410
32	60	-15320B	481	-15320A	440
34	60	-15340B	497	-15340A	455
36	65	-15360B	550	-15360A	500
38	65	-15380B	620	-15380A	560
41	70	-15410B	690	-15410A	625
46	75	-15460B	850	-15460A	740
50	75	-15500B	850	-15500A	760
55	80	-15550B	1160	-15550A	1000
60	85	-15600B	1390	-15600A	1260
65	90	-15650B	1750	-15650A	1580
70	90	-15700B	2150	-15700A	1950
75	95	-15750B	2680	-15750A	2430
80	95	-15800B	3080	-15800A	2800

Safety Universal Joints

- Comply with DIN3123



Square Drive	Length (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF41		Order Code TFSF41	
1/2"	80	-30010B	186	-30010A	170
3/4"	110	-40010B	530	-40010A	480
1"	132	-50010B	1000	-50010A	900

Safety Extensions

- Comply with DIN3123



Square Drive	Length (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF43		Order Code TFSF43	
3/8"	75	-20075B	93	-20075A	80
3/8"	150	-20150B	185	-20150A	160
1/2"	100	-30100B	245	-30100A	225
1/2"	125	-30125B	260	-30125A	230
1/2"	200	-30200B	365	-30200A	330
1/2"	250	-30250B	470	-30250A	425
3/4"	200	-40200B	855	-40200A	770
1"	200	-50200B	1525	-50200A	1380

Safety Sliding T-Handles

- Comply with DIN3122



Square Drive	Length (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF46		Order Code TFSF46	
1/2"	250	-30250B	340	-30250A	310
3/4"	350	-40350B	1070	-40350A	960
3/4"	400	-40400B	1335	-40400A	1221
1"	400	-50400B	1620	-50400A	1481

Safety Offset Handles

- Die forged
- Comply with DIN3122



Square Drive	Length (mm)	Height (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
			Order Code TFSF44		Order Code TFSF44	
3/8"	200	50	-20200B	314	-20200A	287
1/2"	230	60	-30230B	410	-30230A	380
3/4"	280	75	-40280B	765	-40280A	699
1"	300	85	-50300B	1160	-50300A	1060

Safety Speed Handles

- Precision casting
- Comply with DIN3122



Square Drive	Length (mm)	Height (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
			Order Code TFSF45		Order Code TFSF45	
1/2"	390	96	-30390B	780	-30390A	700

Safety Pipe Benders

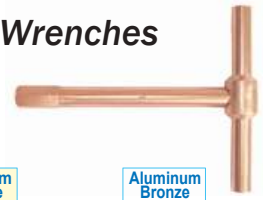
- Precision casting
- Can efficiently bend copper, brass, aluminum and thin stainless steel pipes etc.
- High visibility markings of 0-180° can avoid denting and collapsing your tubes



Order Code TFSF27	Pipe Capacity (mm)	Weight (g)
-10010A	6, 8, 10	420
-10012A	12	1500
-10014A	14	1800

T-Handled Hex Wrenches

- Forged



Size (mm)	Overall Length (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF49		Order Code TFSF49	
2	100	-20020B	55	-20020A	50
3	100	-20030B	55	-20030A	50
4	100	-20040B	75	-20040A	70
5	100	-20050B	85	-20050A	75
6	100	-20060B	100	-20060A	90
8	100	-20080B	100	-20080A	90
10	100	-20100B	150	-20100A	135

Safety Hex L-Wrenches

- Comply with ISO2936

Hex L-Wrenches

Ball Driver L-Wrenches



Size (mm)	Overall Length (mm)	Hex		Ball Driver	
		Beryllium Bronze	Aluminum Bronze	Beryllium Bronze	Aluminum Bronze
		Order Code TFSF49	Order Code TFSF49	Order Code TFSF49	Order Code TFSF49
2	50	-00020B	-00020A	-10020B	-10020A
3	63	-00030B	-00030A	-10030B	-10030A
4	70	-00040B	-00040A	-10040B	-10040A
5	80	-00050B	-00050A	-10050B	-10050A
6	90	-00060B	-00060A	-10060B	-10060A
7	95	-00070B	-00070A	-10070B	-10070A
8	100	-00080B	-00080A	-10080B	-10080A
9	106	-00090B	-00090A	-10090B	-10090A
10	112	-00100B	-00100A	-10100B	-10100A
11	118	-00110B	-00110A	-10110B	-10110A
12	125	-00120B	-00120A	-10120B	-10120A

Safety Water Pump Pliers

- Die forged
- Comply with DIN876



Length (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
	Order Code TFSF20		Order Code TFSF20	
150	-00150B	180	-00150A	160
250	-00250B	425	-00250A	370
300	-00300B	670	-00300A	600
350	-00350B	850	-00350A	770

Safety Pipe Cutters

- Precision casting
- For cutting the pipes and tubes



Pipe Capacity (Outer Dia.)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
	Order Code TFSF27		Order Code TFSF27	
10 - 50mm	-00050B	2210	-00050A	2010
10 - 75mm	-00075B	4070	-00075A	3700

Safety Pipe Wrenches

- Die forged



Length (mm)	Jaw Opening (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF25		Order Code TFSF25	
200	25	-00200B	380	-00200A	345
250	30	-00250B	580	-00250A	500
300	40	-00300B	750	-00300A	680
350	50	-00350B	1100	-00350A	1000
450	60	-00450B	1785	-00450A	1625
600	75	-00600B	3255	-00600A	2960
900	85	-00900B	6035	-00900A	5490
1200	110	-01200B	12280	-01200A	10870

Safety End Pipe Wrenches

- Die forged



Length (mm)	Jaw Opening (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF25		Order Code TFSF25	
200	34	-11200B	560	-11200A	510
250	48	-11250B	930	-11250A	840
300	50	-11300B	1470	-11300A	1330
375	60	-11375B	1780	-11375A	1610
450	76	-11450B	2650	-11450A	2400

Safety Offset Pipe Wrenches

- Die forged



Length (mm)	Jaw Opening (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF25		Order Code TFSF25	
200	34	-12200B	500	-12200A	450
250	48	-12250B	850	-12250A	780
300	50	-12300B	1200	-12300A	1090
375	60	-12375B	1950	-12375A	1770
450	76	-12450B	2730	-12450A	2480

Safety Hex Pipe Wrenches

- Die forged



Length (mm)	Jaw Opening (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF25		Order Code TFSF25	
250	30	-13250B	1250	-13250A	1130
350	50	-13350B	1785	-13350A	1620

Safety Offset Hex Pipe Wrenches

- Die forged



Length (mm)	Jaw Opening (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF25		Order Code TFSF25	
250	30	-14250B	1250	-14250A	1130
350	50	-14350B	1785	-14350A	1620

Safety Rapid Grip Pipe Wrenches

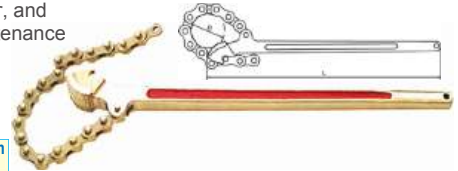
- Die forged
- Heel/hook jaw design aggressively grips the workpiece, allowing a single-hand operation



Length (mm)	Jaw Opening (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF25		Order Code TFSF25	
250	48	-15250B	980	-15250A	880
350	60	-15350B	1900	-15350A	1710

Light Duty Safety Chain Wrenches

- Precision casting
- Used to assemble or disassemble large metal pipe operations, necessary tools for pipe installation and repair, and maintenance



Order Code TFSF26	Length (mm)	Max. Clamping Size (mm)	Weight (kg)
-10100A	600	100	2.1
-10450A	1600	450	10.5

Heavy Duty Safety Chain Wrenches

- Die forged
- Ideal for tighten and loosen pipe connections in various applications



Order Code TFSF26	Length (mm)	Max. Clamping Size (mm)	Weight (kg)
-20100A	600	100	4.0
-20150A	600	150	4.7
-20200A	900	200	8.6
-20300A	900	300	9.8

Safety Blot Cutters

- Die forged
- Typically used for cutting bolts, chains, padlocks and wire ropes etc.
- Comply with ISO5749



Aluminum Bronze		
Order Code	Length (mm)	Weight (kg)
TFSF28		
-00250A	250	0.7
-00350A	350	1.8
-00450A	450	2.6
-00600A	600	3.1
-00900A	900	8.5

Safety Hand Pump

- Precision casting
- Suitable for pumping petrol, machine oil, diesel, kerosene, edible oil (not food grade) and other oils
- Light weight, easy to extract, easy to assemble
- Comply with ISO5749



Aluminum Bronze		
Order Code	Length (mm)	Weight (kg)
TFSF85		
-01350A	1350	5.7

Safety Chain Hoists

- Die forged

Aluminum Bronze			
Order Code	Capacity (T)	Lifting (m)	Weight (kg)
TFSF89			
-00005A	0.5	2.5	10.2
-00010A	1.0	2.5	13.6
-00020A	2.0	2.5	22.0
-00030A	3.0	3.0	23.6
-00050A	5.0	3.0	36.0
-00100A	10.0	3.0	68.5
-00160A	16.0	3.0	187.0



Safety Bench Vises with Swivel Bases

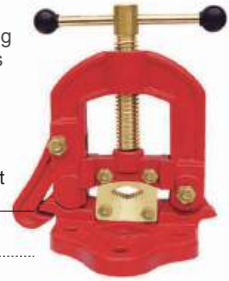
- Precision casting



Aluminum Bronze			
Order Code	Jaw Width (mm)	Jaw Opening (mm)	Weight (kg)
TFSF67			
-00090A	90	90	7.4
-00125A	125	125	16.8
-00150A	150	150	26.5
-00170A	170	170	27.4

Safety Pipe Vises

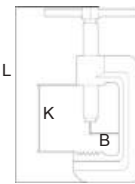
- Precision casting
- Specially designed for cutting and threading pipes. It holds the pipe well in place and is perfect for welding



Aluminum Bronze		
Order Code	Pipe Capacity (mm)	Weight (kg)
TFSF67		
-10060A	10 - 60	4.4
-10090A	10 - 90	9.4
-10115A	15 - 115	13.9
-10220A	30 - 220	27.8
-10300A	30 - 300	35.0

Safety G Clamps

- Die forged
- This heavy duty G clamp provides a maximum clamping force up to 10,000N



Aluminum Bronze				
Order Code	L (mm)	K (mm)	B (mm)	Weight (kg)
TFSF81				
-00210A	210	60	36	1.1
-00250A	250	80	36	1.3
-00290A	290	100	36	1.5
-00340A	340	150	50	2.0

Safety Pullers - 2 Jaws

- Die forged
- Widely used in petro-chemical, oil production, gas production, oil and gas pipelines, power generation, mining, plastics, chemical fiber and other industries

Aluminum Bronze			
Order Code	Spread (mm)	Reach (mm)	Weight (kg)
TFSF65			
-20100A	100	110	1.1
-20150A	150	180	2.2
-20200A	200	260	4.6
-20350A	350	450	8.8



Safety Pullers - 3 Jaws

- Die forged
- Widely used in petro-chemical, oil production, gas production, oil and gas pipelines, power generation, mining, plastics, chemical fiber and other industries

Aluminum Bronze			
Order Code	Spread (mm)	Reach (mm)	Weight (kg)
TFSF65			
-30100A	100	110	1.2
-30150A	150	180	2.5
-30200A	200	260	5.2
-30350A	350	450	9.7



Safety Air Chisels & Punches

- Die forged
- To be used with pneumatic tools

Tapered Punches

- Shank: hexagon, 10mm



Pointed Chisels

- Shank: round, 20mm or 30mm



Flat Punches

- Shank: hexagon, 10mm



Angled Spot Weld Breakers

- Shank: hexagon, 10mm



Ripping Chisels

- Shank: hexagon, 10mm



Claw Rippers

- Shank: hexagon, 10mm



Type	Size (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF80	Weight (g)	Order Code TFSF80	Weight (g)
Tapered Punches	125 x 12	-70101B	117	-70101A	102
Pointed Chisels	175 x 12	-70102B	168	-70102A	143
Flat Punches	300 x 20	-70201B	850	-70201A	775
Angled Spot Weld Breakers	455 x 30	-70202B	2880	-70202A	2630
Ripping Chisels	125 x 20 (Width)	-70301B	160	-70301A	141
Claw Rippers	175 x 20 (Width)	-70302B	210	-70302A	182
Pointed Chisels	125 x 20 (Width)	-70401B	152	-70401A	117
Flat Punches	175 x 20 (Width)	-70402B	190	-70402A	122
Angled Spot Weld Breakers	125 x 20 (Width)	-70501B	162	-70501A	142
Ripping Chisels	175 x 20 (Width)	-70502B	213	-70502A	183
Claw Rippers	125 x 20 (Width)	-70601B	127	-70601A	112
Pointed Chisels	175 x 20 (Width)	-70602B	178	-70602A	153

Safety Pointed Chisels

- Die forged



Shank Dia. (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF81	Weight (g)	Order Code TFSF81	Weight (g)
18	160	-01600B	290	-01600A	265
18	250	-02500B	470	-02500A	425
18	300	-03000B	600	-03000A	545
20	300	-03001B	700	-03001A	635
25	300	-03002B	1100	-03002A	995
18	400	-04000B	800	-04000A	725
20	400	-04001B	1000	-04001A	885

Safety Flat Chisels

- Die forged



Blade Width (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF80	Weight (g)	Order Code TFSF80	Weight (g)
22	150	-01500B	255	-01500A	230
22	200	-02000B	325	-02000A	295
24	250	-02500B	525	-02500A	480
25	300	-03000B	740	-03000A	675
27	400	-04000B	1155	-04000A	1050

Safety Cross Chisels

- Die forged



Length (mm)	Hex Shank Size (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF80	Weight (g)	Order Code TFSF80	Weight (g)
200	20	-10200B	475	-10200A	432

Safety Pin Punches

- Die forged



Tip Dia. (mm)	Shank Dia. (mm)	Length (mm)	Beryllium Bronze		Aluminum Bronze	
			Order Code TFSF81	Weight (g)	Order Code TFSF81	Weight (g)
5	11	150	-51150B	105	-51150A	95
6	12	150	-52150B	130	-52150A	115
7	13	150	-53150B	150	-53150A	135
8	14	150	-54150B	170	-54150A	150
10	16	175	-55175B	255	-55175A	230
12	18	175	-56175B	335	-56175A	300
13	29	255	-57255B	1180	-57255A	1060

Safety Round Mouth Shovels

- Cold rolled



Overall Length (mm)	Blade Width (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF86	Weight (g)	Order Code TFSF86	Weight (g)
1450	240	-01450B	1553	-01450A	1420

Safety Square Mouth Shovels

- Precision casting



Overall Length (mm)	Blade Width (mm)	Beryllium Bronze		Aluminum Bronze	
		Order Code TFSF86	Weight (g)	Order Code TFSF86	Weight (g)
1390	195	-11390B	3500	-11390A	3200
1440	175	-11440B	3700	-11440A	3480

Safety Wrecking Bars

- Die forged



Length (mm)	Diameter (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF85		Order Code TFSF85	
500	15	-00500B	738	-00500A	675
600	25	-00600B	2380	-00600A	2175
800	25	-00800B	3175	-00800A	2905
1000	30	-01000B	5595	-01000A	5115
1200	30	-01200B	6970	-01200A	6375
1500	30	-01500B	8665	-01500A	7925

Safety Wrecking & Pry Bars

Chisel & Point Crowbars

- Die forged



Length (mm)	Diameter (mm)	Flat End Width (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
			Order Code TFSF85		Order Code TFSF85	
500	15	15	-10500B	672	-10500A	615
500	19	19	-10501B	1093	-10501A	1001
500	20	20	-10502B	1148	-10502A	1052
500	23	23	-10503B	1481	-10503A	1355
600	25	25	-10600B	2132	-10600A	1950
800	23	23	-10800B	2530	-10800A	2293
1000	30	30	-11000B	5193	-11000A	4752

Hexagonal Pry Bars

- Precision casting



Length (mm)	Diameter (mm)	Hexagon Base-to-Base Distance (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
			Order Code TFSF85		Order Code TFSF85	
460	162	16	-60460B	890	-60460A	800
760	205	22	-60760B	3100	-60760A	2800
920	288	22	-60920B	3650	-60920A	3300

Safety Dividers

- Die forged



Opening (Dmax) (mm)	Leg Length (H) (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF83		Order Code TFSF83	
200	200	-00200B	170	-00200A	150
400	400	-00400B	400	-00400A	360

Safety L Scribes

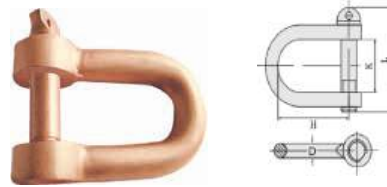
- Cold forged



Length (mm)	Diameter (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF83		Order Code TFSF83	
187 x 32	4	-10187B	15	-10187A	10
252 x 42	4	-10252B	20	-10252A	15

Safety D Shackles

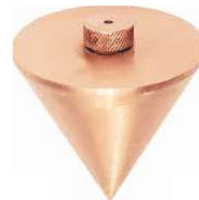
- Precision casting



Load Capacity (Ton)	D (mm)	K (mm)	L (mm)	H (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
					Order Code TFSF82		Order Code TFSF82	
1T	1/2	30	60	40	-00030B	135	-00030A	130
3T	3/4	37	99	78	-00037B	915	-00037A	830

Safety Plumb Bobs

- Forged



Height (mm)	Diameter (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
		Order Code TFSF83		Order Code TFSF83	
59	50	-20050B	275	-20050A	247

16Pc Safety Packing Tool Set

- Die forged
- Designed for installing or removing packing in the sealing processing
- Widely used in shipbuilding, machinery, oil and chemical industries



Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
Order Code TFSF88		Order Code TFSF88	
-90016B	900	-90016A	800

Safety Wheel Brush with Shank - Crimped Wire

- For applications including cleaning, polishing, deburring and surface preparation in a flammable and explosive places



Phosphorus bronze				
Order Code	Diameter (mm)	Thickness (mm)	Shank Diameter (mm)	Weight (g)
TFSF84				
-20075C	75	10	6	140

Safety Wheel Brush - Crimped Wire

- For applications including cleaning, polishing, deburring and surface preparation in a flammable and explosive places



Phosphorus bronze				
Order Code	Diameter (mm)	Thickness (mm)	Bore Diameter (mm)	Weight (g)
TFSF84				
-22125C	125	15	14	320

Safety Wheel Brush - Twist Knot Wire

- For applications including cleaning, polishing, deburring and surface preparation in a flammable and explosive places



Phosphorus bronze				
Order Code	Diameter (mm)	Thickness (mm)	Bore Diameter (mm)	Weight (g)
TFSF84				
-21125C	125	15	14	440

Safety Cup Brush - Crimped Wire

- For applications including cleaning, polishing, deburring and surface preparation in a flammable and explosive places



Phosphorus bronze				
Order Code	Diameter (mm)	Height (mm)	Bore Diameter (mm)	Weight (g)
TFSF84				
-25100C	100	30	14	480

Safety Cup Brush - Twist Knot Wire

- For applications including cleaning, polishing, deburring and surface preparation in a flammable and explosive places



Phosphorus bronze				
Order Code	Diameter (mm)	Height (mm)	Bore Diameter (mm)	Weight (g)
TFSF84				
-26100C	100	30	14	580

Safety End Brush - Crimped Wire

- For applications including cleaning, polishing, deburring and surface preparation in a flammable and explosive places



Phosphorus bronze				
Order Code	Diameter (mm)	Shank Length (mm)	Shank Diameter (mm)	Weight (g)
TFSF84				
-28026C	26	30	6	120

Safety Wooden Handled Long Brush - Round Head



Phosphorus bronze				
Order Code	Length x Width (mm)	Wire Length (mm)	Numbers of Columns x Rows	Weight (g)
TFSF84				
-09004C	290 x 29	28	4 x 16	115

Wooden Handled Safety Straight Back Brush



Phosphorus bronze				
Order Code	Length x Width (mm)	Wire Length (mm)	Numbers of Columns x Rows	Weight (g)
TFSF84				
-08006C	215 x 29	15	6 x 15	30

Safety Angled Handle Cleaning Brush



Phosphorus bronze				
Order Code	Overall Length (mm)	Wire Length (mm)	Numbers of Columns x Rows	Weight (g)
TFSF84				
-07103C	196	13	3 x 7	20

Wooden Handled Safety Hand Brush

- Used for rust removing and oil removal in flammable and explosive places, workpiece or equipment cleaning
- Brushed



Phosphorus bronze				
Order Code	Length x Width (mm)	Wire Length (mm)	Numbers of Columns x Rows	Weight (g)
TFSF84				
-10106C	205 x 48	41	6 x 16	260

Safety Scrub Brush

- Used for rust removing and oil removal in flammable and explosive places, workpiece or equipment cleaning
- Brushed



Phosphorus bronze				
Order Code	Length x Width (mm)	Wire Length (mm)	Numbers of Columns x Rows	Weight (g)
TFSF84				
-12006C	205 x 48	40	6 x 17	500

Safety Tube Brush

- Efficient cleaning and finishing of hard-to-reach areas such as internal diameters, crevices, threaded surfaces and other difficult-to-access areas

Phosphorus bronze				
Order Code	Diameter (mm)	Overall Length (mm)	Wire Length (mm)	Weight (g)
TFSF84				
-50320C	20	320	100	100

Safety Fire Buckets

- Cold rolled



Capacity (L)	Height (mm)	Order Code
10	250	-01010E
15	280	-01015E

Safety Long Nozzle Oil Cans

- Cold rolled



Capacity (L)	Height (mm)	Weight (g)	Order Code	Order Code
2	100	800	-07002B	-07002E

Safety Dustpans

- Cold rolled



Mouth Width (mm)	Depth (mm)	Height (mm)	Weight (g)	Order Code
130	150	20	130	-20130E
200	200	50	335	-20200E
250	270	50	635	-20250E

Safety Hand Shovels

- Cold rolled



Mouth Width (mm)	Overall Length (mm)	Weight (g)	Order Code
85	300	200	-23085E
110	300	230	-23110E

Safety Funnels

- Cold rolled



Diameter (mm)	Height (mm)	Weight (g)	Order Code
160	130	260	-10130E
160	150	280	-10150E

Safety Rules

- Die forged



Size (mm)	Beryllium Bronze	Weight (g)	Aluminum Bronze	Weight (g)
	Order Code		Order Code	
500	TFSF77	140	TFSF77	190
1000	-01005B	290	-01005A	390

Safety Vernier Caliper



Size (mm)	Graduation (mm)	Order Code	Weight (g)
0 - 150	0.02	-02006D	150

Safety Metric Feeler Gauge Set

- Die forged
- 13 blade metric set: 0.05 - 1.00mm



Numbers of Blades	Range (mm)	Blades Enclosed (mm)	Order Code	Weight (g)
13	0.05 - 1.00	0.05, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.60, 0.70, 0.80, 0.90 & 1.00	-10013D	70

9Pc 1/4" Dr. Safety Socket Set - Metric

- Die forged
- 1/4" sq. dr. spinner
- 1/4" sq. dr. sockets: 4, 5, 6, 7, 8, 9, 10, 11mm

Aluminum Bronze	
Order Code	Weight (g)
TFSF88	
-10009A	0.7



10Pc 3/8" Dr. Safety Socket Set - Metric

- Die forged
- 3/8" sq. dr. ratchet wrench: 200mm
- 3/8" sq. dr. socket extension: 75mm
- 3/8" sq. dr. sockets: 10, 11, 12, 13, 14, 17, 19mm
- 3/8" sq. dr. x 13/16" spark plug socket

Aluminum Bronze	
Order Code	Weight (g)
TFSF88	
-20010A	1.7



12Pc 1/2" Dr. Safety Socket Set - Metric

- Die forged
- 1/2" sq. dr. ratchet wrench: 245mm
- 1/2" sq. dr. swivel handle: 250mm
- 1/2" sq. dr. sockets: 8, 10, 11, 12, 14, 17, 19, 22, 24, 27mm

Aluminum Bronze	
Order Code	Weight (g)
TFSF88	
-30012A	3.2



20Pc 3/4" Dr. Safety Socket Set - Metric

- Die forged
- 3/4" sq. dr. ratchet wrench: 320mm
- 3/4" sq. dr. T sliding handle: 400mm
- 3/4" sq. dr. T socket extension: 200mm
- 3/4" sq. dr. sockets: 21, 22, 23, 24, 26, 27, 28, 29, 30, 31, 32, 34, 36, 38, 41, 46, 50mm

Aluminum Bronze	
Order Code	Weight (g)
TFSF88	
-40020A	14.2



18Pc 1" Dr. Safety Socket Set - Metric

- Die forged
- T sliding handle: 3/4" sq. dr. x 1" sq. dr. x 400mm
- 1" sq. dr. socket extension: 200mm
- 1" sq. dr. flex joint: 120mm
- 1" sq. dr. sockets: 30, 31, 32, 34, 36, 38, 41, 46, 50, 55, 60, 65, 70, 75, 80mm

Aluminum Bronze	
Order Code	Weight (kg)
TFSF88	
-50018A	24.9



15Pc Safety Combination Tool Set - Metric

- Distributed in 2 EVA inlay layers
- Adjustable wrench: 250mm
- Combination pliers: 200mm
- Long nose pliers: 200mm
- Slotted screwdriver: 200mm
- Ball pein hammer: 0.91kg, 350mm
- Double open-ended spanners: 8 x 10, 10 x 12, 12 x 14, 14 x 17, 17 x 19, 19 x 22, 22 x 24, 24 x 27, 30 x 32mm

Aluminum Bronze	
Order Code	Weight (kg)
TFSF88	
-01015A	6.2



17Pc Safety Combination Tool Set - Metric

- Distributed in 2 EVA inlay layers
- Adjustable wrenches: 200mm & 300mm
- Combination spanners: 14, 17, 19, 22, 24, 27mm
- Flat chisel (round shaft): ø18 x 160mm
- Stake (round shaft): ø18 x 160mm
- Slotted screwdriver: 6 x 150mm
- Phillips screwdriver: PH2 x 150mm
- Ball pein hammer: 0.91kg
- Pipe wrench: 350mm
- Combination pliers: 200mm
- Long nose pliers: 200mm
- Slip joint pliers: 200mm

Aluminum Bronze	
Order Code	Weight (kg)
TFSF88	
-02017A	8.6



28Pc Safety Combination Tool Set - Metric

- Distributed in 2 EVA inlay layers
- Water pump wrenches: 300mm & 450mm
- Adjustable wrenches: 200mm & 300mm
- Combination spanners: 8, 10, 12, 14, 17, 19, 22, 24, 27, 30, 32mm
- F clamp: 400mm
- Combination pliers: 200mm
- Long nose pliers: 200mm
- Slip joint pliers: 200mm
- Crowbar: $\Phi 25 \times 300$ mm
- Flat chisel (round shaft): $\Phi 25 \times 300$ mm
- Slotted screwdrivers: 5*100mm & 8*200mm
- Phillips screwdrivers: No.1*10 /
- Sledge hammer: 1.8kg / 370mm
- Ball pein hammer: 0.91kg / 350mm
- Claw hammer: 0.45kg / 300mm



Aluminum
Bronze

Order Code	Weight (kg)
TF SF88	
-03028A	18.4

126Pc Electrician's Safety Tool Kit - Al-Br

- Distributed in 2 EVA inlay layers
- 1/2" sq. dr. sockets: 8, 10, 12, 14, 17mm
- Combination spanners: 8, 10, 12, 14, 17mm
- Hex L-wrenches: 4, 5, 6, 8, 10mm
- 1/2" sq. dr. T sliding handle: 250mm
- Flat chisel (round shaft): $\Phi 18 \times 180$ mm
- Adjustable wrench: 150mm
- Combination pliers: 200mm
- Long nose pliers: 150mm
- Slip joint pliers: 200mm
- Slotted screwdrivers: 6*150mm & 8*200mm
- Phillips screwdrivers: No.2*150mm & No.3*200mm
- Machinist hammer: 0.91kg / 350mm



Aluminum
Bronze

Order Code	Weight (kg)
TF SF88	
-20026A	4.5

15Pc Safety Jobber Drill Set - Be-Cu

- $\phi 6 \times 100$ mm, $\phi 7 \times 120$ mm, $\phi 8 \times 140$ mm, $\phi 9 \times 160$ mm, $\phi 10 \times 180$ mm, $\phi 11 \times 200$ mm, $\phi 12 \times 220$ mm, $\phi 13 \times 240$ mm, $\phi 14 \times 260$ mm, $\phi 15 \times 280$ mm, $\phi 16 \times 300$ mm, $\phi 17 \times 140$ mm, $\phi 18 \times 320$ mm, $\phi 19 \times 320$ mm, $\phi 20 \times 330$ mm



Beryllium
Bronze

Order Code	Weight (kg)
TF SF88	
-80015B	3.65

36Pc Safety Maintenance Tool Kit - Metric

- Distributed in 2 EVA inlay layers
- L-shaped scriber: 187mm
- Electrician's stripping knife: 185mm
- Tailor's knife: 225mm
- Hacksaw: 300mm (12")
- Hacksaw blade: 300mm (12")
- Scraper: 40*200mm
- Wood handled brush: 350mm (4*19)
- Slotted screwdrivers: 3*50mm, 4.5*150mm, 6*100mm, 8*150mm & 10*300mm
- S-shaped double-ended screwdrivers: 6*150mm, 6*130mm, 10*140mm
- Phillips screwdrivers: No.1*75mm, No.2*125mm, No.3*200mm, No.4*300mm
- Slip joint pliers: 200mm
- Flat nose pliers: 150mm
- Long nose pliers: 150mm
- Diagonal pliers: 150mm
- Wire strippers: 170mm
- Round nose pliers: 150mm
- Combination pliers: 200mm
- Adjustable wrenches: 150mm & 250mm
- Pipe wrench: 350mm
- Ball pein hammer: 680g
- Sledge hammer: 4lbs
- Flat chisels (round shafts): $\phi 16 \times 160$ mm & $\phi 25 \times 230$ mm
- Crowbar: $\phi 16 \times 455$ mm
- Pry bar: 455mm
- Tweezers: 200mm



Aluminum
Bronze

Order Code	Numbers of Pieces
TF SF88	
-04036A	36

50Pc Safety Engineers' Tool Kit - Metric

- Distributed in 2 EVA inlay layers
- High volume ABS impact proof tool trolley
- Sledge hammer: 1.8kg
- Ball pein hammer: 0.91kg
- Claw hammer: 0.45kg
- Pipe wrenches: 300mm & 45mm
- Adjustable wrenches: 200mm & 300mm
- Combination spanners: 8, 10, 12, 14, 17, 19, 22, 24, 27, 30, 32mm
- Combination pliers: 200mm
- Long nose pliers: 200mm
- Slip joint pliers: 200mm
- Crowbar: 300mm
- Flat chisel (round shaft): $\phi 25 \times 300$ mm
- Nail punch: $\phi 20 \times 300$ mm
- Slotted screwdrivers: 5*100mm, 8*200mm
- Phillips screwdrivers: No.1*100mm & No.3*200mm
- F clamp: 400mm
- Electrician's stripping knife: 250mm
- Hacksaw: 300mm (12")
- Hacksaw blade: 300mm (12")
- 1/2" sq. dr. sockets: 10, 11, 12, 14, 17, 19, 22, 24, 27, 30, 32mm
- 1/2" sq. dr. ratchet wrench: 245mm
- 1/2" sq. dr. socket extensions: 125mm & 250mm
- 1/2" sq. dr. speed handle: 400mm
- 1/2" sq. dr. T sliding handle: 250mm
- 1/2" sq. dr. universal joint: 80mm
- Putty knife: 25*200mm



Aluminum
Bronze

Order Code	Numbers of Pieces
TF SF88	
-05050A	50

Stainless Steel Tools

- Made from forged high-density material
- Anti-magnetic, anti-acid, anti-alkali & moisture proof
- Manufactured to DIN standards

Stainless Steel Double Open Ended Spanners



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT01			
-20507A	5.5 x 7	90	23
-20607A	6 x 7	92	25
-20709A	7 x 9	96	28
-20810A	8 x 10	100	34
-20911A	9 x 11	110	50
-21011A	10 x 11	115	52
-21012A	10 x 12	120	60
-21014A	10 x 14	124	68
-21213A	12 x 13	128	73
-21214A	12 x 14	130	75
-21415A	14 x 15	143	115
-21417A	14 x 17	150	120
-21617A	16 x 17	157	130
-21618A	16 x 18	163	145
-21719A	17 x 19	170	150
-21721A	17 x 21	173	185
-21819A	18 x 19	179	200
-21921A	19 x 21	182	210
-21922A	19 x 22	185	220
-21924A	19 x 24	190	235
-22022A	20 x 22	195	250
-22123A	21 x 23	200	270
-22126A	21 x 26	205	275
-22224A	22 x 24	210	312
-22227A	22 x 27	215	320
-22326A	23 x 26	220	330
-22427A	24 x 27	230	345
-22430A	24 x 30	233	365
-22528A	25 x 28	236	365
-22632A	26 x 32	243	465
-22730A	27 x 30	250	485
-23032A	30 x 32	265	610
-23036A	30 x 36	270	815
-23234A	32 x 34	270	815
-23236A	32 x 36	300	885
-23436A	34 x 36	300	885
-23638A	36 x 38	330	1350
-23641A	36 x 41	330	1350
-23840A	38 x 40	330	1350
-24146A	41 x 46	360	1690

Stainless Steel Open Jaw Spanners

- Manufactured to DIN894



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT30			
-10008A	8	95	40
-10010A	10	105	50
-10012A	12	125	65
-10014A	14	140	95
-10017A	17	160	105
-10019A	19	170	130
-10022A	22	195	170
-10024A	24	220	190
-10027A	27	240	285
-10030A	30	260	320
-10032A	32	275	400
-10034A	34	290	455
-10036A	36	310	530
-10041A	41	345	615
-10046A	46	375	950

Stainless Steel Combination Spanners

- Manufactured to DIN3113



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT02			
-10106A	6	105	18
-10107A	7	120	40
-10108A	8	120	40
-10109A	9	135	45
-10110A	10	135	45
-10111A	11	150	65
-10112A	12	150	65
-10113A	13	175	90
-10114A	14	175	90
-10115A	15	195	140
-10116A	16	195	140
-10117A	17	195	140
-10118A	18	215	180
-10119A	19	215	180
-10120A	20	215	180
-10121A	21	245	280
-10122A	22	245	280
-10123A	23	265	320
-10124A	24	265	320
-10125A	25	265	500
-10126A	26	290	500
-10127A	27	290	500
-10130A	30	320	700
-10132A	32	340	780
-10134A	34	360	1000
-10136A	36	360	1000
-10138A	38	430	1450
-10141A	41	430	1420
-10146A	46	480	1760
-10150A	50	520	2020
-10155A	55	560	2000
-10160A	60	595	2920
-10165A	65	595	3440

Stainless Steel Ring Spanners



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT35			
-10008A	8	110	40
-10010A	10	120	50
-10012A	12	130	65
-10014A	14	140	90
-10017A	17	155	105
-10019A	19	170	130
-10022A	22	190	175
-10024A	24	215	220
-10027A	27	230	270
-10030A	30	255	370
-10032A	32	265	425
-10036A	36	295	550
-10041A	41	330	825
-10046A	46	365	1120
-10050A	50	400	1270
-10055A	55	445	1590
-10060A	60	474	1850
-10065A	65	510	2060

Stainless Steel Double Offset Ring Spanners



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT03			
-30507A	5.5 x 7	115	22
-30607A	6 x 7	115	25
-30709A	7 x 9	130	50
-30810A	8 x 10	130	55
-30911A	9 x 11	140	70
-31011A	10 x 11	140	80
-31012A	10 x 12	140	85
-31213A	12 x 13	160	120
-31214A	12 x 14	160	151
-31417A	14 x 17	220	205
-31618A	16 x 18	220	220
-31719A	17 x 19	250	225
-31722A	17 x 22	250	290
-31819A	18 x 19	250	295
-31922A	19 x 22	280	310
-31924A	19 x 24	310	355
-32123A	21 x 23	285	405
-32126A	21 x 26	320	450
-32224A	22 x 24	310	455
-32427A	24 x 27	340	520
-32430A	24 x 30	350	550
-32528A	25 x 28	350	580
-32632A	26 x 32	370	640
-32730A	27 x 30	360	705
-33032A	30 x 32	380	805
-33036A	30 x 36	395	1050
-33234A	32 x 34	400	1080
-33236A	32 x 36	405	1145
-33436A	34 x 36	420	1165
-33641A	36 x 41	445	1600

Stainless Steel Adjustable Wrenches



Order Code	Size (Inch)	Max Opening (mm)	Weight (g)
TFTT05			
-51002A	4"	100	13
-51004A	6"	150	18
-51006A	8"	200	24
-51008A	10"	250	30
-51010A	12"	300	36
-51012A	15"	375	46
-51014A	18"	450	55
-51016A	24"	600	65

Stainless Steel Reversible Ratchet Wrenches



Order Code	Square Drive	Length (mm)	Weight (g)
TFTT48			
-71002A	3/8"	200	290
-71004A	1/2"	245	690
-71006A	3/4"	320	1570
-71008A	1"	550	3470

Stainless Steel Open Jaw Slogging Wrenches

• Manufactured to DIN133



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT50			
-10017A	17	125	150
-10019A	19	125	150
-10022A	22	135	195
-10024A	24	150	245
-10027A	27	175	335
-10030A	30	190	435
-10032A	32	190	515
-10036A	36	210	800
-10041A	41	230	955
-10046A	46	250	1225
-10050A	50	275	1560
-10055A	55	305	1850
-10060A	60	315	2190
-10065A	65	335	3060

Stainless Steel Ring Slogging Wrenches

• Manufactured to DIN7444



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT55			
-10017A	17	145	210
-10019A	19	145	210
-10022A	22	155	235
-10024A	24	165	235
-10027A	27	175	350
-10030A	30	185	475
-10032A	32	185	490
-10034A	34	200	540
-10036A	36	205	580
-10038A	38	215	680
-10041A	41	225	755
-10046A	46	235	990
-10050A	50	250	1145
-10055A	55	265	1440
-10060A	60	274	1620
-10065A	65	298	1995
-10070A	70	320	2435
-10075A	75	326	3010
-10080A	80	350	3600

Stainless Steel Lug Wrenches



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT22			
-00104A	17*19*21*23	350	1250
-00204A	17*19*22*24	350	1250

Stainless Steel L Hex Wrenches



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT49			
-00015A	1.5	59	8
-00020A	2.0	59	8
-00025A	2.5	59	8
-00030A	3.0	59	8
-00040A	4.0	65	10
-00050A	5.0	79	16
-00060A	6.0	85	25
-00070A	7.0	88	34
-00080A	8.0	92	50
-00090A	9.0	97	61
-00100A	10.0	110	82
-00110A	11.0	119	100
-00120A	12.0	130	145
-00130A	13.0	140	180
-00140A	14.0	150	211
-00150A	15.0	156	260
-00160A	16.0	162	300
-00170A	17.0	168	370
-00180A	18.0	173	450
-00190A	19.0	177	490
-00210A	21.0	184	652
-00220A	22.0	186	675
-00240A	24.0	192	825
-00250A	25.0	200	925
-00260A	26.0	206	1025
-00270A	27.0	213	1220
-00280A	28.0	222	1350
-00300A	30.0	240	1615
-00320A	32.0	266	2065
-00360A	36.0	294	2905
-00410A	41.0	320	4120

Stainless Steel Hook Spanners

• Manufactured to DIN1810

Fixed



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT29			
-00032C	30 - 32	136	60
-00036C	34 - 36	170	90
-00042C	40 - 42	170	100
-00050C	45 - 50	206	150
-00055C	52 - 55	206	160
-00062C	58 - 62	242	210
-00075C	68 - 75	242	250
-00090C	80 - 90	280	370
-00100C	95 - 100	280	410
-00115C	110 - 115	334	700
-00130C	120 - 130	334	750
-00145C	135 - 145	383	1050

Adjustable



Order Code	Size (mm)	Length (mm)	Weight (g)
TFTT29			
-01035C	20 - 35	165	115
-01060C	35 - 60	190	150
-01090C	60 - 90	280	350
-01155C	90 - 155	330	650
-01230C	155 - 230	400	1150

Stainless Steel Bi-Hex Sockets



3/8" Sq. Dr.

