



**KUKKO**  
Tool factory

A world **in motion**  
since 1919!

specialized in extractors

# Mechanical Power Transmission <sup>EN</sup>

KUKKO tool program specially tailored for the mechanical power transmission.





# KUKKO - the puller specialist since 1919

KUKKO-Werkzeugfabrik Kleinbongartz & Kaiser oHG is the manufacturer of extractor tools for users in trade and industry. In 1919, Kleinbongartz & Kaiser oHG, the core company of today's **KUKKO Group**, was founded by Alfred Kleinbongartz and his brother-in-law Emil Kaiser in Remscheid, the centre of the German tool industry.

**KUKKO** has been an independent, owner-run family company for four generations and is one of the world's leading producers of extractor tools of all kinds.

From the very beginning, **KUKKO** specialized in the development and manufacturing of extractor tools for the non-destructive dismantling of gears, bearings, ball bearings and similar components in all areas of technology. To this day, the product lines, extractor tools and dismantling tools are the core business of the **KUKKO Group**.

Numerous German and foreign patents, registered designs, and utility models bear witness to the intensive, continuous and successful development work.

## Information about the KUKKO product range

You can find this on our homepage [www.kukko.com](http://www.kukko.com)

We have made plenty of information available for you in the download area. You will also find detailed information and application videos concerning the product.



[www.youtube.com/kukkotools](http://www.youtube.com/kukkotools)

*The videos will help you with any questions you may have about the application of our tools.*



Our Extractor Guide will help you to quickly and safely select the right extractor.

Would you like to order spare parts? You can do this quickly and easily, because all the components are available and numbered as spare parts. In the service area of our homepage, you will find the spare parts list for downloading.

















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### Impressum

Firma / Company:

KUKKO-Werkzeugfabrik  
Kleinbongartz & Kaiser oHG  
Heinrich-Hertz-Str. 5, 40721 Hilden, Germany  
Duesseldorf (HRA Nr. 22727)  
+49 (0) 2103-9754-300  
+49 (0) 2103-9754-310  
info@kukko.com  
www.kukko.com

Registergericht / Court of Registry:

Phone:

Fax:

E-Mail:

Website:

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### Business directory

Our general terms of business form the basis of this catalog.

Measurements and weights are only approximate.

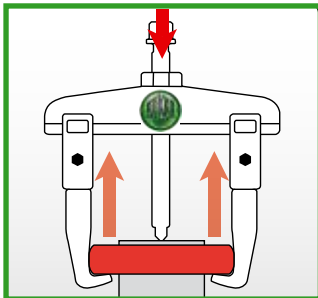
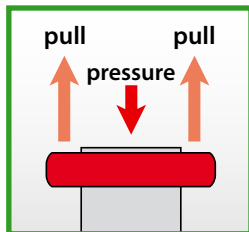
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General Terms and Conditions of Delivery and Payment see [www.kukko.com](http://www.kukko.com)

## EXTERNAL



The part to be removed is on a shaft and is freely accessible from the outside!

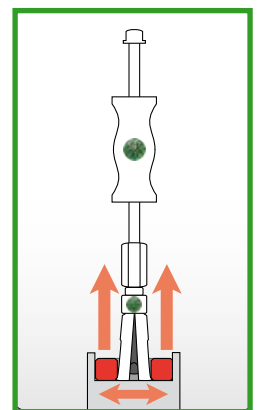
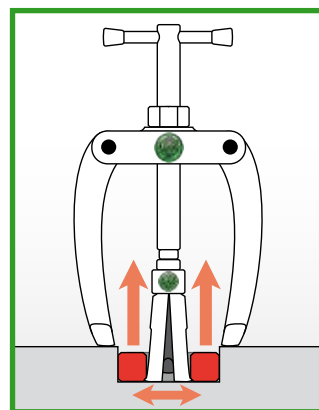
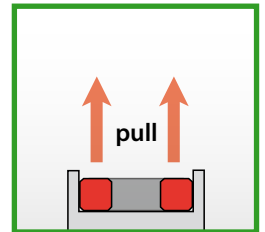
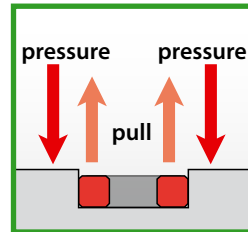


Use an **EXTERNAL** puller

## INTERNAL



The part to be removed is in a recess!

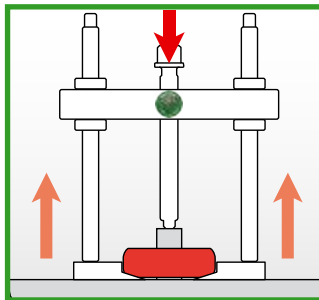
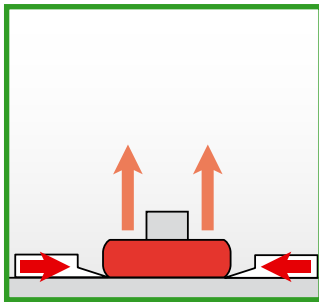
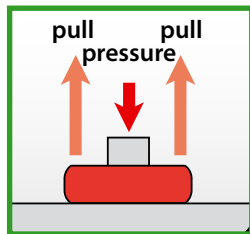


Use an **INTERNAL** puller

## SEPARATING



The part to be removed is level. It is not possible to use standard puller jaws!

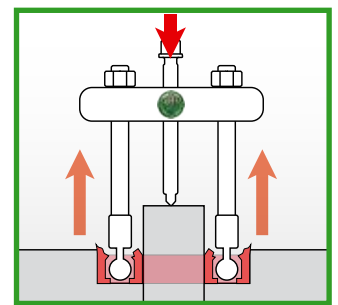
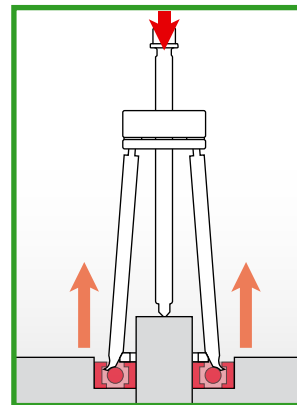
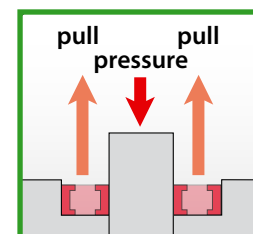


Use an SEPARATING device

## BALL BEARING



The ball bearing is in a housing and on a shaft at the same time.



Use an BALL BEARING extractor







# External extracting

## Außen-Abziehen

### 01

Pullers with sliding,  
parallel jaws..... **06-25**  
Abzieher mit gleitenden,  
immer parallelen Abzughaken

Pullers with swivelling jaws..... **26-33**  
Abzieher mit  
schwenkbaren Abzughaken

Pullers with self-centering jaws..... **34-38**  
Abzieher mit  
selbstzentrierenden Abzughaken

Pullers with reversible jaws..... **39-40**  
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Abzieher mit  
seitlicher Spannzwinde

Pullers with adjustable jaws..... **43**  
Abzieher mit  
voreinstellbaren Abzughaken

Puller Economy..... **44-45**  
Abzieher Economy

Accessories spindles..... **46-49**  
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Zubehör für Außen-Abzieher

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10





## Pullers with sliding, parallel jaws

### Universal 2-jaw pullers with adjustable reach

ST

For removing bearings, gears, discs, etc.

# 20-AV/20-5








#### Description

- Standard pulling hook with adjustable clamping depths.
- Two-arm design for space-saving operation.
- Pulling hooks with infinite adjustment on the cross-beam.
- Parallel pulling hooks in every position, even with full load.
- Mechanical pressure screw.

#### Advantage

- Pulling hooks can be adjusted lengthwise and to meet the required clamping depths.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8 available as an option for particularly tight parts.
- Hydraulic extra press series 9 available as an option for particularly tight parts.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.		 mm	 mm	 mm	 max. Nm	max. t	
20-4-AV	-706233	520	300 - 500	36	400	12	
20-40-AV	-973222	650	300 - 500	36	400	12	
20-5	-009846	750	400 - 700	41	650	15,0	

### Universal 2-jaw puller with adjustable reach and long hydraulic spindle (including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

# 20-H







#### Description

- Lubricating hydraulics.
- Standard pulling hook with adjustable clamping depths.
- Two-arm design for space-saving operation.
- Pulling hooks with infinite adjustment on the cross-beam.
- Parallel pulling hooks in every position, even with full load.

#### Advantage

- Pulling hooks can be adjusted lengthwise and to meet the required clamping depths.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm	max. t	 max. Nm	mit with	
20-4-H	-227981	520	300 - 500	15	45	8-1-B	
20-40-H	-732218	650	300 - 500	15	45	8-1-B	
20-5-H	-228063	750	400 - 700	20	30	8-2-M	



### 3-jaw pullers with adjustable reach

ST

For removing bearings, gears, discs, etc.

# 11-AV








#### Description

- Standard pulling hook with adjustable clamping depths.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinite adjustment on the cross-beam.
- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20.

#### Advantage

- Pulling hooks can be adjusted lengthwise and to meet the required clamping depths.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8 for particularly tight parts available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
11-0-AV	-730078	375	300 - 500	36	15	500	
11-1-AV	-730153	520	300 - 500	41	20	650	
11-2-AV	-730238	650	300 - 500	41	20	650	

### 3-jaw pullers with adjustable reach and long hydraulic spindle

ST

For pulling particularly tight bearings, gears, discs, etc.

# 11-BV







hydraulic  
TECHNOLOGY

#### Description

- Lubricating hydraulics.
- Standard pulling hook with adjustable clamping depths.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Pulling hooks with infinite adjustment on the cross-beam.
- Parallel pulling hooks in every position, even with full load.

#### Advantage

- Pulling hooks can be adjusted lengthwise and to meet the required clamping depths.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art.-No.		 mm	 mm	max. t	 max. Nm	mit with	
11-0-BV	-730313	375	300 - 500	15	45	8-1-B	
11-1-BV	-730498	520	300 - 500	20	30	8-2-K	
11-2-BV	-730566	650	300 - 500	20	30	8-2-K	



## 2-jaw pullers

For removing bearings, gears, discs, etc.

# 20








### Description

- Standard pulling hook.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinite adjustment on the cross-beam.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 30 for optimal force distribution.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam, up to size -30, includes hexagonal profile for holding.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
20-1	-009433	90	100	17	4,5	80	
20-10	-009921	120	100	17	4,5	80	
20-2	-009501	160	150	22	6,0	150	
20-20	-010088	200	150	22	6,0	150	
20-3	-009686	250	200	27	8,5	300	
20-30	-010163	350	200	27	8,5	300	
20-4	-009761	520	200	36	12,0	400	
20-40	-411861	650	300	36	12,0	400	
20-5	-009846	750	400 - 700	41	15,0	650	

## Universal 2-jaw puller with long hydraulic spindle(including mechanical pressure screw)

For pulling particularly tight bearings, gears, discs, etc.

# 20-B







### Description

- Lubricating hydraulics.
- Standard pulling hook.
- Two-arm design for space-saving operation.
- Pulling hooks with infinite adjustment on the cross-beam.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Easy and even pulling for particularly tight parts.
- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam, up to size -30, includes hexagonal profile for holding.

Art.-No.		 mm	 mm	 mm	max. t	mit with	
20-2-B	-885815	160	150	12	7	8-01	
20-20-B	-885846	200	150	12	7	8-01	
20-3-B	-885891	250	200	12	10	8-02	
20-30-B	-885945	350	200	12	10	8-02	
20-4-B	-885983	520	200	-	15	8-1-B	
20-40-B	-886010	650	300	-	15	8-1-B	

## Sales display for 2-jaw pullers

ST

For removing bearings, gears, discs, etc.

20-ST







## Description

- The sales and workshop stands enable 2-jaw pullers to be stored and presented safely.
- Standard pulling hook.
- Two-arm design for space-saving operation.
- Pulling hooks with infinite adjustment on the cross-beam.
- Parallel pulling hooks in every position, even with full load.

## Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.

Art.-No.		 mm	 mm	max. t		Stück pieces	
20-ST	-010248	90 - 250	100 - 200	4,5 - 8,5	20-1, 20-10, 20-2, 20-20, 20-3, 20-STL	5	

## Universal 2-jaw puller with extended jaws

ST

For removing bearings, gears, discs, etc.

20







## Description

- Extended standard puller hook.
- Two-arm design for space-saving operation.
- Pulling hooks with infinite adjustment on the cross-beam.
- Parallel pulling hooks in every position, even with full load.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 30 for optimal force distribution.

## Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.

Art.-No.		 mm	 mm	 mm	max. t	
20-1-2	-466311	90	200	17	4,5	
20-1-25	-914362	90	250	17	4,5	
20-1-4	-989643	90	400	17	4,5	
20-10-2	-466496	120	200	17	4,5	
20-10-25	-908682	120	250	17	4,5	
20-10-4	-989650	120	400	17	4,5	
20-2-3	-466564	160	300	22	6,0	
20-20-3	-466649	200	300	22	6,0	
20-3-25	-901188	250	250	27	8,5	
20-3-3	-466724	250	300	27	8,5	
20-3-4	-467066	250	400	27	8,5	
20-3-5	-467301	250	500	27	8,5	
20-30-3	-466809	350	300	27	8,5	
20-30-4	-467141	350	400	27	8,5	
20-30-5	-467486	350	500	27	8,5	
20-4-3	-466984	520	300	36	12,0	
20-4-4	-467226	520	400	36	12,0	
20-4-5	-467554	520	500	36	12,0	
20-40-4	-730641	650	400	36	12,0	
20-40-5	-731976	650	500	36	12,0	





## Universal 2-jaw puller with long hydraulic spindle and extended jaws(including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

# 20-B







### Description

- Lubricating hydraulics.
- Extended standard puller hook.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Easy and even pulling for particularly tight parts.
- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam, up to size -30, includes hexagonal profile for holding.

Art.-No.		 mm	 mm	 mm	max. t	mit with	
20-2-3-B	-885808	160	300	12	7	8-01	
20-20-3-B	-885839	200	300	12	7	8-01	
20-3-3-B	-885860	250	300	12	10	8-02	
20-3-4-B	-885877	250	400	12	10	8-02	
20-3-5-B	-885884	250	500	12	10	8-02	
20-30-3-B	-885914	350	300	12	10	8-02	
20-30-4-B	-885921	350	400	12	10	8-02	
20-30-5-B	-885938	350	500	12	10	8-02	
20-4-3-B	-885952	520	300	-	15	8-1-B	
20-4-4-B	-885969	520	400	-	15	8-1-B	
20-4-5-B	-885976	520	500	-	15	8-1-B	
20-40-4-B	-885990	650	400	-	15	8-1-B	
20-40-5-B	-886003	650	500	-	15	8-1-B	

## Universal 2-jaw puller, in set

ST

For removing bearings, gears, discs, etc.

# 20-P







### Description

- If there is adequate free space around the part to be removed, we recommend a 3-jaw puller Baureihe 30-P3 for optimal force distribution.
- Standard pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.		 mm	 mm	 mm	max. t	mit with	
20-10-P3	-267611	120	100/200/250/350	17	4,5	1-90-P, 1-190-P, 1-250-P	
20-20-P2	-003004	200	150/300	17	6	2-150-P, 2-300-P	
20-30-P3	-003011	350	200/300/400	19	8,5	3-200-P, 3-300-P, 3-400-P	

## Set of universal 2- and 3-arm pullers

For removing bearings, gears, discs, etc.

# K-2030-10



### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- 8 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.
- Standard pulling hook.
- Jaw extensions.
- Pulling hooks with infinite adjustment on the cross-beam.

### Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.

Art.-No.				max.			
K-2030-10	-974748	120 - 130 mm	100 - 350 mm	4,5 - 6,0 t	20-10-P3, 30-10-P3, 614250	L-Boxx	

## Set of universal 2- and 3-arm pullers

For removing bearings, gears, discs, etc.

# K-2030-20



### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- 7 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.
- Standard pulling hook.
- Jaw extensions.
- Pulling hooks with infinite adjustment on the cross-beam.

### Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.

Art.-No.				max.			
K-2030-20	-161360	200 mm	150 - 450 mm	6 t	24	L-Boxx	

## Set of universal hydraulic 2- and 3-arm pullers

For pulling particularly tight bearings, gears, discs, etc.

# K-2030-20-B



### Description

- Lubricating hydraulics.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- 14 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.
- Standard pulling hooks in various lengths.
- Jaw extensions.
- Pulling hooks with infinite adjustment on the cross-beam.

### Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.