Order Code	Size (mm)	Overall Length (mm)	Weight (g)
TFTT40			
-20005A	5	28	35
-20006A	6	28	35
-20007A	7	28	35
-20008A	8	28	35
-20009A	9	28	35
-20010A	10	32	50
-20011A	11	32	50
-20012A	12	32	50
-20013A	13	32	50
-20014A	14	32	50
-20015A	15	32	53
-20016A	16	32	58
-20017A	17	32	63
-20019A	19	32	68
-20020A	20	32	77

1/2" Sq. Dr.

Order Code	Size (mm)	Overall Length (mm)	Weight (g)
TFTT40			
-30006A	6	40	75
-30007A	7	40	77
-30008A	8	40	77
-30009A	9	40	78
-30010A	10	40	78
-30011A	11	40	79
-30012A	12	40	79
-30013A	13	40	80
-30014A	14	40	80
-30015A	15	40	94
-30016A	16	40	94
-30017A	17	40	94
-30018A	18	42	94
-30019A	19	42	110
-30020A	20	42	120
-30021A	21	43	125
-30022A	22	43	130
-30023A	23	43	150
-30024A	24	43	165
-30025A	25	43	180
-30026A	26	43	200
-30027A	27	46	215
-30028A	28	46	225
-30029A	29	46	235
-30030A	30	46	250
-30032A	32	46	295

3/4" Sq. Dr.

Order Code	Size (mm)	Overall Length (mm)	Weight (g)
TFTT40			
-40017A	17	50	245
-40019A	19	50	245
-40021A	21	55	265
-40022A	22	55	265
-40024A	24	55	305
-40026A	26	55	305
-40027A	27	55	310
-40029A	29	55	335
-40030A	30	60	350
-40032A	32	60	465
-40034A	34	60	480
-40035A	35	60	500
-40036A	36	60	510
-40038A	38	60	550
-40041A	41	65	660
-40046A	46	65	760
-40050A	50	70	900

Stainless Steel T Sliding Handles



Order Code	Square Drive	Overall Length (mm)	Weight (g)
TFTT46			
-30250E	1/2"	250	340
-40350E	3/4"	350	1070
-40400E	3/4"	400	1335
-50400E	1"	400	1620

Stainless Steel Swivel Handles



Order Code	Square Drive	Overall Length (mm)	Weight (g)
TFTT41			
-20190A	3/8"	190	245
-30250A	1/2"	250	440
-30320A	1/2"	320	565
-30400A	1/2"	400	645
-40280A	3/4"	286	635
-50300A	1"	304	910

Stainless Steel Offset Fixed Handles



Order Code	Square Drive	Overall Length (mm)	Weight (g)
TFTT42			
-20200A	3/8"	200	300
-30230A	1/2"	230	400
-40280A	3/4"	280	750

Stainless Steel Speed Handles



Order Code	Square Drive	Overall Length (mm)	Weight (g)
TFTT45			
-20300A	3/8"	300	450
-30390A	1/2"	390	770

Stainless Steel Universal Joints



Order Code	Square Drive	Overall Length (mm)	Weight (g)
TFTT41			
-01212J	1/2"	80	186
-03434J	3/4"	110	530
-01010J	1"	132	1000

Stainless Steel T-Handle Clamps



Order Code	Clamping Capacity (mm)	Throat Depth (mm)	Weight (g)
TFTT56			
-10150A	150	50	450
-10200A	200	50	480
-10250A	250	80	930
-10300A	300	80	1035
-10400A	400	80	1155
-10500A	500	80	1300
-10600A	600	120	2550
-10800A	800	120	3000

Stainless Steel Heavy Duty Pipe Wrenches - American Pattern



Order Code	Size	Max Opening	Weight	Feature
	Inch (mm)	(mm)	(g)	
-71002A	8"	200	25	420 Full stainless steel
-71004A	10"	250	30	735 Full stainless steel
-71006A	12"	300	40	1050 Full stainless steel
-71008A	14"	350	50	1315 Full stainless steel
-71010A	18"	450	60	1650 Aluminum handle
-71012A	24"	600	75	2450 Aluminum handle
-71014A	36"	900	85	4000 Aluminum handle
-71016A	48"	1200	110	8500 Aluminum handle

1/2" Dr. Stainless Steel Socket Sets

13pc Set



17pc Set



24pc Set



Set Configuration (Contained Tool Quantity: 1 of each)

Order Code	Square Drive	Numbers of Pieces	EVA Case	Bi-Hex Sockets	Ratchet Wrenches	Swivel Handles	T Sliding Handles	Speed Bars	Extensions	Universal Joints
TFTT88										
-20013T	1/2"	13	✓	8, 10, 11, 12, 14, 17, 19, 22, 24, 27mm	245mm	250mm	-	-	-	-
-20017T	1/2"	17	✓	10, 11, 12, 14, 17, 19, 22, 24, 27, 30, 32mm	245mm	-	250mm	400mm	125 & 250mm	-
-20024T	1/2"	24	✓	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32mm	245mm	-	250mm	400mm	125 & 250mm	80mm

Stainless Steel Lineman's Pliers



Order Code	Size	Weight (g)
TFTT10		
-11002A	6" / 150mm	180
-11004A	7" / 180mm	355
-11006A	8" / 200mm	465
-11008A	10" / 250mm	550

Stainless Steel Snipe Nose Pliers



Order Code	Size	Weight (g)
TFTT11		
-41002A	6" / 150mm	190
-41004A	8" / 200mm	335

Stainless Steel Diagonal Cutting Pliers



Order Code	Size	Weight (g)
TFTT12		
-31002A	6" / 150mm	245
-31004A	8" / 200mm	410

Stainless Steel Grip Wrench



Order Code	Size	Weight (g)
TFTT25		
-71002A	9" / 225mm	480

10" Stainless Steel Box Joint Waterpump Pliers



Order Code	Size	Max. Opening (mm)	Weight (g)
TFTT20			
-00250A	10" / 250mm	32	365

Stainless Steel Screwdrivers

⊖ Slotted



Order Code	Size	Overall Length (mm)	Tip Width (mm)	Weight (g)
TFTT30				
-11002A	2" / 50mm	134	3.0	35
-11004A	2" / 50mm	134	4.5	43
-11006A	3" / 75mm	159	3.0	35
-11008A	3" / 75mm	159	4.0	45
-11010A	3" / 75mm	180	5.0	70
-11012A	4" / 100mm	184	4.0	45
-11014A	4" / 100mm	205	5.0	75
-11016A	4" / 100mm	215	6.0	85
-11018A	5" / 125mm	240	6.0	100
-11020A	6" / 150mm	265	6.0	110
-11022A	6" / 150mm	265	7.0	125
-11024A	6" / 150mm	277	8.0	140
-11026A	8" / 200mm	327	8.0	165
-11028A	10" / 250mm	377	9.0	185
-11030A	10" / 250mm	377	11.0	260
-11032A	12" / 300mm	427	10.0	245
-11034A	12" / 300mm	427	11.0	290
-11036A	14" / 350mm	477	11.0	320
-11038A	16" / 400mm	550	12.0	450

⊕ Phillips



Order Code	Size	Overall Length (mm)	Blade Dia. (mm)	Weight (g)
TFTT31				
-21002A	2" / 50mm	134	3.0	35
-21004A	3" / 75mm	159	4.0	70
-21006A	4" / 100mm	205	5.0	75
-21008A	5" / 125mm	240	6.0	100
-21010A	6" / 150mm	265	6.0	110
-21012A	8" / 200mm	327	8.0	165
-21014A	10" / 250mm	377	8.0	185
-21016A	12" / 300mm	427	9.0	245
-21018A	14" / 350mm	477	9.0	270
-21020A	16" / 400mm	550	9.0	295
-21022A	18" / 450mm	600	9.0	320

Stainless Steel Stripping Knives



Order Code	Blade Length (mm)	Overall Length (mm)	Weight (g)
TFTT80			
-11002A	80	190	75
-11004A	137	250	95

Stainless Steel Putty Knives with Plastic Handles



Order Code	Blade Width (mm)	Blade Length (mm)	Overall Length (mm)
TFTT80			
-31002A	25	90	200
-31004A	40	90	200
-31006A	50	90	200
-31008A	65	90	200

Stainless Steel Ball Pein Hammers - Fiberglass Shafts



Order Code	Head Weight	Length (mm)	Weight (g)
TFTT50			
-11002A	0.5lb / 8oz / 230g	280	400
-11004A	0.75lb / 12oz / 340g	280	500
-11006A	1.0lb / 16oz / 450g	310	680
-11008A	1.5lbs / 24oz / 680g	340	950
-11010A	2lbs / 32oz / 910g	350	1200
-11012A	2.5lbs / 40oz / 1130g	400	1470

Stainless Steel Claw Hammers - Fiberglass Shafts



Order Code	Head Weight	Length (mm)	Weight (g)
TFTT55			
-61002A	0.5lb / 8oz / 230g	280	405
-61004A	1.0lb / 16oz / 450g	300	652
-61006A	1.5lbs / 24oz / 680g	330	953

Stainless Steel Club Hammers - Fiberglass Shafts



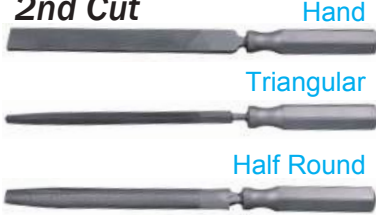
Order Code	Head Weight (g)	Overall Length (mm)
TFTT55		
-20450A	450	310
-21000A	1000	400
-21400A	1400	400
-21500A	1500	400
-21800A	1800	400
-22000A	2000	400
-22200A	2200	400
-22500A	2500	700
-22700A	2700	700

Stainless Steel Nylon Faced Hammers



Order Code	Head Weight (g)	Overall Length (mm)	Weight (g)
TFTT55			
-70800A	800	340	1500
-71000A	1000	400	2000

8" Stainless Steel Engineer Files - 2nd Cut



Order Code	Type	Size (g)	Overall Length (mm)	Weight (g)
TFTT54	Hand	8"/200mm	325	490
-01250A	Triangular	8"/200mm	325	400
-03250A	Half Rd.	8"/200mm	325	470

Stainless Steel Heel and Point Crowbars



Order Code	Overall Length (mm)	Dia. (mm)	Heel End Width (mm)	Weight (g)
TFTT75				
-31002A	500	15	15	672
-31004A	500	19	19	1093
-31006A	500	20	20	1148
-31008A	500	23	23	1481
-31010A	600	25	25	2132
-31012A	800	23	23	2530
-31014A	1000	30	30	5193

Stainless Steel Chisel & V-Notch Wrecking Bars



Order Code	Length (mm)	Weight (g)
TFTT75		
-32450B	450	970
-32500B	500	1100
-32600B	600	1250
-32700B	700	1500
-32750B	750	1650
-32800B	800	1700
-32900B	900	1900

Stainless Steel Flat Chisels



Order Code	Overall Length (mm)	Dia. (mm)	Edge Width (mm)	Weight (g)
TFTT73				
-41002A	160	14	14	175
-41004A	160	16	16	231
-41006A	160	18	18	295
-41008A	200	18	18	382
-41010A	200	20	20	473
-41012A	250	24	24	822
-41014A	300	24	24	1025
-41016A	300	25	25	1302
-41018A	400	25	25	1502
-41020A	500	25	25	1903
-41022A	500	30	30	2730

Stainless Steel Buckets



Order Code	Type	Capacity (L)	Height (mm)	Weight (g)
TFTT70				
-81002A	Open-Top	10	250	1200
-81004A	Open-Top	15	280	1550
-71002A	With Lid	15	280	2000

Stainless Steel Funnels



Order Code	Mouth Dia. (mm)	Height (mm)	Weight (g)
TFTT70			
-91002A	160	130	260
-91004A	160	150	280

Stainless Steel Dustpans



Order Code	Mouth Width (mm)	Depth (mm)	Height (mm)	Weight (g)
TFTT70				
-10130A	130	150	20	130
-10200A	200	200	50	335
-10250A	250	270	50	635

10L Stainless Steel Flat Fuel Container



Order Code	Capacity (L)	Height (mm)	Weight (g)
TFTT70			
-02010B	10	300	1680

Stainless Steel Fuel Container



Order Code	Capacity (L)	Height (mm)	Weight (g)
TFTT70			
-01002A	10	300	1680

Stainless Steel Shovels

Square Mouth



Round Mouth



Order Code	Type	Length (mm)	Blade Width (mm)	Weight (g)
TFTT58				
-11400A	Square	1400	175	1800
-11450A	Mouth	1450	240	2200
-21450A	Rd. Mouth	1450	240	1553

Stainless Steel Swivel Bench Vises

- Overall made of stainless steel
- 360° swivel base



Order Code	Jaw Width (mm)	Weight (kg)
TFTT60		
-01075A	75	6.2
-01100A	100	7.0
-01150A	150	19.5
-01200A	200	29.5
-01250A	250	44.5

Stainless Steel Chain Pipe Wrenches



Order Code	Length (mm)	Pipe Capacity (mm)	Weight (g)
TFTT50			
-78012A	600	100	2000
-78013A	600	200	2500
-78014A	900	300	4500
-78015A	900	400	5200

Stainless Steel Rotary Pump

- Constructed with 304 stainless steel body, resistant to corrosion and useful for transferring wide variety of fluids such as water based media, chemicals and all petroleum products such as diesel, kerosene, engine oil, cooking oil and lubricating oil etc. DO NOT use for petrol.
- Equipped with copper gears (optional), it can be used for petrol and benzene etc.



Order Code	Length (mm)	Weight (kg)
TFTT71		
-41002A	1250	4.15

Slogging Wrenches & Heavy Duty Spanners

- Applicable to petroleum, chemical, metallurgy, electric power, oil refining, shipbuilding, petrochemical, mining machinery and other industries
- Must-have tools in equipment installation, inspection and maintenance
- Made of high-quality alloy steel, overall forged, durable and long-lasting
- Sand blasting surfaces for anti-rust and anti-slip
- Manufactured to DIN standards

Open Jaw Slogging Wrenches

- Manufactured to DIN133



Metric			
Order Code TFSP50	Size (mm)	Length (mm)	Weight (g)
-10022A	22	135	190
-10024A	24	150	230
-10027A	27	175	390
-10030A	30	190	500
-10032A	32	190	540
-10036A	36	210	700
-10038A	38	220	820
-10041A	41	230	900
-10046A	46	250	1200
-10050A	50	275	1400
-10055A	55	305	1800
-10060A	60	315	2110
-10065A	65	335	2850
-10070A	70	370	3550
-10075A	75	375	4000
-10080A	80	400	5500
-10085A	85	400	5200
-10090A	90	445	7000
-10100A	100	485	10500
-10110A	110	512	13200
-10120A	120	530	17200
-10130A	130	560	18500
-10140A	140	630	24000
-10150A	150	630	23800

Imperial			
Order Code TFSP50	Size (inch)	Length (mm)	Weight (g)
-20010A	7/8"	135	190
-20020A	15/16"	150	230
-20030A	1"	175	390
-20040A	1-1/8"	190	500
-20050A	1-1/4"	190	540
-20060A	1-7/16"	210	700
-20070A	1-1/2"	220	820
-20080A	1-5/8"	230	900
-20090A	1-3/4"	250	1200
-20100A	2"	275	1400
-20110A	2-1/8"	305	1800
-20120A	2-3/8"	315	2110
-20130A	2-1/2"	335	2850
-20140A	2-3/4"	370	3550
-20150A	3"	375	4000
-20160A	3-1/8"	400	5500
-20170A	3-1/2"	445	7000
-20180A	4"	485	10500

Offset Ring Slogging Wrenches



Order Code TFSP56	Size (mm)	Length (mm)	Weight (g)
-10024G	24	160	350
-10027G	27	180	450
-10030G	30	200	580
-10032G	32	200	560
-10036G	36	220	780
-10041G	41	240	900
-10046G	46	250	1250
-10050G	50	270	1650
-10055G	55	295	2150
-10060G	60	317	2300
-10065G	65	330	2600
-10070G	70	350	3200
-10075G	75	370	4400
-10080G	80	385	4750
-10090G	90	420	6800
-10100G	100	435	7750
-10110G	110	455	9200
-10120G	120	485	10500
-10130G	130	520	12000

Angled Ring Slogging Wrenches



Order Code TFSP57	Size (mm)	Length (mm)	Weight (g)
-10022B	22	140	220
-10024B	24	160	280
-10027B	27	175	350
-10030B	30	190	500
-10032B	32	190	450
-10036B	36	210	600
-10041B	41	225	850
-10046B	46	240	1100
-10050B	50	255	1300
-10055B	55	270	1500
-10060B	60	285	2000
-10065B	65	300	2500
-10070B	70	320	2800
-10075B	75	330	3200

Ring Slogging Wrenches

- Manufactured to DIN7444



Metric			
Order Code TFSP55	Size (mm)	Length (mm)	Weight (g)
-10017A	17	165	200
-10019A	19	165	190
-10022A	22	165	230
-10024A	24	165	220
-10027A	27	175	330
-10030A	30	185	450
-10032A	32	185	440
-10036A	36	205	550
-10041A	41	225	710
-10046A	46	235	900
-10050A	50	250	1200
-10055A	55	265	1360
-10060A	60	274	1500
-10065A	65	298	1900
-10070A	70	320	2300
-10075A	75	326	2850
-10080A	80	350	3400
-10085A	85	355	4100
-10090A	90	390	5200
-10100A	100	420	6700
-10110A	110	450	8640
-10120A	120	480	10400
-10130A	130	510	11900
-10140A	140	520	12280
-10150A	150	565	13650
-10160A	160	585	15800

Imperial			
Order Code TFSP55	Size (inch)	Length (mm)	Weight (g)
-20010A	7/8"	165	230
-20020A	15/16"	165	220
-20030A	1"	175	330
-20040A	1-1/8"	185	450
-20050A	1-1/4"	185	440
-20060A	1-7/16"	205	550
-20070A	1-1/2"	225	625
-20080A	1-5/8"	225	710
-20090A	1-3/4"	235	900
-20100A	2"	250	1200
-20110A	2-1/8"	265	1360
-20120A	2-3/8"	274	1500
-20130A	2-1/2"	298	1900
-20140A	2-3/4"	320	2300
-20150A	3"	326	2850
-20160A	3-1/8"	350	3400
-20170A	3-1/2"	390	5200
-20180A	4"	420	6700

Ring Spanners



Order Code TFSP35	Size (mm)	Length (mm)	Weight (g)
-10022A	22	190	170
-10024A	24	215	210
-10027A	27	230	265
-10030A	30	255	370
-10032A	32	265	445
-10036A	36	295	600
-10041A	41	330	835
-10046A	46	365	1135
-10050A	50	400	1400
-10055A	55	445	1830
-10060A	60	474	2180
-10065A	65	510	2600
-10070A	70	555	3050
-10075A	75	590	3085
-10080A	80	620	4200
-10085A	85	665	4800
-10090A	90	700	5400
-10100A	100	740	6100

Open Jaw Spanners

• Manufactured to DIN894



Order Code TFSP30	Size (mm)	Length (mm)	Weight (g)
-10014A	14	140	90
-10017A	17	160	100
-10019A	19	170	120
-10022A	22	195	160
-10024A	24	220	180
-10027A	27	240	270
-10030A	30	260	300
-10032A	32	275	380
-10034A	34	290	470
-10036A	36	310	500
-10041A	41	345	580
-10046A	46	375	900
-10050A	50	410	1150
-10055A	55	450	1400
-10060A	60	490	2000
-10065A	65	530	2800
-10070A	70	570	3050
-10075A	75	610	3500
-10080A	80	645	4600
-10085A	85	690	5200
-10090A	90	850	6100
-10095A	95	850	6100
-10100A	100	1000	7700
-10105A	105	1000	7700
-10110A	110	1000	9000
-10115A	115	1000	9000
-10120A	120	1000	9050
-10125A	125	1000	9050

Angled Ring Spanners



Order Code TFSP37	Size (mm)	Length (mm)	Weight (g)
-10010B	10	119	55
-10012B	12	151	82
-10014B	14	151	90
-10017B	17	174	150
-10019B	19	207	215
-10022B	22	207	215
-10024B	24	250	330
-10027B	27	250	330
-10030B	30	295	520
-10032B	32	295	550
-10036B	36	307	600
-10041B	41	340	780
-10046B	46	370	1050
-10050B	50	400	1580
-10055B	55	430	2130
-10060B	60	450	2430
-10065B	65	470	2520
-10070B	70	490	3480
-10075B	75	510	3800
-10080B	80	530	4200

Open Ended Podger Spanners



Order Code TFSP40	Size (mm)	Length (mm)	Weight (g)
-10017P	17	220	120
-10019P	19	240	150
-10022P	22	260	200
-10024P	24	280	250
-10027P	27	300	330
-10030P	30	320	420
-10032P	32	340	500
-10036P	36	360	680
-10041P	41	380	950
-10046P	46	400	1050
-10050P	50	420	1100
-10055P	55	450	1400
-10060P	60	480	1900

Offset Ring Spanners with Extension Bars



Order Code TFSP36	Size (mm)	Length (mm)	Weight (g)
-20024A	24	180	450
-20027A	27	190	500
-20030A	30	200	550
-20032A	32	235	750
-20036A	36	245	850
-20041A	41	265	1000
-20046A	46	280	1400

Transferred to right column...

Offset Ring Spanners



Order Code TFSP36	Size (mm)	Length (mm)	Weight (g)
-10022G	22	190	200
-10024G	24	215	245
-10027G	27	230	310
-10030G	30	255	425
-10032G	32	265	510
-10036G	36	295	690
-10041G	41	330	960
-10046G	46	365	1305
-10050G	50	400	1610
-10055G	55	445	2100
-10060G	60	474	2500
-10065G	65	510	2900
-10070G	70	555	3360
-10075G	75	590	3400
-10080G	80	620	4650
-10085G	85	665	5300
-10090G	90	700	5950
-10100G	100	740	6750

Ring Ended Podger Spanners



Order Code TFSP45	Size (mm)	Length (mm)	Weight (g)
-10017P	17	310	190
-10019P	19	330	215
-10022P	22	350	275
-10024P	24	370	340
-10027P	27	400	425
-10030P	30	430	600
-10032P	32	430	580
-10036P	36	460	825
-10041P	41	490	1070
-10046P	46	520	1450
-10050P	50	540	1780
-10055P	55	560	2100
-10060P	60	610	2500
-10065P	65	630	2700
-10070P	70	650	3200
-10075P	75	670	3460
-10080P	80	690	4000
-10085P	85	690	3850
-10090P	90	710	5000
-10095P	95	710	4800
-10100P	100	730	5800
-10110P	110	750	7200

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Order Code TFSP36	Size (mm)	Length (mm)	Weight (g)
-20050A	50	290	1600
-20055A	55	300	1750
-20060A	60	345	2800
-20065A	65	355	3200
-20070A	70	365	3700
-20075A	75	375	4100
-20080A	80	385	4900

Double Open Ended Spanners

- Manufactured to DIN895



Order Code TFSP20	Size (mm)	Length (mm)	Weight (g)
-10120A	14 x 17	160	80
-10140A	17 x 19	180	110
-10170A	19 x 22	200	150
-10180A	19 x 24	220	170
-10210A	22 x 24	230	230
-10230A	24 x 27	255	320
-10260A	27 x 30	280	400
-10280A	30 x 32	300	500
-10300A	32 x 36	320	600
-10305A	34 x 36	330	700
-10310A	36 x 41	350	850
-10320A	41 x 46	380	1000
-10330A	46 x 50	420	1250
-10340A	50 x 55	460	1800
-10360A	55 x 60	500	2650
-10370A	60 x 65	540	2700
-10380A	65 x 70	580	3450
-10390A	70 x 75	620	3900
-10400A	75 x 80	660	4620

Offset Double Ring Spanners

- Manufactured to DIN838



Order Code TFSP22	Size (mm)	Length (mm)	Weight (g)
-10090A	17 x 19	280	170
-10110A	19 x 22	300	200
-10120A	19 x 24	320	300
-10140A	21 x 23	320	350
-10150A	22 x 24	330	400
-10185A	24 x 27	340	450
-10220A	27 x 30	350	500
-10245A	30 x 32	370	650
-10270A	32 x 36	430	950
-10290A	36 x 41	470	1200
-10300A	41 x 46	500	1500
-10310A	46 x 50	525	1800
-10320A	50 x 55	550	2700
-10330A	55 x 60	575	3000
-10340A	60 x 65	600	3600
-10350A	65 x 70	625	3900
-10360A	70 x 75	650	4300
-10370A	75 x 80	675	4800

Combination Spanners

- Manufactured to DIN3133



Order Code TFSP21	Size (mm)	Length (mm)	Weight (g)
-10022A	22	245	235
-10024A	24	265	250
-10027A	27	290	400
-10030A	30	320	520
-10032A	32	340	640
-10036A	36	360	550
-10041A	41	430	1360
-10046A	46	480	1810
-10050A	50	520	2020
-10055A	55	560	2580
-10060A	60	595	3100
-10065A	65	595	3400
-10070A	70	630	4200
-10075A	75	630	4000
-10080A	80	660	5400
-10085A	85	660	5200
-10090A	90	720	7100
-10095A	95	720	6800
-10100A	100	780	8400
-10105A	105	780	8100
-10110A	110	840	9800
-10115A	115	840	9500
-10120A	120	900	12100
-10125A	125	900	11800

Heavy Duty Anti-Slip F Spanners

- Die forged



Order Code TFSP60	Size (mm)	Weight (g)
-00200A	30 x 200	250
-00250A	35 x 250	355
-00300A	40 x 300	420
-00350A	45 x 350	555
-00400A	50 x 400	700
-00450A	55 x 450	785
-00500A	60 x 500	1150
-00550A	65 x 550	1220
-00600A	70 x 600	1310
-00650A	75 x 650	1570
-00700A	80 x 700	1785
-00750A	85 x 750	2090
-00800A	90 x 800	2550

Heavy Duty Reversible Ratchet Wrenches

- Die forged
- Industrial grade for heavy duty applications



Order Code TFWR70	Square Drive	Overall Length (mm)	Weight (g)
-40320A	3/4"	320	1490
-50550A	1"	550	3220
-60600A	1-1/2"	600	4600

Hook Spanners

- Manufactured to DIN1810



Order Code TFSP29	Size (mm)	Length (mm)	Weight (g)
-00032C	30 - 32	140	60
-00036C	34 - 36	170	90
-00042C	40 - 42	176	100
-00050C	45 - 50	209	150
-00055C	52 - 55	212	160
-00062C	58 - 62	244	210
-00075C	68 - 75	250	250
-00090C	80 - 90	284	370
-00100C	95 - 100	288	410
-00115C	110 - 115	337	700
-00130C	120 - 130	343	750
-00145C	135 - 145	388	1050

Pin Type Hook Spanners



Order Code TFSP29	Size (mm)	Length (mm)	Weight (g)
-20014C	12 - 14	116	12
-20018C	16 - 18	116	15
-20022C	20 - 22	125	22
-20028C	25 - 28	139	32
-20032C	30 - 32	136	50
-20036C	34 - 36	171	90
-20042C	40 - 42	171	100
-20050C	45 - 50	207	150
-20055C	52 - 55	207	160
-20062C	58 - 62	243	230
-20075C	68 - 75	243	250
-20090C	80 - 90	281	370
-20100C	95 - 100	281	410
-20115C	110 - 115	333	700

Sliding Adjustable Hook Wrenches

- This sliding adjustable hook wrench is exclusive for grooved round nuts, for attaching and detaching the round nuts and the bearing nuts
- Widely used in marine industries, machine manufacture, mining, large equipment maintenance etc.
- Made of 40 chrome steel, die forged for high strength and durability
- Black finish for corrosion and rust resistance

Order Code	Size (mm)	Length (mm)	Weight (kg)
TFSP29			
-50042C	20 - 42	162	100
-50090C	45 - 90	250	394
-50165C	95 - 165	310	580



Phosphated Friction Type Ratchet Wrenches

- Made of carbon steel, phosphated for anti-corrosion and anti-rust
- Especially used in steel construction and scaffolding
- The ratchet is a mechanical device that allows continuous linear or rotary motion in only one direction while preventing motion in the opposite direction

Order Code	Size (mm)	Bolt Size (mm)	Length (mm)	Net Weight (kg)
TFWR71				
-20065C	65	M42	940	14
-20070C	70	M45	940	13
-20075C	75	M48	960	14
-20080C	80	M52	960	14
-20085C	85	M56	1150	19



Phosphated Thickened Single Open Jaw Spanners

- Made of high quality carbon steel, thickened jaws especially for heavy duty applications
- One-piece die forged for high strength and durability
- Phosphated, matte finish for non-slip grip and resistant to corrosion, wear and rust
- Customized sizes are available on demand



Metric			Inch		
Order Code	Size (mm)	Overall Length (mm)	Order Code	Size (inch)	Overall Length (mm)
TFSP30			TFSP30		
-30019C	19	170	-40005C	3/4"	170
-30021C	21	210	-40010C	7/8"	210
-30022C	22	210	-40020C	15/16"	210
-30024C	24	210	-40030C	1"	210
-30027C	27	230	-40035C	1-1/16"	230
-30030C	30	270	-40045C	1-3/16"	270
-30032C	32	270	-40050C	1-1/4"	270
-30036C	36	300	-40060C	1-7/16"	300
-30041C	41	335	-40097C	1-13/16"	365
-30046C	46	365	-40100C	2"	390
-30050C	50	390	-40115C	2-3/16"	390
-30055C	55	390	-40120C	2-3/8"	440
-30060C	60	440	-40135C	2-9/16"	440
-30065C	65	440	-40140C	2-3/4"	490
-30070C	70	490	-40148C	2-15/16"	490
-30075C	75	490	-40150C	3"	520
-30080C	80	520	-40160C	3-1/8"	520
-30085C	85	520	-40165C	3-3/8"	520
-30090C	90	550	-40170C	3-1/2"	550

High Strength Carbon Steel Forged Slogging Wrenches

- Widely used in petroleum, chemical, metallurgy, electric power, oil refining, shipbuilding, petrochemical, mining machinery and other industries
- This carbon steel slogging wrench is a cost effective solution in addition to our premium range yet with high durability and strength
- One-piece die forged, made in compliance with DIN standard
- Attractive black satin finish for corrosion-resistance, wear-resistance and anti-rust

Open Jaws



Ring Jaws



Open Jaws				Ring Jaws			
Order Code	Size (mm)	Length (mm)	Weight (g)	Order Code	Size (mm)	Length (mm)	Weight (g)
TFSP50				TFSP55			
-30022C	22	135	190	-30017C	17	145	200
-30024C	24	150	400	-30019C	19	145	200
-30027C	27	175	400	-30022C	22	155	200
-30030C	30	192	550	-30024C	24	165	200
-30032C	32	192	550	-30027C	27	179	350
-30035C	35	200	800	-30030C	30	186	400
-30036C	36	2.15	800	-30032C	32	186	500
-30038C	38	227	1100	-30036C	36	207	600
-30041C	41	227	1100	-30041C	41	224	750
-30046C	46	255	1250	-30046C	46	243	1050
-30050C	50	265	1650	-30050C	50	259	1250
-30054C	54	300	2050	-30055C	55	273	1250
-30055C	55	300	2050	-30060C	60	283	1800
-30058C	58	308	2300	-30065C	65	305	1850
-30060C	60	308	2300	-30070C	70	332	2750
-30063C	63	308	3100	-30075C	75	338	2750
-30065C	65	330	3100	-30080C	80	352	3250
-30070C	70	355	3650	-30085C	85	351	3300
-30075C	75	360	3800	-30090C	90	382	4650
-30080C	80	390	6100	-30100C	100	421	4950
-30085C	85	390	6100	-30110C	110	445	8600
-30090C	90	430	7600	-30120C	120	480	10000
-30100C	100	430	7600	-30130C	130	520	11000
-30110C	110	445	8900	-30140C	140	520	12000
-30120C	120	530	16100	-30150C	150	560	13200
-30130C	130	550	18000	-30160C	160	580	15800
-30140C	140	620	24000				
-30150C	150	620	24000				

Open Jaws				Ring Jaws			
Order Code	Size (inch)	Order Code	Size (inch)	Order Code	Size (inch)	Order Code	Size (inch)
TFSP50		TFSP50		TFSP55		TFSP55	
-40010C	7/8"	-40100C	2"	-40010C	7/8"	-40100C	72"
-40020C	15/16"	-40110C	2-1/8"	-40020C	15/16"	-40110C	2-1/8"
-40030C	1"	-40120C	2-3/8"	-40030C	1"	-40120C	2-3/8"
-40040C	1-1/8"	-40130C	2-1/2"	-40040C	1-1/8"	-40130C	2-1/2"
-40050C	1-1/4"	-40140C	2-3/4"	-40050C	1-1/4"	-40140C	2-3/4"
-40060C	1-7/16"	-40150C	3"	-40060C	1-7/16"	-40150C	3"
-40070C	1-1/2"	-40160C	3-1/8"	-40070C	1-1/2"	-40160C	3-1/8"
-40080C	1-5/8"	-40170C	3-1/2"	-40080C	1-5/8"	-40170C	3-1/2"
-40090C	1-3/4"	-40180C	4"	-40090C	1-3/4"	-40180C	4"

Industrial American Pattern T-Handle Clamps

- Made from nickel-chrome-plated, heat-treated alloy steel for a corrosion resistant high strength clamp
- Extra-sturdy rail for maximum loading capacity, resistant to bend or twist
- Oxide-coated spindle for extra weld-spatter resistance
- Swivel pad centers on work piece for a sturdy hold
- Tail stopper for slip resistance of the sliding arm



Medium Duty



Order Code	Jaw Opening (mm)	Throat Depth (mm)	Rail Size (mm)	Clamping Force (kg)
TFCL15				
-00160A	160	80	15.5 x 7.5	0 - 250
-00200B	200	80	15.5 x 7.5	0 - 250
-00200A	200	120	22.0 x 10.6	0 - 380
-00250A	250	120	22.0 x 10.6	0 - 380
-00300A	300	120	22.0 x 10.6	0 - 380
-00400A	400	120	22.0 x 10.6	0 - 380
-00500A	500	120	22.0 x 10.6	0 - 380
-00600A	600	120	22.0 x 10.6	0 - 380

Heavy Duty



Order Code	Jaw Opening (mm)	Throat Depth (mm)	Rail Size (mm)	Clamping Force (kg)
TFCL15				
-01200A	200	120	29.7 x 14.3	0 - 1200
-01300A	300	120	29.7 x 14.3	0 - 1200
-01400A	400	120	29.7 x 14.3	0 - 1200
-01500A	500	120	29.7 x 14.3	0 - 1200
-01600A	600	120	29.7 x 14.3	0 - 1200

Industrial American Pattern Heavy Duty G Clamps

- Made from ductile cast iron by integrated die casting
- Thickened structure ensures maximum contact surface and clamping force
- Thickened screw provides high strength and torque and prevents slippage
- Well treated surface resistant to rust and corrosion for long service life



Order Code	Size	Jaw Opening (mm)	Throat Depth (mm)	Weight (kg)
TFCL50				
-10020A	2"	56	22	213
-10030A	3"	82	40	427
-10040A	4"	105	45	652
-10050A	5"	130	56	874
-10060A	6"	158	60	1118
-10080A	8"	209	67	1580
-10100A	10"	253	81	1895
-10120A	12"	296	87	2782

Mod G Professional Nodular Cast Iron G Clamps

- Made from high-quality nodular cast iron
- Zinc plated trapezoidal threaded screw provides maximum clamping force and resistant to rust and corrosion
- Reinforced construction ideal for various industrial applications
- Deep throat allowing for clamping on larger or thicker workpieces
- Made in Spain



Order Code	Type	Jaw Opening (cm)	Throat Depth (cm)	Weight (kg)	Clamping Force (N)
PHCL60					
-20008G	Medium Duty	8	7.0	0.70	8000
-20010G	Heavy Duty	10	8.5	1.00	11000

Mod GF. Professional Super Heavy Duty Nodular Cast Iron G Clamps

- Made from high-quality nodular cast iron
- Zinc plated trapezoidal threaded screw provides maximum clamping force and resistant to rust and corrosion
- Reinforced construction provides the extremely high clamping force for the heavy duty applications
- Made in Spain



Order Code	Opening (cm)	Throat Depth (cm)	Weight (kg)	Clamping Force (N)
PHCL61				
-21010G	10	5.5	2.50	40000
-21015G	15	7.5	4.00	40000

Triangle Shaped Magnetic Welding Clamps

- Ideal for any metal working, welding or fabricating applications. Suitable for angle, square & round stock
- Double riveted alloy steel construction with a red powder-coated finish, making your welding jobs more efficiently and precisely
- Sturdy and compact arrow design can fix your workpieces in a 45°, 90° or 135° angle with easy
- Fire retardant sealed edges make you safer during the welding Operations
- Powerful adsorption force, easy to carry



Order Code	Size L x W x T (mm)	Adsorption Capacity (kg)	Weight (g)
TFCL55			
-01025A	120 x 84 x 14	12	330
-01050A	156 x 103 x 17	22	630
-01075A	190 x 122 x 25	33	1080
-01100A	212 x 142 x 25	44	1080

Super Powerful Magnetic Pick-Up Wands

- NdFeB magnets have improved magnetic properties compared to ferrite magnets, Alnico magnets and SmCo magnets etc. They can adsorb objects up to 64 times their own weight
- Suitable for easy pick-up and release of metal objects in either special operations, production lines or in various liquids
- 3 layers of nickel-copper-nickel coating for good protection and corrosion resistance
- Stainless steel sheath can effectively keep the magnet strong
- Simply pull the handle can automatically release the metal scraps



Order Code	Size L x D (mm)	Adsorption Capacity (kg)	Weight (g)
TFOT10			
-50350A	350 x ø25	8	552
-50400A	400 x ø32	15	955

Powerful Eyelet Button Magnets

- Widely used in industries such as mining, metallurgy, construction, oil industry, geology and hydrology
- Ideal for picking up carbide, scraps and ferrous debris
- This product has a permanent NdFeB magnet core with an iron shell undergoing precise CNC machining
- Powerful magnetic force for high adsorption capacity
- Single-face magnet is designed for concentrating adsorption without magnetic leakage



Order Code	Size OD x Height (mm)	Adsorption Capacity (kg)	Weight (g)
TFOT10			
-20055A	ø55 x 40	30	0.8
-20075A	ø75 x 50	60	1.9
-20090A	ø90 x 60	100	3.3
-20110A	ø110 x 70	200	5.7
-20130A	ø130 x 100	300	9.0
-20160A	ø150 x 100	400	24.0

Stainless Steel Hose Clips

- Made of outstanding 304 stainless steel material with high smooth and gloss finish which is rust and corrosion resistant, robust, not easy to break, and durable for long time use. These hose clips are suitable for indoor and outdoor uses, even in a moisture environment
- Slotted hex heads, easy for using screwdrivers
- The backside of steel belt is fixed with the thicker buckles, which can withstand a lot of tension. The buckle design will not break the steel belt due to the great force



All recommended clamping capacities are for reference only.