Art.-No.				max.		mit with		
K-2030-20-B	-123269	200 mm	150 - 450 mm	7 t	24	8-01	L-Boxx	



### 3-arm pullers

For removing bearings, gears, discs, etc.

# 11-A








#### Description

- Standard pulling hook.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Pulling hooks with infinite adjustment on the cross-beam.
- Parallel pulling hooks in every position, even with full load.
- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20.

#### Advantage

- Variable reach thanks to optional jaw extensions.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8 for particularly tight parts available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
11-0-A	-005886	375	200	36	15	500	
11-0-A3	-729263	375	300	36	15	500	
11-0-A4	-729348	375	400	36	15	500	
11-0-A5	-729423	375	500	36	15	500	
11-1-A	-075421	520	200	41	20	650	
11-1-A3	-729591	520	300	41	20	650	
11-1-A4	-729676	520	400	41	20	650	
11-1-A5	-729751	520	500	41	20	650	
11-2-A	-006203	650	200	41	20	650	
11-2-A3	-706158	650	300	41	20	650	
11-2-A4	-729836	650	400	41	20	650	
11-2-A5	-729911	650	500	41	20	650	

### 3-jaw puller with long hydraulic spindle

For pulling particularly tight bearings, gears, discs, etc.

# 11-B







#### Description

- Lubricating hydraulics.
- Standard pulling hook.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.
- Pulling hooks with infinite adjustment on the cross-beam.

#### Advantage

- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Stability support from optional side clamp series 219
- All components available as replacement parts, time-saving order process thanks to numbering system.

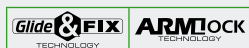
Art.-No.		 mm	 mm	max. t	 max. Nm	mit with	
11-0-B	-075346	375	200	15	30	8-1-B	
11-1-B	-006128	520	200	20	45	8-2-K	
11-2-B	-006388	650	200	20	30	8-2-K	
11-3-B	-706073	650	300	20	30	8-2-K	



## Universal 3-jaw pullers

For removing bearings, gears, discs, etc.

# 30



### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20.
- Standard pulling hook.
- Pulling hooks with infinite adjustment on the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.					max.		
		mm	mm	mm	t	Nm	
30-1	-013393	90	100	17	6	80	
30-10	-013621	120	100	17	6	80	
30-2	-013478	160	150	22	7	150	
30-20	-013706	200	150	22	7	150	
30-3	-013546	250	200	27	10	250	
30-30	-303005	350	200	27	10	250	
30-4	-303302	375	200	36	15	500	
30-40	-303319	520	200	41	15	500	
30-5	-303326	650	300-500	41	20	650	

## Universal 3-jaw puller with long hydraulic spindle

For pulling particularly tight bearings, gears, discs, etc.

# 30-B



### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20-B.
- Lubricating hydraulics.
- Standard pulling hook.
- Pulling hooks with infinite adjustment on the cross-beam.
- Hydraulic and mechanical pressure screw.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art.-No.					max.	mit with	
		mm	mm	mm	t		
30-2-B	-886317	160	150	12	7	8-01	
30-20-B	-886348	200	150	12	7	8-01	
30-3-B	-886393	250	200	12	10	8-02	
30-30-B	-303104	350	200	12	10	8-02	



## Universal 3-jaw puller with extended jaws

ST

For removing bearings, gears, discs, etc.

30







### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20.
- Extended standard puller hook.
- Pulling hooks with infinite adjustment on the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.

Art.-No.					max.	
		mm	mm	mm	t	
30-1-2	-730726	90	200	17	6	
30-10-2	-730801	120	200	17	6	
30-2-3	-730986	160	300	22	7	
30-20-3	-731068	200	300	22	7	
30-3-25	-901256	250	250	27	10	
30-3-3	-731143	250	300	27	10	
30-3-4	-731228	250	400	27	10	
30-3-5	-731303	250	500	27	10	

## Universal 3-jaw puller with long hydraulic spindle and extended jaws(including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

30 B







### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20-B.
- Lubricating hydraulics.
- Extended standard puller hook.
- Pulling hooks with infinite adjustment on the cross-beam.
- Hydraulic and mechanical pressure screw.

### Advantage

- Easy and even pulling for particularly tight parts.
- Can be installed on various pulling hooks.
- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.					max.	mit with	
		mm	mm	mm	t		
30-2-3-B	-886300	160	300	12	7	8-01	
30-20-3-B	-886331	200	300	12	7	8-01	
30-3-3-B	-886362	250	300	12	10	8-02	
30-3-4-B	-886379	250	400	12	10	8-02	
30-3-5-B	-886386	250	500	12	10	8-02	

## Universal 3-arm puller-set

ST

For removing bearings, gears, discs, etc.

# 30-P3



### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20-P.
- Standard pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art.-No.					max.	
		mm	mm	mm	t	
<b>30-10-P3</b>	-111136	130	100/200/250/350	17	6	
<b>30-20-P2</b>	-111150	200	150/300	22	7	
<b>30-3-P3</b>	-111174	250	200/300/400	27	10	

## Universal 2-jaw puller with narrow jaws

ST

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

# 20-S



### Description

- If there is adequate free space around the part to be removed, we recommend a 3-jaw puller Baureihe 30-S for optimal force distribution.
- Thin pulling hooks.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.					max.		
		mm	mm	mm	t	max. Nm	
<b>20-1-S</b>	-757396	90	100	17	2,5	35	
<b>20-10-S</b>	-757471	120	100	17	2,5	35	
<b>20-2-S</b>	-727368	160	150	22	5	120	
<b>20-20-S</b>	-727443	200	150	22	5	120	
<b>20-3-S</b>	-727511	250	200	27	7	220	
<b>20-30-S</b>	-727696	350	200	27	7	220	



## 2-jaw puller with narrow jaw, in set

ST

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

# 20-SP







### Description

- If there is adequate free space around the part to be removed, we recommend a 3-jaw puller Baureihe 30-SP for optimal force distribution.
- Thin pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.		 mm	 mm	 mm	max. t	mit with	
<b>20-10-SP</b>	-461514	120	100/200/250/350	17	4	1-91-P, 1-191-P, 1-251-P	
<b>20-20-SP</b>	-701856	200	150/300	22	5	2-151-P, 2-301-P	
<b>20-30-SP</b>	-701931	350	200/300/400	27	7	3-201-P, 3-301-P, 3-401-P	

## Set of two- and three-arm pullers with narrow jaws

ST

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

# K-2030-10-S









### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- 8 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.
- Thin pulling hooks.
- Jaw extensions.
- Pulling hooks with infinite adjustment on the cross-beam.

### Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.

Art.-No.		 mm	 mm	max. t	 mm			
<b>K-2030-10-S</b>	-306181	120 - 130	100 - 350	4,0	17	20-10-SP, 30-10-SP, 614250	L-Boxx	

## Set of two- and three-arm pullers with narrow jaws

ST

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

# K-2030-20-S








### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- 6 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.
- Thin pulling hooks.
- Jaw extensions.
- Pulling hooks with infinite adjustment on the cross-beam.

### Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.

Art.-No.		 mm	 mm	max. t	 mm		
<b>K-2030-20-S</b>	-123276	200	150 - 450	5	24	L-Boxx	

## Universal 3-jaw puller with narrow jaws

ST

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

# 30-S








### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20-S for optimal force distribution.
- Thin pulling hooks.
- Pulling hooks with infinite adjustment on the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art.-No.					max.	 max.	
		mm	mm	mm	t	Nm	
30-1-S	-727771	90	100	17	3	40	
30-10-S	-728198	120	100	17	3	40	
30-2-S	-727856	160	150	22	5	120	
30-20-S	-727931	200	150	22	5	120	
30-3-S	-728013	250	200	27	7	220	

## Universal 3-jaw puller with narrow jaws, in set

ST

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

# 30-SP








### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20-SP for optimal force distribution.
- Thin pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art.-No.					max.	 max.	mit with	
		mm	mm	mm	t	Nm		
30-10-SP	-463839	120	100/200/250/350	17	3	40	1-91-S, 1-191-S, 1-251-S	
30-20-SP	-728273	200	150/300	22	5	120	2-151-S, 2-301-S	
30-3-SP	-728358	250	200/300/400	27	7	220	3-201-S, 3-301-S, 3-401-S	





## Universal 2-jaw puller with extremely narrow jaws

ST

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

# 20-S-T








### Description

- If there is adequate free space around the part to be removed, we recommend a 3-jaw puller Baureihe 30-S-T for optimal force distribution.
- Extra-thin trapezoidal pulling hooks.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.					max.		
		mm	mm	mm	t	Nm	
20-1-S-T	-321641	90	100	17	2,5	35	
20-10-S-T	-201097	120	100	17	2,5	35	

## 2-jaw puller with extremely narrow jaws, in set

ST

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

# 20-SP-T







### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- Extra-thin trapezoidal pulling hooks.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.					max.	mit with	
		mm	mm	mm	t		
20-10-SP-T	-321658	120	100/200/250/350	17	4,0	1-94-P, 1-194-P, 1-254-P	

## Set of universal 2- and 3-arm pullers with extremely narrow jaws

ST

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

# K-2030-10-S-T








### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- 8 in 1 kit in the tried-and-tested KUKKO-L-Boxx-System.
- Extra-thin trapezoidal pulling hooks.
- Jaw extensions.
- Pulling hooks with infinite adjustment on the cross-beam.

### Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.

Art.-No.				max.			
		mm	mm	t			
K-2030-10-S-T	-852022	120 - 130	100 - 350	4,0	20-10-SP-T, 30-10-SP-T, 614250	L-Boxx	



## Universal 3-jaw puller with extremely narrow jaws

ST

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

# 30-S-T








### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20-S-T for optimal force distribution.
- Extra-thin trapezoidal pulling hooks.
- Pulling hooks with infinite adjustment on the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art.-No.					max.	 max.	
		mm	mm	mm	t	Nm	
30-1-S-T	-321689	90	100	17	3	40	
30-10-S-T	-321696	120	100	17	3	40	

## 3-jaw puller with extremely narrow jaws, in set

ST

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

# 30-SP-T








### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20-SP for optimal force distribution.
- Thin pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to optional jaw extensions.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art.-No.					max.	 max.	
		mm	mm	mm	t	Nm	
30-10-SP-T	-770272	130	100/200/250/350	17	3	40	



## Universal 2-jaw puller with quick adjusting jaws

ST

For removing bearings, gears, discs, etc.

20+








### Description

- If there is adequate free space around the part to be removed, we recommend a 3-jaw puller series 30+ for optimal force distribution.
- Standard pulling hook with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.

Art.-No.					max. t	 max. Nm	
20-1+	-644771	90	100	17	4,5	80	
20-10+	-644856	120	100	17	4,5	80	
20-2+	-644931	160	150	22	6	150	
20-20+	-645013	200	150	22	6	150	
20-3+	-645198	250	200	27	8,5	300	
20-30+	-645273	350	200	27	8,5	300	

## Universal 2-jaw puller with long hydraulic spindle and quick adjusting jaws(including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

20+B







### Description

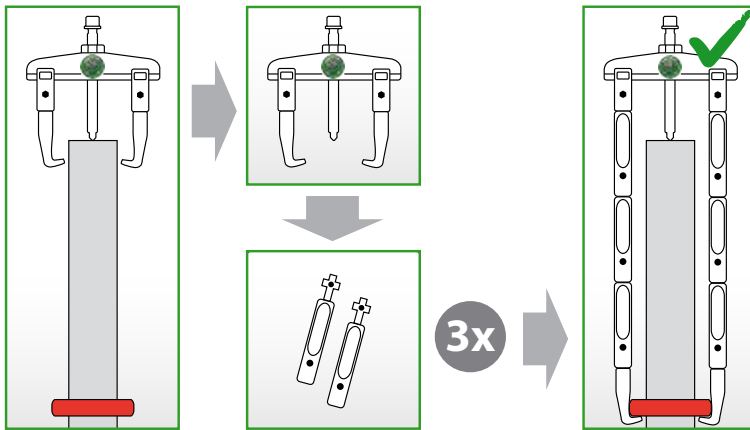
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 30+B.
- Lubricating hydraulics.
- Standard pulling hook with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- Hydraulic and mechanical pressure screw.

### Advantage

- Easy and even pulling for particularly tight parts.
- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam, up to size -30, includes hexagonal profile for holding.

Art.-No.					max. t	mit with	
20-2+B	-885792	160	150	12	7	8-01	
20-20+B	-885822	200	150	12	7	8-01	
20-3+B	-885853	250	200	12	10	8-02	
20-30+B	-885907	350	200	12	10	8-02	

## TIP: Modular extensions

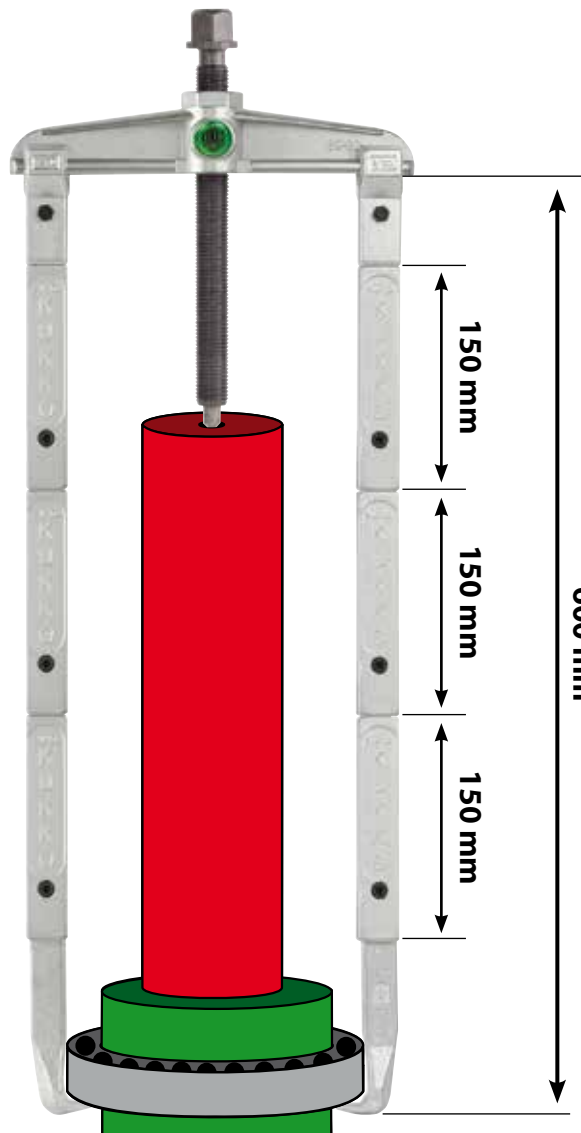


For the 20 and 30 series, we offer modular extensions. If the part to be removed sits deep inside a shaft, jaw extensions will be needed.

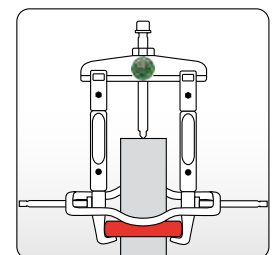
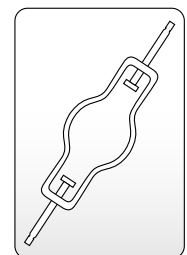
see: ACCESSORIES EXTERNAL PULLING.

<b>20-1</b>	<b>30-1</b>	100
<b>20-10</b>	<b>30-10</b>	100
<b>20-2</b>	<b>30-2</b>	150
<b>20-20</b>	<b>30-20</b>	150

Art.-No.	mm	für for
<b>1-V-100</b>	100	20-1; 20-10 30-1; 30-10
<b>1-V-150</b>	150	20-1; 20-10 30-1; 30-10
<b>2-V-150</b>	150	20-2; 20-20 30-2; 30-20



The side clamp is available separately (No. 219-1). It is attached to the puller jaw after the puller has been fitted and prevents slippage of the puller jaw under very high forces.





## Sales display for 2-jaw pullers

For removing bearings, gears, discs, etc.

# 20-ST+







### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- The sales and workshop stands enable 2-jaw pullers to be stored and presented safely.
- Standard pulling hook with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.

Art.-No.		 mm	 mm	max. t		Stück pieces	
20-ST+	-668944	90 - 250	100 - 200	4,5 - 8,5	20-1+, 20-10+, 20-2+, 20-20+, 20-3+, 20-STL	5	

## Universal puller set with separator

For removing and separating ball bearings, roller bearings, inner rings and other flush parts.

# K-20-15









### Description

- Lubricating hydraulics.
- Standard pulling hook with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- Hydraulic and mechanical pressure screw.
- Pressure pads and extensions includes in the set.

### Advantage

- Hydraulic spindle can be used for both cross-beams.
- Easy and even pulling for particularly tight parts.
- Can be installed on various pulling hooks.
- Variable reach with jaw extensions.
- Spindle head band prevents the wrench from slipping off.

Art.-No.		 mm	 mm	 mm	max. t			
K-20-15	-367311	90 - 160	100 - 300	22 - 115	4,5 - 6,0	20-1+, 20-2+, 1-192-P, 2-302-P, 8-01, 600-17, 15-2, 18-2	L-Boxx (2 Stk./ pcs.)	

## Universal 3-jaw puller with quick adjusting jaws

ST

For removing bearings, gears, discs, etc.

# 30+








### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20+ for optimal force distribution.
- Standard pulling hook with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.

Art.-No.					max.	 max.	
		mm	mm	mm	t	Nm	
30-1+	-731488	90	100	17	6	80	
30-10+	-731556	120	100	17	6	80	
30-2+	-731631	160	150	22	7	150	
30-20+	-731716	200	150	22	7	150	
30-3+	-731891	250	200	27	10	250	
30-30+	-303333	350	200	27	10	250	

## Universal 3-jaw puller with long hydraulic spindle and quick adjusting jaws(including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

# 30+B







### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20+B.
- Lubricating hydraulics.
- Standard pulling hook with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- Hydraulic and mechanical pressure screw.

### Advantage

- Easy and even pulling for particularly tight parts.
- Can be installed on various pulling hooks.
- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.					max.	mit with	
		mm	mm	mm	t		
30-2+B	-886294	160	150	12	7	8-01	
30-20+B	-886324	200	150	12	7	8-01	
30-3+B	-886355	250	200	12	10	8-02	
30-30+B	-303067	350	200	12	10	8-02	





## Universal 2-jaw puller with narrow, quick adjusting jaws

ST

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

# 20+S



### Description

- If there is adequate free space around the part to be removed, we recommend a 3-jaw puller series 30+S for optimal force distribution.
- Thin pulling hook with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.					max.		
		mm	mm	mm	t	max. Nm	
20-1+S	-756221	90	100	17	2,5	35	
20-10+S	-756306	120	100	17	2,5	35	
20-2+S	-756481	160	150	22	5	120	
20-20+S	-756559	200	150	22	5	120	
20-3+S	-756634	250	200	27	7	220	
20-30+S	-756719	350	200	27	7	220	

## Universal 3-jaw puller with narrow, quick adjusting jaws

ST

For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

# 30+S



### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20+S for optimal force distribution.
- Thin pulling hook with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art.-No.					max.		
		mm	mm	mm	t	max. Nm	
30-1+S	-756894	90	100	17	3	40	
30-10+S	-756979	120	100	17	3	40	
30-2+S	-757051	160	150	22	5	120	
30-20+S	-757136	200	150	22	5	120	
30-3+S	-757211	250	200	27	7	220	



## Universal 2-jaw puller with extremely narrow, quick adjusting jaws

ST

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

# 20+S-T








### Description

- If there is adequate free space around the part to be removed, we recommend a 3-jaw puller series 30+S-T for optimal force distribution.
- Extra-thin trapezoidal pulling hook with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Spindle head band prevents the wrench from slipping off.
- Cross-beam with hexagonal profile for good grip.
- Turning the pulling hooks enables them to be used both internally and externally.

Art.-No.					max.	 max.	
		mm	mm	mm	t	Nm	
20-1+S-T	-321344	90	100	17	2,5	35	
20-10+S-T	-321368	120	100	17	2,5	35	

## Universal 3-jaw puller with extremely narrow, quick adjusting jaws

ST

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

# 30+ST








### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 20+S-T for optimal force distribution.
- Extra-thin trapezoidal pulling hook with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Can be installed on various pulling hooks.
- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.

Art.-No.					max.	 max.	
		mm	mm	mm	t	Nm	
30-1+S-T	-321320	90	100	17	3	40	
30-10+S-T	-321337	130	100	17	3	40	



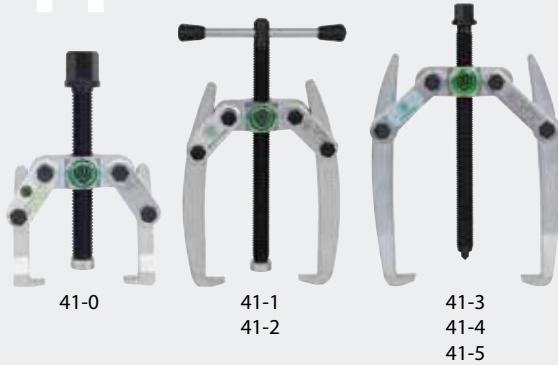
## Pullers with swivelling jaws

### Universal 2-jaw puller with swiveling jaws

ST

For removing bearings, gears, discs, etc.

# 41








#### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 42 for optimal force distribution.
- Rotating standard puller hook.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.					max.		
		mm	mm	mm	t	max. Nm	
41-0	-362859	60	40	13	1,0	25	
41-1	-015038	65	65	-	1,0	25	
41-2	-015113	80	80	-	1,5	25	
41-3	-787829	90	120	13	3,0	40	
41-4	-836268	130	160	17	5,0	85	
41-5	-836343	180	200	22	7,0	150	

### Universal 2-jaw puller with long hydraulic spindle(including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

# 41-B







#### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 42 for optimal force distribution.
- Lubricating hydraulics.
- Rotating standard puller hook.
- Two-arm design for space-saving operation.
- Hydraulic spindle and mechanical pressure screw.

#### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.					max.	mit with	
		mm	mm	mm	t		
41-5-B	-887345	180	200	22	7	8-01	

## Universal 3-jaw puller with swiveling jaws

ST

For removing bearings, gears, discs, etc.

# 42








### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 41.
- Rotating standard puller hook.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.

### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
42-0	-362026	60	40	13	1,5	25	
42-1	-015298	65	65	-	1,5	25	
42-2	-015373	80	80	-	1,5	25	
42-3	-787904	90	120	13	3,0	40	
42-4	-836428	130	160	17	5,0	85	
42-5	-836596	180	200	22	7,0	150	

## 3-jaw puller with long hydraulic spindle(including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

# 42-B







### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 41 for optimal force distribution.
- Lubricating hydraulics.
- Rotating standard puller hook.
- Hydraulic spindle and mechanical pressure screw.
- Milled thread treated with special coating.

### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		 mm	 mm	 mm	max. t	mit with	
42-5-B	-887352	180	200	22	7	8-01	



## Universal 2-jaw puller with swiveling jaws

ST

For pulling tight-fitting bearings, gears, discs, etc.

46








### Description

- Rotating standard puller hook.
- Two-arm design for space-saving operation.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 47 for optimal distribution of force.
- Mechanical pressure screw.
- Milled thread treated with special coating.

### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8 for particularly tight-fitting parts also available as an option.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
46-1-A	-016936	300	300	36	12	450	
46-2-A	-017193	500	450	36	12	450	

## Universal 2-jaw puller with long hydraulic spindle and swiveling jaws(including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

46








### Description

- Lubricating hydraulics.
- Rotating standard puller hook.
- Two-arm design for space-saving operation.
- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 47 for optimal distribution of force.
- Hydraulic spindle and mechanical pressure screw.

### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	mit with	
46-1-B	-017018	300	300	36	15	45	8-1-F	
46-2-B	-017278	500	450	36	15	45	8-1-F	



## Universal 3-jaw puller with swiveling jaws

For pulling tight-fitting bearings, gears, discs, etc.

# 47








### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 46 for optimal distribution of force.
- Rotating standard puller hook.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.

### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8 for particularly tight-fitting parts also available as an option.
- Hydraulic extra press series 9 available as an option for particularly tight parts.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
47-1-A	-017681	300	300	36	12	450	
47-2-A	-017841	500	450	36	12	450	

## Universal 3-jaw puller with long hydraulic spindle and swiveling jaws(including mechanical pressure screw)

For pulling particularly tight bearings, gears, discs, etc.

# 47








### Description

- Lubricating hydraulics.
- Rotating standard puller hook.
- Two-arm design for space-saving operation.
- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 46.
- Hydraulic spindle and mechanical pressure screw.

### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	mit with	
47-1-B	-017766	300	300	36	15	45	8-1-F	
47-2-B	-017926	500	450	36	15	45	8-1-F	





## Universal 2-jaw puller with adjustable reach and swiveling jaws

ST

For removing bearings, gears, discs, etc.

# 205









### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 206 for optimal force distribution.
- Rotating standard puller hook.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable clamping depths.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.

Art.-No.		 mm	 mm		 mm	max. t	 max. Nm	
<b>205-00</b>	-028571	100	100	2	13	3,5	50	
<b>205-01</b>	-028656	150	150	2	17	5	120	
<b>205-02</b>	-028731	250	220	2	22	7	150	
<b>205-1</b>	-028816	300	280	2	27	10	280	
<b>205-2</b>	-028991	400	400	3	27	10	300	
<b>205-3</b>	-029073	500	540	3	27	12	320	

## Universal 2-jaw puller with adjustable reach, long hydraulic spindle and swiveling jaws(including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

# 205-B







### Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 206-B for optimal force distribution.
- Rotating standard puller hook.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.
- Mechanical pressure screw.

### Advantage

- Easy and even pulling for particularly tight parts.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable clamping depths.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm		max. t	mit with	
<b>205-02-B</b>	-886072	250	220	2	7	8-01	
<b>205-1-B</b>	-886089	300	280	2	12	8-02	
<b>205-2-B</b>	-886096	400	400	3	12	8-02	
<b>205-3-B</b>	-886102	500	540	3	12	8-02	

## Universal 3-jaw puller with adjustable reach and adjustable swiveling jaws

ST

For removing bearings, gears, discs, etc.

# 206









### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 205.
- Rotating standard puller hook.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.

### Advantage

- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable clamping depths.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic spindle series 8-0 for particularly tight parts, available from a particular puller size.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.

Art.-No.		 mm	 mm		 mm	max. t	 max. Nm	
<b>206-00</b>	-029158	100	100	2	13	3,5	50	
<b>206-01</b>	-029233	150	150	2	17	5	120	
<b>206-02</b>	-029318	250	220	2	22	7	150	
<b>206-1</b>	-029493	300	280	2	27	10	280	
<b>206-2</b>	-029561	400	400	3	27	10	300	
<b>206-3</b>	-029646	500	540	3	27	12	320	

## Universal 3-jaw puller with adjustable reach, long hydraulic spindle and swiveling jaws(including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

# 206-B







### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 205-B.
- Rotating standard puller hook.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Lubricating hydraulics.

### Advantage

- Easy and even pulling for particularly tight parts.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable clamping depths.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm		max. t	mit with	
<b>206-02-B</b>	-886119	100	100	2	7	8-01	
<b>206-1-B</b>	-412448	300	280	2	10	8-02	
<b>206-2-B</b>	-886126	400	400	3	10	8-02	
<b>206-3-B</b>	-886133	500	540	3	12	8-02	



### 3-jaw combination puller with adjustable reach and swiveling jaws

ST

For removing bearings, gears, discs, etc.

# 207









#### Description

- Rotating puller hook.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.

#### Advantage

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
- Universal application thanks to adjustable clamping depths up to a certain size.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm		 mm	max. t	 max. Nm	
<b>207-00</b>	-029721	120	100	2	13	3,5	50	
<b>207-01</b>	-029806	200	150	2	17	5	120	
<b>207-02</b>	-029981	300	220	2	22	7	150	
<b>207-1</b>	-030048	400	280	2	27	10	280	
<b>207-2</b>	-030123	450	400	3	27	10	300	
<b>207-3</b>	-030208	550	540	3	27	12	320	
<b>207-65</b>	-880100	650	650	1	41	15	400	
<b>207-80</b>	-880117	800	800	1	41	15	400	
<b>207-95</b>	-880094	1000	1000	1	41	15	400	

### 3-jaw combination puller with adjustable reach, long hydraulic spindle and swiveling jaws(including mechanical pressure screw)

ST

For pulling particularly tight bearings, gears, discs, etc.

# 207-B







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TECHNOLOGY

#### Description

- Rotating standard puller hook.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Lubricating hydraulics.
- Milled thread treated with special coating.

#### Advantage

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
- Easy and even pulling for particularly tight parts.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable clamping depths.
- Spindle head band prevents the wrench from slipping off.

Art.-No.		 mm	 mm		max. t	mit with	
<b>207-02-B</b>	-886140	300	170	2	7	8-01	
<b>207-1-B</b>	-886157	400	230	2	10	8-02	
<b>207-2-B</b>	-886164	450	350	3	10	8-02	
<b>207-3-B</b>	-886171	550	490	3	12	8-02	



## 2-jaw pullers for roller bearings, swedish model

ST

For removing bearings, gears, discs, etc.

112








### Description

- Standard pulling hook.
- Automatic self-centering pulling hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

### Advantage

- Quick adjustment of the spread by a knurled cone.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
112-1	-418143	55	45	8	1,5	25	
112-10	-418891	65	70	8	1,5	25	
112-2	-419218	90	70	17	3	55	
112-20	-420283	100	100	17	3	55	
112-3	-420368	185	165	17	4	65	

## 3-arm pullers for roller bearings, swedish model

ST

For removing bearings, gears, discs, etc.

113








### Description

- Standard pulling hook.
- Automatic self-centering pulling hooks.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Milled thread treated with special coating.

### Advantage

- Quick adjustment of the spread by a knurled cone.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
113-20	-422423	125	100	17	3	45	
113-3	-422751	185	165	17	4	60	



## Pullers with self-centering jaws

### 2-jaw pullers with quick adjusting capability and T-jaws with claw feet

ST

For tight spaces when pulling sprockets, bearings and similar parts.

14








#### Description

- Shears - pulling hooks.
- Parallel pulling hooks in every position, even with full load.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.

#### Advantage

- Self-securing locking pins do not fall out during work.
- Clamping widths and depths can be selected on an individual basis.
- Puller is self-tensioning and easy to handle.
- Extremely high clamping width range thanks to variable assembly of puller jaws.
- Shear-style hook design presses into the claw-style feet when pulling the part to be removed.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
14-01	-459559	6 - 100	85	13	1	30	
14-03	-460111	5 - 140	160	17	2	40	
14-1	-455421	6 - 100	85	13	2,5	50	
14-2	-248443	10 - 140	125	17	3,5	80	
14-3	-248511	15 - 140	160	17	4,5	100	

### 2-jaw small part puller with self-centering jaws

ST

For removing particularly small bearings, gears or discs, etc. for tight or difficult-to-access spaces.

43-001









#### Description

- Thin pulling hooks.
- Automatic self-centering pulling hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- This handy, space-saving model is particularly suited for vehicle electrical equipment, electrical workshops, compressed air repair processes and other similar applications.
- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm	 mm	 mm	 mm	
43-001	-913518	60	50	1,5	10	4,5	

**3-jaw small part puller with self-centering jaws****ST**

For removing particularly small bearings, gears or discs, etc. for tight or difficult-to-access spaces.

43-011

**Description**

- Thin pulling hooks.
- Automatic self-centering pulling hooks.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Milled thread treated with special coating.

**Advantage**

- This handy, space-saving model is particularly suited for vehicle electrical equipment, electrical workshops, compressed air repair processes and other similar applications.
- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.						
		mm	mm	mm	mm	mm
43-011	-913501	60	50	1,5	10	4,5

**Universal 2-jaw puller with self-centering jaws****ST**

For removing small bearings, gears or discs, etc. for tight or difficult-to-access spaces.

43

**Description**

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller.
- Thin pulling hooks.
- Automatic self-centering pulling hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.

**Advantage**

- This handy, space-saving model is particularly suited for vehicle electrical equipment, electrical workshops, compressed air repair processes and other similar applications.
- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.				max.	
		mm	mm	t	Nm
43-1	-015458	60	50	1	25
43-2	-015861	70	70	1	25
43-3	-015946	80	80	1	25

**Universal 3-jaw puller with self-centering jaws****ST**

Moving special press cap enables sloping workpieces up to 35° to be clamped.

43

**Description**

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller.
- Thin pulling hooks.
- Automatic self-centering pulling hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.

**Advantage**

- This handy, space-saving model is particularly suited for vehicle electrical equipment, electrical workshops, compressed air repair processes and other similar applications.
- The thin pulling hooks are suitable for narrow, difficult-to-access locations.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.				max.	
		mm	mm	t	Nm
43-11	-015526	60	50	1,5	25
43-12	-015601	70	70	1,5	25
43-13	-015786	80	80	1,5	25





## Universal 2-jaw puller with self-centering jaws

ST

For removing bearings, gears, discs, etc.