Pipe Diameter (mm)	Capacity (mm)	Pipe Diameter (mm)	Capacity (mm)
1/2"	16 - 25	2.5"	65 - 89
3/4"	14 - 27	3"	78 - 101
1"	21 - 38	4"	118 - 140
1.2"	21 - 44	5"	141 - 165
1.5"	27 - 51	6"	175 - 197
2"	46 - 70		

Mechanical Synchronous Bearing Pullers

- Commonly used for tasks such as removing gears, pulleys, bearings, and other press-fit components
- Mechanical pullers are generally more affordable than hydraulic pullers
- Synchronous jaws ensure that all jaws move simultaneously, preventing misalignment and reducing setup time
- 2-jaw configuration for confined access applications
- 3-jaw configuration for even load distribution
- Locking mechanism helps prevent puller jaws from slipping off application during pulling process
- Jaws and yoke made from chrome-manganese alloy steel for maximum safety and durability
- Forcing screw and anti-loosening jaw bolts both made of high carbon steel for secure operations



Order Code	Capacity (T)	Reach (mm)	Spread (mm)	Forcing Screw	Weight (kg)
TFOT20					
-40055M	2	80	120	ø5/8 x 11T	1.6
-40085M	3	120	140	ø5/8 x 11T	2.3
-40105M	5	160	270	ø3/4 x 10T	4.3
-40125M	8	210	300	ø3/4 x 10T	6.1
-40155M	10	250	380	ø7/8 x 14T	9.6
-40175M	12	250	440	ø7/8 x 14T	11.2

Heavy Duty Mechanical Gear Pullers

- Made of heavy-duty chrome vanadium steel
- Integrated design for internal and external uses



Size	Spread (mm)	2-Jaw	3-Jaw
		Order Code TFOT20	Order Code TFOT20
3"	15 - 80	-80003A	-70003A
4"	20 - 110	-80004A	-70004A
5"	20 - 127	-80005A	-70005A
6"	25 - 160	-80006A	-70006A
8"	30 - 210	-80008A	-70008A
10"	30 - 260	-80010A	-70010A
12"	50 - 310	-80012A	-70012A

Recommended applications:

- ** Gas pipes, natural gas pipes, water heater pipes: 13 - 19mm
- ** Oxygen-acetylene pipes, automotive fuel pipes: 10 - 16mm
- ** Household faucet pipes: 16 - 25mm
- ** Washing machine drain hoses: 21 - 44mm
- ** Range hood hoses: 155 - 178mm
- * Please note that these are general recommendations and may vary depending on the specific hose clips and applications
- * Minimum order quantity (MOQ): 20pcs/pack per size

Order Code TFOT03	Capacity (mm)	Order Code TFOT03	Capacity (mm)	Order Code TFOT03	Capacity (mm)
-01012A	6 - 12	-01051A	27 - 51	-01101A	78 - 101
-01016A	10 - 16	-01057A	33 - 57	-01108A	84 - 108
-01019A	13 - 19	-01063A	40 - 63	-01114A	91 - 114
-01025A	16 - 25	-01070A	46 - 70	-01127A	105 - 127
-01027A	14 - 27	-01076A	52 - 76	-01140A	118 - 140
-01032A	18 - 32	-01082A	59 - 82	-01152A	130 - 152
-01038A	21 - 38	-01089A	65 - 89	-01165A	141 - 165
-01044A	21 - 44	-01095A	72 - 95	-01178A	155 - 178

Aluminum Shark Shape Fixed Blade Trimming Knife

- Die cast zinc alloy body, lightweight yet sturdy and durable
- Shark-shaped body providing extremely comfortable grip and attractive appearance
- Fixed blade is more suitable for powerful cutting and prolonged use
- Body open and blade storage through a locking wheel
- Supplied with 1 high carbon steel blade



Order Code	Total Length (mm)
TFKN10	
-00003A	180

Replacement Blades

Order Code	Pack Quantity
TFKN10	
-90001P	10

Zinc Alloyed Heavy Duty Auto Loading Trimming Knife

- Heavy-duty die cast zinc alloy body, sturdy and durable
- Ergonomic compound handle providing comfortable grip and fatigue resistance
- Retractable blade for easy and safe use
- Auto-locking system secures the blade in place and preventing movement
- Tail press-to-open mechanism for quick blade change
- Supplied with 5 high carbon steel blades



Order Code	Total Length (mm)
TFKN10	
-00004A	187

Replacement Blades

Order Code	Pack Quantity
TFKN10	
-90001P	10

Zinc Alloyed Side-open Heavy Duty Auto Trimming Knife

- Heavy-duty die cast zinc alloy body, sturdy and durable
- Ergonomic compound handle, providing comfortable grip and fatigue resistance
- Retractable blade for easy and safe use
- Roller spring system secures the blade in place and preventing movement
- Side-open mechanism offers secure storage of blades
- Supplied with 5 high carbon steel blades



Order Code	Total Length (mm)
TFKN10	
-00005A	177

Replacement Blades

Order Code	Pack Quantity
TFKN10	
-90001P	10

Professional Auto Return Trimming Knife

- High-quality zinc alloy blade body, sturdy and durable
- High-quality high carbon steel blades, sharp and durable
- Automatic blade retraction for safety and convenience



Order Code	Length x Width (mm)
TFKN17	
-00001R	155 x 32

Replacement Blades

Order Code	Pack Quantity
TFKN10	
-90001P	10

Fixed Blade Trimming Knife

- Die cast zinc alloy body, lightweight yet sturdy and durable
- Fixed blade is more suitable for powerful cutting and prolonged use
- Supplied with 5 high carbon steel blades



Order Code	Total Length (mm)
TFKN10	
-00007A	133

Replacement Blades

Order Code	Pack Quantity
TFKN10	
-90001P	10

Professional Heavy Duty Trimming Knife

- Die cast zinc alloy body, lightweight yet sturdy and durable
- Serrated slots for accurate adjustment of cutting length
- Supplied with 5 high carbon steel blades



Order Code	Length x Width (mm)
TFKN10	
-00002A	155 x 35

Replacement Blades

Order Code	Pack Quantity
TFKN10	
-90001P	10

Utility Knives

- Bodies made of ABS + PVC, anti-slip
- High-quality carbon steel blades
- Wheel-locking style for added safety and stability
- Push-button style for easy one-hand operations



9mm x 13 Segment
Push-Button Style (-01009A)

9mm x 13 Segment
Wheel Locking Style (-01009B)

18mm x 7 Segment
Push-Button Style (-01008A)

25mm x 7 Segment
Wheel Locking Style (-01025B)

Order Code	Total Length (mm)	Blade Width (mm)	Segment	Type
TFKN20				
-01009A	130	9	13	Push-Button
-01009B	120	9	13	Wheel-Locking
-01018A	162	18	7	Push-Button
-01025B	175	25	7	Wheel-Locking

Replacement Blades

Order Code	Blade Width (mm)	Segment	Pack Quantity
TFKN20			
-90013P	9	13	10
-90008P	18	7	10
-90007P	25	7	10

Anti-Slip Utility Knives

- ABS body covered by non-slip strips
- High-quality carbon steel blades
- Metal rails ensure the accurate cutting length in place
- Modern, lightweight yet sturdy and long-lasting



Utility Knife

Order Code	Blade Width (mm)	Segment	Order Code	Pack Quantity
TFKN20			TFKN20	
-00013A	9	13	-90013P	10

Replacement Blades

5Pc Telescopic Magnetic Pick-Up & Inspection Mirror Kit

- Extended rods are made of stainless steel
- Set includes (1 of each item):
 - 8Lbs (3.6kg) pick-up tool
 - 8Lbs (3.6kg) flexible pick-up head
 - 3-1/2Lbs (1.6kg) fixed pick-up head
 - 3-1/2" x 2" (90 x 50mm) rectangular inspection mirror
 - 1-1/4" (32mm) round inspection mirror
- Packed in a EVA case



Order Code	Numbers of Pieces
TFOT10	
-16452K	5

3 LED TFM Pick Up Torch (Telescopic, Flexible and Magnetic)

- Versatile for pickup and illumination applications
- This tool with 3 LED lights, can be extended up to 22 inches long, which can be used for lighting and picking up objects even in dark corners
- Aluminum alloy body with powerful magnetic head and base
 - Basic water proof
- Power supply: 4 x LR44 batteries
- Gift package



Order Code	Closed Length (mm)	Extended Length (mm)	Head Diameter (mm)	Weight (g)
TFOT10				
-40002T	170	575	22	90

Flexible Pick Up Tool with LED Light

- Comes with a powerful LED light
- Magnetic head can pick up any ferrous material



Order Code	Length (mm)
TFOT10	
-10010L	571

Telescopic Pick Up Tool

- Telescopic rod with 4 extended segments
- Swivel head for easy access in hard-to-reach places



Order Code	Closed Length (mm)	Extended Length (mm)	Shank Diameter (mm)
TFOT10			
-30010A	177	580	8.0

Pen Type Magnetic Pick Up Tool

- Telescopic rod is suitable for picking up screws, washers, fittings and any other small ferrous objects from hard-to-reach spaces



Order Code	Head Diameter (mm)	Extended Length (mm)	Lifting Force (kg)
TFOT10			
-20010P	10	635	1.5
-20013P	13	635	3.0

LED Flexible Inspection Mirror

- This mirror can be bent and fixed in a desired direction for inspection and illumination
- It has a 360° rotating double-ball joint for easy viewing from multiple angles



Order Code	Mirror Size (mm)	Overall Length (mm)
TFOT10		
-10020D	50 x 80	575

Flexible Inspection Mirror

- Fully flexible shaft and fixed head with mirror 50mm diameter to give good visibility in concealed areas



Order Code	Mirror Size (mm)	Overall Length (mm)
TFOT11		
-10050D	Ø50	450

Internal & External Spring Calipers

- Made of carbon steel
- Internal calipers are used to measure hole diameters and distances between surfaces
- External calipers are used to measure thicknesses and outside diameters of objects

Internal	External	
Order Code TFOT02	Order Code TFOT02	Leg Length
-10075A	-20075B	75mm / 3"
-10100A	-20100B	100mm / 4"
-10125A	-20125B	125mm / 5"
-10150A	-20150B	150mm / 6"
-10200A	-20200B	200mm / 8"
-10250A	-20250B	250mm / 10"
-10300A	-20300B	300mm / 12"
-10400A	-20400B	400mm / 16"
-10500A	-20500B	500mm / 20"
-10600A	-20600B	600mm / 24"
-10800A	-20800B	800mm / 32"
-11000A	-21000B	1000mm / 40"



Spring Dividers

- Made from high carbon steel with uniformly hardened spring and working edges
- Used for marking out work. Sharp points can be used to scribe the steel workpieces, creating arcs and circles with hardness below HRC22
- Also can be used on leather, woods but not paper

Order Code TFOT02	Leg Length
-40100A	100mm / 4"
-40125A	125mm / 5"
-40150A	150mm / 6"
-40200A	200mm / 8"
-40250A	250mm / 10"
-40300A	300mm / 12"
-40400A	400mm / 16"
-40500A	500mm / 20"
-40600A	600mm / 24"
-40800A	800mm / 32"
-41000A	1000mm / 40"



Carpenters Dividers

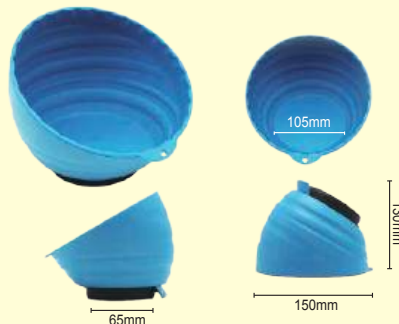
- Made from high carbon steel
- Ideal for woodworking, both as a scribe and compass for all your marking needs
- Wing nut allowing you simply loosen the nut and one leg swings free which is excellent for big measurements
- Applicable materials: steel, plastic, wood and leather

Order Code TFOT02	Leg Length
-50100A	100mm / 4"
-50125A	125mm / 5"
-50150A	150mm / 6"
-50200A	200mm / 8"
-50250A	250mm / 10"
-50300A	300mm / 12"
-50400A	400mm / 16"
-50500A	500mm / 20"
-50600A	600mm / 24"
-50800A	800mm / 32"
-51000A	1000mm / 40"



Magnetic Plastic Bowl

- Made with oil-and-fuel-resistant thermoplastic polymer plastic, for durable and long lasting use
- Unique design holds twice as many small parts than conventional magnetic trays
- The asymmetrical bowl shape safely cradles tools and supplies whether flat on a surface or hung on a wall
- Strong magnet with rubber cover, bowl base can be attached to any iron surfaces



Order Code TFOT10	Mouth Dia. (mm)	Base Dia. (mm)	Height (mm)
-03150B	150	105	130

Zeiss High Definition Magnifier for Metal Identification

- Made of zinc alloy glass holder (black paint) and 2 pieces of Zeiss optical glass lens. Light weight, easy to carry
- Perfect for watch making or repair, viewing jewelry, coins, stamps, houseplants, rock collection, horticulture and so on



Order Code TFOT04	Magnification	Size (mm)
-04030A	30x	ø43 x 30mm

Jewellers Eye Loupe

- Made of ABS and 2 pieces of HD acrylic lens
- Suitable for inspecting jewelries, watches, stamps, coins, notes, machine parts, etc.



Order Code TFOT04	Magnification	Size (mm)
-04110A	10x	ø50 x 48mm

Jewellers Eye Loupe

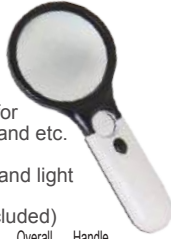
- Built from durable metal with an optical glass and a dual LED light source
- Bright LED for clearly seeing objects in the dark or in low light
- UV LED for detecting counterfeit banknotes, which is used for banknotes, passports, credit cards and traveler's checks, etc.
- Compact and easy to carry
- Requires 3pcs of LR1130 batteries (included)



Order Code TFOT04	Magnification	Lens Diameter (mm)	Size (mm)		Weight (g)
			Opening	Folding	
-04240A	40x	25	105 x 30 x 28	62 x 30 x 28	192

3 LED Double Lens Hand-held Magnifier

- ABS material with the large lens made of glass and the small lens made of acrylic
- Independent lighting design, 2 LED lights for the large lens and 1 LED for the small one, ensure better lighting effect
- Switch to turn lights on and off, great for reading, circuits, jewelry evaluating, and etc.
- Comfortable ergonomic handle
- Compact and stylish design, portable and light weight
- Powered by 3 x AAA batteries (not included)



Order Code	Large Lens Magnifications	Small Lens Magnifications	Large Lens Dia. (mm)	Small Lens Dia. (mm)	Overall Length (mm)	Handle Length (mm)	Weight (g)
TFOT04							
-03103A	3x	45x	75	22	190	110	120

12 LED Hand-held Magnifier with Aluminum Alloyed Handle

- Aluminum handle with acrylic lens
- An excellent tool for reading newspapers, magazines, maps, small print books, bills or fine print in legal documents
- 2-position lighting button switch: the 1st position for all 12 LED lights on and the 2nd position for just 6 LED lights on
- Detachable, easy to carry
- Powered by 2 x AA batteries (not included)



Order Code	Main Lens Magnifications	Sub. Lens Magnifications	Main Lens Dia. (mm)	Sub. Lens Dia. (mm)	Overall Length (mm)	Weight (g)
TFOT04						
-03205A	5x	10x	85	20	240	267

Full Optical Lense Scaled LED Magnifier

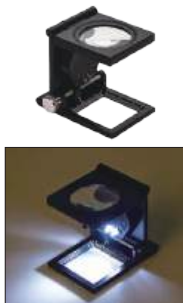
- Aluminum handle, drop-resistant, waterproof and durable
- A High-quality optical glass lens
- A Built-In 3 LED lighting and millimeter and inch scales for accurate reading
- A Suitable for jewelry restoration and identification, document authentication, drawing/map reading, modeling process, etc.
- Powered by 2 x AA batteries (not included)



Order Code	Magnifications	Lens Dia. (mm)	Size (mm)	Weight (g)
TFOT04				
-03710A	10x	25	180 x 58 x 48	150

Black Double LED Foldable Magnifier

- Constructed of zinc alloy with a black anodized finish, 2 LED illumination, mm/inch scaled
- Originally designed for looking at the quality and number of threads in linen but are also widely used for inspection of printed materials such as circuit boards
- Foldable, easy to carry
- Powered by 3 x LR927 batteries (included)



Order Code	Magnifications	Lens Dia. (mm)	Size (mm)		Weight (G)
			Open	Folded	
TFOT04					
-09010A	10x	28	56 x 48 x 50	56 x 48 x 33	106

5x LED Paperweight Glass Magnifier

- Black ABS casing with silver-plated dome, optical lens for clear and sharp imaging
- Ideal for reading small text or observing details on photos, coins and stamps
- Equipped with 3 bright LED lights to enhance text or objects in low-light environments, just a single press around the dome magnifier
- Auto-off after around 10 minutes without any touch on the magnifier
- Powered by 2 x CR2016 batteries (included)



Order Code	Magnifications	Lens Dia. (mm)	Size (mm)	Weight (g)
TFOT04				
-01268A	5x	Ø68	Ø92 x 50	150

60x Mini Phone Camera Clip Magnifiers

- Black ABS casing, optical acrylic lens
- Features 2 LED lights, adjustable for focus and cool/warm lighting; 1 UV light to quickly identify the authenticity of banknotes
- Widely used in industrial purposes, circuit boards and printing industry, medicine, gardening, stamp/jewelry appraisal, education, geography, home and office etc.
- Powered by 3 x LR1130 batteries (included)



Order Code	Colour	Magnifications	Lens Dia. (mm)	Size (mm)	Weight (g)
TFOT04					
-09882A	White				
-09882B	Black	10x	11	60 x 23 x 63	26
-09882C	Silvery				

3 LED Head Loup with Interchangeable Lenses - USB Charging

- ABS frame with 6 optical acrylic lenses, allowing 31 magnification combinations by changing lens
- Movable headband built in with 2 LED lights, 2-position angle adjustable to achieve optimal lighting effect
- Features a small swivel round magnifier with 8x magnification, for auxiliary reading purpose
- Lightweight for burdened or uncomfortable free
- Perfect for dentists, electricians, jewelers, sewing, crafts, beauty, painting and the elderly
- USB charging interface with a detachable battery compartment. Once full charge can last 8-12 hours



Order Code	Magnification Combinations	Lens Magnifications (Interchangeable)	Focus Distance (mm)	Size	Weight (g)
				(mm)	
TFOT04					
-03831A	31	1x, 1.5x, 2x, 2.5x, 3x	35 - 500	295 x 212 x 60	238

Desktop LED Lighted Magnifying Glass Soldering Station

- A useful aid for soldering work or model makers
- Acrylic optical lens, adjustable cool/warm lighting
- Adjustable crocodile holding clamps
- Multiple power supply methods:
 - 1) USB cable as standard
 - 2) Optional AC power adapter: 110V-240V/50Hz
 - 3) Battery powered: 3 x AAA
- Product dimensions: 220 x 155 x 220mm
- Product weight: 660g



Order Code	Magnification		Lens Diameter (mm)		Focal Distance (mm)	
	Large Lens	Small Lens	Large Lens	Small Lens	Large Lens	Small Lens
-01635A	3.5x	5.25x	90	19.5	142	47

6 LED Bench Magnifier

- Simple and elegant design with acrylic optical lens
- ABS casing with metal base and neck
- Metal base ensures that the lamp does not tilt
- 360° bendable metal neck allows for flexible lens height and position
- With 6 LED lights, great for reading assistance in low-light conditions

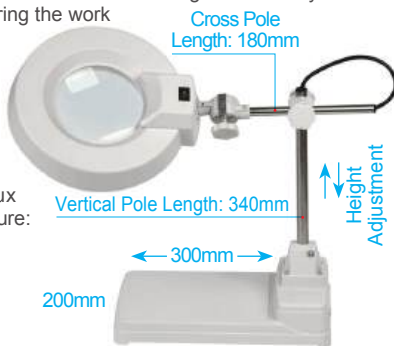


Order Code	Magnifications	Focus Distance (mm)	Power Input (V)	Dimensions (mm)	Weight (g)
		-01108A	8x	210	110 - 240

Illuminated LED Desktop Magnifiers

- Most suitable for carving, experimental research, circuit maintenance, medical office, jewelry appraisal, handwork, reading and so on
- Optical grade lens shines uniformly, makes superb quality image without distortions
- HD lens have high transparency and clarity, without any color difference, designed for people with vision problems such as macular degeneration
- Ergonomic design with clean and beautiful appearance, 180° rotatable lens
- 30 LED lights ensures a lifespan up to 50,000 hours
- ABS frame offers hard and anti-scratching feature, also resistant to slip and dirt
- Robust base has a metal counterweight for stability and does not tilt during the work
- Technical specifications:

Input power: 160-240V / 47-63Hz
 Power: 22W
 Lumen: 1,600-13,000Lux
 Color temperature: 6,500K



Order Code	Magnification	Lens Dia. (mm)
-01010A	10x	127
-01020A	20x	127

LED Folding Desktop Magnifiers

- Applicable to circuit board test, electronic repair, jewelry appraisal, newspaper reading and miniature engraving etc.
- Unique curved arm design, folded freely
- HD optical white glass lens, high brightness LED beads, pure and flicker-free
- 360° rotatable large lens with wide vision, clear imaging with no distortion and eye protection
- Heavy-duty painted arms, flexible and durable, resistant to rust
- Heavy-duty ABS base for maximum stability
- Versatile, can be used as a desk lamp
- Technical specifications:
 Input power: 160-240V / 47-63Hz
 Power: 15W
 Lumen: 1,600-13,000Lux
 Color temperature: 6,500K



Rectangular Lens (54 LED beads, stepless dimming)



Circular Lens (30 LED beads, stepless dimming)

Order Code	Model	Magnifications	Lens Size (mm)
-01210A	Rectangular Lens	10x	113 x 177
-01310A	Circular Lens	10x	ø127
-01320A	Circular Lens	20x	ø127

Industrial LED Folding Desktop Magnifiers with Stainless Steel Arms

- Applicable to circuit board test, electronic repair, jewelry appraisal, newspaper reading and miniature engraving etc.
- Equipped with 104 LED beads, fully meeting the industrial requirements
- Genuine stainless steel arms, rust-proof, corrosion-resistant, and remains smoothness and flexibility even after long-term use
- High-quality large optical lens in 128mm diameter, providing clear imaging and enhanced heat and impact resistance
- Stepless dimming, flicker-free, effectively protecting the eyes
- Technical specifications:
 Input power: 220V / 50Hz
 Power: 15W
 Lumen: 1,500Lux
 Color temperature: 6,400K



Order Code	Magnifications	Lens Dia. (mm)
-01410A	10x	ø128
-01420A	20x	ø128
-01430A	30x	ø128

72 LED Cantilever Magnifying Lamps

- Integrated formed aluminum oxide frame, resistant to corrosion and durable
- Illuminates brighter, and lasts longer than traditional LED or fluorescent lights, by providing 100,000 hours of shadow free light for a variety of tasks
- Selected 72 high-brightness LED beads, 36 beads for white light and 36 beads for warm light, uniformly illuminate with no dark areas
- Selected PS transparent panel for high transparent effect
- HD magnification without distortion
- 3 color modes: warm light, warm white light and white light
- Stepless dimming, 10 brightness dimming levels, multi-angle illumination and flicker-free
- **Dual installation modes, supplied with clip and base as standard**
- Standard power supply: USB
- Optional power supply: connected to mains power by a 5V1A/2A power adapter

Clip-on VFX



Desktop VFX



	Order Code TFOT04 -01510A	Order Code TFOT04 -01510B
Product Color	White	Black
Magnification	10x	
Circular Lamp Diameter (mm)	Outer: 160 Inner: 105	
Arm Length (mm)	Upper Arm: 270	Lower Arm: 235
Color Temperature	3000K - 6500K	
Color Rendering Index	Ra > 90	
LED Power (W)	12	
Type of Switch	Button	
Dimensions (mm)	320 x 260 x 50	
Weight (kg)	1	

Wood Handled Stainless Steel Scapers

- Made of f stainless steel, blade thickness up to 0.7-0.8mm
- Mirror finished blades with high strength and durability for longevity
- Exquisite wood handles with burrs and paint free
- Double riveting structure for steady grip



Order Code	Blade Width (mm)	Blade Length (mm)	Overall Length (mm)	Weight (g)
TFOT06				
-01002A	50	95	200	70
-01003A	75	105	210	80
-01004A	100	105	210	80
-01005A	125	105	210	100

400cc Industrial Grease Guns

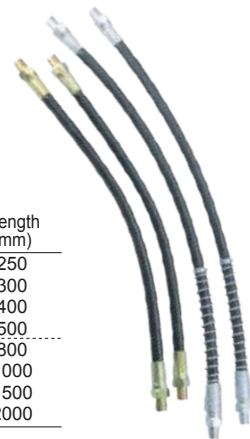
- Made of high-quality electroplated seamless steel pipes
- Industrial grade, well-sealed grease tubes for smooth and durable use
- Knurled bodies provide a safe and easy grip
- 3 grease filling methods: cartridge, suction, and bulk filling
- Supplied with:
 - 1 x 170mm metal pipe extension
 - 1 x 300mm flexible hose
 - 1 x conical hydraulic connector
 - 1 x 4-jaw hydraulic connector



Order Code	Color	Capacity		Pressure (psi)
		Suction Filling	Cartridge Filling	
TFLB01				
-10400A	Black	400cc	400g/14oz	4500
-01400A	Silvery	400cc	400g/14oz	4500

Flexible Nylon Resin Rubber Hoses

- 1/8" BSPT male ends



Flexible	Flex Spring	
Order Code TFLB01	Order Code TFLB01	Length (mm)
-90025A	-	250
-90030A	-90030B	300
-90040A	-90040B	400
-90050A	-90050B	500
-90080A	-90080B	800
-	-90100B	1000
-	-90150B	1500
-	-90200B	2000

Hydraulic Connectors

Conical, ZP 4-Jaw, ZP Hook-On, Brass



Order Code	Type	Thread	Minimum Pack Qty.
TFLB01			
-80100A	Conical, ZP	M10 x 1	100
-81028A	4-Jaw, ZP	1/8" - 27 NPT	10
-82028C	Hook-On, Brass	1/8" - 28 BSPT	10

304 Stainless Steel Grease Nipples

- These stainless steel nipples are made from high-quality 304 stainless steel and are case hardened to prevent wear on the head profiles
- Minimum pack quantity: 100pcs

Straight 45° 90° Button Head



Metric

Order Code	Thread Size	Type	
TFLB01			
-51060A	M6 x 1	Straight	
-51060B		45°	
-51060C		90°	
-51060D		Button	
-51080A	M8 x 1	Straight	
-51080B		45°	
-51080C		90°	
-51080D		Button	
-51082A	M8 x 1.25	Straight	
-51082B		45°	
-51082C		90°	
-51100A		Straight	
-51100B	M10 x 1	45°	
-51100C		90°	
-51100D		Button	
-51102A		Straight	
-51102B	M10 x 1.5	45°	
-51102C		90°	
-51120A		Straight	
-51120B		M12 x 1	45°
-51120C	90°		
-51122A	Straight		
-51122B	M12 x 1.5		45°
-51140A		Straight	
-51140B		M14 x 1	45°
-51140C			90°

UNF & NPT

Order Code	Thread Size	Type
TFLB01		
-56030A	1/4" - 28 UNF	Straight
-56030B	28 UNF	45°
-56030C		90°
-56036A	3/8" - 24 UNF	Straight
-57028A	1/8" - 27 NPT	Straight
-57028B		45°
-57028C		90°

BSP(T)

Order Code	Thread Size	Type
TFLB01		
-61028A	1/8" - 28 BSP(T)	Straight
-61028B		45°
-61028C		90°
-61030A	1/4" - 19 BSP(T)	Straight
-61030B		45°
-61030C		90°

ZP Grease Nipples

- Minimum pack quantity: 100pcs

Straight 45° 90°



Metric

Order Code	Thread Size	Type	
TFLB01			
-50060A	M6 x 1	Straight	
-50060B		45°	
-50060C		90°	
-50060D		Button	
-50080A	M8 x 1	Straight	
-50080B		45°	
-50080C		90°	
-50080D		Button	
-50082A	M8 x 1.25	Straight	
-50082B		45°	
-50082C		90°	
-50100A		Straight	
-50100B	M10 x 1	45°	
-50100C		90°	
-50100D		Button	
-50102A		Straight	
-50102B	M10 x 1.5	45°	
-50102C		90°	
-50120A		Straight	
-50120B		M12 x 1	45°
-50120C	90°		
-50122A	Straight		
-50122B	M12 x 1.5		45°
-50140A		Straight	
-50140B		M14 x 1	45°
-50140C			90°

UNF & NPT

Order Code	Thread Size	Type
TFLB01		
-54030A	1/4" - 28 UNF	Straight
-54030B		45°
-54030C		90°
-54033A	5/16" - 24 UNF	Straight
-54033B		45°
-54033C		90°
-54036A	3/8" - 24 UNF	Straight
-54036B		45°
-54036C		90°
-55028A	1/8" - 27 NPT	Straight
-55028B		45°
-55028C		90°
-55030A	1/4" - 18 NPT	Straight
-55030B		45°
-55030C		90°

BSP(T)

Order Code	Thread Size	Type
TFLB01		
-60028A	1/8" - 28 BSP(T)	Straight
-60028B		45°
-60028C		90°
-60030A	1/4" - 19 BSP(T)	Straight
-60030B		45°
-60030C		90°

Brass Grease Nipples

- Minimum pack quantity: 100pcs

Straight 45° 90° Button Head



Metric

Order Code	Thread Size	Type	
TFLB01			
-52060A	M6 x 1	Straight	
-52060B		45°	
-52060C		90°	
-52060D		Button	
-52080A	M8 x 1	Straight	
-52080B		45°	
-52080C		90°	
-52080D		Button	
-52082A	M8 x 1.25	Straight	
-52082B		45°	
-52082C		90°	
-52100A		Straight	
-52100B	M10 x 1	45°	
-52100C		90°	
-52100D		Button	
-52102A		Straight	
-52102B	M10 x 1.5	45°	
-52102C		90°	
-52120A		Straight	
-52120B		M12 x 1	45°
-52120C	90°		
-52122A	Straight		
-52122B	M12 x 1.5		45°
-52140A		Straight	
-52140B		M14 x 1	45°
-52140C			90°

UNF & NPT

Order Code	Thread Size	Type
TFLB01		
-58030A	1/4" - 28 UNF	Straight
-58030B		45°
-58030C		90°
-58033A	5/16" - 24 UNF	Straight
-58033B		45°
-58033C		90°
-58036A	3/8" - 24 UNF	Straight
-58036B		45°
-58036C		90°
-59028A	1/8" - 27 NPT	Straight
-59028B		45°
-59028C		90°
-59030A	1/4" - 18 NPT	Straight
-59030B		45°
-59030C		90°

BSP(T)

Order Code	Thread Size	Type
TFLB01		
-62028A	1/8" - 28 BSP(T)	Straight
-62028B		45°
-62028C		90°
-62030A	1/4" - 19 BSP(T)	Straight
-62030B		45°
-62030C		90°

9" Metal Caulking Guns for 310ml Cartridges - 360° Rotating Cradle Barrels

- Widely used for sealing, caulking and adhesive applications in industrial and architectural decoration fields

Stainless Steel

- Made of stainless steel for beautiful appearance and rust resistant
- The design of this Temo sealant gun enables precise applications, allowing you to have better control over dispensing the sealant or adhesive

Heavy Duty

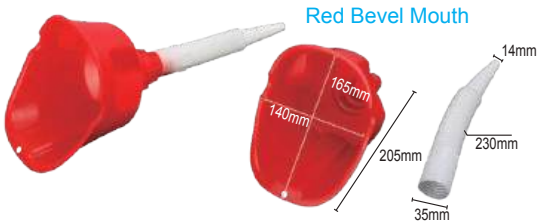
- Ribbed cradle barrel and powerful ratchet plunger gives additional strength for heavy-duty and durable use
- Easy operation for smooth and precise applications, allowing you to have better control over dispensing the sealant or adhesive



Order Code	Type	Size	Cartridge (ml)
TFOT01			
-10310A	Stainless steel	9"	310
-12310A	Heavy Duty	9"	310

Industrial Multi-usage Plastic Funnels

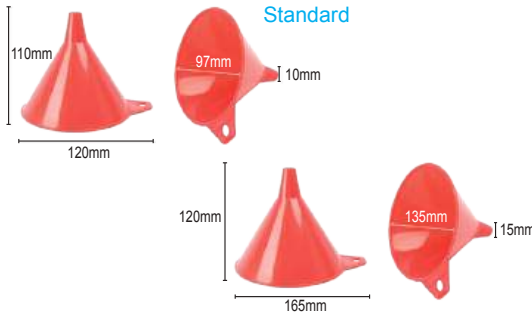
- Made of flexible plastic material, which is not easy to break, environmentally friendly, reusable, convenient to use and durable for long time use
- The black funnel comes with a filter screen, which can effectively remove impurities



Red Bevel Mouth



Black Cup



Standard

Order Code	Type	Height (mm)	Mouth Dia. (mm)	Weight (g)
TFLB05				
-01165A	Red Bevel Mouth	205	165 x 140	86
-02145B	Black Cup	185	145	84
-03097A	Standard	110	97	18
-03135A	Standard	120	135	26

Metal Oil Cans

- Manufactured from high quality double-seamed steel, metal pump and valve for sturdy and durable use
- Red stove enameling
- Flexible grid spout for easy positioning
- Not applicable to chemical fluids or grease



Order Code	Capacity (ml)	Weight (g)
TFLB01		
-04150A	500	244

Liquid Measures - Food Grade

- Food-grade, made of high-quality LDPE material
- Non-toxic and harmless, safe and hygienic, environmentally friendly
- 2mm thickened wall, sturdy and durable
- Anti-drop, durable, high transparency and flame retardant
- Crafted, smooth bodies with no burrs and bubbles
- With precision graduation



Order Code	Capacity (ml)	Mouth Diameter (mm)	Height (mm)
TFOT39			
-01050A	500	98.0	109.0
-01100A	1000	110.0	145.0
-01200A	2000	129.0	202.0
-01300A	3000	166.0	218.0
-01500A	5000	198.0	255.0

Wash Bottles with Bent Nozzles - Food Grade

- Food-grade, made of high-quality LDPE material
- Non-toxic and harmless, safe and hygienic, environmentally friendly
- 2mm thickened wall, sturdy and durable
- Leak-proof due to integrally-formed cap and nozzle
- Crafted, smooth bodies with no burrs and bubbles



Order Code	Capacity (ml)	Mouth Diameter (mm)	Height (mm)
TFOT39			
-05025B	250	21.0	130.3
-05050B	500	25.0	167.4
-05100B	1000	25.0	200.0

Wash Bottles - Food Grade

- Food-grade, made of high-quality LDPE material
- Non-toxic and harmless, safe and hygienic, environmentally friendly, resistant to acid and alkali, sturdy and durable
- Textured surface for additional firm and comfortable grip
- Leak-proof due to integrally-formed cap and nozzle
- Crafted, smooth bodies with no burrs and bubbles
- With precision graduation



Mini Cap with Link

Blue Cap Straight Nozzle

Yellow Cap Steel Nozzle

Order Code	Type	Capacity (ml)	Bottom Diameter (mm)	Height (mm)	Nozzle length (mm)
TFOT39					
-20035A	Mini, Cap with Link	35	35.0	59.0	48.0
-21180A	Blue Cap	180	54.0	107.0	119.0
-21300A	Straight Nozzle	300	60.0	135.0	119.0
-21400A	Straight Nozzle	400	65.5	160.0	119.0
-22180C	Yellow Cap	180	64.0	120.0	100.0
-22300C	Steel Nozzle	300	60.0	150.0	100.0
-22400C	Steel Nozzle	400	65.5	177.0	100.0

Food Grade HDPE Jerry Cans

- Quality plastic HDPE jerry cans, free from fluorescent agents and plasticizers
- Food safe grade, passed the quality inspection on food contact plastic materials and products
- Can be used to store water, juices, home brewing etc and general food products
- Also suitable for powders, pastes, paints, gardening products, toiletries, oils, detergents, health and beauty, household products, DIY products, household chemicals etc.
- When fulfilled with liquid, they can be stacked up to 5 layers without tilting
- Extremely strong sealing, no leakage when being placed upside down

**Label printing service is available



5-Layers Stackable

Optional Accessory - Vent Cap (Suitable for 20 - 30L cans)



Order Code	Colour	MOQ
TFSL01		
-91000P	Translucent	5
-91001P	Milky White	5
-91004P	Blue	5
-91005P	Black	5

Purified Water Storage



Cap Types

Type A: Cap + PE Sealing Ring



Type B: Cap + HDPE Inner Insert



When fulfilled with liquid, they can be stacked up to 5 layers without tilting

Order Code	Color	Capacity (L)	Height (mm)	Length (mm)	Wide (mm)	Top Mouth Diameter (mm)	Weight (g)	Attached Cap
TFSL01								
-50050B	Translucent	5	250	175	155	42 ± 0.2	285 ± 5	B
-54050B	Blue	5	250	175	155	42 ± 0.2	285 ± 5	B
-50100B	Translucent	10	305	215	190	42 ± 0.2	500 ± 5	B
-54101B	Blue (scaled)	10	305	215	190	42 ± 0.2	500 ± 5	B
-50200A	Translucent	20	432	297	234	46 ± 0.2	1200 ± 10	A
-50200B	Translucent	20	432	297	234	46 ± 0.2	1200 ± 10	B
-50200C	Translucent	20	432	297	234	46 ± 0.2	1200 ± 10	Vent Cap
-51200B	Milky White	20	378	274	260	46 ± 0.2	1200 ± 10	B
-54200A	Blue	20	432	297	234	46 ± 0.2	1200 ± 10	A
-54200B	Blue	20	432	297	234	46 ± 0.2	1200 ± 10	B
-54200C	Blue	20	432	297	234	46 ± 0.2	1200 ± 10	Vent Cap
-50250A	Translucent	25	432	300	282	46 ± 0.2	1400 ± 10	A
-50250B	Translucent	25	400	295	275	46 ± 0.2	1300 ± 10	B
-50250C	Translucent	25	432	300	282	46 ± 0.2	1400 ± 10	Vent Cap
-51250B	Milky White	25	400	295	275	46 ± 0.2	1300 ± 10	B
-54250A	Blue	25	432	300	282	46 ± 0.2	1400 ± 10	A
-54250B	Blue	25	400	295	275	46 ± 0.2	1300 ± 10	B
-54250C	Blue	25	432	300	282	46 ± 0.2	1400 ± 10	Vent Cap
-50300A	Translucent	30	427	327	286	46 ± 0.2	1520 ± 10	A
-50300B	Translucent	30	446	312	302	46 ± 0.2	1500 ± 10	B
-50300C	Translucent	30	427	327	286	46 ± 0.2	1520 ± 10	Vent Cap
-54300A	Blue	30	427	327	286	46 ± 0.2	1520 ± 10	A
-54300B	Blue	30	446	312	302	46 ± 0.2	1500 ± 10	B
-54300C	Blue	30	427	327	286	46 ± 0.2	1520 ± 10	Vent Cap

Food Grade Multi-usage Paint Pails with Hand Carriers

- Made of high-density PP, with high hardness, free from fluorescent agents and plasticizers, not easy to deform and lasting
- Food-grade, widely suitable for storage of paints, coatings, adhesives, inks, motor oils, seafoods, and more
- Tear-off & snap-on lid for extremely strong sealing, refused to any leakage
- With high load-bearing capacity, the pail can easily withstand human body weight without deformation or liquid leakage

**Label printing service is available

Capacity(L)	Height(mm)	Top Dia. (mm)	Bottom Dia. (mm)	Inner Dia. (mm)
20	384	300	270	292
10	280	260	220	252
5	210	214	191	207



Order Code	Color	Image
TFSL01		
20L		
-01200A	Milk White	1
-01200B	Milk White	2
-02200A	Yellow	1
-02200B	Yellow	2
-03200A	Red	1
-03200B	Red	2
-04200A	Blue	1
-04200B	Blue	2
-05200A	Black	1
-05200B	Black	2
-06200A	Green	1
-06200B	Green	2
-07200A	Grey	1
-07200B	Grey	2
10L		
-00100A	Clear	3
-01100A	Milk White	1
5L		
-00050A	Clear	3
-01050A	Milk White	1
-05050A	Black	1

Pouring Test



Load-Bearing Test



Paint Pail Openers

- ABS material, sturdy and durable
- Suitable for all PP pails on this page
- Pack quantity: 2 pieces



Order Code	Jaw Width (mm)	Overall Length (mm)	Thickness (mm)	Pack Qty.
TFSL01				
-93001A	48	200	17	2

Food Grade HDPE Detergent Containers

- Made of selected HDPE masterbatch, free from fluorescent agents and plasticizers, capable of withstanding high-intensity loads and run-over
- Food-grade, widely suitable for storage of food concentrates, liquors, detergents and disinfectants
- Dustproof cap effectively prevents dust and harmful substances from entering
- Multi-layer acid and alkali-resistant aluminum foil gasket provides excellent sealing for repeat use
- Tamper evident cap - this kind of anti-theft cap is usually designed with a special fragile structure, which will be destroyed when it is opened. It is convenient for consumers to identify whether the package has been opened
- Certified to meet national food safety standards

**Label printing service is available



Aluminum Foil Gasket (supplied as standard)

Dust-free Pad (supplied as standard)

Car Run-over Test



Order Code	Color	Capacity (L)	Height (mm)	Length (mm)	Width (mm)	Mouth ID. (mm)	Weight (g)
TFSL01							
-20010A	Translucent	1	178	142	74	32	97 ± 5
-21010A	Milk White	1	178	142	74	32	97 ± 5
-20020A	Translucent	2	203	157	105	32	128 ± 5
-21020A	Milk White	2	203	157	105	32	128 ± 5
-20030A	Translucent	3	259	160	105	32	154 ± 5
-21030A	Milk White	3	259	160	105	32	154 ± 5
-20040A	Translucent	4	281	168	124	32	185 ± 5
-21040A	Milk White	4	281	168	124	32	185 ± 5
-25040A	Black	4	281	168	124	32	185 ± 5
-20050A	Translucent	5	300	181	132	32	238 ± 5
-21050A	Milk White	5	300	181	132	32	238 ± 5
-24050A	Blue	5	300	181	132	32	238 ± 5
-25050A	Black	5	300	181	132	32	238 ± 5
-28050A	Orange	5	300	181	132	32	238 ± 5
-20100A	Translucent	10	365	233	173	32	444 ± 5
-21100A	Milk White	10	365	233	173	32	444 ± 5
-24100A	Blue	10	365	233	173	32	444 ± 5

Pump Dispensers

- This plastic pump dispenser can fit into most detergent containers or bottles
- Metal spring for easier pressing and dispensing
- Minimum order quantity: 5 pieces



Order Code	Tube Length (mm)
TFSL01	
-90055P	55
-90075P	75
-90100P	110
-90120P	120
-90130P	130
-90150P	150
-90165P	165
-90170P	170
-90186P	186
-90210P	210
-90242P	242
-90282P	282

Lid Spanners

- Made of high-density PP, durable for longevity
- Precision molding for precise snap-locking
- Ideal for opening lids on plastic containers and jerry cans or tightening the caps of your containers
- Simple and effortless operation



Order Code	Color	Applicable Containers / Jerry Cans (L)	MOQ.
TFSL01			
-92210P	Yellow	5 - 10	2
-92310P	Red	5 - 10	2
-92410P	Blue	5 - 10	2
-92510P	Black	5 - 10	2
-92230P	Yellow	20 - 30	2
-92330P	Red	20 - 30	2
-92430P	Blue	20 - 30	2
-92530P	Black	20 - 30	2

Food Grade Round Plastic Reagent Bottles - Small Mouth

- Made of heavy-duty HDPE, capable of withstanding high-intensity loads and run-over
- Food-grade, widely storage of chemical reagents, paints, glues, inks, engine oils etc.
- Multi-layer acid and alkali-resistant aluminum foil gasket provides excellent sealing for repeat use
- Tamper evident cap - this kind of anti-theft cap is usually designed with a special fragile structure, which will be destroyed when it is opened. It is convenient for consumers to identify whether the package has been opened
- Certified to meet national food safety standards

**Label printing service is available



Order Code	Color	Capacity (ml)	Height (mm)	Mouth ID (mm)	Bottle Dia. (mm)	Weight (g)	MOQ.
TFSL02							
-00025A	Translucent	250	125	32	62	35 ± 3	80
-01025A	White	250	125	32	62	35 ± 3	80
-04025A	Blue	250	125	32	62	35 ± 3	80
-05025A	Black	250	125	32	62	35 ± 3	80
-00030A	Translucent	300	147	32	62	42 ± 3	70
-01030A	White	300	147	32	62	42 ± 3	70
-00050A	Translucent	500	192	32	67	56 ± 3	50
-01050A	White	500	192	32	67	56 ± 3	50
-04050A	Blue	500	192	32	67	56 ± 3	50
-05050A	Black	500	192	32	67	56 ± 3	50
-00100A	Translucent	1000	220	32	90	87 ± 3	25
-00100B	Translucent (Scaled)	1000	220	32	90	87 ± 3	25
-01100A	White	1000	220	32	90	87 ± 3	25
-04100A	Blue	1000	220	32	90	87 ± 3	25
-05100A	Black	1000	220	32	90	87 ± 3	25

Plastic Chemical Drums

- Made of heavy-duty HDPE for durable and long time use
- Suitable for storage of purified water, edible oils, yeast liquids, industrial waste liquids, disinfectants, fragrances, and oily liquids etc.
- Thickness of drum wall up to 4.48mm
- Gripping indentation on the bottom is designed for easy pouring



Order Code	Color	Capacity (L)	Height (mm)	Mouth ID (mm)	Drum Dia. (mm)	Weight (kg)
TFSL09						
-01100A	Milk White	100	690	345	500	4.6
-01150A	Milk White	150	750	390	560	6
-04200A	Blue	200	950	345	580	9

Food Grade Plastic Pharmaceutical Bottles - Round Mouth

- Made of heavy-duty HDPE for with aluminum foil gasket, ensuring worry-free sealing
- Great fitness of the bottle mouths and caps, ensuring the sealing of the bottles
- Aluminum foil induction lined caps, ensuring the sealing and convenient for transportation
- CRC caps, must be pressed down and then twisted counterclockwise to open. This makes it difficult for a child to open, while not making it difficult for adults to use
- Certified to meet national food safety standards

**Label printing service is available



Order Code	Color	Cap Type	Capacity (ml)	Height (mm)	Mouth ID (mm)	Bottle Dia. (mm)	Weight (g)	MOQ.
TFSL02								
-21020A	Milk White	Threaded	20	26	19	28	6 ± 1	100
-21030A	Milk White	Threaded	30	48	28	37	11 ± 1	100
-21040A	Milk White	Threaded	40	63	28	37	10 ± 1	100
-21050A	Milk White	Threaded	50	70	28	40	13 ± 1	100
-21070A	Milk White	Threaded	70	73	28	42	13 ± 1	100
-21100A	Milk White	Threaded	100	85	35	48	16 ± 1	100
-21112B	Milk White	CRC	112	90	31	46	23 ± 1	100
-21150A	Milk White	Threaded	150	88	39	56	18 ± 1	100
-21200A	Milk White	Threaded	200	105	39	59	25 ± 1	100

Food Grade Square Plastic Reagent Bottles - Small Mouth

- Made of heavy-duty HDPE, capable of withstanding high-intensity loads and run-over
- Food-grade, widely storage of chemical reagents, paints, glues, inks, engine oils and essences etc.
- Excellent leak-proof cap design, easy to store and simple to clean, can be used in many fields
- Certified to meet national food safety standards

**Label printing service is available



Car Run-over Test



Order Code	Colors / Features	Capacity (ml)	Height (mm)	Bottom Width (mm)	Mouth ID (mm)	Weight (g)	MOQ.
TFSL02							
-50002A	Transparent	20	51	32	16	8	100
-50003B	Trans. / Super Sealing	30	57	34	16	6.5	100
-50004A	Transparent	40	60	37	16	11	100
-50006B	Trans. / Super Sealing	60	74	40	20	14	100
-50010B	Trans. / Super Sealing	100	98	41	20	17.5	100
-50012A	Transparent	120	105	41	20	18	100
-50015B	Trans. / Super Sealing	150	108	45.2	27.8	22.7	100
-50020B	Trans. / Super Sealing	200	117	49.5	27.8	26.7	100
-50025B	Trans. / Super Sealing	250	126	52.6	20	25	100
-50030B	Trans. / Super Sealing	300	131.6	56.5	27.8	36.7	100
-50050A	Transparent	500	164	66	20	45	100
-56025A	Brown	250	126	51	20	25	100

Food Grade Square Plastic Reagent Bottles - Big Mouth

- Made of heavy-duty HDPE, capable of withstanding high-intensity loads and run-over
- Food-grade, wide storage of chemical reagents, paints, glues, inks, engine oils and essences etc.
- Comes with an inner cap and an aluminum foil gasket for super sealing
- Resistant to acid and alkali, UV-resistant, and anti-aging
- Working temperature: -20°C to 100°C

**Label printing service is available



Order Code	Color	Cap Color	Capacity (ml)	Height (mm)	Bottom Width (mm)	Mouth ID (mm)	Weight (g)	MOQ.
TFSL02								
-60025A	Translucent	Blue	250	117	63	41	46	100
-61025A	Milky White	Blue	250	117	63	41	46	100
-65025A	Black	Black	250	117	63	41	46	100
-60050A	Translucent	Blue	500	147	78	50	65	100
-60050B	Translucent	Red	500	147	78	50	65	100
-60050C	Translucent	White	500	147	78	50	65	100
-61050A	Milky White	Blue	500	147	78	50	65	100
-61050B	Milky White	Red	500	147	78	50	65	100
-61050C	Milky White	White	500	147	78	50	65	100
-65050A	Black	Black	500	147	78	50	65	100
-60100A	Translucent	Blue	1000	188	84	50	82	100
-60100B	Translucent	Red	1000	188	84	50	82	100
-60100C	Translucent	White	1000	188	84	50	82	100
-61100A	Milky White	Blue	1000	188	84	50	82	100
-61100B	Milky White	Red	1000	188	84	50	82	100
-61100C	Milky White	White	1000	188	84	50	82	100
-65100A	Black	Black	1000	188	84	50	82	100

Food Grade Plastic Paste Tub

- Made of heavy-duty environmental HDPE
- Food-grade, suitable of storage of greases, powders, paints, coatings etc.
- Supplied with a LDPE flexible inner cap

**Label printing service is available

Threaded Lid



Hinged Lid



Flexible LDPE Inner Cap (supplied as standard)



Pouring Test (Excellent leakage-free sealing even just by inner cap closure)



Order Code	Color	Type	Capacity (ml)	Height (mm)	Mouth ID (mm)	Tub Diameter (mm)	Weight (g)	MOQ.
TFSL03								
-01500A	Milky White	Threaded	500	97	92	93	66 ± 1	10
-01600A	Milky White	Threaded	600	110	93	93	106	10
-01600B	Milky White	Hinged	600	110	93	93	100	10
-05600B	Black	Hinged	600	110	93	93	100	10

170L Extra Thick Food Grade Horizontal Water Tank

- Made of high-quality HDPE plastic, featured with excellent anti-ultraviolet, anti-aging and perfect sealing properties, can be placed outdoors with a 10-year warranty
- Widely used for household water storage, car wash, irrigation, emergency water supply, water treatment, rainwater collection, wine barrels or industrial chemical barrels etc. It can be used for travel at home and outdoors
- Double calibers: large mouth for water injection and small mouth for water extraction
- Handles on both sides for easy carry and placement



Standard Accessories:



Order Code	Capacity (L)	Length (mm)	Width (mm)	Height (Inc. Lid) (mm)	Mouth Diameter (Large / Small) (mm)
TFSL07					
-01170A	170	880	510	560	22 / 10

Duplex Webbing Slings

- Made from high tenacity polyester yarn by a tightly integrated manufacturing process, duplex for added safety
- Our range of polyester webbing slings are suited for listing loads ranging from 1,000 - 10,000kg. Webbing slings are flexible, lightweight, and have a wide bearing surface which helps protect the load you are lifting and their stretch characteristics help minimize shock loading problems
- Color coded for load capacity
- Safety Factor 6 : 1
- CE and GS certified

Endless Round



Flat Eye-Eye



Endless Round	Flat Eye-Eye	Color	Working Length (M)	Load Capacity (kg)
Order Code TFWS12	Order Code TFWS12			
-01020R	-41020F	Purple	2.0	1000
-01030R	-41030F		3.0	
-01050R	-41050F		5.0	
-01080R	-41080F		8.0	
-02020R	-42020F	Green	2.0	2000
-02030R	-42030F		3.0	
-02050R	-42050F		5.0	
-02080R	-42080F		8.0	
-03020R	-43020F	Yellow	2.0	3000
-03030R	-43030F		3.0	
-03050R	-43050F		5.0	
-03080R	-43080F		8.0	
-03100R	-43100F		10.0	
-05020R	-45020F	Red	2.0	5000
-05030R	-45030F		3.0	
-05050R	-45050F		5.0	
-05080R	-45080F		8.0	
-05100R	-45100F		10.0	
-08020R	-48020F	Blue	2.0	8000
-08030R	-48030F		3.0	
-08050R	-48050F		5.0	
-08080R	-48080F		8.0	
-08100R	-48100F		10.0	
-10020R	-50020F	Orange	2.0	10000
-10030R	-50030F		3.0	
-10050R	-50050F		5.0	
-10080R	-50080F		8.0	
-10100R	-50100F		10.0	

Wall Mounted Key Cabinets

- Made of heavy-duty steel plate, matte surface, beautiful and sturdy
- Color-coded key tag labels for better classification and management
- Unique concave tooth design can better cover the cabinet tightly, ensuring a safer and more durable use
- Available with 2 kinds of locking systems: key lock and combination lock. The combination lock can provide better security

Capacity	20 Keys	28 Keys	36 Keys
Capacity for Car Keys	5 Keys	10 Keys	15 Keys
Cabinet Dimension (mm)	200(h)*160(w)*75(d)	250(h)*200(w)*75(d)	300(h)*240(w)*75(d)
Net Weight (kg)	0.78	1.00	1.45

Large (36 Keys)



Medium (28 Keys)



Small (20 Keys)



White

Order Code	Key Capacity	Locking System
TFTB55		
-01120A	20	Key Lock
-01220A	20	3-digit Combination Lock
-01128A	28	Key Lock
-01228A	28	3-digit Combination Lock
-01136A	36	Key Lock
-01236A	36	3-digit Combination Lock

Black

Order Code	Key Capacity	Locking System
TFTB55		
-02120B	20	Key Lock
-02220B	20	3-digit Combination Lock
-02128B	28	Key Lock
-02228B	28	3-digit Combination Lock
-02136B	36	Key Lock
-02236B	36	3-digit Combination Lock

Steel Jerry Cans

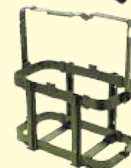
- This classic steel jerry is ideal for storage and transportation of flammable liquids such as gasoline and diesel etc.
- Made of high-quality carbon steel with powder coating for anti-corrosion and anti-rust
- Bayonet closure is completely leak-proof with can in any position
- UN number approval certificates with dangerous goods transportation regulations
- (Optional) 2-section telescopic spout for flexible and convenient operation
- (Optional) Metal can mount bracket, easy to assemble, can be installed in different locations of the vehicle to meet your needs



Jerry Can



Telescopic Spout



Metal Bracket

Order Code	Capacity (L)	Wall Thickness (mm)	Dimensions W x D x H (mm)	Weight (kg)
TFOT38				
-01005A	5	0.6	240 x 115 x 310	1.24
-01010A	10	0.8	290 x 125 x 400	2.30
-01020A	20	0.8	355 x 165 x 460	3.70

Optional: Telescopic Spout

Order Code	Length (mm)	Wall Thickness (mm)	Applicable Cans	Weight (kg)
TFOT38				
-07001P	300	0.65	5L / 10L / 20L	0.23

Optional: Metal Bracket

Order Code	Dimensions W x D x H (mm)	Weight (kg)
TFOT38		
-07005P	395 x 22 x 500	2.80

Padded Creeper Seat with Tool Tray

- Ideal for maintenance and repair applications. This chair allows you to work efficiently in your work space and keep your tools tidy and close by with the additional drawer and tool tray
- PU cushion, soft, comfortable and elastic, suitable for long working hours
- Bottom tray with compartments for better organization of tools
- Universal casters for easy movement yet low noise
- Reinforced fasteners ensuring reliable installation with rust resistance



Order Code	Dimensions (mm)	Net Weight (kg)
TFOT50		
-36100C	360 x 365 x 365	4.7

40" Plastic Car Creeper Board

- One piece blow molded creeper made from PE plastic, light weight but sturdy
- Soft and comfortable leather headrest, allowing you to complete your work in a comfortable and relaxing state
- Deepened tool slot designed to place more tools for you to take and return
- Handle designed for convenient transportation after work
- 360° swivel casters for easy movement yet low noise



Order Code	Dimensions (mm)	Net Weight (kg)
TFOT50		
-36802C	1020 x 480 x 120	4.8

36" Foldable Padded Creeper Board

- Can be easily folded or unfolded as a stool or a lounger bed, always creating a perfect position for your work
- Fully cushioned pads for fatigue free
- 360° swivel casters for easy movement yet low noise
- Bed load capacity: 150kg; stool load capacity: 120kg
- Low-profile and foldaway, easy to carry and convenient for storage



Order Code	Dimensions (mm)	Net Weight (kg)
TFOT50		
-36454C	901 x 425 x 120	6.3

Pneumatic Rolling Creeper Round Seats

- This shop seat features a soft, fully padded vinyl seat and a large diameter divided tool tray to keep your tools and equipment within quick reach
- 360° rotatable with pneumatic height adjustment, high shock and temperature resistance
- 360° swivel casters for easy movement yet low noise
- Load capacity: 136kg (300lbs)

Model 1

Model 2



Order Code	Model	Lifting Height (mm)		Dimensions (mm)	Net Weight (kg)
		Min	Max		
TFOT50					
-36201C	1	390	520	380 x 380 x 520	5.1
-36202C	2	390	520	380 x 380 x 520	5.5

Engine Supports

- This engine support bar can precisely position and support the engine while working on the transmission or holds the transmission in place while removing the engine for rebuilding
- Made of heavy-duty steel with a protective powder coating finish, high rigidity, and resistance
- Dual-bar construction with iron chains to support and bind the engine for maximum security



Diagram 1
- 0.3T



Diagram 2
- 0.5T



Diagram 3
- 0.5T



Diagram 4
- 0.5T



Product Parameters	Order Code TFOT50			
	-50031A	-50051A	-50052A	-50053A
Capacity (T)	0.3	0.5	0.5	0.5
Bar Length (mm)	980	1500	1800	1700
Pack Dim. (mm)	1050*220*80	1550*160*130	1850*160*120	1760*200*85
Net Weight (kg)	16	16	17	19
Gross Weight (kg)	18	17	18.5	20
Diagram	1	2	3	4

TEMOTUF™

Others



www.temotuf.com

TEMOTUF™ Chemical Storage Cabinets

EXCELLENT

- Made from high-quality cold-rolled plate, galvanized steel shelves for industrial purposes
- Constructed of sturdy 1.2mm thick double-wall, welded steel with 38mm insulating air space for fire resistance
- Durable lead-free epoxy/polyester powder-coat finish provides excellent chemical resistance and high smoothness of the cabinet
- Fail-safe closing mechanism ensures three-point stainless steel bullet latching system works 180° every time
- Supplied with dual keys, with optional padlock for added security
- Also features dual vents with flame arresters, a 50mm high leak-proof bottom sump, adjustable leak-proof shelves, grounding connector and warning label
- Fire resistance time (personal evacuation time): 15 minutes
- Compliance with OSHA CFR29 1910.106/ NFPA code 30 compliance



Yellow Series - Flammable Liquid Storage Cabinet

Designed for the safe storage of chemicals and flammable liquids, with a flash point below 45°C, such as gasoline, alcohol, kerosene, methanol, ethanol, etc. Widely used in medical, research, industrial, and commercial fields

Red Series - Flammable Liquid Storage Cabinet

Designed for the safe storage of chemicals and flammable liquids, with a flash point below 45°C, such as diesel, motor oil, lubricants, tung oil, etc. Widely used in medical, research, industrial, and commercial fields

Blue Series - Weakly Corrosive Liquid Storage Cabinet

Designed for the safe storage of weakly corrosive substances or weak acids and weak bases, with a flash point below 45°C, such as acetic acid, carbonic acid, phosphoric acid, silicic acid, etc. Widely used in medical, research, industrial, and commercial fields

YELLOW **RED** **BLUE**

Order Code TFCH70	Order Code TFCH70	Order Code TFCH70	External Dimensions (mm) Height x Width x Depth	Internal Dimensions (mm) Height x Width x Depth	Shelves Included	Doors Single or Double	Capacity (Gal)	Weight (kg)
-01004Y	-01004R	-01004B	560 x 430 x 430	460 x 350 x 350	1	Single	4	25
-01012Y	-01012R	-01012B	890 x 590 x 460	790 x 510 x 380	1	Single	12	40
-01022Y	-01022R	-01022B	1650 x 600 x 460	1550 x 520 x 380	3	Single	22	75
-01030Y	-01030R	-01030B	1120 x 1090 x 460	1020 x 1010 x 380	1	Double	30	80
-01045Y	-01045R	-01045B	1650 x 1090 x 460	1550 x 1010 x 380	2	Double	45	108
-01060Y	-01060R	-01060B	1650 x 860 x 860	1550 x 780 x 780	2	Double	60	130
-01090Y	-01090R	-01090B	1650 x 1090 x 860	1550 x 1010 x 780	2	Double	90	150

Galvanised Steel Shelves (Optional)

Order Code TFCH70	Size (mm) L x W x H	Applicable Cabinet in Gallon Capacity
-01604P	333 x 330 x 25	4
-01612P	493 x 360 x 25	12
-01622P	503 x 360 x 25	22
-01635P	1008 x 360 x 25	30 / 45
-01660P	778 x 760 x 25	60
-01690P	1008 x 760 x 25	90



TEMOTUF™ Drum Storage Cabinets

EXCELLENT

- Made from high-quality cold-rolled plate, galvanized steel shelves for industrial purposes
- Constructed of sturdy 1.2mm thick double-wall, welded steel with 38mm insulating air space for fire resistance
- Durable lead-free epoxy/polyester powder-coat finish provides excellent chemical resistance and high smoothness of the cabinet
- Fail-safe closing mechanism ensures three-point stainless steel bullet latching system works 180° every time
- Supplied with dual keys, with optional padlock for added security
- Also features dual vents with flame arresters, a 50mm high leak-proof bottom sump, adjustable leak-proof shelves, grounding connector and warning label
- Fire resistance time (personal evacuation time): 15 minutes
- Compliance with OSHA CFR29 1910.106/ NFPA code 30



Order Code	Drums	External Dia. H x W x D (mm)	Internal Dia. H x W x D (mm)	Shelves Included	Doors	Weight (kg)
TFCH70	Drums					
-02001Y	Single	1650 x 860 x 860	1550 x 780 x 780	1	Double	130
-02002Y	Double	1650 x 1500 x 860	1550 x 1420 x 780	1	Double	190

PP Anti-Corrosive Cabinets

- Designed to safely store and contain corrosive substances such as aggressive acids, bases, or solvents etc. These Temo safety cabinets for strong corrosives in labs provide the confidence to store chemicals in labs without the fear of corrosion
- Made of 8mm thick seam-welded porcelain white PP boards which greatly strengthen the structure of the cabinet and effectively reduce the deformation caused by thermal expansion and cold shrinkage, ensuring a lifespan of over 10 years
- Equipped with removable and adjustable shelves that can be easily cleaned
- Leak-proof bottom sump contains spill
- Liquid-tight structure contains any accidental spillage
- 180° open of hinged doors for easy access
- Comes with 2 keys and warning label, also accepts padlock for added security
- Lightweight and durable
- Vent holes can be processed according to customers' requirement
 - CE certified

Double-Door



Single-Door



Order Code	Model	External Dia. H x W x D (mm)	Shelf Dim. H x W x D (mm)	Capacity (Gal)	Shelves Included	Weight (kg)
TFCH70						
-05041A	Single-Door	560 x 430 x 430	40 x 404 x 394	4	1	13
-05121A	Single-Door	890 x 590 x 460	40 x 564 x 424	12	1	32
-05302A	Double-Door	1120 x 1090 x 460	50 x 1064 x 424	30	1	38
-05452A	Double-Door	1650 x 1090 x 460	50 x 1064 x 424	45	2	55

TEMOTUF™ Amber Hot Dip Strippable Coating

EXCELLENT

Product Features:

- These strippable protective coatings are the most commonly used for corrosion protection, designed to protect tooling and other metal items such as cutting tools, hand tools, engineering gauges and high precision components etc. Providing 100% coverage and protect against corrosion and impacts for up to ten years
- Easy part identity through the amber translucent coating
- Simple to remove by peeling off. Once removed, leaves a thin oil film for short-term protection against corrosion
- Working temperature 130°C to 160°C (for optimum results 140°C to 145°C)
- Removed coatings may be reused for cost saving
- Non-toxic product, compliant with European and British standards
- Made in UK

Instructions for Use:

- Put either single bar or small pieces into the melting tank, set up the melting temperature to 140°C - 145°C
- When the solid state is melted into liquid state and no air bubbles seen in the melting tank, you can start dipping your component
- The dipping process just takes 1 or 2 seconds then you can take away the component

- Place the dipped component under room temperature for natural cooling. Once the coating gets solidified, it will form a 1.6mm thick around film then you can start packing your component

Cautions:

- Always use this product with an appropriate melting tank
- Ambient temperature: -50°C to 100°C
- Do not heat this product over 160°C
- Solidified time under room temperature should be within 3 seconds
- While melting this product, please ensure proper ventilation and use heat-resistant gloves, eye-protection gears, and OSHA face masks
- Always store this product in a dry and cool place and keep it away from smoke or fire



Order Code	Pack Quantity	Weight (kg)
TFLB88		
-10050A	50pcs per Carton	25.0
-10001A	Single Bar	0.5

Emergency Equipment & PPE Storage Cabinets - Double Doors

- Used for the storage of personal protective equipments of emergency, such as helmets, protective glasses, overalls, protective masks, safety shoes, safety locks, first aid kits and self contained breathing apparatus
- Made of thick cold-rolled carbon steel plate (0.7mm), resistant to deformation, with a smooth surface, high strength, and high fire resistance
- Environmentally friendly powder coating, providing excellent wear resistance, rust protection, and aesthetic appeal
- Reinforced tempered glass with high strength, high temperature resistance, corrosion resistance, anti-aging properties and less prone to break
- High capacity with adjustable shelves, allowing for more storage and better organization
- Shelf load capacity: 50kg



Internal View
(H1920mm Cabinet)



Order Code	Color	Dimensions (mm)	Configurations
TFCH70			
-71650Y	Yellow	H1650 x W1090 x D460	3 x Adjustable Shelves 1 x Hanging Rail
-71650R	Red	H1650 x W1090 x D460	3 x Adjustable Shelves 1 x Hanging Rail
-71800Y	Yellow	H1800 x W1000 x D500	3 x Adjustable Shelves 1 x Hanging Rail 2 x Air Respirator Holders
-71800R	Red	H1800 x W1000 x D500	3 x Adjustable Shelves 1 x Hanging Rail 2 x Air Respirator Holders
-71920Y	Yellow	H1920 x W1200 x D500	2 x Adjustable Shelves 1 x Hanging Rail 2 x Air Respirator Holders
-71920R	Red	H1920 x W1200 x D500	2 x Adjustable Shelves 1 x Hanging Rail 2 x Air Respirator Holders

Double-Door Super Dry ESD Cabinets

- This super dry cabinet is ideally suited for applications where storage of devices is required with a relative humidity of 1% RH at 25°C
- Suitable for electronics, medical, laboratory and digital media storage applications

Features and Benefits

- 1.2mm cold-rolled steel sheet construction, 2 doors
- Digital humidity controller, LED display
- High molecular hygroscopic material
- Tempered glass windows
- Supplied with 5 pieces of shelves
- Supplied with a grounding wire for ESD safe
- 3" ESD casters, 2 fixed + 2 swivels with brakes
- Zinc alloy airtight lock
- CE authenticated

Standard Sizes / Dimensions

- Volume: 728L
- Overall Dimensions: W600*D710*H1920mm
- Inner Dimensions: W598*D680*H1738mm
- Weight: 110kg
- Numbers of adjustable shelves: 5pcs

Technical Specifications

- Humidity range: 1 ~ 10%RH
- Temperature range: 0 ~ 99°C
- Display precision: ±3.0%RH, ±1.0°C
- European or USA made sensors
- Power supply: 220V/50Hz

Storage Items

- SMT elements, patch element reels, crystals, IC packaging modules, precision metal elements, optical lenses or scientific instruments, drugs, biological samples, high-tech manufacturing equipment etc.

Optional

- N2 module, USB connector for data logger, wrist strap for ESD safe, open door alarm etc.

Please inquire us for cabinets with other specifications



Order Code	Humidity Range	Materials of Shelves	Color of Cabinet
TFWS33			
-10110J	1 - 10%RH	Cold-rolled Steel	Black
-20110J			Grey
-10110E	1 - 10%RH	304 Stainless Steel (mirror finished)	Black
-20110E			Grey

ESD Dry Cabinets

- ESD dry cabinet provides fast dehumidifying storage environment for moisture sensitive devices, the ESD humidity cabinet is not only for drying storage, but also fast moisture removal, dust proof and anti-static (ESD) protection for your electronic components

Features and Benefits

- 1.2mm cold-rolled steel sheet construction with anti-static paint
- Digital humidity controller, super bright LED display
- High molecular hygroscopic material
- Tempered toughened glass windows
- 3" caster wheels w/brakes
- Zinc alloy airtight lock
- CE authentication

Standard Sizes / Dimensions

- Volume: 1428L
- Overall Dimensions: W1200*D710*H1920mm
- Inner Dimensions: W1198*D680*H1738mm
- Weight: 160kg
- Numbers of adjustable shelves: 5pcs

Technical Specifications

- Temperature: 0 - 99°C
- Display precision: ±3.0%RH, ±1.0°C
- European or USA made sensors
- Voltage: 220V / 50Hz

Storage Items

1 - 10%RH:

SMT, CPU, IC chips, BGA, Industrial precious metals, special chemical products

10 -20%RH:

PCB, vary of electronic parts, precision instruments, metals, chemical raw materials, chemical reagents, pollen, special chemical products

20 -60%RH:

Cameras, film, telescopes, photos, vary of optical products, stamps, antique, precision instruments, electronic products

Please inquire us for cabinets with other specifications



Order Code	Humidity Range	Numbers of Doors	Color of Cabinet
TFWS33			
-50110J	1 - 10%RH	4	Black
-60110J			White
-51020J	10 - 20%RH	4	Black
-61020J			White
-52060J	20 - 60%RH	4	Black
-62060J			White
-70110J	1 - 10%RH	6	Black
-80110J			White
-71020J	10 - 20%RH	6	Black
-81020J			White
-72060J	20 - 60%RH	6	Black
-82060J			White

Nitrogen (N2) ESD Dry Cabinets

- This smart nitrogen (N2) cabinet is designed to control the filling of dry air into the cabinet, so the desired relative humidity in the cabinet can be reached. The dry air can be nitrogen (N2), CO² or inert gas. Nitrogen (N2) is the most frequently used dry air for a nitrogen (N2) cabinet.
- The traditional nitrogen (N2) cabinet allows the N2 to fill all the time, by using this Temo smart nitrogen (N2) saving cabinet, 70% of nitrogen (N2) consumption can be saved.

Features and Benefits

- 1.2mm cold-rolled steel sheet construction with anti-static paint
- Digital humidity controller, super bright LED display
- High molecular hygroscopic material
- Tempered toughened glass windows
- 3" caster wheels w/brakes
- Zinc alloy airtight lock
- CE authentication

Standard Sizes / Dimensions

- Volume: 1428L
- Overall Dimensions: W1200*D710*H1920mm
- Inner Dimensions: W1198*D680*H1738mm
- Weight: 160kg
- Numbers of adjustable shelves: 5pcs

Technical Specifications

- Humidity: 1 - 60%RH
- Temperature: 0 - 99°C
- Display precision: ±3.0%RH, ±1.0°C
- European or USA made sensors
- Voltage: 220V / 50Hz
- Power: 15 - 60W

Storage Items (1 - 60%RH)

- Electronics, semiconductor, biopharmaceutical, aerospace and medical device industries

Please inquire us for cabinets with other specifications



Order Code	Humidity Range	Numbers of Doors	Color of Cabinet
TFWS33			
-41060N	1 - 60%RH	4	Black
-51060N			White
-61060N	1 - 60%RH	6	Black
-71060N			White

304 Grade Stainless Steel Working Benches

- Ideal for use within areas such as kitchen restaurants, catering facilities, hospitals, laboratories or environments where hygiene is essential
- Crafted from durable 304 grade stainless steel
- Fully welded for robustness
- Customization is available on customers' requests



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5



Figure 6

Order Code TFWS40	Size W x D x H (mm)	Figure
-11600S	1200 x 600 x 850	1
-11601S	1500 x 600 x 850	2
-11602S	1200 x 600 x 850	3
-11603S	1800 x 600 x 850	4
-11750S	1500 x 750 x 850	5
-11751S	1500 x 750 x 850	6

304 Grade Stainless Steel Trolleys

- Ideal for use within areas such as kitchen restaurants, catering facilities, hospitals, laboratories or environments where hygiene is essential
- Crafted from durable 304 grade stainless steel
- Customization is available on customers' requests



Figure 2

Figure 1



Figure 3



Figure 4



Figure 5



Figure 6

Order Code TFLG40	Size W x D x H (mm)	Load Capacity (kg)	Figure
-01600S	900 x 600 x 860	300	1
-01605S	1200 x 600 x 860	500	1
-02600S	900 x 600 x 900	500	2
-02800S	1000 x 800 x 900	500	2
-03600S	900 x 600 x 1200	500	3
-03800S	1000 x 800 x 1200	500	3
-04600S	900 x 600 x 900	500	4
-04800S	1000 x 800 x 900	500	4
-05600S	900 x 600 x 900	500	5
-05800S	1000 x 800 x 900	500	5
-06600S	900 x 600 x 1500	500	6
-06800S	1000 x 800 x 1500	500	6

Manual Pallet Trucks

- Easy-to-use 3-position handle: raised, neutral and lowered
- Integrated casting oil pump for durable and leak-free use
- Special relief valve to control the rate of descent and over load by-pass valve to make the truck durable
- Guide wheels for easy access or exit
- Reinforced fork frame for good balance, solid tow bar for added strength
- Fitted with industrial nylon wheels, optional for PU or rubber wheels



Product Parameters	Unit	Order Code: TFLG01		
		-02054A	-02554A	-03054A
Rated Load Capacity	kg	2000	2500	3000
Overall Fork Width	mm	540	540	540
Fork Length	mm	1150	1150	1150
Fork Width	mm	160	160	160
Min. Fork Height (H1)	mm	85	85	85
Max. Fork Height (H2)	mm	200	200	200
Frame Height (H)	mm	442	442	442
Overall Height (H3)	mm	1188	1188	1188
Load Wheel	mm	ø80	ø80	ø80
Steering Wheel	mm	ø180	ø180	ø180
Type of Load Wheel	-	Single	Single	Single
Net Weight	kg	78	78	78

Product Parameters	Unit	Order Code: TFLG01		
		-02068A	-02568A	-03068A
Rated Load Capacity	kg	2000	2500	3000
Overall Fork Width	mm	685	685	685
Fork Length	mm	1220	1220	1220
Fork Width	mm	160	160	160
Min. Fork Height (H1)	mm	85	85	85
Max. Fork Height (H2)	mm	200	200	200
Frame Height (H)	mm	442	442	442
Overall Height (H3)	mm	1188	1188	1188
Load Wheel	mm	ø80	ø80	ø80
Steering Wheel	mm	ø180	ø180	ø180
Type of Load Wheel	-	Double	Double	Double
Net Weight	kg	102	102	102

Manual Pallet Trucks with Digital Scales

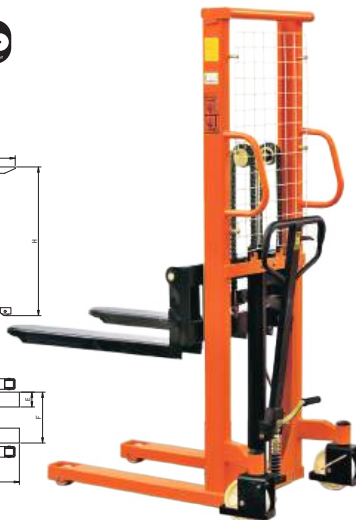
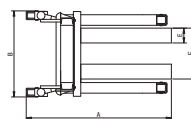
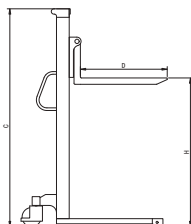
- kg/lb conversion
- Full scale accuracy: ±1kg (within 2000kg)
- Fitted with industrial nylon wheels, optional for PU and rubber wheels



Product Parameters	Unit	Order Code: TFLG01	
		-12055B	-12068B
Rated Load Capacity	kg	2000	2000
Overall Fork Width	mm	500	685
Fork Length	mm	1150	1150
Min. Fork Height	mm	80	80
Max. Fork Height	mm	195	195
Net Weight	kg	100	100

Manual Pallet Stackers

- Robust steel profile construction with protective mesh
- Lifting function operated by foot and hand controls
- Small turning radius suitable for confined spaces
- Fitted with industrial nylon wheels, optional for PU and rubber wheels



Product Parameters	Unit	Order Code: TFLG02		
		-11016A	-11516A	-12016A
Rated Load Capacity	kg	1000	1500	2000
Lift Height	mm	90 - 1600	90 - 1600	90 - 1600
Overall Length (A)	mm	1350	1380	1380
Overall Width (B)	mm	720	720	800
Overall Height (C)	mm	1960	1960	2060
Fork Length (D)	mm	820	820	820
Fork Width (E)	mm	140	140	140
Max. Fork Spacing (F)	mm	680	680	772
Min. Fork Spacing (F)	mm	288	294	294
Descend Speed	-	Controllable	Controllable	Controllable
Turning Radius	mm	1250	1250	1250
Load Wheel Dia.	mm	ø85	ø85	ø85
Steering Wheel Dia.	mm	ø180	ø180	ø180
Net Weight	kg	200	212	265

Scissor Type Hydraulic Lifting Carts

- Simplify the lifting, lowering, and transportation of heavy goods
- Crafted with heavy-duty steel with powder coating for ultimate durability
- Thickened construction for added strength yet effortlessly maneuverability
- Quality hydraulic cylinder with overload valve for leak-free and maximum security
- This Temo steel scissor cart can reach the desired platform height by using your foot to control the pump, and the hand lever controls the hydraulic release easily
- Fitted with 4 PU wheels, 2 locking swivel and 2 fixed



Order Code	Load Capacity (kg)	Lift Height (mm)	Platform Dimensions (mm)	Size of Wheel	Net Weight (kg)
TFLG03					
-00150A	150	215 - 730	700*450*35	4"	50
-00300A	300	270 - 900	810*500*50	5"	75
-00500A	500	280 - 900	810*500*50	5"	85
-01000A	1000	430 - 1000	1000*512*55	6"	135

Low Profile Drum Dolly

- This low profile drum dolly can easily transport 30 or 55 gallon drums which may be made from steel, plastic or fiber etc.
- Removable handle is used to tilt drum for position on dolly and features a built-in bung nut wrench and seal remover
- Constructed from carbon steel that prevents sagging or tipping, and also provides a good protection to 3 wheels and prevents injury



Order Code	Load Capacity (kg)	Drum Capacity (Gallon)	Net Weight (kg)
TFLG03			
-10155A	500	30 / 55	17

Drum Palletizer



- This drum palletizer can easily transport 55 gallon drum just by one person operation
- Features a unique grapple that securely transports open drums without spillage or minimal spillage but it is not ideal for tilting
- Pump handle for lifting
- Solid steel construction offers long lasting rugged use

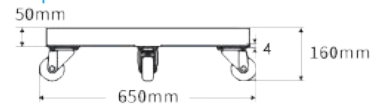


Order Code	Load Capacity (kg)	Drum Capacity (Gallon)	Net Weight (kg)
TFLG03			
-15155B	365	55	55

Drum Dollies

- Commonly used throughout warehouses and workshops where steel 55-gallon drums require easy transportation
- Dolly rolls smoothly on swivel PU casters
- CE authenticated

Model A, C and E:
Inner diameter = 600mm
Other dimensions please refer to the below



Model A (round shape, carbon steel, 4 casters)

Model C (round shape, stainless steel, 4 casters)

Model E (round shape, PP plastic, 5 casters)



Model B (round with ears, carbon steel, 4 casters)

Model D (round with ears, stainless steel, 4 casters)

Model B and D:
Inner diameter = 600mm
Other dimensions please refer to the below



Order Code	Model	Body Material	Capacity (kg)	Inner Diameter (mm)	Caster Size (mm)	Net Weight (kg)
TFLG03						
-55300A	A (round, 4 casters)	Carbon Steel	300	ø600	ø75 x 35	7.5
-55400B	B (round with ears, 4 casters)	Carbon Steel	400	ø600	ø75 x 35	8.5
-55300C	C (round, 4 casters)	201 Stainless Steel	300	ø600	ø75 x 35	6.8
-55400D	D (round with ears, 4 casters)	201 Stainless Steel	400	ø600	ø75 x 35	7.2
-55400E	E (round, 5 casters)	PP Plastic	400	ø600	ø75 x 35	7.2