44








### Description

- If there is adequate free space around the part to be removed, we recommend a 3-jaw puller series 45 for optimal force distribution.
- Standard pulling hook.
- Automatic self-centering pulling hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.

### Advantage

- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
44-1	-016028	100	100	13	3	50	
44-2	-016103	120	120	17	5	85	
44-3	-016288	160	160	19	6	140	
44-4	-016363	250	200	24	7	190	
44-5	-815133	300	250	24	9,5	200	
44-6	-815218	375	275	24	9,5	200	

## Universal 3-jaw puller with self-centering jaws

ST

For removing bearings, gears, discs, etc.

45







### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 44.
- Standard pulling hook.
- Automatic self-centering pulling hooks.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.

### Advantage

- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm	max. t	 max. Nm	
45-1	-016448	100	100	4	50	
45-2	-016516	120	120	6	120	
45-3	-016691	160	160	8	180	
45-4	-016776	250	200	9,5	200	
45-5	-815393	300	250	9,5	200	
45-6	-815478	375	275	9,5	200	
45-7	-821646	600	350	9,5	200	

## Universal 2-jaw pullers with Auto-Snap

ST

# 482








### Description

- Thanks to the integrated force transmission via the spring mechanism, the clamping force increases in proportion to the pulling force.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.

### Advantage

- The elastic effect and slim design enables parts to be pulled in difficult-to-reach places.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.					max. t	 max. Nm	
482-1	-479779	60	40	-	1,5	25	
482-2	-479854	85	90	-	1,5	25	
482-3	-479939	150	150	10	2,5	35	
482-4	-480096	200	200	13	3	40	
482-5	-480171	250	250	13	3	40	

## Universal 2-jaw pullers with Auto-Snap

ST

# 483








### Description

- Thanks to the integrated force transmission via the spring mechanism, the clamping force increases in proportion to the pulling force.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.

### Advantage

- The elastic effect and slim design enables parts to be pulled in difficult-to-reach places.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.					max. t	 max. Nm	
483-2	-480331	85	90	-	1,5	25	
483-3	-480416	150	150	10	2,5	35	
483-4	-480584	200	200	13	3	40	
483-5	-480669	250	250	13	3	40	

## 2-jaw Auto-Snap pullers in display package

ST

# 482






### Description

- Thanks to the integrated force transmission via the spring mechanism, the clamping force increases in proportion to the pulling force.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.

### Advantage

- The elastic effect and slim design enables parts to be pulled in difficult-to-reach places.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.			Stück pieces		
K-482	-123245	482-1, 482-2, 482-3	3	i-Boxx	



## Puller with cone-driven spread adjuster

### 2-jaw puller with cone-driven spread adjuster

ST

For removing bearings, gears, discs, etc.

# 220






#### Description

- Standard pulling hook.
- Automatic self-centering pulling hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Quick adjustment of the spread by a knurled cone.
- Turning the pulling hooks enables them to be used both internally and externally.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		 mm	 mm	
220-02	-778919	200	165	

### 3-jaw puller with cone-driven spread adjuster

ST

For removing bearings, gears, discs, etc.

# 220-03






#### Description

- Standard pulling hook.
- Automatic self-centering pulling hooks.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Quick adjustment of the spread by a knurled cone.
- Turning the pulling hooks enables them to be used both internally and externally.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		 mm	 mm	
220-03	-779091	200	165	

### Universal puller with slide hammer

ST

For removing bearings, gears, discs, etc.

# 220



220





220-K

#### Description

- Automatic self-centering pulling hooks.

#### Advantage

- Quick adjustment of the spread by a knurled cone.
- Turning the pulling hooks enables them to be used both internally and externally.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		 mm	 mm		
220	-030611	0 - 200	165	220-02, 220-03	
220-K	-874055	0 - 200	165	220-02, 220-03	



## Pullers with reversible jaws

## 2-jaw pullers with reversible double-end jaws

ST

For removing bearings, gears, discs, etc.

201

201-0  
201-1  
201-3  
201-4

201-2

## Description

- If there is adequate free space around the part, we recommend a 3-jaw puller series 202 for optimal force distribution.
- Rotating and reversible puller hooks.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

## Advantage

- The pulling hooks are reversible and can be used on both sides with various different types of hooks.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.							max. t	max. Nm	
		mm	mm		mm	mm			
201-0	-026423	100	75	1	-	14	1,5	25	
201-1	-026591	150	85	1	-	17	5	75	
201-2	-026676	220	130	1	8	22	7	150	
201-3	-026751	300	260	2	-	27	10	250	
201-4	-026836	380	300	2	-	27	10	250	

## 3-arm pullers with reversible double-end jaws

ST

For removing bearings, gears, discs, etc.

202



## Description

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 201 for optimal force distribution.
- Rotating and reversible puller hooks.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.

## Advantage

- The pulling hooks are reversible and can be used on both sides with various different types of hooks.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.							max. t	max. Nm	
		mm	mm		mm	mm			
202-0	-027093	100	75	1	-	14	1,5	25	
202-1	-027178	150	85	1	-	17	5	75	
202-2	-027253	220	130	1	8	22	7	150	
202-3	-027338	300	260	2	-	27	10	250	
202-4	-027413	380	300	2	-	27	10	250	



### 3-arm combination pullers with reversible double-end jaws

ST

For removing bearings, gears, discs, etc.

# 203









#### Description

- Rotating and reversible puller hooks.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.

#### Advantage

- Combi-pullers can be used as a 3-jaw and 2-jaw puller.
- The pulling hooks are reversible and can be used on both sides with various different types of hooks.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Spindle head band prevents the wrench from slipping off.
- Hydraulic extra press series 9 for particularly tight parts, can be used from a particular puller size.

Art.-No.		 mm	 mm	 x	 mm	max. t	 max. Nm	
<b>203-0</b>	-027666	120	75	1	14	1,5	25	
<b>203-1</b>	-027741	180	85	1	17	5	75	
<b>203-2</b>	-027826	280	130	1	22	7	150	
<b>203-3</b>	-027901	350	260	2	27	10	250	
<b>203-4</b>	-028083	400	300	2	27	10	250	

### 2-jaw puller for fan wheels

ST

The extra thin hooks move through the two slits and grip the fan's collar.

# 201-S









#### Description

- The pulling hooks are reversible and can be used on both sides with various different types of hooks.
- The multiple boreholes in the pulling hooks enable users to work with variable reach.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- Double-sided hooks.
- Universal application thanks to adjustable clamping depths and two types of hook.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm	 x	 mm	max. t	 max. Nm	
<b>201-S</b>	-026911	200	200	3	17	1,5	30	

### 3-arm puller for fan wheels

ST

The extra thin hooks move through the three slits and grip the fan's collar.

# 202-S









#### Description

- The pulling hooks are reversible and can be used on both sides with various different types of hooks.
- The multiple boreholes in the pulling hooks enable users to work with variable reach.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.

#### Advantage

- Double-sided hooks.
- Universal application thanks to adjustable clamping depths and two types of hook.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm	 x	 mm	max. t	 max. Nm	
<b>202-S</b>	-027581	200	200	3	17	2	35	



## Pullers with side clamp

### 2-jaw bearing pullers „Cobra“ with separating claw and side clamp

ST

For removing tight ball bearings, bearing rings and workpieces.

# 204-0








#### Description

- Note: Pressure pads from series 600-17 are a good addition if the shaft is hollow and the spindle cannot be supported.
- Puller hooks are specially hardened and smoothed.
- Clamps increase the pressure of the hooks significantly.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.

#### Advantage

- No cut-off grinding, chiselling or hammering required
- Safe, fast and efficient disassembly.
- Format W 85 mm x H 65 mm
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
204-0	-028168	50	70	-	1	10	
204-02	-339516	90	100	22	4	75	

### Universal 2-jaw pullers with side clamp

ST

For removing particularly tight ball bearings, bearing rings and workpieces.

# 204








#### Description

- Note: Pressure pads from series 600-17 are a good addition if the shaft is hollow and the spindle cannot be supported.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

#### Advantage

- Clamps increase the pressure of the hooks significantly and prevent the puller from slipping.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm	 mm	max. t	 max. Nm	
204-1	-028243	80	90	19	5	100	
204-2	-028328	100	100	22	6	120	
204-3	-028403	150	140	24	7,5	175	



## 2-jaw separator pullers „Cobra“ with adjustable reach

ST

For pulling bearings, gears, discs, etc. that are lying flat against one another.

# 210









### Description

- The pulling hooks are reversible and can be used on both sides with various different types of hooks. One side features normal pulling claws and the other, separating claws.
- The multiple boreholes in the pulling hooks enable users to work with variable reach.
- With integrated clamp.
- Two-arm design for space-saving operation.
- Note: If there is adequate free space around the part to be removed, we recommend a separator blade series 15 or series 17 for optimal force distribution.

### Advantage

- Double-sided hooks.
- Universal application thanks to adjustable clamping depths and two types of hook.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm		 mm	max. t	 max. Nm	
<b>210-1</b>	-030383	95	170	4	22	5	100	
<b>210-2</b>	-030468	135	270	5	24	8	140	
<b>210-3</b>	-030536	150	325	5	24	10	200	

## Universal puller set with side clamp

ST

# K-204-02-210-1









### Description

- The legs of the puller feature an adjustable height, are partially invertible, and have standard pulling and separating claws.
- Collar can be used for both pullers and provides additional stability and support for the separation process.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

### Advantage

- Set includes tool for performing the application.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

Art.-No.		 mm	 mm	 mm			
<b>K-204-02-210-1</b>	-038464	90 - 100	100 - 170	17, 22	5	204-2, 210-1, 225-150	





## Pullers with adjustable jaws

### 3-jaw „alligator“ pullers with pre-settable jaws

ST

For removing bearings, gears, discs, etc.

12



**SELFLOCK**  
TECHNOLOGY



#### Description

- Standard pulling hook.
- Moving and slipping is prevented by self lock.
- The three-arm design ensures that the load is distributed evenly and that the part to be removed is held securely.
- Mechanical pressure screw.
- Milled thread treated with special coating.

#### Advantage

- The Alligator conversions ensure that the pulling hooks can only be opened and closed by operating the adjustment spanner. The grip of the conversions is therefore as strong as an alligator's bite.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.					max.	max.	
		mm	mm	mm	t	Nm	
12-1	-006616	100	100	17	8	180	
12-2	-006791	150	125	19	9	190	
12-3	-006876	200	165	24	10	250	

### 3-jaw „Tirax“ puller with pre-settable jaws for inside and outside pulling

ST

12



**SELFLOCK**  
TECHNOLOGY

Art.-No.					max.	max.	
		mm	mm	mm	t	Nm	
12-4	-850509	250	225	27	10	300	
12-5	-850684	350	275	27	10	300	
12-6	-850769	450	300	36	10	280	
12-7	-850844	650	350	36	10	280	



## Puller Economy

### Universal 2-jaw pullers „Vario“

For removing bearings, gears, discs, etc.

# 120







#### Description

- Standard pulling hook.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.
- Mechanical pressure screw.

#### Advantage

- The end stop protects the hook from slipping off the cross-beam.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		 mm	 mm	 mm	
<b>120-1</b>	-918551	100	100	17	
<b>120-10</b>	-918599	125	100	17	
<b>120-2</b>	-918636	150	150	17	
<b>120-20</b>	-918674	200	150	17	
<b>120-3</b>	-918711	250	200	24	
<b>120-30</b>	-918759	350	200	24	

### Sales display „Economy“

# 120-ST





#### Description

- The sales and workshop stands enable 2-jaw pullers to be stored and presented safely.
- Standard pulling hook.
- Two-arm design for space-saving operation.
- Pulling hooks with infinite adjustment on the cross-beam.
- Parallel pulling hooks in every position, even with full load.

#### Advantage





- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.			Stück pieces	
<b>120-ST</b>	-961489	120-1, 120-10, 120-2, 120-20, 120-3	5	

### Universal 3-arm pullers „Vario“

# 130



Art.-No.		 mm	 mm	 mm	
<b>130-10</b>	-918834	110	100	17	
<b>130-2</b>	-918872	150	150	17	
<b>130-20</b>	-918919	200	150	17	
<b>130-3</b>	-918957	250	200	24	

**Universal 2-jaw pullers „Techno“****ST**

For removing bearings, gears, discs, etc.





110

**Description**

- Standard pulling hook.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.
- Mechanical pressure screw.

**Advantage**

- The end stop protects the hook from slipping off the cross-beam.
- Spindle head band prevents the wrench from slipping off.
- Turning the pulling hooks enables them to be used both internally and externally.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		 mm	 mm	 mm	
110-01	-923753	50	50	10	
110-02	-923760	80	50	10	
110-1	-923777	100	100	17	
110-10	-923784	120	100	17	
110-2	-923791	160	150	19	
110-20	-923807	200	150	19	
110-3	-923814	250	200	22	
110-4	-956317	350	250	22	

**Universal 2-jaw „economy“ puller with adjustable reach, long hydraulic spindle and swiveling jaws****ST**

For pulling particularly tight bearings, gears, discs, etc.





208-2-B

**Description**

- If there is adequate free space around the part to be removed, we recommend using a 3-jaw puller series 206-B for optimal force distribution.
- Rotating standard puller hook.
- Two-arm design for space-saving operation.
- Lubricating hydraulics.
- Milled thread treated with special coating.

**Advantage**

- Easy and even pulling for particularly tight parts.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable clamping depths.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm	 x	max. t	
208-2-B	-432811	400	225 - 400	3	12	

**Universal 3-jaw „economy“ puller with adjustable reach, long hydraulic spindle and swiveling jaws****ST**

For pulling particularly tight bearings, gears, discs, etc.






209-2-B

**Description**

- Rotating standard puller hook.
- Two-arm design for space-saving operation.
- Mechanical pressure screw.
- Lubricating hydraulics.
- Milled thread treated with special coating.

**Advantage**

- Easy and even pulling for particularly tight parts.
- The larger the pulling force, the stronger the puller hook's grip on the workpiece to be removed.
- Universal application thanks to adjustable clamping depths.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm	 x	max. t	 max. Nm	
209-2-B	-432996	500	225 - 400	3	15	45	

# Mechanische Druckspindeln

## Mechanical pressure spindle



### Beschreibung

- KUKKO Druckspindeln mit gewalztem Gewinde sind speziell für die Verwendung in KUKKO-Abziehern entwickelt, um besonders hohe Abzugkräfte zu erreichen.
- Die Druckspindeln sind spezialbeschichtet und garantieren so eine besonders gute Gleiteigenschaft im Gewindegang.
- Die gelagerte, freidrehende Zentrierspitze schützt die Welle vor Beschädigungen beim Aufbringen der Abziehkraft.

### Vorteil

- Der Spindelkopf und der Spindelbund sind mit der Artikel-Nummer gelasert.
- Die Spindelköpfe sind mit einem Bund versehen, der verhindert, dass der Schraubenschlüssel beim Abziehvorgang abrutscht.

### Description

- KUKKO pressure spindles with milled thread have been specifically engineered for use in KUKKO pullers, in order to achieve particularly high tensile forces.
- The pressure spindles are specially coated and therefore guarantee particularly good sliding properties in the thread.
- The mounted, freely-rotating centering point protects the shaft against damage when applying the pulling force.

### Advantage

- The spindle head and the spindle band are lasered with the item number.
- The spindle heads have a band which prevents the wrench from slipping during the pulling process.

### Das richtige Ermitteln einer Ersatzspindel, wenn keine Artikelnummer vorhanden ist.

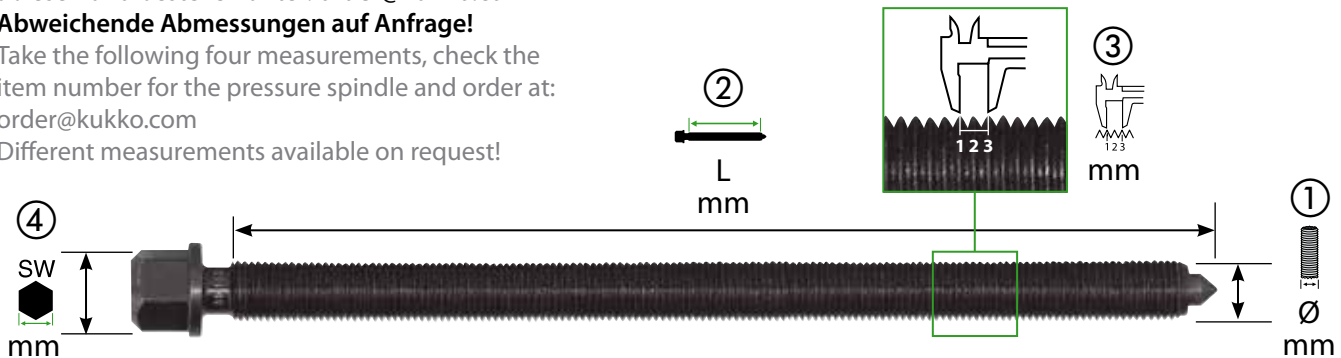
#### The correct determination of a replacement spindle if no item number is available.