Foldable Silent Trolleys

- Back reinforced platform deck, made of high-density PT plastic for a tougher, pressure-resistant and long-lasting life
- Foldable and seamless rigid steel handle for secure maneuvering of loads
- Fitted with silent natural rubber casters, suitable for use indoors and outdoors, marking free



Order Code	Dimensions L x W x H (mm)	Deck Height (mm)	Capacity (kg)	Weight (kg)
-01150A	730 x 490 x 890	170	150	11.5
-01250A	825 x 500 x 890	215	250	12.0
-01350A	910 x 600 x 890	220	300	17.0

Utility Carts

- All metal construction, round wire mesh sides provide high retention of carried items



Order Code	Dimensions L x W x H (mm)	Capacity (kg)	Shelves	Side Opening	Casters
-10008A	900 x 550 x 900	300	N/A	N/A	Rubber
-10009A	900 x 550 x 900	300	1	Yes	Rubber

Double Deck Silent Trolleys

- Back reinforced double decks, made of high-density PP plastic for a tougher, pressure-resistant and long-lasting life
- Seamless rigid steel handle for secure maneuvering of loads
- Fitted with natural rubber casters, precision ball bearings ensure more silent use, suitable for use indoors and outdoors, marking free
- Environmental friendly, anti-slip and corrosion-resistant

Order Code	Dimensions L x W x H (mm)	Lower Deck Height (mm)	Upper Deck Height (mm)	Interval Between Upper & Lower Decks (mm)	Caster Diameter (mm)	Capacity (kg)	Weight (kg)
-02150A	720 x 490 x 880	170	680	475	100	150	11.9
-02200A	825 x 500 x 890	176	695	465	100	200	17.1
-02250A	825 x 500 x 915	210	720	455	125	250	18.4
-02300A	900 x 600 x 915	215	720	465	125	300	21.9



Triple Deck Silent Trolleys

- Back reinforced triple decks, made of high-density PP plastic for a tougher, pressure-resistant and long-lasting life
- Seamless rigid steel handle for secure maneuvering of loads
- Fitted with natural rubber casters, precision ball bearings ensure more silent use, suitable for use indoors and outdoors, marking free
- Environmental friendly, anti-slip and corrosion-resistant

Order Code	Handle Type	Dimensions L x W x H (mm)	Lower Deck Height (mm)	Upper Deck Height (mm)	Interval Between Upper & Lower Decks (mm)	Caster Diameter (mm)	Capacity (kg)	Weight (kg)
-03200A	Single	825 x 500 x 880	176	695	210	100	200	24.2
-03250A	Single	825 x 500 x 905	210	720	210	100	250	25.0
-03200B	Double	825 x 500 x 880	176	695	210	100	200	24.2
-03250B	Double	825 x 500 x 905	210	720	210	100	250	25.0



Single-Handle

Double-Handle

Heavy Duty PP Turtle Dollies

- Platform decks, made of high-density PP plastic, lightweight yet highly durable for various heavy loads
- Solid flat decks, offering higher load capacity, featured with radius corners for collision protection
- Interlocking decks, effectively extending the range of applications
- ESD decks, specially used for transportation of PCB and other electronic components in electronics industry
- All models are fitted with 3" heavy-duty PU casters, resistant to wear and marking free

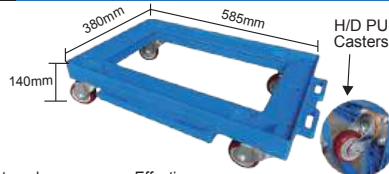
Solid Flat Deck (Yellow)



Solid Flat Deck (Black)



Interlocking Hollow Deck (Blue)



ESD Solid Flat Deck (Black)



Order Code	Deck Types / Colors	External Dimensions (mm)	Effective Dimensions (mm)	Caster Configurations	Capacity (kg)
20501A	Solid Flat, Yellow	L660 x W480 x H150	L635 x W435 x H150	2 x Swivel 2 x Fixed	500
20502A	Solid Flat, Black	L660 x W480 x H150	L635 x W435 x H150	2 x Swivel 2 x Fixed	500
24403B	Interlocking, Hollow, Blue	L612 x W412 x H140	L612 x W412 x H140	4 x Swivel	400
29152E	ESD, Solid Flat, Black	L646 x W463 x H143	L637 x W445 x H143	2 x Swivel 2 x Fixed	150
29202E	ESD, Solid Flat, Black	L695 x W500 x H148	L686 x W482 x H148	2 x Swivel 2 x Fixed	200



Comb. Moving Skates

- Maintenance free design for convenience. Used for easy and safe transportation of heavy machinery and household appliances, saving time and effort
- All models comprise of a steerable front (TL) and a pair of rear skates (TF)
- All TL models (except from TL3) feature with a self-adaptive rolling frame, ensuring a good contact between rollers and ground, distributing the load evenly
- All TF models need to be used together with a spacing adjustable connection bar for increased safety
- All models need to be used together with a tow bar for good control and effortlessness

Model TL 3



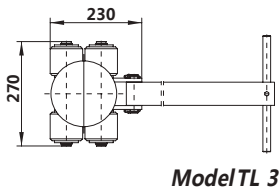
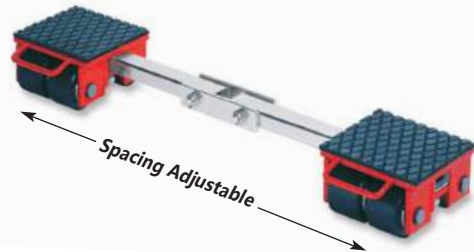
Model TL6



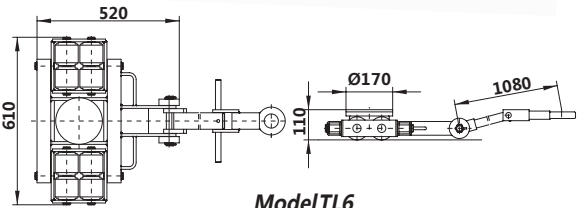
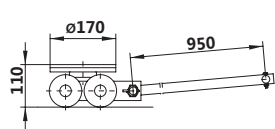
Model TF 3



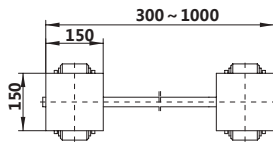
Model TF6



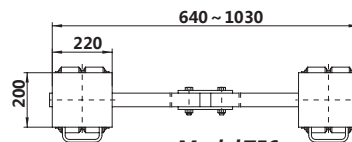
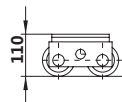
Model TL 3



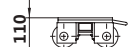
Model TL6



Model TF 3



Model TF6



Parameters	Order Code TFLG03-05006C		Order Code TFLG03-05012C	
	TF3	TL3	TF6	TL6
Rear Skates / Steerable Front	TF3	TL3	TF6	TL6
Load Capacity (t)	3	3	6	6
Combined Load Capacity (t)	6		12	
Height (mm)	110	110	110	110
Load Surface Dimensions (mm)	150 x 150	∅170	200 x 200	∅170
Connection Rod Length (mm)	300 - 1000	/	640 - 1030	/
Tow Bar Length (mm)	/	950	/	1080
Tow Bar Steering Angle	/	±90°	/	±90°
Roller Size (mm)	∅85	∅85	∅85	∅85
Numbers of Rollers	4	4	8	8
Overall Dimensions (mm)	/	270 x 230	/	610 x 520
Weight (kg)	15	12	30	41

Note: Please purchase the whole set (TF + TL) only.



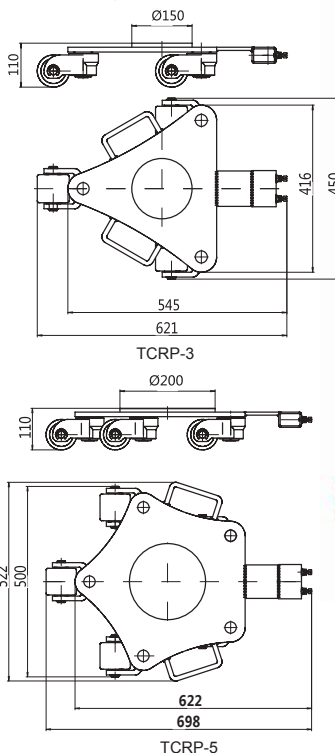
Rotating Moving Skates

- Ideal for moving heavy loads in confined areas
- Fitted with 360° turntables for easily moving heavy loads in any direction
- Optional connection bars can be applied for simultaneous use of multiple skates
- **Optional accessories: tow bar & connection bar**

TCRP-3



TCRP-5



Parameters	Order Code	Order Code
	TFLG03-05102R	TFLG03-05104R
Model	TCRP-3	TCRP-5
Rated Load Capacity (t)	2	4
Height (mm)	110	110
Turntable Diameter (mm)	ø150	ø200
Roller Size (mm)	ø80 x 70	ø80 x 70
Numbers of Casters	3	5
Overall Dim. (mm)	621 x 450 x 110	698 x 522 x 110
Weight (kg)	21	35

Optional Tow Bar

Order Code	Overall Length (mm)
TFLG03	1090
-05001P	1090

Machine Skates

- An economical and practical tools for moving the heavy loads
- TCRA fitted with a 360° turntable for easily moving heavy loads in any direction
- Optional with 1060mm long tow bar

TCRA



TCRO



TCRA

Parameters	Order Code	Order Code	Order Code	Order Code
	TFLG03-05206A	TFLG03-05208A	TFLG03-05212A	TFLG03-05218A
Model	TCRA-4	TCRA-6	TCRA-8	TCRA-12
Rated Load Capacity (t)	6	8	12	18
Dimensions L x W x H (mm)	304 x 222 x 110	404 x 222 x 110	504 x 222 x 110	498 x 305 x 110
Weight (kg)	14.5	21.5	27.5	43.5

TCRO

Parameters	Order Code	Order Code	Order Code	Order Code
	TFLG03-05206B	TFLG03-05208B	TFLG03-05212B	TFLG03-05218B
Model	TCRO-4	TCRO-6	TCRO-8	TCRO-12
Rated Load Capacity (t)	6	8	12	18
Dimensions L x W x H (mm)	304 x 222 x 95	404 x 222 x 95	504 x 222 x 95	498 x 305 x 100
Weight (kg)	13.0	20.0	26.0	40.0

Optional Tow Bar

Order Code	Overall Length (mm)
TFLG03	1060
-05002P	1060

Metal Dumping Carts

- Used for collection and transportation of metal chips or other scrap
- Made from 1.5mm thick powder coated steel plate with heavy-duty latch. All welded seams prevent carts from leaking, melting, splitting, bulging or burning. Cart maneuvers easily and rolls smoothly when empty or fully loaded
- Equipped with a waste oil drain tap
- Deep gray body, equipped with 4" PVC casters, 2 fixed and 2 swivel with brakes
- **Customize is available**



Order Code	Dimensions (mm)	Load Capacity (kg)	Weight (kg)
TFLG04			
-01820A	820 x 580 x 580	300	45
-01980A	980 x 820 x 820	300	80

Stackable Corrugated Steel Containers

- Constructed of heavy-duty corrugated cold-rolled steel on all four sides, with extremely high load-bearing capacity, powder coated surface for sturdiness, anti-rust and aesthetic appeal
- Lifting capacity: 1T; stacking capacity: 5T
- All welded combination provides dependable use for years
- Stackable to save floor space and better utilize air space. Top corner ears specially designed for safe stacking
- Half drop gate allows for easy ergonomic access to stored parts
- Detachable structure makes the transportation much easier
- 4-way forklift access
- Blue color
- **Customize is available**



Order Code	Dimensions (mm)	Load Capacity (kg)	Weight (kg)
TFLG04			
-10840A	L840 x D640 x H700	1000	50
-11000A	L1000 x D800 x H900	1200	55

4 Drum Spill Control Station

- This 4 drum spill control station is a combination of a 4 drum spill pallet with hardcover closet and roller shutter
- Ideal for static spill containment in factories, warehouses, hotels, farm stores, garages etc.
- Made from 100% recyclable PE, broad range chemical compatibility
- Compatible with most forklifts and pallet trucks (fork extensions may be needed)
- Remove drums / containers and empty spill pallet before moving
- Supplied with a stainless steel fixing kit as standard
- Easy assembly, key lockable
- Meets CE requirements



Product Code	Numbers of Drums	Drum Volume (lt.)	Sump Volume (lt.)	Max Load (kg)	Dimensions (mm)	Weight (kg)
TFLG29						
-14205A	4	205	410	1450	L1470 x W1420 x H2070	121

45 Gallon Mobile Spill Response Cart

- This mobile spill response cart is fully mobile with a lockable door that keeps contents dry and secure
- Ideal for use with universal absorption materials, which can be used for soaking up water, oil, fuels or coolants, ensuring that your workplace is kept clean and safe
- Made from 100% recyclable LLDPE, broad range chemical compatibility
- Inner part is equipped with a layer plate and a cotton coil support frame to facilitate the use of absorption materials
- Equipped with professional anti-skid wheels
- Meets CE requirements

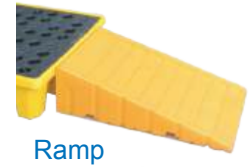
**** All absorption materials shown in the image are not included**



Product Code	Volume (m³)	Volume (Gal.)	Dimensions (mm)	Gross Weight (kg)
TFLG29				
-20045A	0.17	45	L490 x W490 x H1000	22

Spill Pallets / Platforms

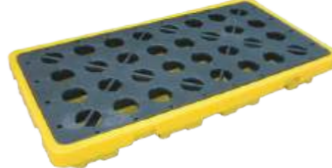
- Made from durable polyethylene material to stand up against harsh chemical leaks
- Innovative raised design for a larger sump
- Integrated construction ensures 100% leak-free, test passed for leak prevention
- Resistant to a wide range of chemicals such as acids and alkalis, eliminating potential hazards from chemical leaks, suitable for outdoor use
- In case of a leak, all liquids will automatically flow into the sump through the gratings, preventing environmental contamination
- Forklift or pallet truck access for easy handling
- Features with liquid drains
- **Caution: please regularly clean up the liquid in the sump to avoid overflow. If there is a diffusion in the leaked area, professional personnel must be invited, using an absorbent material which is suitable for the hazardous substance for blocking or absorption**



Ramp



Single-Drum Platform



2-Drum Platform



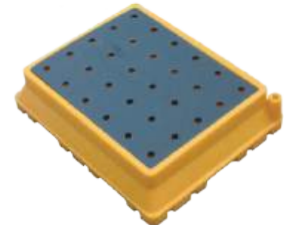
4-Drum Platform



2-Drum Pallet



4-Drum Pallet

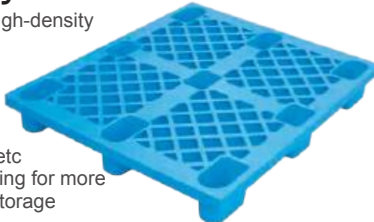


Desktop Tray

Order Code	Description	Dimensions (mm)	Size (L)	Capacity (kg)	Weight (kg)	Forklift Accessible	Pallet Truck Accessible	Pallet Truck Overall Fork Width (mm)
TFLG29								
-01043A	Single-Drum Platform	670 x 670 x 150	43	700	8	-	-	-
-02080A	2-Drum Platform	1300 x 660 x 150	80	1400	15.5	Yes	-	-
-04150A	4-Drum Platform	1300 x 1300 x 150	150	3000	19.5	Yes	-	-
-02120B	2-Drum Pallet	1300 x 660 x 300	120	1400	30.5	Yes	Yes	550
-04260B	4-Drum Pallet	1300 x 1300 x 300	260	1400	34.5	Yes	Yes	680 / 685
-00011C	Desktop Tray	530 x 430 x 110	11	100	3.6	-	-	-
-09150R	Ramp	1200 x 800 x 150	-	-	20	-	-	-
-09300R	Ramp	1200 x 800 x 300	-	-	22	-	-	-

4 Way Entry Plastic Pallets

- Made of virgin high-density polyethylene
- Non-toxic, non-absorbent and impervious to odors, acids, fats or solvents etc
- Stackable, allowing for more space-efficient storage



Order Code	Dimensions (mm)	Dynamic Load Capacity (T)	Static Load Capacity (T)	Weight (kg)
TFLG30				
-01080A	1000 x 800 x 140	0.40	0.90	4.60
-01109A	1100 x 900 x 140	0.45	0.90	5.80
-01010A	1000 x 1000 x 140	0.45	0.90	5.00
-01110A	1100 x 1000 x 140	0.50	1.00	6.60
-01111A	1100 x 1100 x 140	0.50	1.00	6.50
-01108A	1100 x 800 x 140	0.45	0.90	5.60
-01208A	1200 x 800 x 140	0.45	0.90	5.80
-01210A	1200 x 1000 x 140	0.50	1.00	6.00
-01211A	1200 x 1100 x 140	0.60	1.20	7.80
-01212A	1200 x 1200 x 140	0.60	1.20	8.50
-01311A	1300 x 1200 x 140	0.60	1.20	8.50

Flat Deck Plastic Pallets

- Made of virgin high-density polyethylene
- Non-toxic, non-absorbent and impervious to odors, acids, fats or solvents etc
- The flat surface has been treated with anti-slip measures, effectively preventing personnel or cargo damage caused by slipping during transportation



6 Feet

9 Feet

Order Code	Dimensions (mm)	No. of Feet	Dynamic Load Capacity (T)	Static Load Capacity (T)	Weight (kg)
TFLG30					
-01050B	1000 x 500 x 130	6	0.30	0.60	4.00
-01060B	1000 x 600 x 130	6	0.40	0.80	5.00
-01070B	1000 x 700 x 130	6	0.50	1.00	6.00
-01080B	1000 x 800 x 140	9	1.00	3.00	7.80
-01190B	1100 x 900 x 140	9	0.80	3.00	9.80
-01111B	1100 x 1100 x 140	9	1.50	4.00	12.50
-01210B	1200 x 1000 x 140	9	1.50	4.00	10.50

IBC 1000L Spill Containment

- This IBC tank is designed for convenient dispensing and storage of chemicals, excluding flammable hydrocarbons. Approved for potable water, agricultural chemicals, industrial chemicals, and other non-flammable liquids. Tank is not intended for fuel storage
- Widely used in industries such as food manufacturing, power generation, automotive, chemical, petrochemical, engineering, water treatment and environmental service etc.
- Constructed with a galvanized steel grid frame and a high-density HDPE inner container
- The blow-molded inner container is produced for UV-resistance, anti-aging, non-toxic and it is easy to clean
- The galvanized steel grid is produced for high strength, high durability and corrosion-resistance
- The 4-way entry bottom steel pallet is secured with anti-skidding screws (grade 8.8) for stable placement
- The bottom drain valve is for easy removal of residual substances from the inner container
- Multiple authentications and certifications: SGS, IQNet, Hazardous Material Packaging Container Certification etc.

• Dimensions (mm):

Length: 1200 ± 5
 Width: 1000 ± 5
 Height: 1150 ± 5
 Pallet Height: 120
 Fork Ctr-to-Ctr Spacing: 795
 Fork Height: 90

• Structural Parameters

All-steel construction
 Nominal/Capacity (L): 1000/1050+
 Approved Weight (kg): 57 ± 2
 Stack Weight (kg): 4184
 Maximum Allowed Weight (kg): 2012
 Maximum Allowed Density (g/m): 1.9

- **Color:** White
- **Pallet Material:** Galvanized Steel DC530
- **HDPE Container:** Material: TR580M/4570UV/4261/14506
 Weight (kg): 15.5 ± 1
 Top Thread Type/Pitch (mm): SLCS160/7
 Filling Mouth Dia. (mm): 142

• Top Inlet (Vent Cap + Blind Cap)

Material: HDPE Plastic
 Vent Cap Seal Material: EPDM (inner cap made of EVA)
 Blind Cap Seal Material: EPDM

Vent Device (optional):

Vent Plug -71000A

Vent mesh screen -71000B

• Drain Valve

Type: DN50 Ball Valve/Butterfly Valve
 Valve/DN80 Butterfly Valve

Material: PE/PP/ETFE

Seal Material: PE/FKM/EPDM

Inner Diameter (mm): 50

Outlet Thread Dia. (mm): SCCS60/6

• Frame Material:

Galvanized Steel Grid DC51D

• Others

Tamper Evident Seal, Security Cover, Aluminum Foil Seal, Bend Pipe etc.



Order Code	Capacity (L)	Color	Vent Device
TFLG29			
-71000A	1000	White	Vent Plug
-71000B			Vent Mesh Screen

DN50 IBC Tank Valves

- Used for plastic container outlet to prevent stored chemical liquid from spattering. It has been used safely 3,000 times and passed the drop test
- Widely used in chemical process and acid, liquid storage buckets, tanks, container outlet control
- Adopt the High-Density PE advanced molding technology
- Anti-corrosion, high mechanical strength and convenient opening
- DN50 valves come with an internal diameter of 73-75mm which is suitable for outlet external diameter of 70-73mm of an IBC tank

DN50 Ball Valve

DN50 Butterfly Valve



Ball Valve Diagrams



Diagram 1



Diagram 2



Diagram 3



Diagram 4



Diagram 5



Diagram 6

Butterfly Valve Diagrams



Diagram 7



Diagram 8



Diagram 9

Order Code	Type of Valve	Height (mm)	Inner Dia. (coarse thread) (mm)	Exit Dia. (mm)	Standard Accessories (mm)	Diagram
-91011P	Ball	146	75	60 (coarse thread)	Telescopic Outlet Hose	1
-91012P	Ball	145	75	60 (coarse thread)	Telescopic Outlet Hose	2
-91013P	Ball	127	75	80 (fine thread)	Draft Outlet Tube	3
-91014P	Ball, Durable	143	75	60 (fine thread)	N/A	4
-91015P	Ball	137	75	60 (coarse thread)	Telescopic Outlet Hose	5
-91016P	Ball, with Turning Adapter	156	75	60 (fine thread)	N/A	6
-91021P	Butterfly	130	75	60 (coarse thread)	Telescopic Outlet Hose	7
-91022P	Butterfly, with Turning Body	132	75	60 (coarse thread)	Telescopic Outlet Hose	8
-91023P	Butterfly, Schutz	131	75	60 (fine thread)	N/A	9

Industrial Powerful Roll

Product Features:

- Made from 100% pure wood pulp, environmentally friendly
- Highly efficient absorption of water and oil, fast absorption speed
- Excellent wet strength, resistant to breaking, leaves no lint after wiping

Applications:

- Cleaning of parts and tools
- Wiping and maintenance of mechanical equipment
- Cleaning of conveyor belts and rollers
- Cleaning and wiping of sticky oil stains
- Cleaning and wiping of hydraulic fluid leaks
- **Minimum order quantity: 1 carton**



Order Code	Size/Sheet (mm)	No. of Sheets/Roll (carton)	No. of Ply	Surface	Color	Package Style	Pack Qty
TFPA01							
-03680R	245 x 350	550	3	Embossing	White	Roll	2 Rolls/CTN

High Oil Absorption Cloth

Product Features:

- Made from special materials, biodegradable and environmental friendly
- Soft and flexible texture, reusable after cleaning
- Highly efficient water and oil absorption
- Strong tear resistance and abrasive resistance
- Leaves no lint after wiping

Applications:

- Wiping and maintenance of mechanical equipment
- Maintenance and cleaning of workplaces
- Cleaning of conveyor belts and rollers
- Wiping in workplaces with heavy oil stains
- Cleaning and wiping of hydraulic fluid leaks
- Personal use of wiping
- **Minimum order quantity: 1 carton**



Order Code	Size/Sheet (mm)	No. of Sheets/Roll (carton)	No. of Ply	Surface	Color	Package Style	Pack Qty
TFPA02							
-04600R	250 x 300	650	Single layer	Plain	White	Roll	2 Rolls/CTN

Roll Dispensers

Product Features:

- Convenient loading or dispensing paper or cloths
- Easy maneuver
- Effectively maintain the cleanliness of the wiping paper or cloths to meet the job requirements
- Made with high quality materials to guarantee strength and durability

Applications:

- Widely used in workshops, washrooms, hospitals etc.



Wall-Mounted



Floor-Standing

Order Code	Style	For Sheet Width (mm)	Size (mm)	Pack Qty
TFPA90				
-00100P	Wall-Mounted	≤ 330	450 x 265 x 410	1/CTN
-00200P	Floor-Standing	≤ 330	890 x 450 x 300	1/CTN

Industrial Universal Cloths

Product Features:

- Made from wood pulp and special fibers, reusable after cleaning
- Efficient water and oil absorption
- Strong tear resistance and abrasive resistance
- Leaves no lint or dust after wiping

Applications:

- Wiping and maintenance of mechanical equipment
- Maintenance and cleanliness of workplace
- Cleaning of conveyor belts and rollers
- Cleaning and wiping of hydraulic fluid leaks
- Wiping of general oil stains
- Personal use of wiping
- **Minimum order quantity: 1 carton**



Order Code	Size/Sheet (mm)	No. of Sheets/Roll (carton)	No. of Ply	Surface	Color	Package Style	Pack Qty
TFPA02							
-06660R	245 x 350	500	Single	Plain	White	Roll	2 Rolls/CTN
-06661A	300 x 350	300	Single	Embossing	White	Sheet	6 Boxes/CTN

Blue Industrial Cloths

Product Features:

- Made from colored wood pulp and special fibers, more resistant to stains than white wiping materials
- Reusable after washing
- Efficient water and oil absorption
- Offers certain tear resistance and abrasive resistance

Applications:

- Wiping and maintenance of mechanical equipment
- Maintenance and cleanliness of general workplaces
- Wiping light oil stains
- Personal use of wiping
- **Minimum order quantity: 1 carton**



Order Code	Size/Sheet (mm)	No. of Sheets/Roll (carton)	No. of Ply	Surface	Color	Package Style	Pack Qty
TFPA02							
-00003R	250 x 350	500	Single	Single	Blue	Roll	2 Rolls/CTN
-00001A	300 x 350	300	Single	Single	Blue	Sheet	6 Boxes/CTN

Heavy Duty Absorbent Pads

Product Features:

- Strong oil absorption, can quickly absorb up to 16 times its own weight
- Reusable after washing

Applications:

- Controlling and absorbing various oil leaks
- Absorbing and cleaning oil spills on water surfaces
- Controlling and cleaning up oil stains in large-scale spills
- Absorbing oil stains on ship hulls and ship decks
- Preventing accidents and injuries from oil spills at the working places
- **Minimum order quantity: 1 carton**



Order Code	Absorption Type	Size/Sheet (mm)	Color	Pcs/Carton
TFPA03				
-00200W	Oil-only (Water Repellent)	400 x 500	White	200
-00400W	Oil & Water	400 x 500	Gray	100

Spill Control Sets

- These spill control sets offer an effective and immediate response to a broad variety of spills, from common fluids and oil to chemicals even hazardous liquids that can be detrimentally damaging to the environment
- They are the essential products for use around working, factories, ships, workshops, warehouses, water areas etc.
- They can float on the water surface for months without deteriorating, breaking, or sinking
- Socks are used to form a ring around larger spills to act as an absorbent barrier



120L / 240L
Wheeled Bin Sets

30L
Zipped Bag Set

Order Code	Contents	Specifications	Quantity	Overall Absorption (kg)
TFPA50	Wheeled Bin	120L	1	-
	Pads	400 x 500 x 2mm	25	15
	Socks	76 x 1200mm	5	26.25
	Pillows	200 x 250mm	5	37.5
	Disposal Bags	750 x 490mm	8	-
	Goggles	-	2	-
	Latex Gloves	-	2	-
-03120K	Cable Ties	-	Some	-
	Wheeled Bin	240L	1	-
	Pads	400 x 500 x 2mm	50	30
	Socks	76 x 1200mm	10	52.5
	Pillows	200 x 250mm	5	37.5
	Disposal Bags	750 x 490mm	8	-
	Goggles	-	2	-
-04240K	Latex Gloves	-	2	-
	Cable Ties	-	Some	-
	Zipped Bag	30L	1	-
	Pads	400 x 500 x 2mm	12	7
	Socks	76 x 1200mm	2	10.5
	Pillows	200 x 250mm	2	15
	Disposal Bags	750 x 490mm	2	-
-02030K	Goggles	-	1	-
	Latex Gloves	-	1	-
	Cable Ties	-	Some	-

PTFE Thread Seal Tapes

- Can be used with all types of pipe threads for hundreds of applications
- Elastic less sticky on the fingers and easy to remove
- Standard: BS 7786:1995



Order Code	Size	Pack Qty.
TFTP70		
-01010A	0.075mm x 12mm x 10m	10 Rolls/Sleeve

Heavy Duty Absorbent Socks & Pillows

Product Features:

- High oil absorption, capable of quickly absorbing oil spills up to 16 times its own weight
- Reusable after washing

Applications:

- Control and absorb various types of oil spills and leaks
- Absorb and clean oil spills on water surfaces
- Control and clean up oil spills in large areas
- Absorb oil stains on ship hulls and ship decks
- Prevent accidents and injuries from oil spills at the working places
- **Minimum order quantity: 1 carton**



Socks



Pillows

Order Code	Type	Size (mm)	Absorption (kg)	Color	Carton Qty.
TFPA03					
-07612W	Socks	ø76 x 1200	5.25	White	20
-01230W	Socks	ø127 x 3000	30.00	White	10
-02025P	Pillows	200 x 250	2.70	White	32

Absorbent Granules & Particulates

- Lightweight texture, high absorption, cost-effective

Mineral Granules

- Oil absorbent, cost-effective
- High oil absorption, 15 times its own weight
- Petrol absorption capacity: approx. 200L per bag of 10kg
- Diesel absorption capacity: approx. 170L per bag of 10kg



Order Code	Absorption Type	Package
TFPA49		
-01010M	Oil	10kg/bag

PP Particles

- Yellow: absorption of strong acids, strong alkalis chemical solutions, cutting fluids, food liquids and water etc.
- White: absorption of oils, petrol, diesel etc. water repellent
- Grey: universal use, absorption of oils, weak acids, weak alkalis, milk etc. water repellent
- Petrol absorption capacity: approx. 200L per bag of 10kg
- Diesel absorption capacity: approx. 170L per bag of 10kg



Order Code	Color	Absorption Type	Package
TFPA49			
-02010P	Yellow	Strong Acids & Alkalis	10kg/bag
-03010P	White	Oil, Water Repellent	10kg/bag
-04010P	Grey	Oil, Water Repellent	10kg/bag

Blind Rivets

- The blind rivets are ideal for home and building applications since they can be used where other fastener products cannot
- Blind rivets are inserted into drilled holes, and a special tool is used to draw the mandrel through the body of the rivet. The blind end expands, and the mandrel is snapped off. Unlike solid rivets, blind rivets can be installed in joints from only one side of the part - making them "blind" to the opposite side

Dome Head



Diameter (mm)	Grip Length (mm)	Suitable Plate Thickness (mm)	MOQ	Aluminium	Stainless Steel (304)
				Order Code TFFS60	Order Code TFFS60
3.2	6	1 - 3	1000	-00306A	-00306B
	8	3 - 5	1000	-00308A	-00308B
	10	5 - 7	1000	-00310A	-00310B
	12	7 - 9	1000	-00312A	-00312B
4.0	6	0.5 - 2	1000	-00406A	-00406B
	8	2 - 4	1000	-00408A	-00408B
	10	4 - 6	1000	-00410A	-00410B
	12	6 - 8	500	-00412A	-00412B
4.8	8	2 - 3	500	-00508A	-00508B
	10	3 - 5	500	-00510A	-00510B
	12	5 - 7	500	-00512A	-00512B
	14	7 - 9	500	-00514A	-00514B
	16	9 - 11	500	-00516A	-00516B
	18	11 - 13	500	-00518A	-00518B

Closed End



Diameter (mm)	Grip Length (mm)	Suitable Plate Thickness (mm)	MOQ	Aluminium	Stainless Steel (304)
				Order Code TFFS60	Order Code TFFS60
3.2	6	1 - 3	1000	-01306A	-01306B
	8	3 - 5	1000	-01308A	-01308B
	10	5 - 7	1000	-01310A	-01310B
	12	7 - 9	1000	-01312A	-01312B
4.0	6	0.5 - 2	1000	-01406A	-01406B
	8	2 - 4	1000	-01408A	-01408B
	10	4 - 6	1000	-01410A	-01410B
	12	6 - 8	500	-01412A	-01412B
4.8	8	2 - 3	500	-01508A	-01508B
	10	3 - 5	500	-01510A	-01510B
	12	5 - 7	500	-01512A	-01512B
	14	7 - 9	500	-01514A	-01514B
	16	9 - 11	500	-01516A	-01516B
	18	11 - 13	500	-01518A	-01518B

Stainless Steel 304 Flat, Ribbed, Close End



Size	Length (mm)	Body Dia. (mm)	MOQ	Large Head	Small Head
				Order Code TFFS60	Order Code TFFS60
M4	17	5.9	1000	-23004B	-23104B
M5	19	6.9	1000	-23005B	-23105B
M6	23.5	8.9	1000	-23006B	-23106B
M8	27.5	10.9	500	-23008B	-23108B
M10	34	12.9	300	-23010B	-23110B

Rivet Nuts

- Rivet nuts, also known as blind nuts, are installed into materials such as sheet metal in order to create a deep lightweight load-bearing thread into which a screw or bolt can be fastened
- Rivet nuts come in a wide selection of head and body styles with flat head style being the most popular in use. These provide a reliable anchoring point for almost all applications
- Widely used in aviation, decoration, furniture, railways, electromechanical, automotive, heavy truck, and manufacturing industries

Flat, Ribbed, Large Head



Carbon Steel Colorful Zinc Plated



Stainless Steel (304)

Size	Length (mm)	Body Dia. (mm)	Zinc Plated		Stainless Steel 304	
			Order Code TFFS60	MOQ	Order Code TFFS60	MOQ
M3	9	4.9	-20003A	3000	-20003B	1000
M4	11	5.9	-20004A	3000	-20004B	1000
M5	13	6.9	-20005A	2000	-20005B	1000
M6	15	8.9	-20006A	1000	-20006B	1000
M8	18	10.9	-20008A	500	-20008B	500
M10	21	12.9	-20010A	300	-20010B	300
M12	24	14.9	-20012A	300	-20012B	300

Flat, Ribbed, Small Head



Carbon Steel Colorful Zinc Plated



Stainless Steel (304)

Size	Length (mm)	Body Dia. (mm)	Zinc Plated		Stainless Steel 304	
			Order Code TFFS60	MOQ	Order Code TFFS60	MOQ
M3	9	4.9	-20103A	3000	-20103B	1000
M4	11	5.9	-20104A	3000	-20104B	1000
M5	13	6.9	-20105A	2000	-20105B	1000
M6	15	8.9	-20106A	1000	-20106B	1000
M8	18	10.9	-20108A	500	-20108B	500
M10	21	12.9	-20110A	300	-20110B	300
M12	24	14.9	-20112A	300	-20112B	300

Half Hex Flange Head



Carbon Steel Colorful Zinc Plated



Stainless Steel (304)

Size	Length (mm)	Body Dia. (mm)	Zinc Plated		Stainless Steel 304	
			Order Code TFFS60	MOQ	Order Code TFFS60	MOQ
M4	11	5.9	-22004A	3000	-22004B	1000
M5	13	6.9	-22005A	2000	-22005B	1000
M6	15	8.9	-22006A	1000	-22006B	1000
M8	18	10.9	-22008A	500	-22008B	500
M10	21	12.9	-22010A	300	-22010B	300
M12	24	14.9	-22012A	300	-22012B	300

480Pc Stainless Steel Pan Head Machine Screw & Hex Nut Set

- A2-70 DIN7985
- Weight: 355g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-01480K

Size	Qty	Size	Qty
M2 x 8	20	M2	80
M2 x 12	20		
M2 x 16	20		
M2 x 20	20		
M3 x 8	20	M3	80
M3 x 12	20		
M3 x 16	20		
M3 x 20	20		
M4 x 8	20	M4	80
M4 x 12	20		
M4 x 16	20		
M4 x 20	20		

400pc Stainless Steel Cap Screw & Hex Nut Set

- A2-70 DIN912
- Weight: 546g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-03400K

Size	Qty	Size	Qty
M3 x 8	20	M3	80
M3 x 12	20		
M3 x 16	20		
M3 x 20	20		
M4 x 8	20	M4	80
M4 x 12	20		
M4 x 16	20		
M4 x 20	20		
M5 x 8	10	M5	40
M5 x 12	10		
M5 x 16	10		
M5 x 20	10		

180pc Stainless Steel Nyloc Nut Set

- A2-70 DIN7985
- Weight: 444g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-02180K

Size	Qty
M3	50
M4	40
M5	30
M6	30
M8	15
M10	10
M12	5

168pc Button Socket Cap Screw & Hex Nut Set - Grade 10.9 / Black

- Standard: ISO7380
- Weight: 288g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-16168K

Size	Qty	Size	Qty
M3 x 6	10	M3	20
M3 x 10	10		
M3 x 12	10		
M3 x 16	10		
M4 x 8	10	M4	20
M4 x 12	10		
M4 x 16	10		
M4 x 20	10		
M5 x 10	8	M5	16
M5 x 14	8		
M5 x 18	8		
M5 x 25	8		

400pc Stainless Steel Machine Countersunk Screw & Hex Nut Set

- A2-70 DIN7991
- Weight: 436g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-04400K

Size	Qty	Size	Qty
M3 x 8	20	M3	80
M3 x 12	20		
M3 x 16	20		
M3 x 20	20		
M4 x 8	20	M4	80
M4 x 12	20		
M4 x 16	20		
M4 x 20	20		
M5 x 8	10	M5	40
M5 x 12	10		
M5 x 16	10		
M5 x 20	10		

300pc Socket Set Screw Set - Grade 12.9 / Black

- Standard: ISO4029
- Weight: 188g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-18300K

Size	Qty
M3 x 3	20
M3 x 4	20
M3 x 5	20
M3 x 6	20
M4 x 3	20
M4 x 4	20
M4 x 5	20
M4 x 6	20
M5 x 4	20
M5 x 5	20
M5 x 6	20
M5 x 8	20
M6 x 6	20
M6 x 8	20
M6 x 10	20

300pc Stainless Steel Socket Set Screw Set

- Standard: DIN916
- Weight: 186g
- Other assortments are available according to customers requirements



Size	Qty
M3 x 3	20
M3 x 4	20
M3 x 5	20
M3 x 6	20
M4 x 3	20
M4 x 4	20
M4 x 5	20
M4 x 6	20
M5 x 4	20
M5 x 5	20
M5 x 6	20
M5 x 8	20
M6 x 6	20
M6 x 8	20
M6 x 10	20

Order Code
TFFS80
-06300K

400pc Stainless Steel Socket Button Head Machine Screw & Hex Nut Set

- A2-70 ISO7380 • Weight: 456g
- Other assortments are available according to customers requirements



Size	Qty	Size	Qty
M3 x 8	20	M3	80
M3 x 12	20		
M3 x 16	20		
M3 x 20	20	M4	80
M4 x 8	20		
M4 x 12	20		
M4 x 16	20		
M4 x 20	20		
M5 x 8	10	M5	40
M5 x 12	10		
M5 x 16	10		
M5 x 20	10		

Order Code
TFFS80
-05400K

440pc Socket Head Cap Screw & Nut Set - Grade 12.9 / Black

- Screw Standard: DIN912 • Nut Standard: DIN934
- Weight: 336g
- Other assortments are available according to customers requirements



Size	Qty	Size	Qty
M3 x 4	20	M3	220
M3 x 5	20		
M3 x 6	20		
M3 x 8	20		
M3 x 10	20		
M3 x 12	20		
M3 x 14	20		
M3 x 16	20		
M3 x 18	20		
M3 x 20	20		
M3 x 25	20		

Order Code
TFFS80
-17440K

242pc ZP Hex Nut Set

- Standard: DIN934 • Weight: 744g
- Other assortments are available according to customers requirements



Size	Qty
M5	100
M6	80
M8	35
M10	15
M12	12

Order Code
TFFS80
-10242K

140Pc Stainless Steel Split Cotton Pin Set

- Standard: DIN94 (ISO1234) • Weight: 220g
- Other assortments are available according to customers requirements