Die folgenden 4 Maße abnehmen und in der nebenstehenden Tabelle die Artikelnummer der Druckspindel ablesen und bestellen unter: [order@kukko.com](mailto:order@kukko.com)

#### Abweichende Abmessungen auf Anfrage!

Take the following four measurements, check the item number for the pressure spindle and order at: [order@kukko.com](mailto:order@kukko.com)

Different measurements available on request!



① Messen Sie den Spindeldurchmesser.  
Measure the spindle diameter.



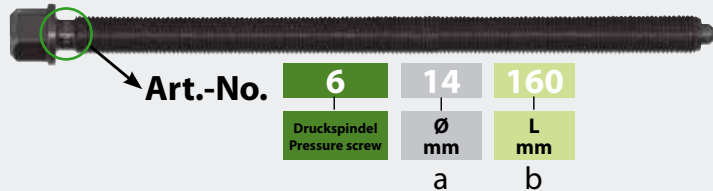
② Messen Sie die Gewindelänge bis zur Spindelspitze.  
Measure the thread length to the tip of the spindle.



③ Messen Sie die Länge über 3 Gewindegänge.  
Measure the length over three turns of the thread.



④ Messen Sie den Sechskant des Spindelkopfes.  
Measure the hexagon of the spindle head.



Art.-No.		passend zu/ suitable for	Gewinde/ thread	a mm	b mm	c mm	d mm						Preis-/ Price- Gr.
<b>608080</b>	-176241	48, 482-1	<b>M 8x1,25</b>	8	80	3,75	-	-	X	-	X	-	PG 1
<b>608130</b>	-481086	482-2, 483-2	<b>M 8x1,25</b>	8	130	3,75	-	-	X	-	X	-	PG 1
<b>609087</b>	-102493	41-1, 42-1, 43-1, 43-11, 43-12, 43-2	<b>M 9x1,25</b>	9	87	3,75	-	-	X	-	X	-	PG 1
<b>609105</b>	-101403	41-2, 42-2, 43-3, 43-13	<b>M 9x1,25</b>	9	105	3,75	-	-	X	-	X	-	PG 1
<b>610070</b>	-362446	41-0, 42-0	<b>M 10x1,5</b>	10	75	4,50	13	X	-	-	X	-	PG 1
<b>610094</b>	-122118	204-0	<b>M 10x1,5</b>	10	94	4,50	-	-	X	-	-	X	PG 1
<b>610110</b>	-433726	208-0, 209-0, 112-1, 112-10	<b>M 10x1,5</b>	10	120	4,50	8	X	-	-	-	X	PG 1
<b>612080</b>	-238468	201-0, 202-0, 203-0	<b>M 12x1,5</b>	12	85	4,50	14	X	-	X	-	-	PG 2
<b>612110</b>	-112881	205-00, 206-00, 207-00	<b>M 12x1,5</b>	12	110	4,50	13	X	-	X	-	-	PG 2
<b>612130</b>	-077081	18-0, 44-1, 45-1, 14-01, 14-1	<b>M 12x1,5</b>	12	130	4,50	13	X	-	X	-	-	PG 2
<b>612150</b>	-790201	41-3, 42-3	<b>M 12x1,5</b>	12	150	4,50	13	X	-	X	-	-	PG 2
<b>612200</b>	-480744	482-3, 483-3	<b>M 12x1,75</b>	12	210	5,25	10	X	-	-	-	X	PG 2
<b>614135</b>	-074271	12-1, 30-1, 30-1+, 30-10, 30-10+, 30-1-S, 30-10-S, 30-1+S, 30-10+S, 30-1-S-T, 30-10-S-T, 30-1+S-T, 30-10+S-T, 30-10SP, 32-1, 33, 34-0, 34-1, 110-1, 110-10, 112-2, 120-1, 120-10, 130-10, 201-1, 202-1, 203-1,	<b>M 14x1,5</b>	14	135	4,50	17	X	-	X	-	-	PG 2
<b>614160</b>	-112966	14-2, 20-1, 20-10, 20-1-S, 20-10-S, 20-1+S, 20-10+S, 20-1+, 20-10+, 20-1+S-T, 20-10+S-T, 20-1-2, 20-10-2, 20-1-S-T, 20-10-S-T, 20-10-SP, 20-10-P3, 20-10-V, 44-2, 45-2, 112-20, 113-20, 120-2, 130-2, 205-01, 206-01, 207-01, 208-01, 209-01,	<b>M 14x1,5</b>	14	160	4,50	17	X	-	X	-	-	PG 2
<b>614200</b>	-838576	14-3, 14-03 41-4, 42-4	<b>M 14x1,5</b>	14	200	4,50	17	X	-	X	-	-	PG 2
<b>614240</b>	-208188	70-2, 201-S, 202-S	<b>M 14x1,5</b>	14	240	4,50	17	X	-	X	-	-	PG 2
<b>614250</b>	-306709	K-2030-10, K-2030-10-S, K-2030-10-S-T	<b>M 14x1,5</b>	14	250	4,50	17	X	-	X	-	-	PG 2
<b>616220</b>	-420856	112-3, 113-3	<b>M 16x1,5</b>	16	220	4,50	17	X	-	X	-	-	PG 2
<b>616270</b>	-480829	482-4, 483-4	<b>M 16x2,0</b>	16	270	6,00	13	X	-	-	-	X	PG 2
<b>616325</b>	-480904	482-5, 483-5	<b>M 16x2,0</b>	16	325	6,00	13	X	-	-	-	X	PG 2
<b>618105</b>	-073779	204-1	<b>M 18x1,5</b>	18	105	4,50	19	X	-	X	-	-	PG 2
<b>618175</b>	-074356	12-2, 18-1, 32-2, 110-2, 110-20	<b>M 18x1,5</b>	18	175	4,50	19	X	-	X	-	-	PG 2
<b>618210</b>	-113048	44-3, 45-3	<b>M 18x1,5</b>	18	210	4,50	19	X	-	X	-	-	PG 2
<b>620162</b>	-816040	28-1	<b>M 20x2,5*</b>	20	160	7,50	24	X	X	-	-	X	PG 4
<b>620172</b>	-817946	28-2	<b>M 20x2,5*</b>	20	170	7,50	24	X	X	-	-	X	PG 5
<b>620230</b>	-818028	28-3	<b>M 20x2,5*</b>	20	230	7,50	24	X	X	-	-	X	PG 5
<b>620250</b>	-818103	28-4	<b>M 20x2,5*</b>	20	250	7,50	24	X	X	-	-	X	PG 5
<b>621130</b>	-124358	204-2, 204-02	<b>G 1/2" / 14"</b>	20,955	130	5,40	22	X	-	X	-	-	PG 3
<b>621220</b>	-268373	18-2, 20-2, 20-20, 20-2+, 20-2+S, 20-20+S, 20-20+, 20-2-S, 20-20-S, 20-2-3, 20-20-3, 20-20SP, 20-20-P2, 30-2, 30-20, 30-2+, 30-20+, 30-2+S, 30-20+S, 30-2-S, 30-20-S, 30-2-3, 30-20-3, 30-20SP, 30-20-P2, 31-1, 31-2, 200-U, 201-2, 202-2, 203-2, 205-02, 206-02, 207-02, 208-02, 209-02, 210-1	<b>G 1/2" / 14"</b>	20,955	210	5,40	22	X	-	X	-	-	PG 3
<b>621300</b>	-765346	41-5, 42-5, 110-3, 110-4	<b>G 1/2" / 14"</b>	20,955	300	5,40	22	X	-	X	-	-	PG 4
<b>621355</b>	-236228	70-4, 112-4, 113-4	<b>G 1/2" / 14"</b>	20,955	355	5,40	24	X	-	X	-	-	PG 4
<b>623230</b>	-074684	12-3, 120-3, 120-30, 130-3	<b>G 5/8" / 14"</b>	22,911	230	5,40	24	X	-	X	-	-	PG 5
<b>623260</b>	-113123	44-4, 45-4	<b>G 5/8" / 14"</b>	22,911	260	5,40	24	X	-	X	-	-	PG 5
<b>623325</b>	-125263	44-5, 45-5, 113-5, 210-2, 210-3	<b>G 5/8" / 14"</b>	22,911	325	5,40	24	X	-	X	-	-	PG 5
<b>623360</b>	-814976	44-6, 45-6	<b>G 5/8" / 14"</b>	22,911	400	5,40	24	X	-	X	-	-	PG 8
<b>623450</b>	-832796	45-7	<b>G 5/8" / 14"</b>	22,911	450	5,40	24	X	-	X	-	-	PG 7
<b>626300</b>	-765360	18-3, 20-3, 20-30, 20-3+, 20-30+, 20-3-S, 20-30-S, 20-3+S, 20-30+S, 20-3-3, 20-30-3, 20-3-4, 20-30-4, 20-3-5, 20-30-5, 20-30SP, 30-3, 30-30, 30-3+, 30-30+, 30-3-S, 30-3+S, 30-3-3, 30-30-3, 30-3-4, 30-30-4, 30-3-5, 30-30-5, 30-3-P3, 30-3SP, 201-3, 201-4, 202-3, 202-4, 203-3, 203-4, 205-1, 206-1, 207-1	<b>G 3/4" / 14"</b>	26,441	300	5,40	27	X	-	X	-	-	PG 5
<b>626400</b>	-125423	12-4, 205-2, 205-3, 206-2, 206-3, 207-2, 207-3	<b>G 3/4" / 14"</b>	26,441	400	5,40	27	X	-	X	-	-	PG 5
<b>626500</b>	-765377	12-5	<b>G 3/4" / 14"</b>	26,441	500	5,40	27	X	-	X	-	-	PG 7
<b>633400</b>	-765384	11-0, 18-4, 20-4, 46-1, 47-1	<b>G 1" / 14"</b>	33,249	400	6,90	36	X	-	X	-	-	PG 7
<b>633500</b>	-893452	20-AV, 46-2-A, 47-2-A	<b>G 1" / 14"</b>	33,249	500	6,90	36	X	-	X	-	-	PG 7
<b>633600</b>	-866388	12-6, 12-7	<b>G 1" / 14"</b>	33,249	600	6,90	36	X	-	X	-	-	PG 8
<b>637350</b>	-893469	11-1, 11-2, 30-40, 30-5	<b>G 1 1/8" / 14"</b>	37,897	350	6,90	41	X	-	X	-	-	PG 8
<b>637500</b>	-893469	15-E	<b>G 1 1/8" / 14"</b>	37,897	500	6,90	41	X	-	X	-	-	PG 9
<b>637600</b>	-169236	18-5, 20-5, 205-4, 207-4	<b>G 1 1/8" / 14"</b>	37,897	600	6,90	41	X	-	X	-	-	PG 9

\* Regelgewinde / coarse pitch thread



## Accessories External pulling

### Long hydraulic spindles

ST

For pulling particularly tight bearings, gears, discs, etc.

8



#### Description

- Lubricating hydraulics.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

#### Advantage

- Easy and even pulling for particularly tight parts.
- Can be combined with various mechanical pulling devices from the KUKKO range.
- Spindle head band prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		 mm	 mm	 mm	max. t	max. Nm	Bezeichnung description		
<b>8-1-B</b>	-034596	250	R1"	10	15	45	Spindel komplett	18-4, 20-4, 20-40	
<b>8-1-F</b>	-034671	350	R1"	10	15	45	Spindel komplett	46-1-A, 46-1-B, 46-2-A, 46-2-B, 47-1-A, 47-1-B, 47-2-A, 47-2-B	
<b>8-1</b>	-034428	-	-	10	15	45	Oberteil	8-1-B, 8-1-F	
<b>8-B</b>	-034183	-	-	-	-	-	Unterteil	8-1-B	
<b>8-F</b>	-034268	-	-	-	-	-	Unterteil	8-1-F	
<b>8-1-ERS</b>	-243721	-	-	-	-	-	Verschleiß-teilsatz	8-1	
<b>8-2-K</b>	-034831	250	R1/8"	10	20	30	Spindel komplett	11-1, 11-2	
<b>8-2-M</b>	-034916	350	R1/8"	10	20	30	Spindel komplett	18-5, 20-5	
<b>8-2</b>	-034756	-	-	10	20	30	Oberteil	8-2-K, 8-2-M	
<b>8-K</b>	-035098	-	-	-	-	-	Unterteil	8-2-K	
<b>8-M</b>	-035173	-	-	-	-	-	Unterteil	8-2-M	
<b>8-2-ERS</b>	-243806	-	-	-	-	-	Verschleiß-teilsatz	8-2	

### Short hydraulic spindles

ST

For pulling particularly tight bearings, gears, discs, etc.

800



800



801  
802  
804

#### Description

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Lubricating hydraulics.
- Hydraulic spindle.

#### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Spindle head band prevents the wrench from slipping off.

Art.-No.		 mm	 mm	max. t	max. Nm	
<b>800</b>	-034343	W 1.1/2"-16(55°;16Gang)	10	13	10	40
<b>801</b>	-784446	W 1.1/2"-16(55°;16Gang)	10	19	15	70
<b>802</b>	-784514	M40x1,5	10	19	20	100
<b>804</b>	-456787	W 1.1/2"-16(55°;16Gang)	10	19	15	70

## Long hydraulic spindles

ST

For pulling particularly tight bearings, gears, discs, etc.

8-0








### Description

- Lubricating hydraulics.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- Easy and even pulling for particularly tight parts.
- Can be combined with various mechanical pulling devices from the KUKKO range.
- Spindle head prevents the wrench from slipping off.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		 mm		max. t	 max. Nm	Bezeichnung description	
8-01	-887871	10	G 1/2"	10	11	Spindel komplett	12-4, 12-5, 18-2, 20-2, 20-20, 30-2, 30-20, 41-5, 42-5, 205-02, 206-02, 207-02
8-02	-887901	12	G 3/4"	12	13	Spindel komplett	12-6, 12-7, 18-3, 20-3, 20-30, 30-3, 205-1, 205-2, 205-3, 206-1, 206-2, 206-3, 207-1, 207-3, 207-2
8-01ERS	-989452	Verschleißteilsatz					8-01
8-01-176	-811760	Kopfschrauben mit Spindel u. Schraube					8-01
8-02ERS	-887918	Verschleißteilsatz					8-02
8-02-176	-821769	Kopfschrauben mit Spindel u. Schraube					8-02

## Auxiliary hydraulic ram

ST

To increase the pressure for mechanical pulling devices for particularly tight bearings, gears, discs, etc.

9









### Description

- Lubricating hydraulics.
- Centering hole for ideal spindle guidance.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.

### Advantage

- Can be combined with various mechanical pulling devices from the KUKKO range.
- Saves time as spindle does not need to be replaced.
- Specification for maximum torques.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.



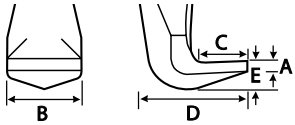

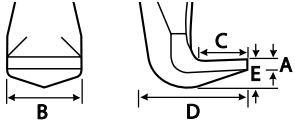

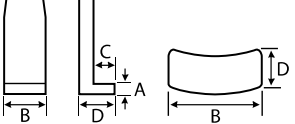

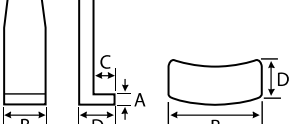

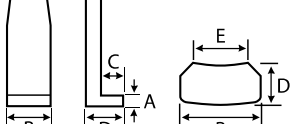

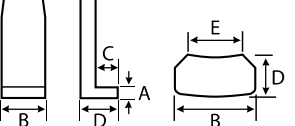
Art.-No.		 Ø mm	 mm	 mm	max. t	 max. Nm	
9-1	-005053	37	60	10	10	35	9-1-ERS
9-2	-005138	50	87	15	15	50	9-2-ERS
9-3	-924408	80	113	7	30	35	-
9-1-ERS	-243981	Verschleißteilsatz					9-1
9-2-ERS	-244063	Verschleißteilsatz					9-2

**INFO:** For use with mechanical KUKKO pullers from size3.





## Pulling jaws for 2-jaw pullers, series 20

Dimensions of the puller jaws						 mm
	A mm	B mm	C mm	D mm	E mm	
 	3,0	20	15	31	10	100
	4,0	24	18	40	9	150
	4,0	35	37	67	20	200
 	3,0	20	15	31	10	200
	3,0	20	15	31	10	250
	4,0	24	18	40	9	300
	4,0	35	37	67	20	300
	4,0	35	37	67	20	400
	4,0	35	37	67	20	500
 	2,6	30	7	14	-	100
	4,0	32	8	19	-	150
	6,5	35	17	52	-	200
 	2,6	30	7	14	-	200
	2,6	30	7	14	-	250
	4,0	32	8	19	-	300
	6,5	35	17	40	-	300
	6,5	35	17	40	-	400
	6,5	35	17	40	-	500
 	3,0	24	7	12	15	100
 	3,0	24	7	12	15	200
	3,0	24	7	12	15	250



		Art.- No.	<b>Quick adjust</b> TECHNOLOGY	Art.- No.	suitable for KUKKO-pullers:	 mm
		1-90-P		1-92-P	20-1; 20-10	90-120
		2-150-P		2-152-P	20-2; 20-20	160-200
		3-200-P		3-202-P	20-3; 20-30; 20-4; 20-40	250-650
		1-190-P		1-192-P	20-1; 20-10	90-120
		1-250-P		1-252-P	20-1; 20-10	90-120
		2-300-P		2-302-P	20-2; 20-20	160-200
		3-300-P		3-302-P	20-3; 20-30; 20-4; 20-40	250-650
		3-400-P		3-402-P	20-3; 20-30; 20-4; 20-40	250-650
		3-500-P		3-502-P	20-3; 20-30; 20-4; 20-40	250-650
		1-91-P		1-93-P	20-1; 20-10	90-120
		2-151-P		2-153-P	20-2; 20-20	160-200
		3-201-P		3-203-P	20-3; 20-30	250-350
		1-191-P		1-193-P	20-1; 20-10	90-120
		1-251-P		1-253-P	20-1; 20-10	90-120
		2-301-P		2-303-P	20-2; 20-20	160-200
		3-301-P		3-303-P	20-3; 20-30	250-350
		3-401-P		3-403-P	20-3; 20-30	250-350
		3-501-P		3-503-P	20-3; 20-30	250-350
		1-94-P		1-95-P	20-1; 20-10	90-120
		1-194-P		1-195-P	20-1; 20-10	90-120
		1-254-P		1-255-P	20-1; 20-10	90-120

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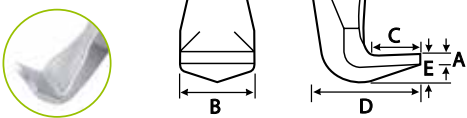
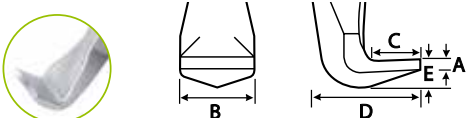
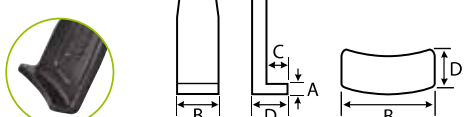
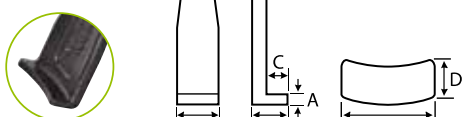
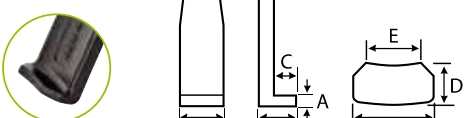
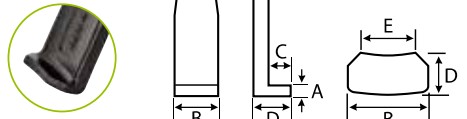
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## Pulling jaws for 3-jaw pullers, series 30

Dimensions of the puller jaws						 mm
	A mm	B mm	C mm	D mm	E mm	
	3,0	20	15	31	10	100
	4,0	24	18	40	9	150
	4,0	35	37	67	20	200
	3,0	20	15	31	10	200
	3,0	20	15	31	10	250
	4,0	24	18	40	9	300
	4,0	35	37	67	20	300
	4,0	35	37	67	20	400
	4,0	35	37	67	20	500
	2,6	30	7	14	-	100
	4,0	32	8	19	-	150
	6,5	35	17	52	-	200
	2,6	30	7	14	-	200
	2,6	30	7	14	-	250
	4,0	32	8	19	-	300
	6,5	35	17	40	-	300
	6,5	35	17	40	-	400
	6,5	35	17	40	-	500
	3,0	24	7	12	15,0	100
	3,0	24	7	12	15,0	200
	3,0	24	7	12	15,0	250



		Art.- No.	<b>Quick adjust</b> TECHNOLOGY	Art.- No.	suitable for KUKKO-pullers:	 mm
		1-90-S		1-92-S	30-1; 30-10	90-120
		2-150-S		2-152-S	30-2; 30-20	160-200
		3-200-S		3-202-S	30-3; 30-30; 30-4; 30-40	250-650
		1-190-S		1-192-S	30-1; 30-10	90-120
		1-250-S		1-252-S	30-1; 30-10	90-120
		2-300-S		2-302-S	30-2; 30-20	160-200
		3-300-S		3-302-S	30-3; 30-30; 30-4; 30-40	250-650
		3-400-S		3-402-S	30-3; 30-30; 30-4; 30-40	250-650
		3-500-S		3-502-S	30-3; 30-30; 30-4; 30-40	250-650
		1-91-S		1-93-S	30-1; 30-10	90-120
		2-151-S		2-153-S	30-2; 30-20	160-200
		3-201-S		3-203-S	30-3; 30-30	250-350
		1-191-S		1-193-S	30-1; 30-10	90-120
		1-251-S		1-253-S	30-1; 30-10	90-120
		2-301-S		2-303-S	30-2; 30-20	160-200
		3-301-S		3-303-S	30-3; 30-30	250-350
		3-401-S		3-403-S	30-3; 30-30	250-350
		3-501-S		3-503-S	30-3; 30-30	250-350
		1-94-S		1-95-S	30-1; 30-10	90-120
		1-194-S		1-195-S	30-1; 30-10	90-120
		1-254-S		1-255-S	30-1; 30-10	90-120

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## 2 pulling jaws (pair)

ST

For removing bearings, gears, discs, etc.

# 0-P



1-190-P  
1-250-P  
2-300-P  
3-300-P  
3-400-P  
3-500-P






### Description

- Standard pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 2.

### Advantage

- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Stability support from optional side clamp series 219
- All components available as replacement parts, time-saving order process thanks to numbering system.

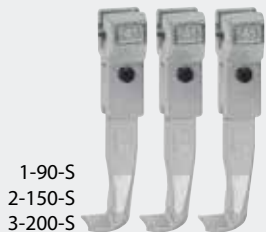
Art.-No.		 mm		
<b>1-90-P</b>	-001338	100	20-1, 20-10	
<b>1-190-P</b>	-001666	200	20-1, 20-10	
<b>1-250-P</b>	-001901	250	20-1, 20-10	
<b>2-150-P</b>	-002403	150	20-2, 20-20	
<b>2-300-P</b>	-002731	300	20-2, 20-20	
<b>3-200-P</b>	-003233	200	20-3, 20-30, 20-4, 20-40	
<b>3-300-P</b>	-003561	300	20-3, 20-30, 20-4, 20-40	
<b>3-400-P</b>	-003806	400	20-3, 20-30, 20-4, 20-40	
<b>3-500-P</b>	-004148	500	20-3, 20-30, 20-4, 20-40	

## 3 pulling jaws (set)

ST

For removing bearings, gears, discs, etc.

# 0-S



1-190-S  
1-250-S  
2-300-S  
3-300-S  
3-400-S  
3-500-S






### Description

- Standard pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 3.

### Advantage

- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
<b>1-90-S</b>	-001413	100	30-1, 30-10	
<b>2-150-S</b>	-002571	150	30-2, 30-20	
<b>3-200-S</b>	-003318	200	30-3, 30-30, 30-4, 30-40	
<b>1-190-S</b>	-001741	200	30-1, 30-10	
<b>1-250-S</b>	-002083	250	30-1, 30-10	
<b>1-400-S</b>	-975684	400	30-1, 30-10	
<b>2-300-S</b>	-002816	300	30-2, 30-20	
<b>3-300-S</b>	-003646	300	30-3, 30-30, 30-4, 30-40	
<b>3-400-S</b>	-003981	400	30-3, 30-30, 30-4, 30-40	
<b>3-500-S</b>	-004223	500	30-3, 30-30, 30-4, 30-40	

**2 narrow jaws (pair)****ST**




For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

**1-P****Description**

- Thin pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 2.

**Advantage**

- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Stability support from optional side clamp series 219
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
<b>1-91-P</b>	-434716	100	20-1-S, 20-10-S	
<b>1-191-P</b>	-461286	200	20-1-S, 20-10-S	
<b>1-251-P</b>	-461446	250	20-1-S, 20-10-S	
<b>1-401-P</b>	-985010	400	20-1-S, 20-10-S	
<b>2-151-P</b>	-702921	150	20-2-S, 20-20-S	
<b>2-301-P</b>	-703188	300	20-2-S, 20-20-S	
<b>3-201-P</b>	-726521	200	20-3-S, 20-30-S, 20-4, 20-40	
<b>3-301-P</b>	-726781	300	20-3-S, 20-30-S, 20-4, 20-40	
<b>3-401-P</b>	-726941	400	20-3-S, 20-30-S, 20-4, 20-40	
<b>3-501-P</b>	-727108	500	20-3-S, 20-30-S, 20-4, 20-40	

**3 narrow jaws (set)****ST**




For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

**1-S****Description**

- Thin pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 3.

**Advantage**

- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
<b>1-91-S</b>	-497834	100	30-1-S, 30-10-S	
<b>1-191-S</b>	-497919	200	30-1-S, 30-10-S	
<b>1-251-S</b>	-498091	250	30-1-S, 30-10-S	
<b>1-401-S</b>	-985034	400	30-1-S, 30-10-S	
<b>2-151-S</b>	-728686	150	30-2-S, 30-20-S	
<b>2-301-S</b>	-728761	300	30-2-S, 30-20-S	
<b>3-201-S</b>	-728846	200	30-3-S	
<b>3-301-S</b>	-728921	300	30-3-S	
<b>3-401-S</b>	-729003	400	30-3-S	
<b>3-501-S</b>	-729188	500	30-3-S	



## 2 quick adjusting jaws (pair)

For removing bearings, gears, discs, etc.

# 2-P






### Description

- Standard pulling hooks with Quickadjust in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 2.

### Advantage

- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Stability support from optional side clamp series 219
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
<b>1-92-P</b>	-732393	100	20-1+, 20-10+	
<b>1-192-P</b>	-973611	200	20-1+, 20-10+	
<b>1-252-P</b>	-973673	250	20-1+, 20-10+	
<b>2-152-P</b>	-973765	150	20-2+, 20-20+	
<b>2-302-P</b>	-973819	300	20-2+, 20-20+	
<b>3-202-P</b>	-732706	200	20-3+, 20-30+	
<b>3-302-P</b>	-973932	300	20-3+, 20-30+	
<b>3-402-P</b>	-974014	400	20-3+, 20-30+	
<b>3-502-P</b>	-974137	500	20-3+, 20-30+	

## 3 quick adjusting jaws (set)

For removing bearings, gears, discs, etc.

# 2-S






### Description

- Standard pulling hooks in various lengths with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 3.

### Advantage

- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
<b>1-92-S</b>	-973741	100	30-1+, 30-10+	
<b>1-192-S</b>	-973635	200	30-1+, 30-10+	
<b>1-252-S</b>	-973697	250	30-1+, 30-10+	
<b>2-152-S</b>	-973772	150	30-2+, 30-20+	
<b>2-302-S</b>	-973833	300	30-2+, 30-20+	
<b>3-202-S</b>	-973895	200	30-3+, 30-30+	
<b>3-302-S</b>	-973956	300	30-3+, 30-30+	
<b>3-402-S</b>	-974038	400	30-3+, 30-30+	
<b>3-502-S</b>	-974151	500	20-3+, 20-30+	



**2 narrow, quick adjusting jaws (pair)****ST**




For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

**3-P****Description**

- Thin pulling hooks with Quickadjust in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 2.

**Advantage**

- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Stability support from optional side clamp series 219
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
<b>1-93-P</b>	-973352	100	20-1+S, 20-10+S	
<b>1-193-P</b>	-973642	200	20-1+S, 20-10+S	
<b>1-253-P</b>	-973710	250	20-1+S, 20-10+S	
<b>2-153-P</b>	-973789	150	20-2+S, 20-20+S	
<b>2-303-P</b>	-973857	300	20-2+S, 20-20+S	
<b>3-203-P</b>	-973901	200	20-3+S, 20-30+S	
<b>3-303-P</b>	-973970	300	20-3+S, 20-30+S	
<b>3-403-P</b>	-974052	400	20-3+S, 20-30+S	
<b>3-503-P</b>	-974175	500	20-3+S, 20-30+S	

**3 narrow, quick adjusting jaws (set)****ST**




For removing bearings, gears, discs, etc. for tight or difficult-to-access spaces.

**3-S****Description**

- Thin pulling hooks in various lengths with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 3.

**Advantage**

- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
<b>1-93-S</b>	-973758	100	30-1+S, 30-10+S	
<b>1-193-S</b>	-973659	200	30-1+, 30-10+	
<b>1-253-S</b>	-973734	250	30-1+, 30-10+	
<b>2-153-S</b>	-973796	150	30-2+S, 30-20+S	
<b>2-303-S</b>	-973871	300	30-2+S, 30-20+S	
<b>3-203-S</b>	-973918	200	30-3+S	
<b>3-303-S</b>	-973994	300	30-3+S	
<b>3-403-S</b>	-974076	400	30-3+S	
<b>3-503-S</b>	-974199	500	30-3+S	



## 2 extremely narrow jaws (pair)

ST

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

# 4-P






### Description

- Extra-thin pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 2.

### Advantage

- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Stability support from optional side clamp series 219
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
1-94-P	-852039	100	20-1-S-T, 20-10-S-T	
1-194-P	-321399	200	20-1-S-T, 20-10-S-T	
1-254-P	-321498	250	20-1-S-T, 20-10-S-T	

## 3 extremely narrow jaws (set)

ST

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

# 4-S






### Description

- Extra-thin pulling hooks in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 3.

### Advantage

- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
1-94-S	-321580	100	30-1, 30-10	
1-194-S	-321412	200	30-1, 30-10	
1-254-S	-484520	250	30-1, 30-10	

## 2 extremely narrow, quick adjusting jaws (pair)

ST

For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

# 5-P






### Description

- Extra-thin pulling hooks with Quickadjust in various lengths.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 2.

### Advantage

- Variable reach thanks to jaw extensions, available up to a puller size of -20.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- Stability support from optional side clamp series 219
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
1-95-P	-321610	100	20-1+S, 20-10+S	
1-195-P	-321443	200	20-1+S, 20-10+S	
1-255-P	-321542	250	20-1+S, 20-10+S	

**3 extremely narrow, quick adjusting jaws (set)****ST**




For removing gears, bearings, sprockets, synchronizer bodies, etc., in tight or difficult-to-access spaces.

**5-S****Description**




- Extra-thin pulling hooks in various lengths with quick adjusting capability quick adjust.
- Pulling hooks with infinite adjustment on the cross-beam.
- Pulling hook with sliding part only available in set of 3.

**Advantage**




- Adjustable clamping depth thanks to jaw extensions, available up to a puller size of -30.
- Turning the pulling hooks enables them to be used both internally and externally.
- Suitable for pulling asymmetric workpieces.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm		
<b>1-95-S</b>	-321634	100	30-1+S, 30-10+S	
<b>1-195-S</b>	-321467	200	30-1+S, 30-10+S	
<b>1-255-S</b>	-321566	250	30-1+S, 30-10+S	

**2 pulling jaws with adjustable length (Pair)****ST****SP-P**

Art.-No.		 mm		
<b>4-SP-P</b>	-004636	300-500	20-3, 20-30, 20-4, 20-40	
<b>5-SP-P</b>	-004971	400-700	20-5	

**3 pulling jaws with adjustable length (set)****ST****SP-S**

Art.-No.		 mm		
<b>4-SP-S</b>	-004711	300-500	11-0-AV, 11-1-AV, 11-2-AV 11-0-BV, 11-1-BV, 11-2-BV 30-5	



## 2 jaw extensions (pair)

ST

For removing bearings, gears, discs, etc.