Size (mm)	Qty	Size (mm)	Qty
2 x 12	10	2.5 x 25	10
2 x 16	10	2.5 x 30	10
2 x 20	10	3 x 25	10
2 x 30	10	3 x 30	10
2.5 x 12	10	4 x 20	10
2.5 x 16	10	4 x 25	10
2.5 x 20	10	4 x 30	10

Order Code
TFFS80
-07140K

150pc Stainless Steel Internal Circilp Set

- Standard: DIN472 • Weight: 180g
- Other assortments are available according to customers requirements



Size (mm)	Qty	Size (mm)	Qty
9	10	19	10
10	10	20	10
12	10	22	10
14	10	24	10
15	10	25	10
16	10	26	10
17	10	28	10
18	10		

Order Code
TFFS80
-09150K

225pc Stainless Steel External Circilp Set

- Standard: DIN471 • Weight: 166g
- Other assortments are available according to customers requirements



Size (mm)	Qty	Size (mm)	Qty
3	20	12	15
4	20	15	15
5	20	16	10
6	20	17	10
8	20	20	10
9	15	22	10
10	15	25	10
11	15		

Order Code
TFFS80
-08225K

175pc Internal Circilp Set

- Standard: DIN472 • Weight: 134g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-20175K

Size (mm)	Qty
6	15
8	15
9	15
10	15
11	15
12	10
13	10
14	10
15	10
16	10
17	10
18	10
20	10
22	10
25	10

175pc External Circilp Set

- Standard: DIN471 • Weight: 160g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-19175K

Size (mm)	Qty
5	15
6	15
8	15
9	15
10	15
11	10
12	10
13	10
14	10
15	10
16	10
17	10
20	10
22	10
25	10

168pc Socket Head Countersunk Screw & Hex Nut Set - Grade 10.9 / Black

- Countersunk Screw Standard: DIN7991
- Nut Standard: DIN934 • Weight: 261g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-15168K

Size	Qty	Size	Qty
M3 x 8	10	M3	20
M3 x 10	10		
M3 x 12	10		
M3 x 16	10		
M4 x 10	10	M4	20
M4 x 12	10		
M4 x 16	10		
M4 x 20	10		
M5 x 12	8	M5	16
M5 x 16	8		
M5 x 20	8		
M5 x 25	8		

280pc ZP Nyloc Nut Set

- Standard: DIN985 • Weight: 1510g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-12280K

Size	Qty
M5	100
M6	80
M8	40
M10	20
M12	20
M14	10
M16	10

440pc ZP Plain Washer Set

- Standard: DIN125 • Weight: 572g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-11440K

Size	Qty
M5	200
M6	100
M8	80
M10	30
M12	30

200pc Expansion & Compression Spring Set

- Including "tension spring" and "compression spring"
- Other assortments are available according to customers requirements



Order Code
TFFS80
-13200K

Size (mm)	Qty	Size (mm)	Qty
4.0 x 79.5	12	5.5 x 17.0	10
4.5 x 44.5	8	5.5 x 38.0	10
5.0 x 20.5	10	6.5 x 10.0	10
5.5 x 25.5	10	7.0 x 12.5	10
6.5 x 22.0	10	7.0 x 19.0	10
7.0 x 38.0	10	9.0 x 35.0	8
7.0 x 51.0	12	9.5 x 16.0	6
8.0 x 28.5	8	9.5 x 19.0	12
8.0 x 31.5	10		
8.0 x 44.5	12		
8.5 x 36.5	10		
8.5 x 47.0	12		

250pc Silicone O Ring Set

- Standard: DISO3601 • Weight: 90g
- Other assortments are available according to customers requirements



Order Code
TFFS80
-14250K

Size (mm)	Qty	Size (mm)	Qty
4 x 1	20	14 x 2	20
6 x 2	20	15 x 2	20
8 x 2	20	16 x 2	10
9 x 2	20	17 x 2	10
10 x 2	20	20 x 2	10
11 x 2	20	25 x 2	10
12 x 2	20	30 x 2	10
13 x 2	20		

Industrial Double Section Aluminum Ladders

- Made of quality aluminum alloy
- Non-slip treads help keep your feet stable as you work
- Safety latches for added security
- Foldable
- Step spacing: 27cm
- Maximum load capacity: 150kg



Order Code	Extended Height (cm)	Numbers of Steps	Weight (kg)
TFLD10			
-20006A	170 - 250	6 + 5	5.5

Aluminum Folding Ladders

- Made of quality aluminum alloy
- Non-slip treads help keep your feet stable as you work
- Safety latches for added security
- Foldable
- Step spacing: 30cm
- Maximum load capacity: 150kg



Order Code	Extended Height (cm)	Numbers of Steps	Weight (kg)
TFLD11			
-10004F	120 - 240	4 x 2	5.0
-10006F	180 - 360	6 x 2	7.0
-10008F	240 - 480	8 x 2	9.1
-10010F	300 - 600	10 x 2	11.0

General Purpose Aluminum Ladders

- Made of quality aluminum alloy
- Long arch gives you support and ensures safety while its wide steps with anti skid pattern prevents you from slipping
- Can be folded flat for saving store space when not in use
- Step spacing: 25cm
- Maximum load capacity: 150kg



Order Code	Open Size (cm)	Numbers of Steps	Weight (kg)
TFLD11			
-10006A	138 - 148	4	3.5
-10106A	187 - 198	6	4.8
-10206A	233 - 248	8	5.8

Aluminum Step Stools

- Made of high quality thick aluminum alloy, strong and solid with 4 anti-slip pads of 4 feet
- Anti-slip lines are added to the step platform to ensure non-slip
- Compact, portable and lightweight yet sturdy



Order Code	Open Size (cm)	Numbers of Steps	Weight (kg)
TFLD16			
-20202A	34.5 x 31 x 30.5	2 x 2	1.2
-20303A	57 x 37 x 42.5	3 x 2	1.8

Industrial 3-Section Aluminum Ladders

- Made of quality aluminum alloy
- Can be used as a step ladder, straight ladder and push-up extension ladder
- Rectangular rungs grooved on both sides
- Stable rectangular tube side-rails
- Step spacing: 29cm
- Maximum load capacity: 150kg



Order Code	Extended Height (cm)	Numbers of Steps	Weight (kg)
TFLD10			
-30006A	175 - 407	6 x 3	9.6
-30008A	233 - 581	8 x 3	12.0
-30012A	349 - 929	12 x 3	16.8

Aluminum Platform Steps

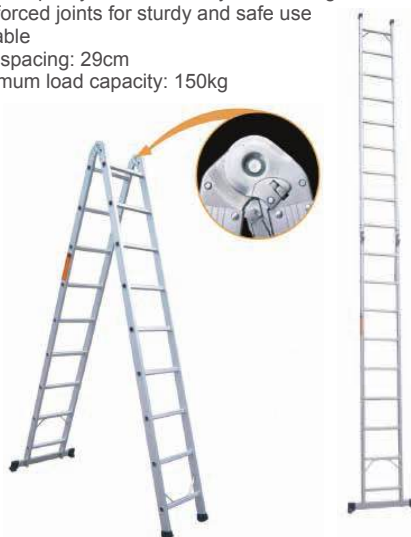
- Made of quality aluminum alloy, double sided access
- Non-slip treads help keep your feet stable as you work
- Foldable
- Step spacing: 30cm
- Maximum load capacity: 150kg



Order Code	Height (cm)	Numbers of Steps	Weight (kg)
TFLD11			
-20104A	120	4 x 2	3.2
-20106A	180	6 x 2	4.7
-20108A	240	8 x 2	6.2
-20110A	300	10 x 2	7.8

Industrial Dual-purpose Aluminum Folding Ladders

- Made of quality aluminum alloy, industrial grade
- Reinforced joints for sturdy and safe use
- Foldable
- Step spacing: 29cm
- Maximum load capacity: 150kg



Order Code	Extended Height (cm)	Numbers of Steps	Weight (kg)
TFLD15			
-20006F	180 - 353	6 x 2	7.0
-20007F	210 - 413	7 x 2	7.8
-20008F	240 - 473	8 x 2	8.6
-20009F	270 - 533	9 x 2	9.5
-20010F	300 - 593	10 x 2	10.4

Industrial Multi-purpose Aluminum Folding Ladders

- Heavy-duty aircraft-grade aluminum construction with large locking joints for stable and durable use
- Step spacing: 29cm
- Maximum load capacity: 150kg



Order Code	Extended Height (cm)	Numbers of Steps	Weight (kg)
TFLD15			
-50002F	72 - 250	4 x 2	9.5
-50003F	101 - 370	4 x 3	11.2
-50004F	126 - 470	4 x 4	12.5

Aluminum Workbench

- Made of heavy-duty aluminum alloy
- Platform legs lock securely in place when in use and fold underneath platform for compact storage
- Maximum load capacity: 150kg



Order Code	Platform Size (cm)	Extended Height (cm)	Numbers of Steps	Weight (kg)
TFLD16				
-10002B	89 x 30	53	1 x 2	4.2

Insulated Ladders

- Constructed with aluminum steps with fiberglass rails
- Insulation voltage: 35KV
- Step spacing: 33cm
- Maximum load capacity: 150kg



Order Code	Extended Height (cm)	Numbers of Steps	Weight (kg)
TFLD20			
-21006N	200	6	6.8
-21009N	300	9	10.0
-21012N	400	12	13.6
-21015N	500	15	17.0
-21018N	600	18	20.4

Insulated Double Section Ladders

- Constructed with aluminum steps with fiberglass rails
- Auto locking mechanism
- Top hooks enhance the security, make the ladder more stable and safer when used
- Deep trends for comfort and anti skid
- Step reinforced braces for stronger support
- Insulation voltage: 35KV
- Step spacing: 30cm
- Maximum load capacity: 150kg



Order Code	Extended Height (cm)	Numbers of Steps	Weight (kg)
TFLD20			
-22013N	275 - 400	13	14.0
-22019N	380 - 600	19	21.0
-22025N	480 - 800	25	28.0
-22031N	580 - 1000	31	35.0

Insulated Platform Steps

- Constructed with aluminum steps with fiberglass rails
- Extra wide treads with slip-resistant surface to increase rigidity & stability
- Horizontal spreaders offer additional stability
- Insulation voltage: 35KV
- Step spacing: 30cm
- Maximum load capacity: 150kg



Order Code	Extended Height (cm)	Numbers of Steps	Weight (kg)
TFLD20			
-12004N	120	4 x 2	7.6
-12006N	180	6 x 2	11.2
-12008N	240	8 x 2	15.0
-12010N	300	10 x 2	19.0

Wood-grained Aluminum Step Ladders

- Lightweight and attractive aluminum appearance ladder gives an antique appearance with convenience and safety of modern design. Great for home, offices, kitchens, garages, laundry rooms, book rooms etc.
- Large non-slip rubber feet, you can set up and maneuver the ladder easily without scratching your hardwood floor
- Extra wide treads with slip-resistant surface to increase rigidity & stability
- Long arch gives you support and ensures safety while its wide steps with anti skid pattern prevents you from slipping
- Step reinforced braces for stronger support
- Rivet Reinforcement construction for additional security
- Innovative design in ultralight weight, can be folded compactly to fit in a narrow place, easy to carry
- Maximum load capacity: 120kg



Order Code	Open Size (cm)	Closed Size (cm)	Numbers of Steps	Weight (kg)
-40087A	134 x 44 x 84	149 x 37 x 11	4	3.72
-40110A	180 x 47 x 98	195 x 39 x 11	5	4.18
-40132A	227 x 49 x 113	242 x 42 x 11	6	4.82

Japanese Style Aluminum Step Stools

- Innovative lightweight and attractive aluminum appearance ladder, made of 100% aluminum alloy
- Designed for home, kitchens, offices, schools, garages and etc.
- Steps with integrated grooves for a firm grip
- With stainless steel safety bar for easily and safely folding
- Stands on its own when folded
- Maximum load capacity: 150kg

Red

Tiffany Blue



Order Code	Color	Open Size (cm)	Closed size (cm)	Numbers of Steps	Weight (kg)
-21051A	Red	48 x 45 x 45	53 x 45 x 12.5	2	2.6
-21079A	Red	74 x 50 x 62	80 x 50 x 12.5	3	3.9
-21051B	Tiffany Blue	48 x 45 x 45	53 x 45 x 12.5	2	2.6
-21079B	Tiffany Blue	74 x 50 x 62	80 x 50 x 12.5	3	3.9

PVC Barrier Tapes

- Designed to provide visual warnings to reduce accidents, great for spots in your workplaces where hazards are located and need to be properly marked
- Made of high quality vinyl PVC material which is easy to unroll and apply. These tapes have a strong, long-lasting adhesive which bonds instantly to most surfaces
- Abrasive, tear and weather resistance and water-proof coating suitable for high foot traffic
- Corrosion resistance, acid and alkali resistance, no glue residue after removal
- Long-term temperature resistance: 60°C; short-term temperature resistance: 80°C
- Thickness: 0.15mm



Order Code	Color	Width x Length	Pack Qty. (Roll)
-01503A	Black/White	50mm x 33m	1
-02503A	Green/White	50mm x 33m	1
-03503A	Black/Yellow	50mm x 33m	1
-04503A	Red/White	50mm x 33m	1
-05503A	Blue	50mm x 33m	1
-06503A	Yellow	50mm x 33m	1
-07503A	White	50mm x 33m	1
-08503A	Red	50mm x 33m	1
-09503A	Black	50mm x 33m	1
-10503A	Green	50mm x 33m	1

High Purity Lead Free Rosin Core Solder Wire (Sn99Cu0.7)

- This environmentally friendly lead free solder wire is made mostly of tin (99%). It melts quickly and cleanly, spreading smoothly while soldering, and producing less mess and smoke, performs good fluidity and heating evenly, good thermal and electrical conductivity
- Manufactured with international standard flux and vacuum sealing technology, performing a shorter wetting time that helps the soldering contact to maximize the working efficiency
- Crafted for high reliability, low melting point, good activity, high insulation resistance and fast soldering, effectively reducing the thermal impact on components during soldering
- Solder joints appear smooth and shiny, with continuous beads without any gaps or voids, keep perfect anti-oxidation, good wetting and spreading properties
- Composition: Sn99Cu0.7
- Suitable for high-end electronic and electrical industrial products
- SGS authenticated



Order Code	Size	Melting Point (C°)	Density (g/m³)	Working Temperature (C°)
-10805A	50g/Roll (0.8mm)	227	7.4	380 ± 20
-10810A	100g/Roll (0.8mm)			
-11005A	50g/Roll (1.0mm)			
-11010A	100g/Roll (1.0mm)			

Powerlite Flashlights

- Aircraft grade aluminum alloy construction
- Ultra bright and long-lasting performance
- Self-defense, resistant to drops and abrasives, waterproof
- Sturdy and durable
- Crafted for beautiful appearance

Mini LED Super Bright Flashlight

- Suitable for cycling, hiking, camping, night running, night fishing and other outdoor activities
- Aircraft grade aluminum alloy construction, durable and beautiful
- 4 beam modes: high, medium, low, strobe
- High beam: runs 4 hours; medium beam: runs 6 hours; low beam: runs 8 hours
- IPX5 waterproof rating, can be used in rainstorm
- Comes with 1 x 18650 lithium battery



Spare Parts:
[18650 Lithium Battery](#)
 Order Code: **TFLT01-18650B**
[18650 Battery Charger](#)
 Order Code: **TFLT01-0005C**

Order Code	Dimensions (mm)	Power (W)	Brightness (LM)	Beam Distance (M)	Weight (with battery)
TFLT01	116 x 24 x 24	10	350	200 - 500	84
-01005A	Kit (1 of each): Flashlight + AC Battery Charger + 18650 Battery				
-01155K	Kit (1 of each): Flashlight + AC Battery Charger + 18650 Battery				

LED Super Bright Zoom Flashlight

- Suitable for cycling, hiking, camping, night running, night fishing and other outdoor activities
- Aircraft grade aluminum alloy construction, can withstand run-over by a 2-ton vehicle
- Self-defense strike bezel
- Optical frog eye lens, large aperture producing remarkable and focused lighting
- Telescopic focus adjustment
- 5 beam modes: high, medium, low, strobe, SOS
- Splash resistance, can be used in heavy rain
- Bead life up to 100,000 hours
- Comes with 1 x 26650 lithium battery, with capacity of two 18650
- Compatible with 18650 lithium battery



Spare Parts:
[26650 Lithium Battery](#)
 Order Code: **TFLT01-26650B**
[26650 Battery Charger](#)
 Order Code: **TFLT01-00016C**

Order Code	Dimensions (mm)	Power (W)	Brightness (LM)	Beam Distance (M)	Weight (with battery)
TFLT01	146 x 54 x 35	10	240	300	292
-01002A	Kit (1 of each): Flashlight + AC Battery Charger + 26650 Battery				
-01122K	Kit (1 of each): Flashlight + AC Battery Charger + 26650 Battery				

LED Ultra Bright Defender Flashlight

- Suitable for cycling, hiking, camping, night running, night fishing and other outdoor activities
- Aircraft grade aluminum alloy construction, resistant to drops and abrasions, durable and beautiful
- Self-defense strike bezel
- Metal switch button is more durable
- Large clear aperture up to 200 meters
- CREE LED beads for brighter and farther illumination
- 3 beam modes: high, low, strobe
- Comes with 1 of 18650 lithium battery pack (3.7V)



Spare Parts:
[18650 Lithium Battery Pack](#)
 Order Code: **TFLT01-18650D**
[18650 Pack Charger](#)
 Order Code: **TFLT01-00027C**

Order Code	Dimensions (mm)	Power (W)	Brightness (LM)	Beam Distance (M)	Weight (with battery)
TFLT01	248 x 53 x 27	10	350	300 - 500	272
-01003A	Kit (1 of each): Flashlight + AC Battery Charger + 18650 Battery Pack				
-01133K	Kit (1 of each): Flashlight + AC Battery Charger + 18650 Battery Pack				

LED Long Distance Illumination Powerlite - USB Charging

- Suitable for cycling, hiking, camping, night running, night fishing and other outdoor activities
- Aircraft grade aluminum alloy construction, resistant to drops and abrasions, durable and beautiful
- Self-defense strike bezel
- Telescopic focus adjustment
- Optical frog eye lens, large aperture can easily illuminate a room of 200m²
- Splash resistance, can be used in heavy rain
- Intelligent direct fast USB charging without removal of battery. Also can do AC charging by a power adapter
- 5 beam modes: high, medium, low, strobe, SOS
- 4-level battery indicator: 100%~75%~50%~25%
- Comes with 1 of 18650 lithium battery and 1 of USB charging cable



Spare Parts:
[18650 Lithium Battery](#)
 Order Code: **TFLT01-18650B**
[USB Charging Cable](#)
 Order Code: **TFLT01-00037C**

Order Code	Dimensions (mm)	Power (W)	Brightness (LM)	Beam Distance (M)	Weight (with battery)
TFLT01	164 x 37 x 28	15	800	500	198
-01004A	Kit (1 of each): Flashlight + AC Battery Charger + 18650 Battery + USB Cable				
-01144K	Kit (1 of each): Flashlight + AC Battery Charger + 18650 Battery + USB Cable				

Mini LED Zoom Flashlight

- Aircraft grade aluminum alloy construction, durable and beautiful, easy to carry, equipped with a 5W LED bead
- 3 beam modes: high, strobe, SOS
- Press and hold the switch button can adjust the brightness and strobe
- Telescopic zoom
- Overcharge and over-discharge protection
- Built-in output port, making the light can be used as a power bank
- Type-C port USB charging
- Comes with 1 of 18650 lithium battery and 1 x Type-C charging cable
- CE and ROHS certified



250LM
Lumen



3 Hours
High Beam Duration



USB
USB Charging



3 Hours
Fully-Charged Time

Order Code	Zoom-Out Length (mm)	Zoom-In Length (mm)	Diameter (mm)	Weight (with battery) (g)
TFLT01				
-01007A	120	130	25	120

ABS Work Light - Torch Type

- Suitable for cave exploration, patrolling, hunting, teaching, cycling, hiking, camping, night fishing and other outdoor activities
- Made of shock and drop resistant ABS, matt finish for comfortable grip
- Dual light sources: 3W LED and 3W COB
- 3 beam modes of head LED, button switch-over: high, low and strobe
- COB on/off by telescopic control
- Zoom in/out, powerful tail magnet
- Powered by 4 x AAA (batteries not included)
- CE certified



60LM
Head LED Lumen



160LM
COB Lumen



Powerful Magnet

Order Code	Zoom-Out Length (mm)	Zoom-In Length (mm)	Diameter (mm)	Weight (with battery) (g)
TFLT01				
-02087A	164	223	46	136

Multi-mode Super Bright LED Zoom Flashlight

- Aircraft grade aluminum alloy construction, durable and beautiful, easy to carry
- One-button control for convenient operation
- Tail switch controls the light on/off
- Neck switch controls multiple modes of beam: energy saving, low, medium, high, ultra high, press and hold for strobe mode
- Automatic memory function is specialized to store the current setting of beam mode
- Telescopic head for zoom in/out
- Lumens and durations:
Ultra high: 1200LM for 1 hour
High: 700LM for 1 hour
Medium: 500LM for 2 hours
Low: 270LM for 3 hours
Energy saving: 90LM for 8.5 hours
- Comes with 1 of 18650 lithium battery and 1 x Type-C charging cable



Spare Parts:

[18650 Lithium Battery](#)

Order Code: **TFLT01-18650B**

[18650 Battery Charger](#)

Order Code: **TFLT01-00005C**



USB
USB Charging



3 Hours
Fully-Charged Time

Order Code	Zoom-Out Length (mm)	Zoom-In Length (mm)	Diameter (mm)	Weight (with battery) (g)
TFLT01				
-01008A	140	150	28	142

Aluminum Alloy Defender Search Light

- Suitable for self-defense, hunting, patrolling, hunting, hiking, camping, and other outdoor activities
- Crafted made aircraft-grade aluminum alloy body plus pure brass switch for durable and reliable performance
- Double 15W high beam concentration convex lenses providing ultra brightness
- Dual light sources: warm white and blue
- Adjustable aperture by turning the head
- Digital battery indicator
- Built-in output port, making the light can be used as a power bank
- Built-in high-capacity (28,000mAh) 21700 lithium battery for extended duration



13 Hours
White Light Duration



14 Hours
Blue Light Duration



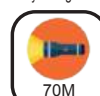
40LM
Lumen



4 Hours
Fully-Charged Time



USB
USB Charging



70M
Beam Distance

Order Code	Length (mm)	Diameter (mm)	Weight (with battery) (g)
TFLT20			
-01205A	190	75	1220

TPR High Lumen Diving Torch

- Suitable for diving, swimming, camping, hunting, hiking, fishing, and other activities
- Aluminum reflector with TPR casing
- Features a magnetic control switch with a 3W LED bead
- Diving depth: 25 meters
- Waterproof rating: IP68
- Powered by 4 x AA batteries (not included).
- CE certified



Order Code	Length (mm)	Diameter (mm)	Weight (with battery)(g)
TFLT01			
-05008A	155	33	99

Super LED Rechargeable Torch

- Made from drop and impact resistant ABS for durable use, waterproof
- 2 beam modes: high, medium
- Duration of high beam: 5 hours
Duration of medium beam: 10 hours
- Brightness: 100LM
- Beam distance: 200m
- Battery lifespan: 500 charges
- USB charging as standard, AC charging is compatible



Order Code	Power (W)
TFLT30	
-01001A	1

10M/220V/60W Lead Lamps - Metal Cage

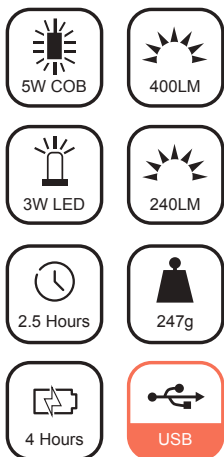
- Rubber handle and heavy gauge steel guards provide maximum protection for bulbs and electrical components from large object splashing during the work
- Rugged structures and electrical enclosures provide convenient, long-lasting, configurable work centers for harsh environments
- Top hook design make it can be used in many working sites
- Ergonomic handle for comfortable and safe grip
- Bulbs need to be purchased separately



Order Code	Voltage (V)	Power (W)	Cord Length (M)
TFLT50			
-01060A	220	60	10

LED Swivel Head Work Light - USB Rechargeable

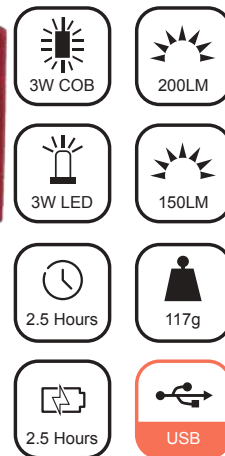
- Unique design with a 270° rotating head providing multi-angle illumination, great for car repair, home lighting, camping, hiking, power outages, emergency etc.
- Versatile for hand-held, standing, hanging, attaching and also it can be used as a small desk lamp
- PC + TPR compound casing for comfortable grip and resistant to drop and impact
- Thanks to built-in powerful magnet and hook, the light can be easily attached to metals or hanged on objects for hand free operation
- 3W LED bead + 5W COB offering excellent illumination
- Can be used as a power bank for other electronic devices
- Features a charging indicator
- Powered by 1 of 18650 lithium battery or 2 of the same batteries, USB rechargeable



Order Code	Dimensions (mm)		Weight (g)
	Folded	Extended	
TFLT40			
-00106A	150 x 48 x 39	275 x 48 x 39	247

Pocket Type LED Work Light - USB Rechargeable

- Perfectly used for home using, vehicle examining and repairing, hiking, camping, night cycling etc.
- High-quality ABS casing, sturdy, durable, environmental-friendly and comfortable to use
- Features a 120° rotating clip for convenient use, also thanks to the built-in magnets, the light can be easily attached to metal surfaces for hand free operation
- 3W LED bead + 3W COB offering excellent illumination
- Can be used as a power bank for other electronic devices
- Features a charging indicator
- Powered by 1 of 18650 lithium battery, USB rechargeable



Order Code	Dimensions (mm)	Weight (g)
TFLT40		
-00102A	200 x 40 x 25	117

LED Work Light - USB Rechargeable

- Stylish yet practical, versatile for hand-held, standing, hanging, attaching
- PC + TPR compound casing for comfortable grip and resistant to drop and impact
- 3W LED bead + 5W COB offering excellent illumination
- Thanks to built-in powerful magnet and 360° rotating hook, the light can be easily attached to metals or hanged on objects for hand free operation
- Can be used as a power bank for other electronic devices
- Features a charging indicator
- Powered by 1 of 18650 lithium battery or 2 of the same batteries, USB rechargeable



5W COB	400LM
3W LED	200LM
2.5 Hours	215g
3 Hours	USB

Order Code	Dimensions (mm)	Weight (g)
TFLT40		
-00109A	185 x 60 x 32	215

LED White/Red Light Switchable Headlight - USB Rechargeable

- Stylish, high brightness and lightweight
- ABS casing with a waterproof silicone cover
- Multiple beam modes of white light: high, low, strobe, press and hold to switch it over to red light modes: on and strobe, alternating with each other
- Easy to aim: swivel from looking straight ahead, to 45° down, depending where you need to aim
- Highly elastic and breathable large headband with an adjustable strap for comfortable wearing
- Powered by 1 of 3.7V/12,000mAh high capacity lithium battery, USB rechargeable

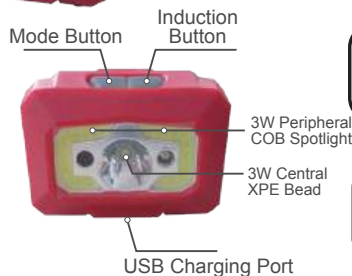


3W COB	100LM	4 Hours
72g	2.5 Hours	USB

Order Code	Dimensions (mm)	Weight (g)
TFLT40		
-07103A	60x 40 x 35	72

5-Mode Induction Headlight - White/Red Light Switchable

- ABS casing, sturdy, durable and beautiful
- 5 lighting modes:
 - White light, central XPE on
 - White light, surrounding COB on
 - White light, both central XPE & peripheral COB on
 - Red light: peripheral COB on
 - Red light: peripheral COB strobe
- All the above 5 modes can be achieved by pressing "Mode Button"
- Press "Induction Button" to activate the induction mode while the blue light is on. By this induction mode, you can easily achieve all the above 5 modes as well
- Easy to aim: swivel from looking straight ahead, to 45° down, depending where you need to aim
- Highly elastic and breathable large headband with an adjustable strap for comfortable wearing
- Powered by 1 of 3.7V/12,000mAh high capacity lithium battery, USB rechargeable



Perf! COB	3W XPE
4 Hours	2.5 Hours
COB 140LM	XPE 140LM
74g	USB

Order Code	Dimensions (mm)	Weight (g)
TFLT40		
-07104A	60 x 40 x 38	74

Induction LED Zoom Headlamp

- Constructed with ABS and aluminum, equipped with a 5W LED bead
- 5 beam modes: high brightness - low brightness - strobe light - red light on - red light strobe light. Press for 3 seconds for switch-over
- Induction mode can control any of above modes
- Zoom-in/out
- Real-time battery level indicator
- Comes with 1 x 1800mAh rechargeable lithium battery, long duration, USB charging



Order Code	Dimensions (L x W x H)	Beam Distance (M)		Weight (g)
		High	Low	
TFLT40				
-02146A	70 x 46 x 38	50	30	110.2

Diving Head Torch

- Suitable for activities such as diving, swimming, camping, hunting, hiking, fishing, and emergency vehicle repairs
- ABS plastic body, aluminum alloy head and silicone headband
- Features a magnetic control switch with a 3W LED bead
- 3 beam modes: high - low - strobe
- Diving depth: 25 meters
- Waterproof rating: IP68
- Powered by 1 x 18650 lithium battery or 3 x AAA batteries



Spare Parts:
[18650 Lithium Battery](#)
 Order Code: **TFLT01-18650B**
[18650 Battery Charger](#)
 Order Code: **TFLT01-00005C**

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Order Code	Length x Width (mm)	Beam Distance (mm)	Weight (with battery)
TFLT40			
-05056A	87 x 103	37	175

Wide Illuminating Induction LED Headlight

- Constructed with ABS and aluminum alloy, waterproof, sturdy, durable and beautiful
- Equipped with one 10W CREE high brightness bead
- Multiple beam modes: full-brightness, half-brightness, strobe
- Large Diameter HD lens for wider and clearer illumination
- Induction light on function
- Head angel can be adjusted from 0° to 45° to adapt to the human eyes
- Comes with 1 x 1800mAh rechargeable lithium battery, long duration, USB charging
- Highly elastic and breathable large headband with an adjustable strap for comfortable wearing
- Comes with 2 x 18650 lithium batteries, USB charging



Order Code	Dimensions (mm)	Head Dia. (mm)	Beam Distance (M)		Weight (g)
			Full-Brightness	Half-Brightness	
TFLT40					
-07105A	190 x 90 x 82	82	500	400	262

5W LED Rechargeable Powerful Spotlight

- LED white light source
- 2 beam modes: high, medium
- CREE bead for brighter and farther illumination
- Built-in OSRAM chip for reliable performance
- ABS casing, lightweight, reducing fatigue during work
- Built-in powerful lithium batteries, duration time up to 15 - 24 hours
- Comes with a AC power adapter for charging



Order Code	Beam Distance (M)	Power (W)	Lumen (Lx)	Dimensions (mm)	Head Diameter (mm)	Weight (g)
TFLT20						
-00015B	500	5	320	155 x 95 x 125	77	355

Lotoxane Series Chemical Products

- Widely used by leading global oil and gas producers, engine manufacturers, machining and manufacturing companies, and military-industrial enterprises
- Can safely replace toxic solvents and is extensively used in degreasing processes across various industrial sectors
- High purity and free from aromatic compounds, making it suitable for efficiently removing common grease, oil stains, carbon deposits, hydraulic oil, and cutting oil from exposed metal surfaces or coated metal surfaces, as well as plastics and composite materials, while preserving coatings
- Virtually odorless and non-corrosive, with minimal residue after evaporation, providing effective cleaning without harming subsequent paint applications
- Low volatility minimizes losses due to evaporation during use, thus reducing costs and meeting the latest Volatile Organic Compounds (VOC) emission control requirements
- A solvent mixture with high purity, no aromatic compounds, low odor, and a high flashpoint
- Non-corrosive and safe for use on all metals, plastics, coatings, rubber, electrical and electronic components, and assemblies
- Reduces solvent volatility for a safer workplace
- Controllable evaporation rate for better penetration into grease and oil stains while reducing consumption
- Free from ozone-depleting substances
- Not classified as hazardous material, easy to transport
- Can be heated up to 40°C, five times faster drying and evaporation

Lotoxane Safe High Flash Point Degreaser

- High-purity, non-aromatic solvent mixture with excellent degreasing capabilities, suitable for a wide range of degreasing requirements
- Effectively removes oil, grease, machining fluids, hydraulic oil, and hydrocarbon protective coatings in the production process
- Particularly suitable for electronic and electrical components, as well as for sensitive metals, plastics, and coated surfaces, and as a pre-painting degreaser
- Used for pre-cleaning before NDT (Non-Destructive Testing), welding, spraying, adhesive application, mechanical work, part and assembly maintenance, and other degreasing processes
- A versatile degreaser for manufacturing, maintenance, repair, and surface pretreatment
- High purity, leaves almost no residue after drying, and has a low odor
- Convenient to use, can be applied directly or used in immersion tanks and ultrasonic cleaning equipment
- Not classified as a flammable solvent, with a flashpoint of 62°C
- Used for dehydration after water washing
- Utilizes advanced pbca spray can technology
- Accreditations & Registrations
Rolls Royce CSS255 Type A,B,D
Rolls Royce OMAT 1/257G
Airbus CML ABR 9-0140
Airbus AIP1 09-01-002 (Non-aqueous cleaning agents)
Boeing D6-17487 Revision L
South African Airways
Rail Cat Approval 007/025037 (500ml aerosol)
Rail Cat Approval 007/025036 (500ml trigger)
Rail Cat Approval 007/025033 (5ltr)
Rail Cat Approval 007/025034 (20ltr)
Rail Cat Approval 007/007369 (30ltr)
Rail Cat Approval 007/025035 (210ltr)
BAE R10 6026 (cleaning – cold solvent – general purpose)
BAE R10-6027 (cleaning – cold solvent – critical applications)
- Made in UK



Order Code	Packing	Volume
AWCH01		
-10043C	Trigger	500ml
-30043C	Pail	20L
-50043C	Drum	210L

	1,1,1 - Trichloroethane	Trichloro Ethylene	Alcohols Aqueous	Cleaning Agent	Lotoxane
Complies with environmental Management agreements	×	√	√	√	√
Easy to use	×	×	×	√	√
Effective degreasing	√	√	√	√	√
No residue	√	√	√	×	√
Low cost	√	√	×	√	√
Fast evaporation	√	√	√	×	×

Lotoxane Fast- Aircraft Engines Cleaner

- Specifically designed for cleaning aircraft engines and similar applications
- Dries three times faster than the standard type
- Removes residual oil, grease stains, cutting oils, hydraulic oils, and hydrocarbon-based protective coatings left during production and processing
- Used for cleaning prior to NDT testing and inspections
- The final cleaning step before welding, painting, bonding, or coating
- Effective degreasing during maintenance and repair of machinery, parts, and components
- Suitable for cleaning electrical and electronic equipment
- Used for dewatering after water rinsing; applied directly to the surface of parts and electrical systems to remove moisture from wet surfaces
- High purity, free from aromatic hydrocarbons
- Flashpoint at 40°C
- Accreditations & Registrations
Rolls Royce CSS255 Type A,B,D
Rolls Royce OMAT 1/257H
Pratt and Whitney SPOP 208 Solvent Wiping- SPMC 216-1 solvent liquid and SPMC 216-2 for solvent wipes
ARP1755B
- Made in UK



Order Code	Packing	Volume
AWCH01		
-10044C	Aerosol	500ml
-30044C	Pail	20L
-50044C	Drum	210L

Lotoxane Fast Wipes

- Quick-drying, multi-purpose wet wipes containing Lotoxane Fast
- Suitable for localized cleaning before painting and welding; suitable for the first step of NDT (Non-Destructive Testing) cleaning
- The use of wipes can reduce the risk of cleaner spillage and minimize solvent evaporation during use
- Accreditations & Registrations
Rolls Royce CSS255 Type A,B,D
Rolls Royce OMAT 1/257H
Pratt and Whitney SPOP 208
Solvent Wiping- SPMC 216-1 solvent liquid and SPMC 216-2 for solvent wipes
ARP1755B
- Made in UK



Order Code	Tub Containing
AWCH01	
-70044C	85 Wipes

Lotoxane XF - Solvent Degreaser

- Special degreasing solvent for manual pre-treatment of frame structures and sheet metal in the automotive manufacturing industry
- Effectively removes oil, grease, machining fluids, hydraulic oil, and hydrocarbon protective coatings during the production process
- Ultra-fast drying, dries six times faster than the standard type
- Used for pre-paint cleaning and is an ideal alternative to traditional diluents, methyl ethyl ketone, and toluene
- Flashpoint at 27°C
- Accreditations & Registrations
BAE R10-6027 (cleaning – cold solvent – critical applications)
Rolls Royce CSS255 Type A B D
- Made in UK



Order Code	Packing	Volume
AWCH01		
-30053C	Pail	20L

Delta - Marine Degreaser

- Marine applications: used to emulsify deck equipment, decks, upper decks, holds, tanks, and workshops to remove grease, oil, and gasoline residues; breaks down oil and grease stains on the bottom of the ship's compartments
- Industrial applications: highly effective in removing heavy oil, grease, tar, pitch, and asphalt from workshop and equipment maintenance or inspection before use; for cleaning residual solvents during component cleaning equipment in production workshops, water washing can be used, making it the best choice for degreasing production lines and maintenance departments
- Low odor
- Made in UK



Order Code	Packing	Volume
AWCH05		
-30100C	Pail	20L

Supersolve AS - Aviation / Food Grade

- High-purity refined solvent, ensuring safe use on the surfaces of most sensitive metals
- Used to remove most oil stains, such as silicone oil and small particles, from electrical, electronic components, instruments, mechanical parts, and other surfaces
- Suitable for cleaning electrical and electronic components, motor coils, switches, etc., in industries including aerospace, manufacturing, and food processing
- The first step in highly efficient non-destructive testing during routine maintenance or quality checks
- The best choice for surface pre-treatment before welding, painting, and spraying; also ideal for cleaning delicate fabrics, carpets, and interior oil stains
- Quick-drying with minimal residue, making it an ideal choice for surface pre-treatment in welding, painting, and maintenance
- Ultra-fast drying to reduce downtime during electrical maintenance and repairs
- Uses propellant 134a, effectively suppressing flammability during use
- Low odor and non-polluting
- Made in UK



Order Code	Packing	Volume
AWCH02		
-00145A	Aerosol	400ml

HDD - Emulsifiable Solvent Degreaser

- High-efficiency emulsifying solvent degreaser, making stains easily rinseable with water, leaving surfaces clean and oil-free after cleaning
- Widely used for cleaning cargo holds and decks of crude oil transport ships for offshore operations; certified for cleaning hydraulic cyclones by North Sea drilling platforms
- Suitable for both black and non-ferrous metals
- Can be used in immersion tanks or parts cleaning equipment to remove oil from components and parts during the production process
- Used for degreasing before mechanical and equipment maintenance, repairs, and inspections
- Cleaning of crude oil storage tanks and oil residue treatment
- Removes temporary protective coatings or wax from parts
- Removes gasoline and grease from engines, heavy machinery, and equipment
- Not classified as a flammable solvent, with a flashpoint >62°C
- Made in UK



Order Code	Packing	Volume
AWCH04		
-30180C	Pail	20L

Citrol - Microemulsion Degreaser

- Microemulsion cleaner and degreaser
- Used for cleaning various types of contaminants such as oil and dust on components, machine tools, processing equipment, and engines; also quickly and effectively cleans oil stains on workshop walls and floors
- It is also a versatile and highly efficient surface cleaner suitable for hard surfaces, walls, and floors, among others
- Diluted with water to reduce solvent usage, making it cost-effective
- Accreditations & Registrations
Dubai Dry Dock Company
Institute of Naval Medicine –
Listed in BR1326
Rail Cat No 007/025228 (20t)
- Made in UK



Order Code	Packing	Volume
AWCH06		
-30834C	Pail	20L

Aquaklenz LF - Water-based Degreaser

- Low-foaming, non-corrosive water-based degreaser widely used in manufacturing and processing industries, such as rotary spray cleaning equipment
- Contains no corrosive substances, making it safe for use on sensitive metals and alloys
- Can be heated for enhanced cleaning effectiveness
- Suitable for degreasing and cleaning any equipment used in the production process that requires the addition of a defoaming cleaner for optimal performance
- Used for degreasing components before machining, packaging, or maintenance
- Effectively removes coolant, oil, and grease residues from processed parts, castings, and forgings
- Achieves optimal results when used in immersion tanks or ultrasonic cleaning equipment
- The ideal dilution ratio reduces usage costs
- Excess oil and grease can be skimmed or separated to improve product lifespan and reduce usage costs
- Silicon-free
- Made in UK



Order Code	Packing	Volume
AWCH20		
-30014C	Pail	20L

Chain Lube

- The product contains refined mineral oil and isobutene, making it a clean, colorless, and low-odor high-performance lubricant
- A special formulated blend that effectively reduces oil dripping and splattering caused by high-speed operation of components and steel chains
- Used for medium to heavy-duty lubrication, suitable for machining, assembly, production, and maintenance equipment
- Film remains effective up to 200°C
- Accreditations & Registrations
NSF (H1) 142889
- Made in UK



Order Code	Packing	Volume
AWCH37		
-00441A	Aerosol	400ml

Shield - Rust Inhibitor

- A highly effective, premium industrial rust inhibitor that combines rust prevention, water displacement, and light lubrication into one
- Contains mineral oil and wax oxidation, ensuring excellent protection for ferrous and non-ferrous metals in wet, rainy, and corrosive environments
- Used for loosening corroded parts, nuts, and bolts that are tightly stuck
- Lubrication during routine maintenance of machinery, switches, and contacts, rinsing away old oil and grease residues
- Corrosion protection for components, post-processed surfaces, and equipment during storage or transportation
- Provides rust protection and assists assembly for finished products on the production line, ensuring products remain in good factory condition during storage
- Protects electronic contacts, preventing rust
- Can displace water from damp components, switches, motors, and ignition systems without conducting electricity
- Protects components, machinery, and equipment from corrosion during storage and after water washing
- Up to 100 hours of continuous corrosion (salt spray) testing
- Certified for mechanical processing, electronics, assembly, production, maintenance, and surface treatment
- Made in UK



Order Code	Packing	Volume
AWCH25		
-00056A	Aerosol	300ml
-30284C	Pail	20L

Super Slaks - Graphite Penetrating Fluid

- A highly penetrating graphite emulsion spray that rapidly penetrates into stubborn bolts, components, and equipment, facilitating their easy release
- Formulated with graphite emulsion for long-lasting lubrication, preventing parts from sticking again
- The combination of low-viscosity base oil and graphite emulsion provides deep and efficient lubrication for threads
- An effective solvent that uses capillary action for deep penetration while flushing away old oil and grease residues
- Suitable for all areas such as daily maintenance and repair of parts, machinery, vehicles, workshops, and heavy equipment
- Suitable for agricultural and industrial equipment such as adhered or rusted nuts, bolts, screws, connecting rods, racks, tapered shafts, hinges, and bearings
- Film remains effective up to 150°C
- Accreditations & Registrations
Rail Cat No: 027/024757
- Made in UK



Order Code	Packing	Volume
AWCH30		
-00060A	Aerosol	400ml

Aircraft Cleaner

- Designed to remove residues of oil, grease, grim and carbon from the exterior surfaces of aircraft
- Non corrosive to most metals making this formula an exceptional degreaser in production and maintenance areas
- Concentrated
- Suitable for aircraft operators and manufacturers within the aerospace industry
- Highly economical in use
- Cleaning exteriors of aircraft and helicopters
- Suitable also for cleaning aircraft interiors
- General grease and oil removal from aircraft components in maintenance , overhaul and repair operations
- Accreditations & Registrations
Airbus UK
AMS 1526C
Boeing D6-17487
Douglas CSD#1
Helicopter Services Norway
- Made in UK



Order Code	Packing	Volume
AWCH24		
-30034C	Pail	20L

Wire Rope & Gear Lubricant

- Contains oxidation wax, mineral oil, molybdenum disulfide, and graphite, offering excellent performance
- Contains graphite emulsion, oxidation wax, and mineral oil
- Heavy-duty lubrication and protection spray for steel cables, steel chains, and gears; effective for lubricating even in high-load environments
- Penetrates deep into the core of steel wire ropes, lubricating and protecting them, guarding against the corrosive effects of moisture and salt on chains and gears
- Forms a soft protective film after drying, protecting ropes, preventing the ingress of abrasive dirt and gravel, reducing wear, and extending lifespan
- Once the solvent film dries, there's no splattering on high-speed equipment, reducing the frequency of reapplication
- Effective even at temperatures up to 120°C
- Ideal lubricant and protector for steel cables, elevator cables, towing ropes, and chains
- Best lubricant for routine maintenance of large and small gears, hinges, connecting rods, and slides on earthmoving equipment, vehicles, forklifts, factories, and equipment
- Offers good weather resistance, corrosion resistance, and salt spray resistance, making it an ideal lubricant protector for equipment and parts during long-term storage or exposure
- Made in UK



Order Code	Packing	Volume
AWCH37		
-00067A	Aerosol	400ml

Water Based Anti Spatter

- Solvent-free flux, effectively prevents welding spatter, enhances the smoothness of workpiece surfaces, and improves welding results
- Prevents long-term or heavy welding spatter and slag adhesion
- Water-soluble formula, cost-effective, easy to rinse, contains rust inhibitors, provides long-lasting effectiveness, especially suitable for heavy welding
- The blue solution is easy to identify and ensures complete product coverage
- Silicone-free, has no impact on subsequent painting or coating
- Suitable for operations in machining, assembly, manufacturing, and repair
- Applicable in all situations where high-quality welding results are required or where welding results need to be inspected
- Made in UK



Order Code	Packing	Volume
AWCH50		
-10830C	Trigger	400ml
-30830C	Pail	20L

Bright Galva Aerosol

- Highly concentrated dual-action spray for galvanized and aluminum plating, can be used as a repair agent for any damaged, scratched, worn, or reduced galvanized coating
- The brightening type coating can perfectly bond with the original galvanized surface, achieving "invisible" repairs
- After spraying, it forms a durable and corrosion-resistant plating, a zinc protective layer that can be painted directly after drying. It can also be sprayed on metal cutting and welding cut surfaces to prevent rust
- Suitable for any metal product, especially exposed steel parts
- Provides galvanized protection for galvanized sections that need to be welded together or exposed steel edges during cutting, drilling, and machining processes
- Can also serve as a primer for long-term rust protection of black metals
- Film remains effective up to 160°C
- Made in UK



Order Code	Packing	Contain
AWCH55		
-00071A	Aerosol	400ml

Zinc Galva

- Highly concentrated galvanizing spray that prevents rust on metal surfaces. The sprayed zinc layer is smooth and even. It can be used as a repair agent for areas where hot-dip galvanizing is missed or damaged. It can also be sprayed on welds to prevent rust
- Dries quickly and forms a durable and wear-resistant protective layer
- High zinc content
- Suitable for any metal product, especially exposed steel parts
- Provides galvanized protection for exposed steel edges after welding, cutting, drilling, or machining operations
- This versatile coating can also serve as a primer or second primer, providing corrosion protection for any long-term exposed black metal surface
- Made in UK



Order Code	Packing	Volume
AWCH55		
-00086A	Aerosol	400ml

Breakfree TF - Tapping Fluids

- This is a highly efficient lubricant specially developed for extreme-pressure lubrication. It is free from chlorides and graphite.
- Designed for professional drilling, tapping, and cutting lubrication.
- Effectively eliminates welding and reduces heat buildup, prolonging the lifespan of tools, bearings, camshafts, and other machining components under heavy-duty conditions.
- Efficiently penetrates and covers even tiny parts and mechanical guide surfaces.
- Significantly reduces tool wear and tear.
- Suitable for all engineering, construction, and manufacturing industries, as well as for equipment and electrical maintenance.
- Applicable to ferrous metals, non-ferrous metals, and alloys. Provides effective lubrication for precision machining processes on materials like stainless steel, nickel-chromium-titanium alloys, and titanium steel, which are among the hardest and most sensitive materials, even when machining fluid is lacking.
- Widely used in operations such as drilling, chamfering, cutting, turning, pressing, grinding, knurling, gear hobbing, forging, and threading.
- Can also be used for lubricating machine tool centers, fixed supports, thrust bearings, cams, and mechanical guide surfaces.
- Made in UK.



Order Code	Packing	Volume
AWCH36		
-00445A	Aerosol	400ml

Metaklenz - Food Grade

- The low-foam formula is perfect for internal and circulation system cleaning.
- It offers efficient and strong alkaline cleaning and degreasing capabilities, suitable for removing heavy grease, carbon deposits, fats, and food residues.
- After cleaning and rinsing, it inhibits rust on ferrous metals.
- It is suitable for cleaning in food production, processing, and catering industries. It's effective for removing heavy contamination of fats, oil stains, and carbon deposits on equipment that is sensitive to corrosive cleaning agents, such as manufacturing, processing, handling, or conveying equipment, eg, aluminum baking trays.
- It is also suitable for engineering and maintenance purposes, removing coatings, carbon deposits, or hardened grease and oil stains from parts and components that are sensitive to corrosive cleaning agents.
- Approved by the British rail operator for use as a cleaner for bogies and chassis.
- Can be used in parts immersion tanks or spray cleaning equipment.
- Accreditations & Registrations
Rail Cat No: 007/007279 (20lt)
- Made in UK.



Order Code	Packing	Volume
AWCH08		
-30960C	Pail	20L

Superclean - Food Grade

- Contains a dispersing agent for grease, allowing for quick penetration and removal of oil and grease stains, and it is odorless.
- It's a heavy-duty cleaner suitable for most wipeable surfaces, floors, walls, tiles, and vinyl materials.
- The non-corrosive formula makes it an excellent choice for cleaning soft metals and galvanized surfaces, minimizing damage to sensitive metals like aluminum and galvanized surfaces.
- Ideal for multi-purpose degreasing in machinery, workshops, and equipment.
- Fragrance-free and non-irritating formula, safe for use in food processing areas.
- An ideal cleaner for workshops and equipment before maintenance and repairs.
- Suitable for cleaning hard surfaces in commercial, public, and leisure facilities, including floors and bathrooms.
- Contains mild solvents that help penetrate and remove stubborn stains, such as rubber scuff marks and residue left by slip hazards.
- An excellent choice for cleaning floors in warehouses and production workshops.
- Made in UK.



Order Code	Packing	Volume
AWCH07		
-30315C	Pail	20L
-50315C	Drum	210L

Sodaklenz - Food Grade

- Super-concentrated high-alkaline formula, fragrance-free, and silicone-free.
- Extremely effective, especially under high-temperature conditions of 80-90°C, with minimal foam production.
- Enhanced cleaning effectiveness due to the presence of surfactants and sodium hydroxide, making it suitable for heavy-duty cleaning.
- Quickly removes oil, grease stains, and burnt food residues.
- Suitable for food production, processing, and catering: It can remove heavy grease, heavy oil, and burnt residues on black metal and equipment. It can be used for manual cleaning, immersion tank cleaning, spray equipment, and on-site cleaning devices.
- Suitable for the engineering and maintenance industries: Removes coatings, carbon deposits, or hardened grease and oil stains from black metal parts or components.
- Low-foam formula suitable for parts immersion tanks, ultrasonic cleaning equipment, and spray cleaning equipment.
- Accreditations & Registrations
Rail Cat No: 007/007904 (20lt)
Rail Cat No: 007/007905 (210lt)
- Made in UK.



Order Code	Packing	Volume
AWCH20		
-30961C	Pail	20L

Universal Powerwash - Food Grade

- This product is a concentrated formula that contains sodium hydroxide, is fragrance-free, and is known for its quick action in breaking down stubborn stains. It is an economical and practical choice for various cleaning needs.
- Removes oil, grease stains, coal dust, and traffic-related pollutants
- Breaks down food residues, fats, proteins, and carbon deposits
- Contains water softeners and dirt suspenders, ensuring effectiveness even in hard water conditions
- Suitable for degreasing and cleaning commercial vehicle undercarriages, factories, and equipment
- Applicable across various sectors of the food production and processing industry, including food processing, butcheries, cafeterias, storage, and transportation
- Suitable for manual cleaning and high-pressure cleaning equipment
- Accreditations & Registrations NSF (A8) 157587
Rail Cat No. 007/025221 (5lt)
Rail Cat No. 007/025222 (20lt)
- Made in UK



Order Code	Packing	Volume
AWCH09		
-30375C	Pail	20L

QED - Quick Dry Electrical Degreaser

- 360° Spray Valve: Allows for versatile spraying at any angle, making it especially useful for cleaning hard-to-reach areas that require inversion to access
- High-Purity Solvent: Suitable for most materials and composite materials, and it does not contain aromatic hydrocarbons
- High Volatility, Low Odor: It is highly volatile and has a low odor
- Residue-Free Drying: Leaves no residue after drying, making it an ideal degreasing cleaner for paint preparation and welding
- Cleaning for Electrical Components: Suitable for cleaning electrical contacts and electronic components inside engines, helical coils, and switchgear
- Carbon, Oil, and Particle Removal: Effective in removing carbon buildup, oil residues, and particles from brakes, clutches, motors, and other electronic devices
- Pre-Cleaning for Electrical and Electronic Parts: Used as a degreasing cleaner before the use of electrical and electronic components, including motors, solenoids, and switches
- Degreasing at Contact Points: Ideal for degreasing and cleaning contact points
- Surface Cleaning Before Part Painting or Bonding: Suitable for cleaning surfaces before part painting or bonding
- Removal of Temporary Protective Coatings: Removes temporary protective coatings applied before part assembly
- Made in UK



Order Code	Packing	Volume
AWCH02		
-00048A	Aerosol	300ml

GL Label Remover

- This GL Remover has been specially formulated for a convenient, safe and efficient removal of label and sticker residues from a wide variety of surfaces. It also allows for quick and easy removal of the residue that can be left over from adhesive tapes
- Natural citrus solvent based cleaner & degreaser
- Removes glue and label residues from metal and most plastic surfaces
- Ideally suited for all manufacturing, maintenance and workshop needs
- Versatile – one product for a multitude of applications. Will remove daily build-up of grease, inks and dirt residues
- CO2 propelled aerosol
- NSF K3 approval for use within the food and allied industries
- Accreditations & Registrations NSF K3 – Registration 148371
- Made in UK



Order Code	Packing	Volume
AWCH21		
-00011A	Aerosol	300ml

Adhesive Spray

- This Adhesive Spray is a convenient and versatile adhesive, designed to provide effective bonding between surfaces. It is a flexible, medium strength adhesive, which is suitable for bonding porous surfaces, wood, fabric and metal
- Synthetic rubber base provides an elastic bond and is ideal for use on porous and flexible surfaces
- Rapid tack formula provides speedy bonding
- Convenient no mess aerosol application
- Variable spray nozzle for greater control
- Provides even distribution of adhesive over large areas
- Adhesive Spray can be used to bond paper, cardboard, cork, wood, metal, plastic and fabric substrates
- Medium duty bond strength is ideal for adhesion of labels, carpet floor tiles and fabric trim
- Ideal for production, DIY tasks, craft and office application
- Made in UK



Order Code	Packing	Volume
AWCH21		
-00036A	Aerosol	400ml

Stainless Steel Cleaner

- Removes finger marks, water marks and scuffs from stainless steel doors and cabinets
- Ready to use
- Use on stainless steel, chrome plate, brass and anodised surfaces
- Non perfumed
- Cleans and brightens in one application
- Ideal for improving the cosmetic appearance of cabinets etc
- Leaves a protective film that resists finger marks, water marks and staining
- Made in UK



Order Code	Packing	Volume
AWCH21		
-00072A	Aerosol	400ml

Textra - Hand Cleaning Cream

- Textra is a non-solvent, hand cleansing cream with a pleasant citrus aroma. The formulation combines with the mild abrasive action of the natural beads to effectively and gently remove grease, oil and heavy grime from the hands
- Suitable for use in a wide range of industrial environments, such as engineering, workshops, garages, factories, printing, maintenance and horticultural industry
- Textra is free of paraffinic solvents
- Kind to the hands
- Contains skin conditioners and moisturisers to keep hands supple even when used frequently
- Reformulated to contain only biodegradable, natural microbeads that help to gently lift dirt and grime
- Heavy duty hand cleaner
- Fresh lime fragrance
- Accreditations & Registrations
Institute of Naval Medicine – Listed in BR1326
MOD NATO Stock No:
8520-99-160-4026
- Made in UK



Order Code	Packing	Volume
AWCH21		
-20230C	Jerry Can	5L

ECAD - Onshore/Offshore Degreaser

- ECAD is a versatile multi-surface environmental cleaner and degreaser developed to meet the stringent environmental requirements for offshore topside applications
- ECAD also has wide ranging applications as a degreaser and cleaner in onshore and offshore production and maintenance applications such as equipment cleaning – machines, plant and drilling equipment; superstructure cleaning – helipads, decks, stairs and walkways; marine vessel cleaning - oil laden surfaces above and below deck as well as offshore accommodation cleaning etc.
- Minimal environmental impact on the aquatic environment
Ideal for use in pressure washers due to low odour and water soluble formula
- Highly concentrated with excellent dilution rates, reducing cost in use
- Can be used on sensitive materials such as aluminum and zinc plate due to non-caustic formula
- Rapid removal of heavy oils, greases, salt, bird droppings and grime
- Made in UK



Order Code	Packing	Volume
AWCH10		
-30076C	Pail	20L

Ecowash Autoshine - Exterior Train Wash

- Ecowash Autoshine is a specially formulated blend of detergents, water softeners and shine additives for degreasing and enhancing new and worn rolling stock leaving a streak-free finish
- Suitable for use in reclaim wash units
- Suitable for cleaning locomotives, freight wagons, tankers, trams and underground trains
- May be used for manual cleaning or via automatic wash plants
- PH neutral formulation
- Helps to build a water and soil resistant finish
- Not aggressive to sensitive galvanized or aluminum surfaces
- Not detrimental to painted surfaces in accordance with BS3900 G5
- Highly concentrated and economical in use
- Made in UK



Order Code	Packing	Volume
AWCH22		
-30568C	Pail	20L

Britox Plus - Rust Remover

- Highly concentrated acidic product for rapidly removing the toughest deposits
- Suitable for use in the building trade, plant hire, tool hire and further maintenance environments
- Suitable for construction and plant hire. Removal of concrete, mortar and plaster from mobile and static equipment, scaffolding, scaffolding clips and brickwork
- Mechanical maintenance removal of rust from equipment and components
- Building maintenance cleaning brickwork, concrete surfaces and tiles
- Leisure center removes residues of scale and body fat from around the water line of swimming pools
- Excellent trade brick acid and routine cleaning of concrete mixers, also removes algae, scum and general soiling from swimming pools
- Concentrated performance
- High concentration and special wetting agents help reduce clean up time and labor with minimal usage
- Heavy duty performance
- Made in UK



Order Code	Packing	Volume
AWCH23		
-20027C	Jerry Can	5L

Silslide - Mould Release Spray

- Silslide aerosol is clear colorless and odourless silicone based lubricant, polish and mould release. Silslide provides mess free lubrication and protection of treated surfaces. Silslide has NSF H1 status and is therefore ideally suited for use on machinery in food preparation areas where incidental food contact is possible
- Colourless low odour product is ideally suited for application in food processing areas
- Suitable for use in mechanical, electrical, assembly, fabrication and repair applications
- Suitable for the routine maintenance, repair and assembly of components, machinery and other equipment
- Suitable for lubricating equipment in food preparation areas
- Aids release of components from moulds, enhances finish of articles and eases cleaning of the mould
- Excellent polish and surface dressing for plastic, rubber and painted surfaces, enhances shine and helps restore original colour
- Provides excellent lubrication and slip resistance to mating surfaces
- Tested and Certified by NSF International
- Also an exceptionally effective mould release and surface polish
- Provides light to medium duty lubrication
- Film remains effective up to 250°C
- Restores dull, worn plastics and vinyl
- Made in UK



Order Code	Packing	Volume
AWCH31		
-00087A	Aerosol	400ml

Spray Grease

- Spray Grease aerosol provides a specially formulated blend of lubricants that displace and repel water, resist heat and salt attack and provide long-lasting lubrication and protection against the elements, packaged in a convenient aerosol spray can
- Ideal for routine maintenance, repair and assembly of components, machinery, plant and equipment
- Suitable for the lubrication of locks, hinges, splines, linkages and other moving parts
- Provides long-lasting lubrication and protection against wear and corrosion
- Low residual odour
- Provides medium to heavy lubrication of components, hinges, linkages and bearings
- Disperses water, resists salt attack and wash off
- Residual lubricant remains effective at up to 250°C
- Made in UK



Order Code	Packing	Volume
AWCH32		
-00310A	Aerosol	400ml

Handy Foam - Hard Surface Cleaner

- Powerful formulation to remove grease, dirt and stains from vertical and overhead surfaces
- Ideal for routine daily cleaning in commercial, leisure and institutional establishments
- Handy foam aerosol will clean most hard surfaces including metals, plastics, rubber, glass, and painted surfaces
- Highly effective cleaner and degreaser for use prior to maintenance or inspection of machinery and equipment
- Ready to use foaming aerosol
- Non caustic formula, ideal for use on soft metals and galvanized surfaces
- Safe to use on most plastics, metals, painted and fabric surfaces
- Anti static formulation
- Citrus fragrance
- Made in UK



Order Code	Packing	Volume
AWCH33		
-00104A	Aerosol	400ml

Supersolve CC Contact Cleaner

- Supersolve CC is a fast evaporating contact cleaner, designed to rapidly remove and flush away oil, grease, carbon deposits and flux from electrical and mechanical components. Exceptional degreasing action and fast drying ensures that downtime during service and repair is kept to a minimum. Compatible with electric and electronic components and insulators
- No residue
- Will not damage sensitive equipment
- Fast evaporation
- Low odour
- Accreditation & Registrations
Rail Cat No: 007/007228
- Made in UK



Order Code	Packing	Volume
AWCH34		
-00146A	Aerosol	300ml

9-in-1 Technology Oil

Product Description:

- This technology oil is a product with a special formulation that can perform a wide range of technical functions: lubricating, corrosion inhibiting, penetrating and cleaning. Extremely versatile, it is a handy solution to numerous dead-locked situations, making it a "must-have" in every toolbox

Product Features:

- Silences squeaks
- Releases instantly
- Cleans and protects
- Prevents rust
- High penetration power
- Displaces moisture

Areas of Applications:

- Lubricates & Silences Squeaks**
Excellent penetrating action allows product to quickly lubricate gears, hinges, locks, zippers, tools and chains. Effectively eliminates squeaks and leaves no sticky residue
- Removes & Prevents Rust**
Breaks down rust to release seized or rusted metal parts, such as bolts, nuts, cables, valves and fasteners
- Releases Stuck Mechanisms**
Super penetrating action works quickly to free stuck or seized parts, such as jammed wheel nuts, gears and other mechanisms, thereby allowing equipment to run smoothly
- Cleans & Protects**
Breaks down hardened grease, tar, dirt and carbon stains to clean surfaces and form a corrosion-resistant barrier to help prevent rust and extends the operating life of equipment
- Displaces Moisture**
Effectively drives out moisture on wet equipment such as electrical contacts, spark plugs on motorcycle engines and power tools



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH01			
-01208A	Spray Can	450g	24 Cans / Carton

Air-Conditioner Cleaner (Self-Rinsing)

Product Description:

- This air-conditioner Cleaner contains an unique and tested formula that clears dust and eliminates harmful micro-organisms trapped in air-conditioners, without the need for rinsing with water after product application

Product Features:

- Improves indoor air quality
- Improves performance of air-conditioner units
- Eliminates up to 99.9999% harmful germs under 1 minute
- Simple application with no rinsing required
- Contains no harsh chemicals
- Safe on air-con fins and coils

Effective Against:

- Staphylococcus aureus (Staph)
- Pseudomonas aeruginosa
- Escherichia coli (E.Coli)
- Salmonella
- Candida albicans
- Legionella pneumophila



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH02			
-01926A	Spray Can	374g	24 Cans / Carton

Magic Rust Converter

Product Description:

- This magic rust converter is a supreme product that converts rust (new and old) into a protective black polymeric coating that adheres firmly to metal surfaces, preventing further corrosion. It can be used on any metal surface that has become rusty
- In most cases, end users remove the rust from the metal surface by sand-blasting/grinding. Despite the tediousness of the procedure, rust resurfaces within a short period of time as the surface is still exposed to elements of environment, mainly moisture and oxygen
- It offers an effective yet simpler procedure by converting the existing rust into an inert coating that seals up the metal surface from moisture and oxygen. After the conversion, there exists a strong molecular bondage between the converted layer and metal surface, making it very difficult to be removed. As a result, the rust stops spreading and the duration of protection is much extended. It makes a wonderful 'touch-up' tool where re-painting may not be required. However, for aesthetic purposes, surface can be painted over

Product Features:

- Converts rust to a tough black coating
- Stops rust from spreading
- Provides better wear and tear protection
- Provides long term Indoor or outdoor protection
- Saves time and labour
- Easy application
- Ready to use
- Non-flammable



Areas of Applications:

- It can be used on any metal surface being corroded. It is widely used in maintenance workshops, oil rigs, military vehicles, onboard vessels, shipyards, metal tanks and piping in refineries etc.

Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH17			
-08019A	Plastic Bottle	170ml	24 Bottles / Carton

Choke Clear

Product Description:

- This choke clear is formulated to clear blockage problem that causes slow & inefficient drainage in most water drain pipes
- This product effectively breaks up any buildup of rust, algae, scale & slime found inside drainage pipes. Its hassle-free application requires minimum dismantling & gives users the convenience of pouring the product into target areas without the need to scrub! As a preventive measure, this product may also be used to maintain drains and toilets to prevent chokes

Product Features:

- Clears choke without much agitation
- Increases cleaning efficiency
- Regulates flows in pipes
- Prevents unnecessary downtimes
- Powerful & effective
- Safe on most metals and plastics
- Low fuming
- Low toxicity

Application for Use:

- This choke clear is widely used in shopping centers, restaurants, homes, hospitals, schools, buildings, clubs etc.



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH03			
-01927A	Plastic Bottle	250ml	24 Bottles / Carton

Auto Brake & Parts Cleaner

Product Description:

- This auto brake & parts cleaner is a fast-drying solvent cleaner for removing oil, grease, dirt, dust and other contaminants from drum brakes, clutches and brake discs

Product Features:

- Removes oil, dirt and brake dust
- Reduces brake squeal
- Leaves no residue
- Improves braking performance
- Safe on most metal surfaces

Areas of applications:

- This product is widely used in automotive workshops, vehicle maintenance depots, marine fleet vehicles and any area where degreasing and cleaning of metal components is required



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH04			
-03328A	Spray Can	454g	24 Cans / Carton

5-in-1 Surface Cleaner

Product Description:

- This surface cleaner is a premium grade product for a wide range of surfaces, leaving it smooth and grime free. It has superior cleaning power and leaves a protective film that prevents fingerprints, stains and oxidization from taking place. By reducing surface contaminants, it smoothens uneven surfaces at micro-level, enhances clarity and maintains the sensitivity of 'touch screen' devices
- Besides glass surfaces, this is also an excellent protector for surface types like leather, mirror, rubber, stainless steel, wood, chrome and PVC parts

Product Features:

- Cleans, shines & protects
- Prevents dust build-up
- Removes fingerprint smudging
- Improves clarity and sensitivity
- Leaves a smooth touch
- Safe on most surfaces
- Smudge resistant

Areas of application:

- Cleans, Shines & Protects
Removes dirt, dust and other contaminants from most smooth/glossy surfaces, leaving protective film to prevent dust build up
- Leaves a Smooth Touch
Reduces surface contaminants and smoothens uneven surfaces at micro-level, preventing dirt/dust particles to build-up
- Prevents Fingerprint Smudging
Cleans off annoying fingerprints from aesthetic surfaces, leaving a smudge-resistant film. Ideal for glass doors, windows, 'touch-screen' monitors, stainless steel appliances and many more
- Improves Clarity and Sensitivity
Enhances clarity by cleaning the glass to keep off smudges and streaks. Helps to maintain the sensitivity of 'touch screen' devices by preventing the build up of oil from fingertips on the screen



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH05			
-08613A	Spray Can	300ml	24 Cans / Carton

Mould & Metal Cleaner

Product Description:

- This mould & metal cleaner is a non-flammable, low toxic safety solvent cleaner that effectively cleans and removes oil, stain residues from mould and metal surfaces

Product Features:

- Removes oil and grease stains
- Fast & effective
- Non-conductive
- Non-flammable
- Safe to use on most metal surfaces



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH06			
-08210A	Spray Can	447g	24 Cans / Carton

Contact Cleaner & Lubriant

Product Description:

- This contact cleaner & lubricant is a precision cleaning solvent-cum-lubricant. It effectively removes unwanted contaminants and stubborn stains such as dirt, grime, light rust and carbon deposits from electrical and electronic contact points. At the same time, it lubricates and protects against material abrasion while leaving a thin film to prevent further oxidation, corrosion and carbon build-up

Product Features:

- Cleans electronic parts
- Restores electrical conductivity
- Lubricates mechanism
- Protects electrical contacts
- Inhibits corrosion and oxidation

Areas of Applications:

- Cleans Electronic Parts
Penetrates and breaks down thick dirt, grime, carbon deposits and other contaminants commonly found in electric motors, engines, drilling tools and other heavy duty electrical tools
- Restores Electrical Conductivity
Removes stubborn stains caused by oxidation, light rust, hardened grease, thereby improving reliability of contact points of power/data connectors, battery connectors and other terminal points
- Lubricates Mechanisms
Cleans and lubricates moving mechanisms made of plastic, rubber and most sensitive components. Examples are: roller drums in copier machines, conveyor belts in processing lines and ticket-dispensing machines
- Displaces Moisture & Protects
Drives out moisture and leaves a thin protective film, preventing oxidation and corrosion within sockets. Suitable for electrical and electronic equipment exposed to adverse weather conditions



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH07			
-01325A	Spray Can	450g	24 Cans / Carton

Adhesive Remover for Sensitive Surfaces

Product Description:

- This adhesive remover for sensitive surfaces is formulated to remove adhesive residue and for surface cleaning prior to use of adhesive tapes, heavy oils, grease, silicone, tar and paraffinic materials
- It penetrates and removes unsightly stains, without damaging sensitive surfaces such as plastic, painted surfaces, varnished wood, vinyl, rubber and tinted glass surfaces

Product Features:

- Safe on all surfaces
- Excellent spot eraser
- Leaves no residue
- Non-corrosive / non-oily
- Comes with a pleasant citrus scent
- Safe on metal, plastic, rubber, wood and painted surfaces



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH08			
-08213A	Spray Can	322g	24 Cans / Carton

Safety Electrical Cleaner & Degreaser

Product Description:

- This safety electrical cleaner & degreaser is a non-flammable, low-toxic safety solvent cleaner that effectively cleans and removes oil, grease and stain residues from electrical components, generators, moto-power tools and most metal surfaces
- Being non-flammable, it has a high dielectric strength of 50.7kV, making it safe for use in power stations, oil & gas refineries, marine offshore platforms and any industry where fire safety is of high importance

Product Features:

- Cleans electrical / electronic parts
- Removes oil & grease stains
- High dielectric strength
- Cuts down costly hours of downtime
- Non-flammable
- Safe on most metal surfaces



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH09			
-01336A	Spray Can	447g	24 Cans / Carton

Citrus Degreaser

Product Description:

- This citrus degreaser is a non-caustic, high-performance all-purpose degreaser that is especially suitable for applications where contact with sensitive surfaces and equipment is involved. Its gentle yet effective formula makes it safe for use in removing oily stains in delicate applications such as ultrasonic cleaners and fine metalwork

Product Features:

- Powerful & effective multipurpose degreaser
- Water-based & biodegradable
- Removes oil, grease and stain
- Contains no harsh chemicals
- Non-caustic
- Non-fuming
- Non-flammable
- Safe on most sensitive surfaces



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH10			
-08215B	Pail	25L	1

Pump Cleaner

Product Description:

- This pump clean is a premium cleaning solvent used to clean electronic equipment, generators and motor-powered tools. It contains no harsh chemicals and can be used on most materials, including rubber, plastic and painted surfaces

Product Features:

- Cleans electronic parts
- Leaves no residue
- Improves electrical conductivity
- No chlorinated solvents
- Safe on sensitive surfaces

Application for Use:

- This product is widely used in industrial machineries, aviation industry, offshore and marine industries, construction industry, hotels, etc.



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH11			
-01339A	Spray Can	290g	24 Cans / Carton

Cream Polisher

Product Description:

- This cream polisher is a uniquely formulated product which effectively cleans and polishes different surface types such as stainless steel, metal, aluminum, and tiles
- This product is non-fuming and non-corrosive, hence it is safe to use on most sensitive surfaces and will not cause discoloration of exterior walls

Product Features:

- Cleans and polishes
- Shines dull surfaces instantly
- Easy to apply
- Safe on most surfaces
- Non-fuming
- Removes stubborn stains
- Clings onto vertical surfaces
- No hard scrubbing required
- Non-corrosive

Areas of Applications:

- Cleans and Polishes in One Step
Penetrates and lifts up dirt, grime, scum and other contaminants commonly found on surfaces exposed to wet, weathered conditions, bringing back shine to the dull surfaces
- Removes Stubborn Stains
Removes carbon deposits, grease from oven grills, stoves, pots and pans with no hard scrubbing and minimal rinsing required. Contains pumice that helps to lift up contaminants from porous surfaces, such as ceramic tiles
- Shines Dull Surfaces Instantly
Effectively lifts up rust, scale or oxidation from stainless steel, aluminum and most metal surfaces. Suitable for use in bathrooms, kitchens and outdoor structures, including aluminum cladding on high-rise buildings
- Clings Onto Vertical Surfaces
Adheres well to vertical/curved surfaces for efficient cleaning. Suitable for removing water marks and other contaminants from glass panels, mirror, lift panels and many more



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH12			
-08618A	Plastic Bottle	500ml	24 Bottles / Carton

Stainless Steel Cleaner & Polisher

Product Description:

- This stainless steel cleaner & polisher is a high performance product specially formulated to protect against surface corrosion and deterioration, smudging and staining

Product Features:

- Protects against smudging & staining
- Breaks down stains or grease deposits
- Contains corrosion inhibitors
- Contains no abrasives
- Contains no harmful ingredients
- Safe on most metal surfaces



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH13			
-08207A	Spray Can	339g	24 Cans / Carton

Silicone Spray

Product Description:

- This silicon spray is a multi-functional protective spray for both metal and non-metal surfaces, including rubber and plastic. Its quick-dry formula effectively lubricates, waterproofs and protects moving components without leaving sticky residue
- It gently cleans and maintains materials like vinyl and rubber by leaving a protective film to prevent dust build-up and giving an instant shine at the same time. Ideal for use in applications with moving linkages, rail guides, pulleys, conveyor belts, cutting tools & more
- Its premium variant provides better lubrication and longer protection while the other offers quick lubrication and light protection for applications where aesthetics is required



Product Features:

- Lubricates and protects
- Leaves no sticky residue
- Assists quick mould release
- Prevents corrosion
- Safe on all metal surface

Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH14			
-01809A	Spray Can	412g	24 Cans / Carton

Anti-Seize Compound

Product Description:

- This anti-seize compound is premium-grade heavy-duty lubricating spray that effectively reduces friction and prevents seizure, as well as corrosion between metal surfaces that are in contact
- It contains a unique combination of solid lubricating agents providing excellent lubricity and protection in extreme temperature conditions
- Applying on threaded joints eases assembly and prevents galling or seizure during disassembly

Product Features:

- Prevents galling, seizing and fretting
- Withstand high temperatures up to 900°C
- Seals out moisture
- Reduces friction
- Reduces thread breakage
- Saves time and labor cost
- Easy application

Application for Use:

- This anti-seize compound is highly resistant to water and corrosive chemicals, making it an ideal choice as a lubricant for applications exposed to high-humidity and high-temperature conditions
- Common areas of applications include bolts & nuts, bushings, couplings, fittings, flanges, hinges, pivots, threaded surfaces, drive chains, cylinder heads, well pumps and so on



Order Code	Packaging	Capacity	Minimum Order Quantity
MKCH16			
-01202A	Spray Can	445g	24 Cans / Carton

RUST-OLEUM

HIGH PERFORMANCE V2100 System Enamel Spray Paint

Product Overview

- ABOUT V2100 SYSTEM ENAMEL SPRAY PAINT
- Rust-Oleum High Performance V2100 System Rust Preventive Enamel Spray Paint is ideal for industrial painting projects. It can be used on metal, steel, masonry and wood. and durability.
- The advanced formula provides the best-possible corrosion protection with easy, one-coat coverage and long-lasting color, gloss
- Tough, professional finish that resists chipping, cracking and peeling
- High-output tip covers 50% faster
- Dries to the touch in 20 minutes
- Comes with a 2-year rust-proof guarantee
- Withstands heat to 200°F
- Works as a touch-up paint -- most V2100 enamel spray paint colors match the 7400 or V7400 System
- Meets USDA requirements for incidental food contact; accepted for use in federally registered Canadian food facilities; VOC-compliant nationwide



* High quality rust prevention

* Excellent gloss and color retention

SKU	Colour	Finish	Packing / 6 cans
V2179838	Black	GLOSS	15 OZ. SPRAY
V2134838	Bright Green	GLOSS	15 OZ. SPRAY
V2148386	Bright Red	GLOSS	15 OZ. SPRAY
V2185838	Cold Galvanizing	FLAT	15 OZ. SPRAY
V2102838	Crystal Clear	GLOSS	15 OZ. SPRAY
V2137838	Dark Green	GLOSS	15 OZ. SPRAY
V2125838	Deep Blue	GLOSS	15 OZ. SPRAY
V2178838	Flat Black	FLAT	15 OZ. SPRAY
V2190838	Flat White	FLAT	15 OZ. SPRAY
2238383	Fluorescent Green	GLOSS	15 OZ. SPRAY
2258385	Fluorescent Orange	GLOSS	15 OZ. SPRAY
2264838	Fluorescent Red	GLOSS	15 OZ. SPRAY
2242838	Fluorescent Yellow	GLOSS	15 OZ. SPRAY
V2192838	Gloss White	GLOSS	15 OZ. SPRAY
V2116838	High Heat Aluminum	GLOSS	15 OZ. SPRAY
V2176838	High Heat Black	FLAT	15 OZ. SPRAY
V2138838	Hunter Green	GLOSS	15 OZ. SPRAY
V2123838	Light Blue	GLOSS	15 OZ. SPRAY
209590	Metal Black	HAMMER	15 OZ. SPRAY
209563	Metal Gold	HAMMER	15 OZ. SPRAY
209562	Metal Silver	HAMMER	15 OZ. SPRAY
V2124838	Safety Blue	GLOSS	15 OZ. SPRAY
V2133838	Safety Green	GLOSS	15 OZ. SPRAY
V2155838	Safety Orange	GLOSS	15 OZ. SPRAY
V2167838	Safety Purple	GLOSS	15 OZ. SPRAY
V2163838	Safety Red	GLOSS	15 OZ. SPRAY
V2143838	Safety Yellow	GLOSS	15 OZ. SPRAY
V2177838	Semi-Gloss Black	SEMI	15 OZ. SPRAY
209567	Semi-Gloss White	SEMI	15 OZ. SPRAY
V2115838	Silver Aluminum	GLOSS	15 OZ. SPRAY
V2188838	Smoke Gray	GLOSS	15 OZ. SPRAY
V2119838	Stainless Steel	FLAT	15 OZ. SPRAY

HIGH PERFORMANCE V2100 System Enamel Spray Primer

Product Overview

- ABOUT V2100 SYSTEM ENAMEL SPRAY PRIMER
- The ultimate spray paint for industrial applications is Rust-Oleum High Performance V2100 System Rust Preventative Spray.
- This advanced formula provides the best-possible corrosion protection with easy, one-coat coverage and long-lasting color, gloss and durability.
- Tough, professional finish—superior resistance to chipping, cracking and peeling
- High-output tip covers 50% faster; dries in only 20 minutes to touch
- Withstands heat to 200°F
- Most colors match the 7400 or V7400 System for convenient touch-ups
- Meets USDA requirements for incidental food contact; accepted for use in federally registered Canadian food facilities; VOC-compliant nationwide



* Top with professional Enamel for maximum performance .