V-P






### Description

- Jaw extensions in various lengths.
- Jaw extensions only available in set of 2.
- Strong design, high performance and long service life.

### Advantage

- Stability support from optional side clamp series 219
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.	 4021176	 mm		
1-V-100-P	-985058	100	20-1, 20-10	
1-V-150-P	-985089	150	20-1, 20-10	
2-V-150-P	-985201	150	20-2, 20-20	

## 3 jaw extensions (set)

ST

For removing bearings, gears, discs, etc.

V-S






### Description

- Jaw extensions in various lengths.
- Jaw extensions only available in set of 3.
- Strong design, high performance and long service life.

### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.	 4021176	 mm		
1-V-100-S	-985065	100	30-1, 30-10	
1-V-150-S	-985096	150	30-1, 30-10	
2-V-150-S	-985218	150	30-2, 30-20	

## Pressure pad bricks


ST

600-17



## Description

- A total of 3 different pressure pads.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.
- Self-healing corrosion protection KUKKCoating for galvanized parts.

Art.-No.		Ø	
		mm	
600-17	-914188	20; 32; 41	

## Clamp for 2-jaw pullers

ST

219







## Description

- Quality made in Germany.
- Safety label to ensure protection of intellectual property.
- Self-healing corrosion protection KUKKCoating for galvanized parts.

## Advantage

- Easy, effective assembly.

Art.-No.					
		mm	mm	mm	
219-1	-777777	40	190	8	

## Tool holder with ratchet

For reworking and cleaning damaged internal and external threads.

ST

97






## Description

- Each file has 8 different pitches.

## Advantage

- The application is simple and easy.

Art.-No.				für for	
		mm	inch		
97-1	-490231	0,8 - 1 - 1,25 - 1,5 - 1,75 - 2 - 2,5 - 3	-	DIN-ISO	
97-2	-490316	-	10 - 11 - 12 - 14 - 16 - 18 - 20 - 24	Whitworth + BSF	
97-3	-490491	-	11 - 12 - 14 - 16 - 18 - 20 - 24	SAE / UNF	
97-4	-720253	-	11 - 14 - 19 - 28	Whitworth / Rohrgewinde	

## Protective tarps for extraction jobs

ST

UFP







## Description

- For disassembly and extraction jobs, the application of greater force is often necessary. It can happen that whole parts abruptly detach themselves, that parts break, disassemble themselves and debris starts flying around uncontrollably. To prevent these potential risks of an accident, KUKKO accident protection tarps can be used to safely enclose workpieces and tools before any force is applied.
- Highly elastic, tear-resistant and oil-resistant material.
- Protective blankets are delivered for careful storage in the Sortimo case.

## Advantage

- The transparent film enables close observation, control and monitoring of all removal processes safely while working.

Art.-No.					
		mm	mm		
UFP-1	-445118	1100	500	L-Boxx	
UFP-2	-445293	1500	670	L-Boxx	
UFP-3	-445378	4000	1300	L-Boxx	





# Internal extracting

## Innen-Ausziehen

### 02

Internal extractor.....	64-65
Innenauszieher	
Slide hammers and sets.....	65-73
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Counterstays and sets.....	69-71
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Passstifte	

01
02
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06
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10







## Internal extractors

For extracting inner bearings, bearing outer rings and bushings.

# 21









### Description

- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- The 2-shell design with extra large grasp edges ensures safe extraction.
- The internal extractors are equipped with an internal safety stop to protect against excess tension and overloading.
- Product video can be opened directly on the tool using the QR code.
- Kukko internal extractors can be combined with counter supports and slide hammers.
- When combined with the internal extractors, extensions from series 21-V enable deeper bearings to be extracted.

Art.-No.		 mm	 mm	 mm	 Segment		
<b>21-0</b>	-010408	5 - 8	14	73	2	22-1, 22-0	
<b>21-00</b>	-010576	6 - 10	14	73	2	22-1, 22-0	
<b>21-01</b>	-010651	8 - 12	14	73	2	22-1, 22-0	
<b>21-02</b>	-010736	10 - 14	14	73	2	22-1, 22-0	
<b>21-1</b>	-010811	12 - 16	25	72	2	22-1, 22-0	
<b>21-2</b>	-010996	14 - 19	27	72	2	22-1, 22-0	
<b>21-3</b>	-011153	18 - 23	35	89	2	22-1, 22-2, 22-0-1, 22-0	
<b>21-4</b>	-011238	20 - 30	40	92	2	22-1, 22-2, 22-0-1, 22-0	
<b>21-5</b>	-011498	28 - 40	23	101	2	22-1, 22-2, 22-0-1, 22-0	
<b>21-6</b>	-011566	35 - 46	50	113	2	22-2, 22-3, 22-0-1	
<b>21-7</b>	-011641	45 - 58	85	135	2	22-2, 22-3, 22-0-1	
<b>21-8</b>	-011726	56 - 70	85	133	2	22-2, 22-3, 22-0-1	
<b>21-9</b>	-011986	70 - 100	95	166	2	22-3, 22-0-1	
<b>21-89</b>	-011801	56 - 110	120	187	3	22-4, 22-0-2	
<b>21-90</b>	-012068	100 - 200	175	220	3	22-5, 22-0-2	

## Needle bearing extractors

To extract internal needle bearings.

# 21-4x









### Description

- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- The 2-shell design with extra large grasp edges ensures safe extraction.
- The internal extractors are equipped with an internal safety stop to protect against excess tension and overloading.
- Product video can be opened directly on the tool using the QR code.
- Kukko internal extractors can be combined with counter supports and slide hammers.
- When combined with the internal extractors, extensions from series 21-V enable deeper bearings to be extracted.

Art.-No.		 mm	 mm	 mm	 Segment		
<b>21-40</b>	-411526	9,6 - 18	18	92	2	22-1, 22-2, 22-0-1, 22-0	
<b>21-41</b>	-186066	11,5 - 19	18	92	2	22-1, 22-2, 22-0-1, 22-0	
<b>21-42</b>	-186141	12,5 - 21	19	92	2	22-1, 22-2, 22-0-1, 22-0	
<b>21-43</b>	-186226	14,5 - 22	19	92	2	22-1, 22-2, 22-0-1, 22-0	
<b>21-44</b>	-186301	16,5 - 23	23	92	2	22-1, 22-2, 22-0-1, 22-0	
<b>21-45</b>	-186486	18,5 - 24	23	92	2	22-1, 22-2, 22-0-1, 22-0	
<b>21-46</b>	-186554	20 - 25	23,5	92	2	22-1, 22-2, 22-0-1, 22-0	

## Segmented internal extractor

ST

For extracting bearings, bearing outer rings and bushings that lay flat on one another.

# 21-E









### Description

- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- The segmented design with extra fine grasp edges ensures safe extraction.
- Kukko internal extractors can be combined with counter supports and slide hammers.
- All components available as replacement parts, time-saving order process thanks to numbering system.

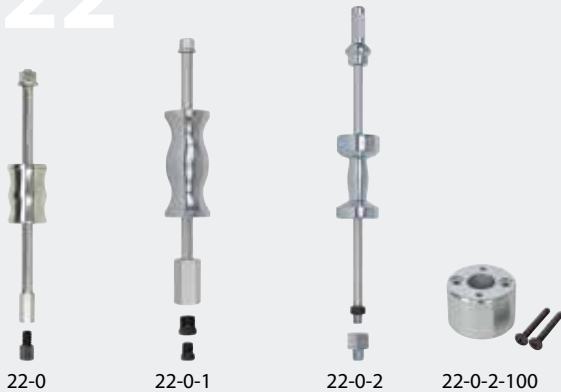
Art.-No.		 mm	 mm	 mm	 Segment		
21-0-E	-909153	4,8 - 6,5	30	54	2	22-0, 22-0-1, 22-1, 22-2	
21-00-E	-909160	6,8 - 9,5	30	54	2	22-0, 22-0-1, 22-1, 22-2	
21-01-E	-909177	9,5 - 12,5	30	54	2	22-0, 22-0-1, 22-1, 22-2	
21-1-E	-930003	12 - 16	35	80	3	22-0, 22-0-1, 22-1, 22-2	
21-2-E	-931000	14 - 19	40	83	3	22-0, 22-0-1, 22-1, 22-2	
21-3-E	-931109	18 - 23	50	90	3	22-0, 22-0-1, 22-1, 22-2	
21-4-E	-909191	24 - 34	58	98	4	22-0, 22-0-1, 22-1, 22-2	
21-5-E	-924071	34 - 48	65	110	4	22-2, 22-0-1	
21-6-E	-924088	48 - 63	80	120	6	22-2, 22-0-1	
21-7-E	-924095	63 - 78	80	120	6	22-2, 22-0-1	

## Slide hammer devices

ST

For use with series 21, series 21-E or series 22-1-AS.

# 22









### Description

- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

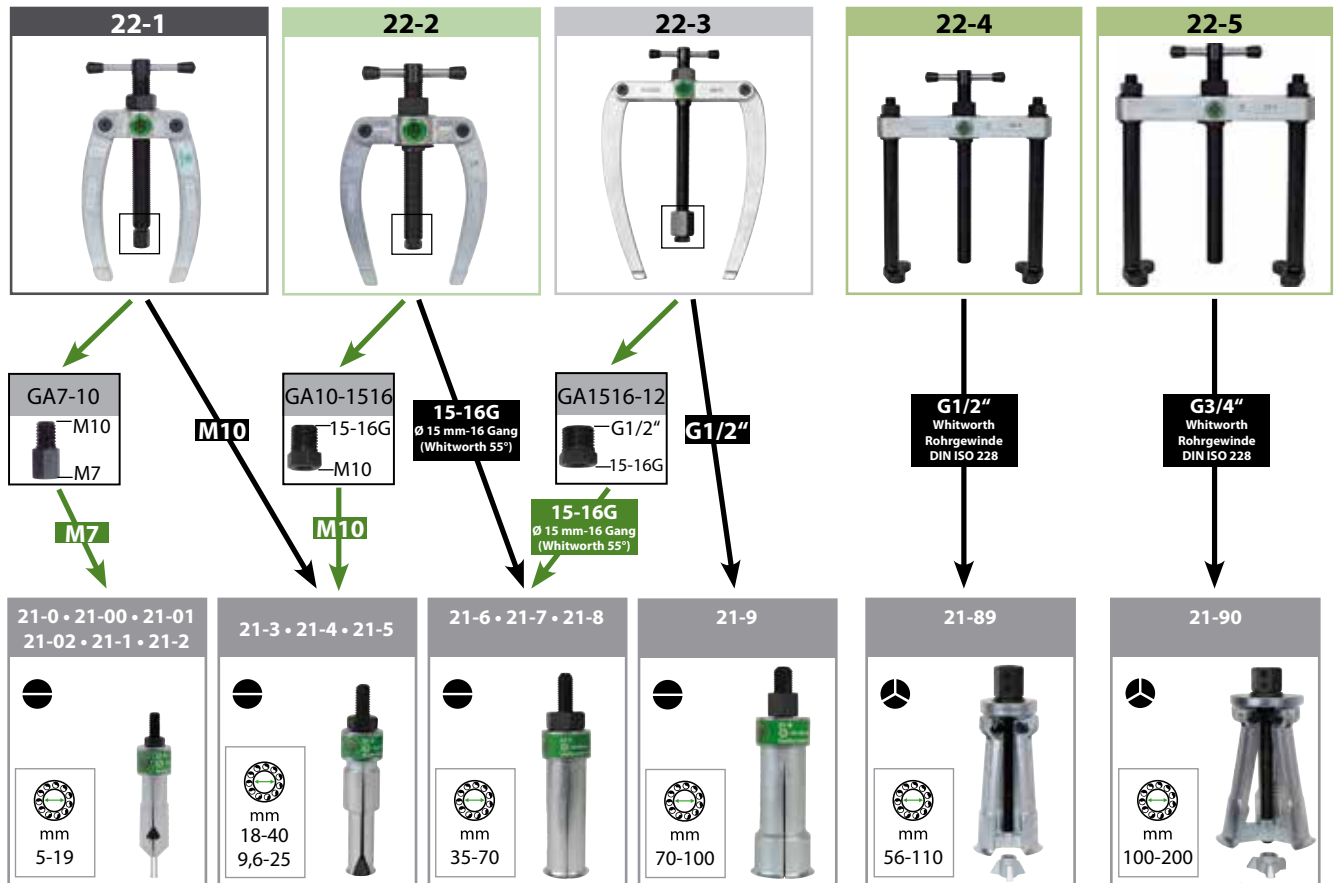
### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.
- Product video on the product can be opened.
- TIP: 22-0-2 The impact of the slide hammer can be increased by increments of 3 kg by screwing in one or multiple supplementary weights (item no. 22-0-2-100).

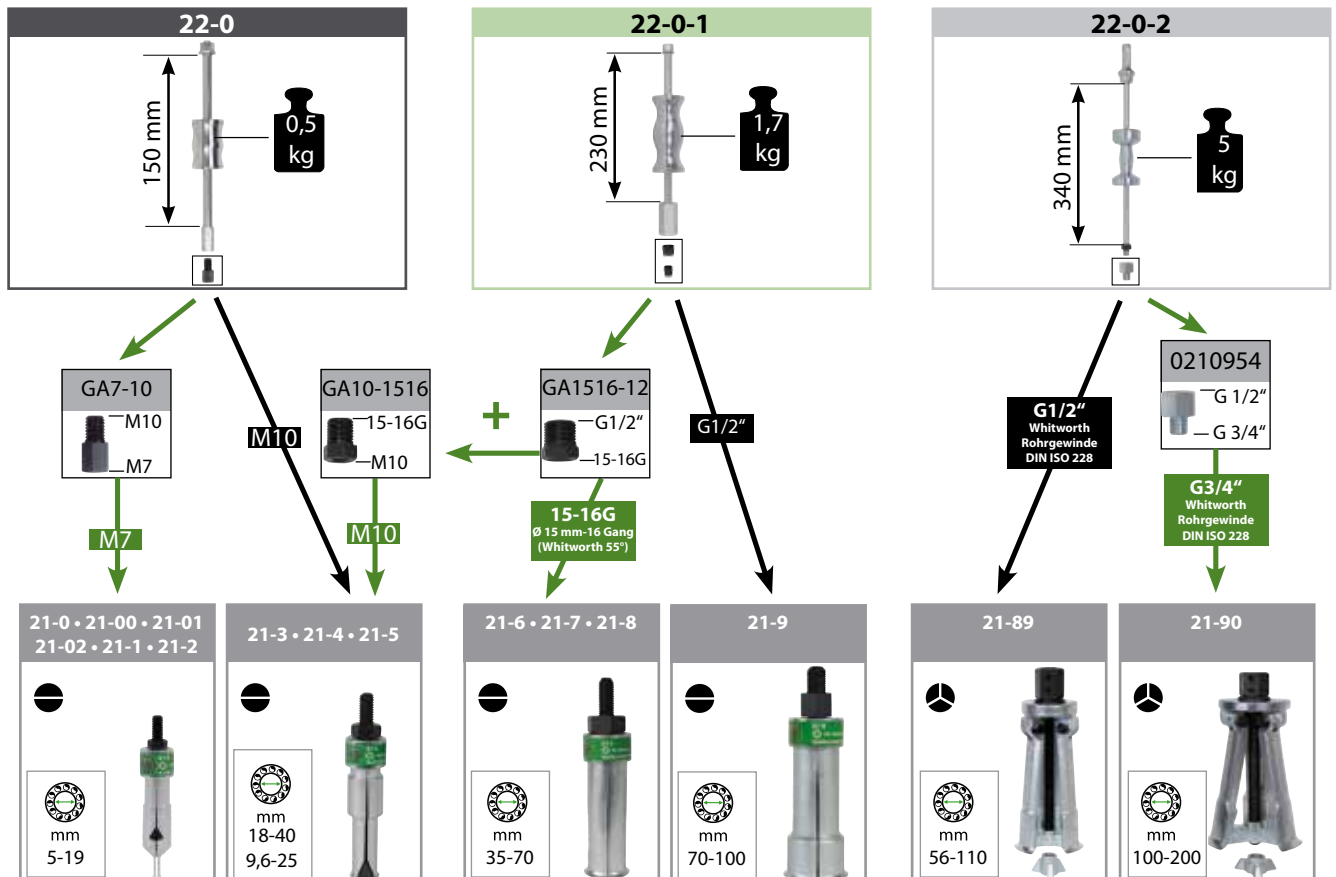
Art.-No.		 mm	 kg				
22-0	-012143	240	0,5	M10	M7/M10	21-00, 21-01, 21-0, 21-02, 21-1, 21-2, 21-3, 21-4, 21-5, 21-0-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E, 21-40, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46	
22-0-1	-555558	320	1,7	M16 x1,5	M10; 15x16 Gang; G1/2"	21-3, 21-4, 21-5, 21-6, 21-7, 21-8, 21-9, 21-40, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46, 21-0-E, 21-00-E, 21-01-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E, 21-5-E, 21-6-E, 21-7-E	
22-0-2	-111204	700	5,0	G1/2"	G1/2"; G3/4"	21-89, 21-90, 22-0-2-100	
22-0-2-100	-111211	Zusatzgewicht 3 kg supplementary weight 3 kg				22-0-2	