SKU	Colour	Finish	Packing / 6 cans
V2182838	Gray Primer	GLOSS	15 OZ. SPRAY
V2169838	Red Primer	GLOSS	15 OZ. SPRAY

ANTI SLIP

- Rust-Oleum® AntiSlip creates a non-skid surface on concrete, metal and wood. The fast drying formula dries clear and can be applied to ramps, stairs, railings and more.
- Slip resistant coating
- Great for steps, decks, porches, walkways, garage floors, ramps, tile floors and more
- Clear finish
- For indoor and outdoor use



FOR BEST RESULTS

- Fast drying formula dries crystal clear in as little as 30 minutes

SKU	Colour	Packing / 6 cans
271455	Clear	12 oz. Spray

Big Wheel Air Wrench Supporting Cart

- Made of thickened forged steel, sturdy and durable, it is a great helper for tire removal and installation.
- Adjustable height for easy use, and the wind cannon frame can rotate 360 degrees.
- Equipped with double thickened springs, providing sufficient elasticity, and the pulling rope is durable and not easily broken, ensuring high safety.
- Features oversized 360-degree nylon silent casters, highly wear-resistant, and convenient to use.



Order Code	External dimensions (mm)	Lifting weight (kg)	Lifting height (mm)	Large wheel diameter (mm)
TFAT10				
-70000P	360 x 700 x 1050(h)	25	200 - 900	300

Pneumatic Tyred Mesh Carts

- This pull along trolley cart includes an upgraded design of 4 pneumatic tyres compatible for all terrains and features a hard wearing internal liner and 4 folding drop down mesh sides for convenient and easy loading/unloading
- It is a perfect solution for transportation needs taking the strain to move tools, pots, soil bags and carting logs or waste around the garden
- Heavy-duty universal design, steel frame loads up to 180kg
- Effective manoeuvrability, front wheel steering with an adjustable handle
- Soft grip handle providing extra comfort when pulling the loads
- Robust and durable pneumatic tyres suitable for all terrains such as mud, grass, sand, tarmac and more
- Removable/folding sides providing ultimate versatility for transporting items



Order Code	Frame Dimensions (cm)	Load Capacity (kg)	Net Capacity (kg)
TFLG05			
-11124A	L120 x W60 x H48	180	20

PVC Traffic Cones

- Made of environmental friendly PVC, odorless, can withstand huge impact and bending without any deformation
- Well resists to all kinds of weathers, ensuring long-lasting outdoor using
- Orange bodies and white reflective bands are highly visible especially at night and during bad weathers like snowy days or rainy days
- High toughness, even a 180° twisting or a direct stamping will not make it damage but easily rebounds in place



Order Code	Type	Color	Height x Base (mm)	Weight (kg)
TFLG70				
-01045A	Standard	Orange	450 x 280	1.0
-01070A	Standard	Orange	700 x 330	1.8
-01090A	Standard	Orange	900 x 360	3.1
-01070B	with Hand-Held Ring	Orange	700 x 330	1.8

Accessories of Traffic Cones

Retractable Traffic Cone Bars



Order Code	Color	Length (mm)	Weight (kg)
TFLG70			
-01020P	Yellow / Black	1000 x 2000	1.0
-01120P	Red / White	1000 x 2000	1.0

Plastic Chains



Order Code	Color	Size	Weight (kg)
TFLG70			
-02025P	Orange	25M per Pack	2.8
-02125P	White	25M per Pack	2.8
-02225P	Yellow	25M per Pack	2.8
-02325P	Black	25M per Pack	2.8

Garbage Carts - Automated Garbage Truck Compatible

- Made of high-density HDPE, non-toxic
- Resistant to acid, alkali, moisture or corrosion, anti-impact and anti-drop. Applicable in a variety of special occasions
- High durability, thermostability and high thermal resistance
- Smooth body with a drain valve, easy to clean
- Rugged solid wheels with brakes for safe parking and easy movement
- One-piece molding sealing lid prevents odor spills
- Reinforced steel trailer handle is compatible with automated garbage collection trucks
- CE certified



660L

Order Code	Color	Capacity (Overall Size)
TFLG40		
-10660A	Black	660L
-10660C	Red	(L1380mm,
-10660D	Olive Green	W820mm,
-10660F	Blue	H1220mm
-10660G	Yellow	

1100L

Order Code	Color	Capacity (Overall Size)
TFLG40		
-11100A	Black	1100L
-11100C	Red	(L1430mm,
-11100D	Olive Green	W1030mm,
-11100F	Blue	H1330mm)
-11100G	Yellow	

Wheelie Outdoor Rubbish Bins

- These wheelie bins are ideal for residential garbage services, but they are equally at home, in the offices, factories, or warehouses
- Made of thickened high-density HDPE, can easily withstand loads weight up to 300kg
- Attractive appearances with uniform colors, easy to clean, resistant to UV, frost, heat and chemicals, making an ideal for outdoor/indoor use
- Reinforced handles, not easy to break. Dotted design offering an anti-slip grip and effortless manoeuvrability
- Both rib-reinforced bodies and lips, making the bins extremely rigid and without afraid of deformation
- Rugged solid wheels ensuring greater bearing capacity yet easier manoeuvrability
- Raised bin bottoms offering a better protection to the bins selves as well as easier manoeuvrability

Colors



Models



Print Patterns

** TEMO Pattern for reference

** Customized print patterns are available for an order of 10 units above per model, patterns please see below

** Minimum costs of printing plates may be additional



Order Code

100L Wheelie
(560 x 480 x 822mm)

Order Code	Colour
TFLG40	
-01100A	Black
-01100B	Green
-01100C	Red
-01100D	Olive Green
-01100E	Brown
-01100F	Blue

120L Wheelie
(570 x 480 x 947mm)

Order Code	Colour
TFLG40	
-01120A	Black
-01120B	Green
-01120C	Red
-01120D	Olive Green
-01120E	Brown
-01120F	Blue

240L Wheelie
(720 x 585 x 1088mm)

Order Code	Colour
TFLG40	
-01240A	Black
-01240B	Green
-01240C	Red
-01240D	Olive Green
-01240E	Brown
-01240F	Blue

240L Pedal Wheelie
(720 x 585 x 1088mm)

Order Code	Colour
TFLG40	
-02240A	Black
-02240B	Green
-02240C	Red
-02240D	Olive Green
-02240E	Brown
-02240F	Blue

240L Truck Wheelie
(720 x 585 x 1088mm)

Order Code	Colour
TFLG40	
-03240A	Black
-03240B	Green
-03240C	Red
-03240D	Olive Green
-03240E	Brown
-03240F	Blue

Split Leather Welding Gauntlets

- Industrial grade, built for high heat and intensity MIG welding and plasma cutting, high abrasion and tear resistance, durable use with multiple protections
- Crafted from heat and flame-resistant premium split cowhide
- High-strength DuPont stitching adding durability, fire resistance and comfort when you need it most
- Palm and thumb reinforcement patch for firmer grip, additional protection and better heat insulation
- 100% cotton lining for more comfortable wearing and better sweat absorption



Order Code	Size	Color	Packaging Quantity (MOQ)
TFPP01			
-01014A	14" / 36cm	Red	12 Pairs / Dozen
-01014B	14" / 36cm	Red	Single Pair
-01016A	16" / 40cm	Red	12 Pairs / Dozen
-01016B	16" / 40cm	Red	Single Pair
-01114A	14" / 36cm	Blue	12 Pairs / Dozen
-01114B	14" / 36cm	Blue	Single Pair
-01116A	16" / 40cm	Blue	12 Pairs / Dozen
-01116B	16" / 40cm	Blue	Single Pair

Chrome Leather Rigger Gloves

- An economical glove for general haulage, and construction handling work
- Chrome leather, elasticated back, knuckle protection, safety cuff and vein patch for protection



Order Code	Size	Color	Packaging Quantity (MOQ)
TFPP01			
-03011A	10.5	Grey / Variegated	12 Pairs / Dozen
-03111A	10.5	Grey / Orange	12 Pairs / Dozen

Cowhide Driver's Gloves

- Made of full grain cowhide leather, tough but supple
- Keystone thumb is designed to provide increased dexterity and comfort
- Elastic at the back wrist helps to keep the gloves in place as you work
- Do not wash



Order Code	Size	Color	Packaging Quantity (MOQ)
TFPP01			
-20010A	10	Cream	12 Pairs / Dozen
-22010B	10	Cream	Single Pair

Latex Coated Gloves

- 10 gauge or 13 gauge T/C liners, natural latex coated palm
- Seamless premium cotton/polyester liner
- Excellent dexterity, flexible and comfortable, good grip with breathability, anti-acid, anti-alkali, anti-slip and penetration resistance
- Superior grip in wet and dry applications
- Suitable for construction, mechanical and low temperature environments

Smooth-Finish - 10 Gauge



Order Code	Size	Color	Packaging Quantity (MOQ)
TFPP01			
-31008A	8	Orange / White	12 Pairs / Dozen
-31009A	9	Orange / White	12 Pairs / Dozen

Crinkle-Finish - 10 Gauge, 21S



Order Code	Size	Color	Packaging Quantity (MOQ)
TFPP01			
-32009A	9	Blue / Grey	12 Pairs / Dozen
-32010A	10	Blue / Grey	12 Pairs / Dozen
-32109A	9	Green / Yellow	12 Pairs / Dozen
-32110A	10	Green / Yellow	12 Pairs / Dozen

Crinkle-Finish - 13 Gauge



Order Code	Size	Color	Packaging Quantity (MOQ)
TFPP01			
-33009A	9	Black / Red	12 Pairs / Dozen
-33010A	10	Black / Red	12 Pairs / Dozen

Foam Latex Gloves

- 13 gauge polyester liner, double coating impermeability - fully latex coated with foam latex palm coated, providing excellent grip in wet and dry conditions
- The latex coating provides warmth, anti-slip, water proof, thermal protection and anti-abrasion
- Elastic slip-on extended knitted wrist provides better protection while keeping fitable



Order Code TFPP01	Size	Color	Packaging Quantity (MOQ)
-30009A	9	Blue	12 Pairs / Dozen
-30010A	10	Blue	12 Pairs / Dozen

Rubber Coated Gloves

- Palm-dipped natural rubber coating, white cotton polyester liner
- Rough textured grip
- Designed for optimal fit and long-lasting comfort
- Lightweight coating provides maximum grip and dexterity
- Elastic knit wrist cuff prevents debris from entering the glove
- Open-back ensures breathability and reduces perspiration
- Elastic knit wrist cuff



Order Code TFPP01	Size	Color	Packaging Quantity (MOQ)
-40009A	9	Blue / White	12 Pairs / Dozen
-40010A	10	Blue / White	12 Pairs / Dozen
-40109A	9	Orange / White	12 Pairs / Dozen
-40110A	10	Orange / White	12 Pairs / Dozen

Nitrile Coated Gloves

- Nitrile is an incredibly versatile material for gloves, providing exceptional grip and protection from a range of hazards. The nitrile coated gloves are ideal for a huge variety of industries and applications, from construction to handling to chemical resistance, ensuring that your hands get the support and protection they need
- 13 gauge polyester liner, nitrile coated palm
- Our nitrile gloves make your grip easy and at the same time will maintain all tactile senses
- Our nitrile gloves are perfect to work in almost any environment because our nitrile coating is not permeable for dust or fluids



Order Code TFPP01	Size	Color	Packaging Quantity (MOQ)
-50008A	8	Blue / White	12 Pairs / Dozen
-50009A	9	Blue / White	12 Pairs / Dozen
-50108A	8	Black / Red	12 Pairs / Dozen
-50109A	9	Black / Red	12 Pairs / Dozen

PU Coated Gloves

- PU Coating is your best choice for cut protection in pharmaceutical industry, with excellent grip
- 13 gauge seamless liner from automatic knitting machines provides an evenly tensioned surface for excellent fit and dexterity
- High abrasion and tear resistance
- Protective glove against mechanical risks for pharmaceutical industry, small parts assembly such as bearings, springs etc. Assembly of electrical components, microprocessor handling, medicine manufacturing, cosmetics preparation, automotive industry and OEM manufacturers



Order Code TFPP01	Size	Color	Packaging Quantity (MOQ)
-60008A	8	Grey	12 Pairs / Dozen
-60010A	10	Grey	12 Pairs / Dozen
-60108A	8	Black	12 Pairs / Dozen
-60110A	10	Black	12 Pairs / Dozen

PU Cut-resistance Gloves

- 13 gauge high performance polyethylene knit liner, with PU coated on palm
- Offers medium-weight cut resistance
- Seamless, machine knit shell is stretchy and form fitting, allowing superior dexterity
- Polyurethane coating provides exceptional abrasion resistance
- Grey color hides dirt, making it a good choice for dirty applications
- Suitable for automotive, glass & sheet metal handling, metal stamping/fabrication etc.



Order Code TFPP01	Size	Color	Packaging Quantity (MOQ)
-65009A	9	Grey	12 Pairs / Dozen
-65009B	9	Grey	Single Pair
-65010A	10	Grey	12 Pairs / Dozen
-65010B	10	Grey	Single Pair

PVC Gloves

- Red single dipped gloves with polyester liner and PVC coating
- Smooth finish with good abrasion resistance
- Designed to resist water, most liquids and oils
- Elasticated knitted cuffs for comfort
- Excellent protection against a range of substances, most liquids and oils
- Ideal for plumbing, utilities, agriculture, gardening, fishing, janitorial, construction, refuse collection and roofing industries



Order Code	Size	Color	Packaging Quantity (MOQ)
TFPP01			
-70009A	9	Red	12 Pairs / Dozen
-70009B	9	Red	Single Pair
-70010A	10	Red	12 Pairs / Dozen
-70010B	10	Red	Single Pair

Fully Dipped PVC Gloves

- Red single dipped gloves with polyester liner and full PVC coating
- Smooth finish with good abrasion resistance
- Designed for easy movement and continuous wear
- Interlock lining for easy take-on and take-off
- Anti bacterial treatment
- Ideal for use in industrial, farming, food, hospitality chemical processing, automotive & pharmaceutical industries



Order Code	Size	Color	Packaging Quantity (MOQ)
TFPP01			
-75027A	27	Red	12 Pairs / Dozen
-75027B	27	Red	Single Pair
-75035A	35	Red	12 Pairs / Dozen
-75035B	35	Red	Single Pair

Knitted Cotton Gloves

- Machine knitted 10 gauge cotton (reversible) seamless gloves
- Knit construction stretches for excellent fit while allowing air to circulate to keep hands dry and comfortable
- Elasticised composite knitted wrist, designed for extra comfort with superior durability
- These gloves are ideal as medium duty industrial, general work and liner gloves



Order Code	Size	Color	Weight	Packaging Quantity (MOQ)
TFPP01				
-80009A	9	White	500g / Dozen	12 Pairs / Dozen
-80109A	9	Mix	500g / Dozen	12 Pairs / Dozen

PVC Dotted Cotton Gloves

- Made from 10 gauge cotton and enhanced with tiny PVC dots applied to palm
- The PVC dots provide additional grip and durability compared to plain cotton gloves, improving handling and extending the life of the glove. They offer a balance between comfort and functionality, being breathable and relatively lightweight while giving better traction for holding tools or materials
- Wear-proof, anti-static, anti-slip and anti-scratch
- Ideal for general-purpose tasks, such as warehousing, packaging, and assembly, these gloves are not intended for high-risk applications like handling sharp objects or hazardous chemicals



Order Code	Size	Color	Packaging Quantity (MOQ)
TFPP01			
-85008A	8	Blue / White	12 Pairs / Dozen
-85009A	9	Blue / White	12 Pairs / Dozen
-85010A	10	Blue / White	12 Pairs / Dozen
-85108A	8	Black / White	12 Pairs / Dozen
-85109A	9	Black / White	12 Pairs / Dozen
-85110A	10	Black / White	12 Pairs / Dozen

Multi-Pocket High Visibility Vests

- Made from heavy duty PVC coated polyester with sturdy stitching and durable webbing
- Great for daily working, airport ground crews, fishing, hiking, mills, road construction, timber harvest, agriculture, mining, shipyards, forestry, utilities, hunting, food processing etc.
- High visibility and 360° reflectivity: neon yellow & orange safety vests are high visibility with two-inch wide reflective strips cover the waist, chest, shoulders and back which provide 360° protection while you are working under daylight or low light conditions
- Class 2 neon background material and reflective strips, 300 meter reflective distance
- High-quality low-elastic silk fabrics, lightweight, moisture repellent and breathable, soft and comfortable, wear-resistant, air permeability up to 98%, heavy-duty zipper front
- One size fits most: these high visibility safety vests are fully adjustable with durable zipper closure, fitting men, women, young adults and teenagers, small or tall
- Strictly conforms to EN ISO20471



Neon-Yellow

Neon-Orange



Order Code TFPP15	Color	Length (cm)	Chest (cm)	Numbers of Pockets
-01012A	Neon-Yellow	72	120	5
-01012B	Neon-Orange	72	120	5

Traffic High Visibility Vests

- Made from heavy duty PVC coated polyester with sturdy stitching and durable webbing
- Great for people providing services at outdoor events, home construction, traffic or emergency workers, parking attendants, firemen, security guards, toll work workers, crossing guard, running or biking etc.
- High visibility and 360° reflectivity: neon yellow and orange safety vests are high visibility with two-inch wide reflective strips cover the waist which provide 360° protection while you are working under daylight or low light conditions
- Class 2 neon background material and reflective strips, 300 meter reflective distance
- Breathable, quick drying, comfortable and lightweight for safety and comfort, air permeability up to 98%
- One size fits most: these high visibility safety vests are fully adjustable with durable zipper closure, fitting men, women, young adults and teenagers, small or tall; They are easy to put on, fit well over a jacket or coat
- Strictly conforms to EN ISO20471



Neon-Yellow

Neon-Orange



Order Code TFPP15	Color	Length (cm)	Chest (cm)
-02014A	Neon-Yellow	66	115
-02014B	Neon-Orange	66	115

Fast Dry High Visibility T-Shirts

- Made from 100% high-tech polyester fabric & reflective material for fast dry and breathable
- Great for daily working, airport ground crews, fishing, hiking, mills, road construction, timber harvest, agriculture, mining, shipyards, forestry, utilities, hunting, food processing etc.
- High visibility and 360° reflectivity: neon yellow & orange safety T-shirts are high visibility with two-inch wide reflective strips cover the waist and chest which provide 360° protection while you are working under daylight or low light conditions
- Class 2 neon background material and reflective strips, 300 meter reflective distance
- Breathable, fast dry, comfortable and lightweight for safety and comfort, air permeability up to 99%



Neon-Yellow

Neon-Orange



Order Code TFPP15	Color	Size	Length (cm)	Chest (cm)
-10504A	Neon-Yellow	L	68	100
-10514A		XL	70	104
-10524A		XXL	72	108
-10534A		XXXL	74	112
-10544A		XXXXL	76	116
-10504B	Neon-Orange	L	68	100
-10514B		XL	70	104
-10524B		XXL	72	108
-10534B		XXXL	74	112
-10544B		XXXXL	76	116

High Visibility Hooded Waterproof Suits

- Made from PVC coated oxford fabric & reflective material, delivers the ultimate in rain protection yet breathable
- Great for people working in dangerous settings where visibility is the highest priority, including EMS, construction & traffic control
- High visibility and 360° reflectivity: neon yellow safety suits are high visibility with two-inch wide reflective strips cover the waist, chest, shoulders, back and legs which provide 360° protection while you are working under daylight or low light conditions
- Neon background material and reflective strips, 300 meter reflective distance
- Rollaway/concealable hood and double sealed fly are 100% waterproof and wind-resistance
- Large front patch pockets with flaps, adjustable wrist cuffs and leg cuff straps also for greater protection from the moisture



Order Code TFPP15	Size (mm)	Jacket Length (cm)	Chest (cm)	Pants Length (cm)	Waist (cm)	Hip Size (cm)
-15165A	165	72	118	95	62	112
-15170A	170	74	122	98	65	116
-15175A	175	76	126	101	68	120
-15180A	180	78	130	104	71	124
-15185A	185	80	134	107	74	128
-15190A	190	82	138	110	77	132

High Visibility Cross Belts

- Made from high-quality polyester material & reflective material, providing maximum visibility in the dark, making you easily identifiable to motorists, cyclists, and pedestrians. Stay safe and confident while cycling, jogging, or walking at night
- The comfortable and ergonomic design allows for unrestricted movement, ensuring a hassle-free outdoor experience
- High visibility and 360° reflectivity: neon yellow and orange safety cross belts are high visibility with wide reflective strips cover the waist, shoulders and back which provide 360° protection while you are working under daylight or low light conditions
- Neon background material and reflective strips, 300 meter reflective distance
- The adjustable straps enable a secure and customizable fit for all body types, making it suitable for adults and older children alike. No need to worry about size limitations; our cross belts are designed to accommodate everyone
- Snap-on buckle for safe and quick put-on
- Strictly conforms to EN ISO20471



Neon-Yellow



Order Code	Color	Belt Width (mm)	Reflective Strip Width (mm)	Length (cm)	Waist (cm)
TFPP15					
-30402A	Neon-Yellow	40	15	38 - 54	72 - 104
-30406A		40	25	38 - 54	72 - 104
-30504A		50	20	38 - 54	72 - 104
-30508A		50	30	38 - 54	72 - 104
-30402B	Neon-Orange	40	15	38 - 54	72 - 104
-30406B		40	25	38 - 54	72 - 104
-30504B		50	20	38 - 54	72 - 104
-30508B		50	30	38 - 54	72 - 104

Hearing Defenders

- Functioned with the active listening which makes it possible to hear what happens around you while still wearing hearing protection
- Built-in microphone can amplify sounds when they are weak, ensuring clearer listening than without headset
- Soft foam cups for comfortable wearing
- Retractable steel design for comfortable to your faces
- SNR 26dB
- On/Off switch with volume control
- Power supply: 2 x AA batteries (not included)
- CE certified



Order Code	Model	Color
TFPP20		
-00001A	with MP3 Interface	Black
-00002R	Built-in FM Radio	Yellow

Black Business/Casual Backpack

- This classic business travel backpack is made of water resistant, stain resistant and durable oxford cloth
- Comfortable airflow back design with thick but soft multi-panel ventilated padding, gives you maximum back support. Breathable and adjustable shoulder straps relieve the stress of shoulder
- Multi-compartment design for easy organization and secured storage
- Compatible with 16" or 17" laptops
- Overall storage capacity up to 36 - 55L
- Load capacity: 120kg



Order Code	Capacity (L)	Dimensions (mm)	Color
TFBS01			
-01055A	36 - 55	50(H) x 32(W) x 17(D)	Black

15" Classical Laptop Bag

- This classic laptop bag is made of water resistant, stain resistant and durable oxford cloth
- Shock-absorbing padding for comfortable carry
- Multi-compartment design for easy organization and secured storage
- Compatible with 15" laptops
- Large capacity, can easily store loads of 9kg



Order Code	Laptop Compatibility	Dimensions (mm)	Color
TFBS01			
-02015A	15"	39(W) x 30(H) x 11(D)	Black

Safety Spectacles - Anti-Laser

- Laser protection spectacles are special designed to prevent or reduce laser damage to the human eyes
- Made of red polycarbonate lens with excellent laser protection and UV resistance
- Impact-resistant, scratch-resistant, anti-fog and lightweight
- Feature a single lens with side shields that extend the range of peripheral protection
- 4-stage stretchable temples for a comfortable fit on your faces
- Feature with 2 cord holes
- Meet impact resistance standard of ANSI Z87.1 Level 1
- Meet European Union standard of CE EN166F



Order Code: **TFPP10-10001A**

Safety Spectacles - Fieldwork Purpose

- Stylish, flexible, lightweight, ideal for fieldwork
- Made of reinforced polycarbonate lens for eye protection of anti-impact, anti-scratch, anti-fog, anti-splash, dust-proof and wind-proof
- Specially designed frame and curved lens that extend the range of peripheral protection
- 4-stage stretchable temples for a comfortable fit on your faces
- Feature with 2 cord holes
- Meet impact resistance standard of ANSI Z87.1 Level 1
- Meet European Union standard of CE EN166F



Order Code: **TFPP10-10002A**

Safety Spectacles - Passion Model

- Stylish, flexible, lightweight, ideal for sports and other activities
- Integrated polycarbonate frame and lens for durable use and protection of anti-impact, anti-scratch, anti-fog
- Ultra-soft and breathable rubber nose pads that enhance the comfort, suitable for long-time wearing
- 8-stage up-and-down adjustable temples for a comfortable fit on your faces
- Meet impact resistance standard of ANSI Z87.1 Level 1
- Meet European Union standard of CE EN166F



Order Code: **TFPP10-10002A**

Safety Spectacles - Double Frames for Nearsighted

- Specially designed for the nearsighted persons to wear with a comfortable condition at work
- Made of reinforced polycarbonate lens protection of high anti-impact, anti-scratch, anti-fog
- Double-frame design, the inner frame can be easily removed, allowing you to wear the myopia glasses, alternatively, you can mount the myopia lenses to the inner frame directly
- Large frame and side shields that extend the range of peripheral protection
- Ultra-soft rubber nose pads that enhance the comfort, suitable for long-time wearing
- 4-stage stretchable temples for a comfortable fit on your faces
- Meet impact resistance standard of ANSI Z87.1 Level 1
- Meet European Union standard of CE EN166F



Order Code: **TFPP10-10004A**

Black Safety Shoes

- Widely applicable to almost industries such as construction, steel, smelting, energy, power, electronics, and automotive manufacturing etc.
- Cowhide upper providing exceptional tear-resistance, fold-resistance, temperature-resistance, waterproof and excellent breathability
- Thickened black mesh fabric lining helping breathability, sweat absorption, comfort and wear-resistance
- Double-density PU injection sole performing excellent mechanical strength, abrasion-resistance, oil-resistance, temperature-resistance and energy absorption etc.
- Steel toe cap ensuring maximum protection of impact and pressure resistance
- CE certified



Order Code	EU Size	UK Size	US Size	CHN Size
TFPP30				
-01035B	35	2.5	4	213
-01036B	36	3.5	4.5	221
-01037B	37	5	6	235
-01038B	38	5.5	6.5	240
-01039B	39	6	7	245
-01040B	40	6.5	7.5	250
-01041B	41	7	8	255
-01042B	42	7.5	8.5	260
-01043B	43	8	9	265
-01044B	44	8.5	9.5	270

Eye Wash Stations

- This eye wash station is designed with double sprayers, providing quick and easily washing experience if need so. When unexpected situation happens, it can wash the foreign matters efficiently. It is a necessary first-aid equipment for many working sites
- Constructed from durable high-density polyethylene for long-lasting use, non-toxic, corrosion resistance, wear resistance and with smooth surface
- Integrated design with a pull-down activation arm for easy operation
- Double-mouth flush design, increasing the wash efficiency
- Mist water flow, pressure relieved with double filtration, making the water soft and clean to protect your eyes and not splashing
- Manufacturing standard: ANSI-Z358-1990/DIN-12899

35L Portable



53L Wall Mounted



53L Trolley



Order Code TFPP04	Capacity (L)	Capacity (Gal)	Color (Main)	Mounting Method	Water Pressure (MP)	Flow Rate - Liter/Min	Sprayer Spacing (mm)
-01135A	35	9.2	Green	Portable & Wall Mounted	0.20 - 0.40	2.0 - 3.0	150 - 170
-01253A	53	14	Yellow	Portable & Wall Mounted			
-02153B	53	14	Yellow	Trolley			

Double Bottle Wall Mounted Eye Wash Stations

- This eye wash station consists of two purpose-designed eye flush bottles attached to a base station that can be mounted in high risk areas
- Wall mountable, no-toxic plastic stand with mirror allows for monitoring during application
- Application by squeezing
- Gentle flush to protect the eyes

with Discharge Tubes



with Green Caps



Order Code TFPP04	Capacity (ml)	Bottle Types
-03500A	500 x 2	with Discharge Tubes
-03500B	500 x 2	with Green Caps

Pedestal Eye Wash Stations

- Suitable for industrial & commercial emergency first-aid use
- Made of tough 304 stainless steel with a smooth surface, non-corrosive and temperature resistant
- Multi-layer filtration to remove impurities from water, mist water flow to protect your eyes
- Luminous switch pad (valve) for easy control
- Manufacturing standard: ANSI-Z358-1990/DIN-12899

Full Stainless Steel



Full Stainless Steel + Full Powder Coating



Stainless Steel + Half Powder Coating



Stainless Steel + ABS Washbowl



Combination Unit Full Stainless Steel



Combination Unit Full Stainless Steel + Full Powder Coating



Order Code TFPP04	Model	Sprayer Height (mm)	Showerhead Height (mm)	Eye Wash Flow Rate - Liter/Min
-06101A	Full Stainless Steel	930	-	≥ 11.4
-06101B	Full Stainless Steel + Full Powder Coating			
-06105B	Stainless Steel + Half Powder Coating			
-06102C	Stainless Steel + ABS Washbowl			
-06301A	Comb. Unit, Full Stainless Steel	1050	2100	≥ 11.4
-06301B	Comb. Unit, Full Stainless Steel + Full Powder Coating			



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Units Conversion Chart: Part 1

Table 1: Units of Length

Millimeters	Centimeters	Meters	Kilometers	Inches	Feet	Yards	Miles
mm	cm	m	km	in	ft	yd	mi
1	0.1	0.001	0.000001	0.03937	0.003281	0.001094	6.21*10 ⁻⁷
10	1	0.01	0.00001	0.393701	0.032808	0.010936	0.000006
1000	100	1	0.001	39.37008	3.28084	1.093613	0.000621
1000000	100000	1000	1	39370.08	3280.84	1093.613	0.621371
25.4	2.54	0.0254	0.000025	1	0.083333	0.027778	0.000016
304.8	30.48	0.3048	0.000305	12	1	0.333333	0.000189
914.4	91.44	0.9144	0.000914	36	3	1	0.000568
1609344	160934.4	1609.344	1.609344	63360	5280	1760	1

Table 2: Units of Area

Millimeter square	Centimeter square	Meter square	Inch square	Foot square	Yard square
mm ²	cm ²	m ²	in ²	ft ²	yd ²
1	0.01	0.000001	0.00155	0.000011	0.000001
100	1	0.0001	0.155	0.001076	0.00012
1000000	10000	1	1550.003	10.76391	1.19599
645.16	6.4516	0.000645	1	0.006944	0.000772
92903	929.0304	0.092903	144	1	0.111111
836127	8361.274	0.836127	1296	9	1

Table 3: Units of Mass

Grams	Kilograms	Metric tonnes	Short ton	Long ton	Pounds	Pounds
g	kg	tonne	shton	Lton	lb	oz
1	0.001	0.000001	0.000001	9.84 *10 ⁻⁷	0.002205	0.035273
1000	1	0.001	0.001102	0.000984	2.204586	35.27337
1000000	1000	1	1.102293	0.984252	2204.586	35273.37
907200	907.2	0.9072	1	0.892913	2000	32000
1016000	1016	1.016	1.119929	1	2239.859	35837.74
453.6	0.4536	0.000454	0.0005	0.000446	1	16
28	0.02835	0.000028	0.000031	0.000028	0.0625	1

Units Conversion Chart: Part 2

Table 4: Units of Volume

Centimeter cube	Meter cube	Liter	Inch cube	Foot cube	US gallons	Imperial gallons	US barrel (oil)
cm ³	m ³	ltr	in ³	ft ³	US gal	Imp. gal	US brl
1	0.000001	0.001	0.061024	0.000035	0.000264	0.00022	0.000006
1000000	1	1000	61024	35	264	220	6.29
1000	0.001	1	61	0.035	0.264201	0.22	0.00629
16.4	0.000016	0.016387	1	0.000579	0.004329	0.003605	0.000103
28317	0.028317	28.31685	1728	1	7.481333	6.229712	0.178127
3785	0.003785	3.79	231	0.13	1	0.832701	0.02381
4545	0.004545	4.55	277	0.16	1.2	1	0.028593
158970	0.15897	159	9701	6	42	35	1

Table 5: Temperature Conversion Formulas

Degree Celsius (°C)	$(^{\circ}\text{F} - 32) \times 5/9$
	$(\text{K} - 273.15)$
Degree Fahrenheit (°F)	$(^{\circ}\text{C} \times 9/5) + 32$
	$(1.8 \times \text{K}) - 459.67$
Kelvin (K)	$(^{\circ}\text{C} + 273.15)$
	$(^{\circ}\text{F} + 459.67) \div 1.8$

Table 6: Units of Speed

Meter/second	Meter/minute	Kilometer/hour	Foot/second	Foot/minute	Miles/hour
m/s	m/min	km/h	ft/s	ft/min	mi/h
1	59.988	3.599712	3.28084	196.8504	2.237136
0.01667	1	0.060007	0.054692	3.281496	0.037293
0.2778	16.66467	1	0.911417	54.68504	0.621477
0.3048	18.28434	1.097192	1	60	0.681879
0.00508	0.304739	0.018287	0.016667	1	0.011365
0.447	26.81464	1.609071	1.466535	87.99213	1

Units Conversion Chart: Part 3

Table 7: High Pressure Units

Bar	Pound/square inch	Kilopascal	Megapascal	Kilogram force/centimeter square	Millimeter of mercury	Atmospheres
bar	psi	kPa	MPa	kgf/cm ²	mm Hg	atm
1	14.50326	100	0.1	1.01968	750.0188	0.987167
0.06895	1	6.895	0.006895	0.070307	51.71379	0.068065
0.01	0.145	1	0.001	0.0102	7.5002	0.00987
10	145.03	1000	1	10.197	7500.2	9.8717
0.9807	14.22335	98.07	0.09807	1	735.5434	0.968115
0.001333	0.019337	0.13333	0.000133	0.00136	1	0.001316
1.013	14.69181	101.3	0.1013	1.032936	759.769	1

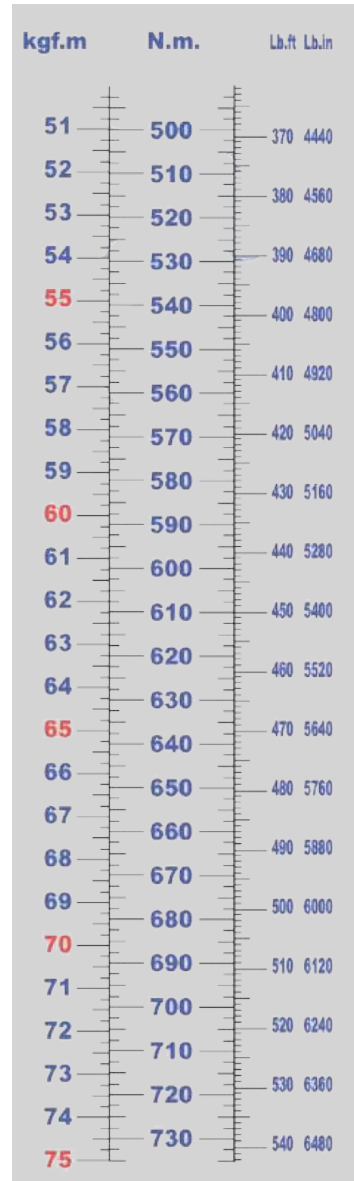
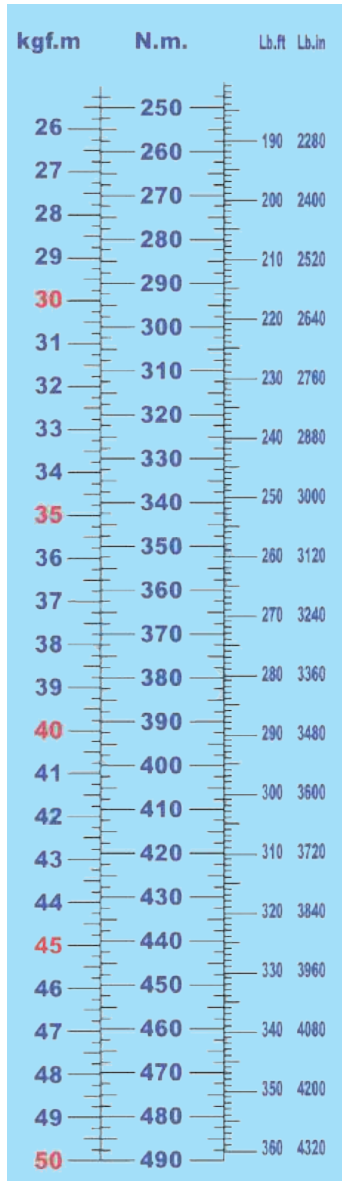
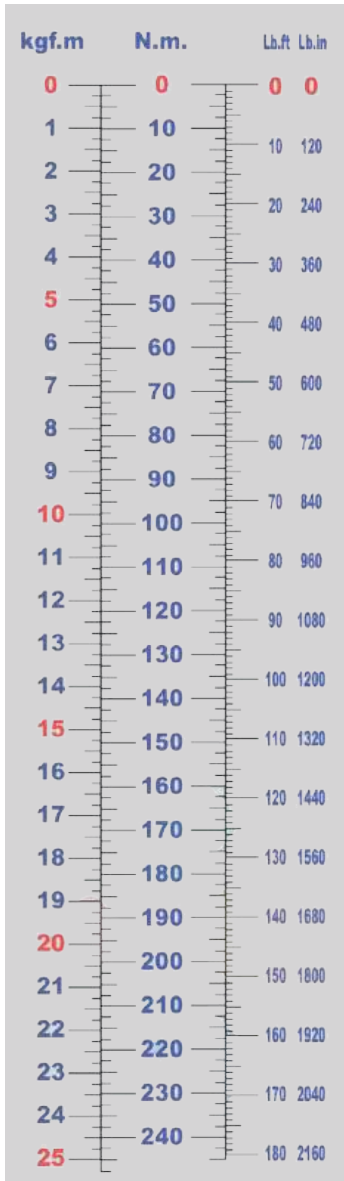
Table 8: Low Pressure Units

Meter of water	Foot of water	Centimeter of mercury	Inches of mercury	Inches of water	Pascal
mH ₂ O	ftH ₂ O	cmHg	inHg	inH ₂ O	Pa
1	3.280696	7.356339	2.896043	39.36572	9806
0.304813	1	2.242311	0.882753	11.9992	2989
0.135937	0.445969	1	0.39368	5.351265	1333
0.345299	1.13282	2.540135	1	13.59293	3386
0.025403	0.083339	0.186872	0.073568	1	249.1
0.000102	0.000335	0.00075	0.000295	0.004014	1

Table 9: Torque Units

Newton meter	Kilogram force meter	Foot pound	Inch pound
Nm	kgfm	ftlb	inlb
1	0.101972	0.737561	8.850732
9.80665	1	7.233003	86.79603
1.35582	0.138255	1	12
0.112985	0.011521	0.083333	1

Torque Conversion Table



Metric Threads and Spanner Sizes

Diameter	Thread Pitch	Spanner Size
M5	0.80mm	8mm
M6	1.00mm	10mm
M8	1.25mm	13mm
M10	1.50mm	17mm
M12	1.75mm	19mm
M14	2.00mm	22mm
M16	2.00mm	24mm
M18	2.50mm	27mm
M20	2.50mm	30mm
M22	2.50mm	32mm
M24	3.00mm	36mm

Imperial Threads and Spanner Sizes

Diameter	BSF		UNF	
	Threads Per Inch	Spanner Size	Threads Per Inch	Spanner Size
1/4"	26	7/16"	28	7/16"
5/16"	22	17/32"	24	1/2"
3/8"	20	19/32"	24	9/16"
7/16"	18	45/64"	20	5/8"
1/2"	16	13/16"	20	3/4"
9/16"	16	59/64"	18	7/8"
5/8"	14	1"	18	15/16"
3/4"	12	1-3/16"	16	1-1/8"
1"	10	1-15/32"	12	1-1/2"