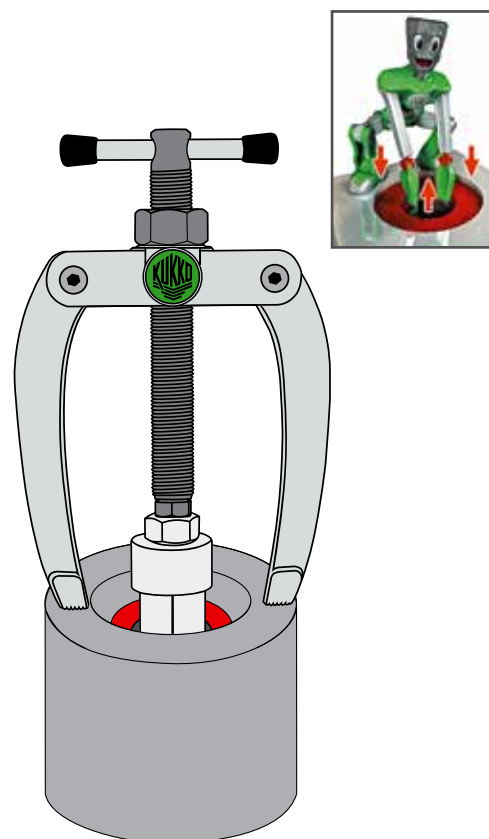
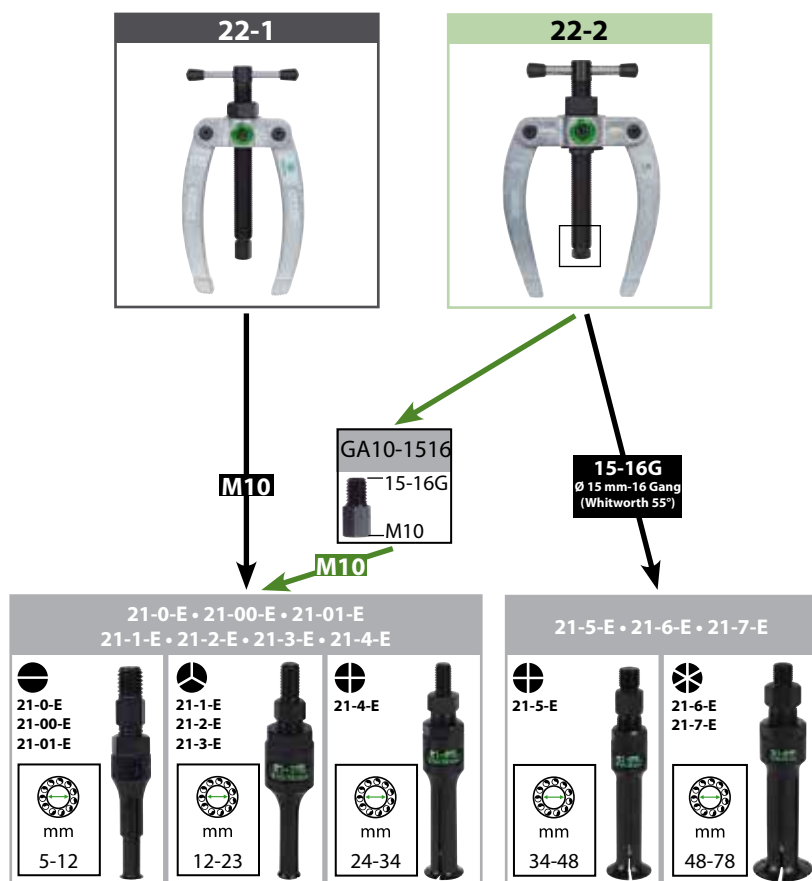
## Combination of counter stay with internal extractors, series 21



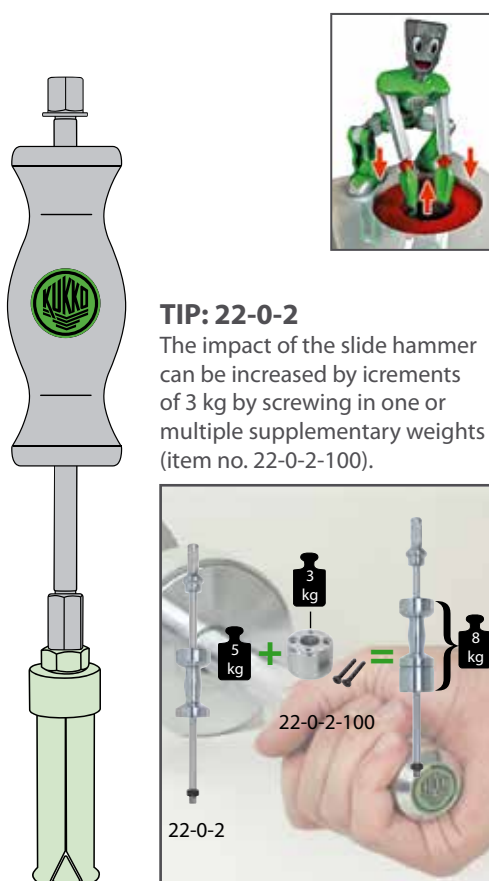
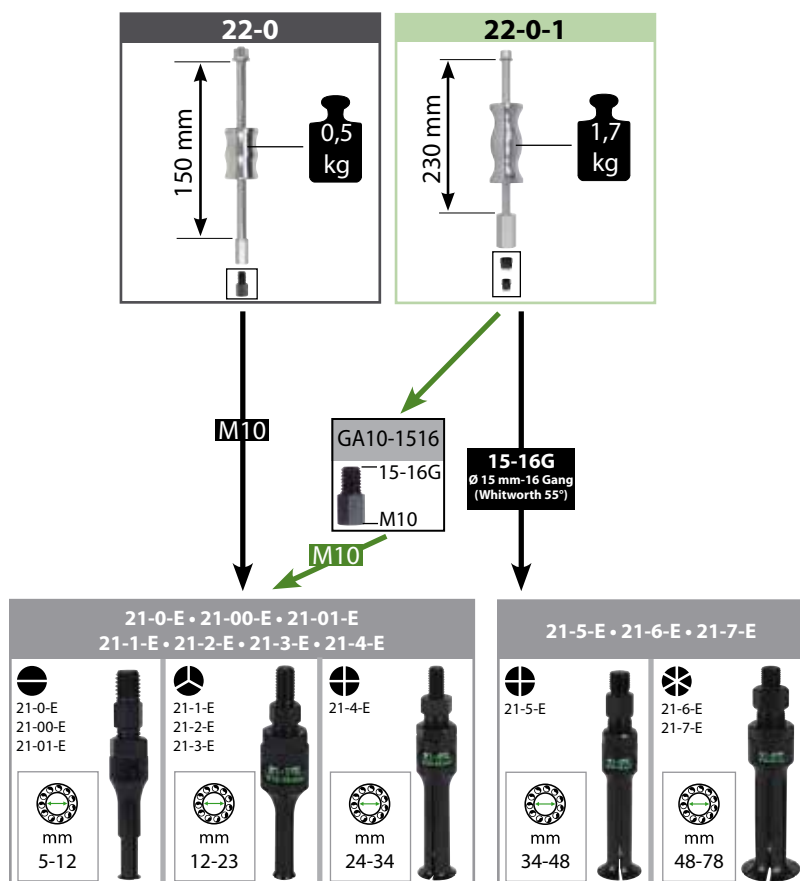
## Combination of slide hammer with internal extractors, series 21



## Combination of counter stay with segmented internal extractors, series 21-E



## Combination of slide hammer with segmented internal extractors, series 21-E







## Internal extractor with slide hammer

ST

# 221-G






Art.-No.		Ø		L	
		mm	mm	mm	
<b>221-G</b>	-175824	30-180	150	140	

## Internal extractor with slide hammer

ST

# 224



Art.-No.		Ø			
		mm	mm	mm	
<b>224-1</b>	-325656	12-35	25	305	
<b>224-2</b>	-325571	15-50	50	290	

## Sets of slide hammers in case

ST

For extracting bushings and components with threads (dowel-pins, parallel-keys, bolts, etc.).

# KS-22









### Description

- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.
- Self-healing corrosion protection KUKKCoating for galvanized parts.

### Advantage

- Kukko dowel pins can be combined with counter supports and slide hammers.
- Practical package for universal use.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.				 mm	 kg	Stück pieces		
<b>KS-22-01</b>	-924569	M3, M4, M5, M6, M8, M10, M12 verzinkt/zinc plated: M7, M10, 15-16G	M12	290	0,9	10	Kunststoff	
<b>KS-22-02</b>	-951121	M6, M8x1, M10, M10x1, M12x1, M15x1,5 verzinkt/zinc plated: M7, M10, 15-16G	M12	290	0,9	10	Kunststoff	

## Percussion type bearing extractor sets

For extracting inner bearings, bearing outer rings and bushings.

# 26



### Description

- Kit in the tried-and-tested KUKKO-L-Boxx-System.
- Instructions on the cover.
- Secure storage in special foam.
- Personal KUKKO-Chip-Code.
- Mechanical pressure screw.

### Advantage

- The 2-shell design with extra large grasp edges ensures safe extraction.
- The internal extractors are equipped with an internal safety stop to protect against excess tension and overloading.
- Product video can be opened directly on the tool using the QR code.
- Kukko internal extractors can be combined with counter supports and slide hammers.
- When combined with the internal extractors, extensions from series 21-V enable deeper bearings to be extracted.

Art.-No.						Stück pieces		
		mm	mm	kg				
<b>26-A</b>	-781629	6 - 19	290	0,9	21-00, 21-01, 21-02, 21-1, 21-2, KS-22-01-GH, VM12-7, VM12-10	8	i-Boxx	
<b>26-B</b>	-781704	12 - 40	320	1,7	21-1, 21-2, 21-3, 21-4, 21-5, 22-0-1, GA7-10	7	i-Boxx	

## Cylinder liner puller set

Set for extracting cylinder liners.

# K-16



### Description

- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- The counter support nuts' friction resistance is reduced to a minimum as a result of the built-in pressure bearing.
- With their support struts, the counter supports are particularly suited for large cylinder liners and ball bearings, etc., and ensure that the assembly remains stable during the extraction process.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.				Stück pieces		
		mm				
<b>K-16</b>	-161506	60 - 155	16-21, 16-22	4	L-Boxx	



## Counterstays

For use with series 21, series 21-E or series 22-1-AS.

# 22





### Description

- Note: If the counter supports cannot be used for space reasons, use a slide hammer series 22-0.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.

### Advantage

- Thanks to their support struts, sizes (4 and 5) counter struts are particularly suited for large ball bearings, etc., and ensure that the assembly remains stable during the extraction process.
- The jaws on the counter supports are easy-to-adjust thanks to an internal spring mechanism. (size 1 to 3)
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		max. t		
22-1	-012228	3	21-0, 21-00, 21-01, 21-02, 21-1, 21-2, 21-3, 21-4, 21-5, 21-40, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46, 21-0-E, 21-00-E, 21-01-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E	
22-2	-012303	4	21-3, 21-4, 21-5, 21-6, 21-7, 21-8, 21-40, 21-41, 21-42, 21-43, 21-44, 21-45, 21-46, 21-0-E, 21-00-E, 21-01-E, 21-1-E, 21-2-E, 21-3-E, 21-4-E, 21-5-E, 21-6-E, 21-7-E	
22-3	-012488	5	21-6, 21-7, 21-8, 21-9	
22-4	-112478	7	21-89	
22-5	-012556	9	21-90	

## Sets of bearing pulling and extracting tools

For pulling bearings, gears and discs and for extracting interior bearings, outer bearing rings and bushings.

# 24








### Description

- The puller chuck is used for pulling separable bearing inner races with a diameter of 5-32 mm on magnets, light machines, electric motors and small electrical machinery.
- Kit in the tried-and-tested KUKKO-L-Boxx-System.
- Instructions on the cover.
- Secure storage in special foam.
- Personal KUKKO-Chip-Code.

### Advantage

- The 2-shell design with extra large grasp edges ensures safe extraction.
- The internal extractors are equipped with an internal safety stop to protect against excess tension and overloading.
- Product video can be opened directly on the tool using the QR code.
- Kukko internal extractors can be combined with counter supports and slide hammers.
- When combined with the internal extractors, extensions from series 21-V enable deeper bearings to be extracted.

Art.-No.		 mm	 mm			Stück pieces	
24-A	-012716	60 - 90	12 - 46	23, 43-1, 20-1, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 22-1, 22-2	L-Boxx	11	
24-B	-012891	60 - 160	12 - 70	23, 43-1, 20-1, 20-2, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-8, 22-1, 22-2	L-Boxx	14	
24-C	-012976	60 - 160	12 - 58	23, 43-1, 20-1, 20-2, 21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-89, 22-1, 22-2, 22-4	L+Boxx	15	





## Sets of bearing extracting tools

ST

For extracting inner bearings, bearing outer rings and bushings.

25







25-B

### Description

- Kit in the tried-and-tested KUKKO-L-Boxx-System.
- Note: If the counter supports cannot be used for space reasons, use a slide hammer series 22-0.
- Instructions on the cover.
- Secure storage in special foam.
- Personal KUKKO-Chip-Code.

### Advantage

- Thanks to their support struts, sizes (4 and 5) counter struts are particularly suited for large ball bearings, etc., and ensure that the assembly remains stable during the extraction process.
- The jaws on the counter supports are easy-to-adjust thanks to an internal spring mechanism. (size 1 to 3)
- The 2-shell design with extra large grasp edges ensures safe extraction.
- The internal extractors are equipped with an internal safety stop to protect against excess tension and overloading.
- Product video can be opened directly on the tool using the QR code.

Art.-No.		 mm		Stück pieces		
25-K	-863899	6 - 19	21-00, 21-02, 21-2, 22-1	4	i-Boxx	
25-N	-787096	11,5 - 25	21-41, 21-42, 21-43, 21-44, 21-45, 21-46, 22-1	7	i-Boxx	
25-A	-013058	12 - 46	21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 22-1, 22-2	8	L-Boxx	
25-B	-013133	12 - 70	21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-8, 22-1, 22-2	10	L-Boxx	
25-C	-013218	12 - 110	21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 21-7, 21-89, 22-1, 22-2, 22-4	11	L-Boxx	
25-D	-158803	56 - 110	21-89, 22-4	2	L-Boxx	

## Set of slide hammer and counterstays for extracting ball bearings and dowel-pins

ST

For extracting interior bearings, outer bearing rings and bushings and components with threads (dowel-pins, parallel-keys, bolts, etc.).

28








28-D

### Description

- Kit in the tried-and-tested KUKKO-L-Boxx-System.
- Instructions on the cover.
- Secure storage in special foam.
- Personal KUKKO-Chip-Code.
- Mechanical pressure screw.

### Advantage

- The 2-shell design with extra large grasp edges ensures safe extraction.
- The internal extractors are equipped with an internal safety stop to protect against excess tension and overloading.
- Product video can be opened directly on the tool using the QR code.
- Thanks to their support struts, sizes (4 and 5) counter struts are particularly suited for large ball bearings, etc., and ensure that the assembly remains stable during the extraction process.
- The jaws on the counter supports are easy-to-adjust thanks to an internal spring mechanism. (size 1 to 3)

Art.-No.		 mm				Stück pieces	
28-C	-466762	12 - 46	M3; M4; M5; M6; M8; M10; M12; M14; M16; M18	21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 22-1, 22-2, KS-22-01-GH, VM12-10, VM12-1516, GE3-10, GE4-10, GE5-10, GE6-10, GE8-10, GE10-10, GE12-10, GE14-10, GE16-10, GE18-10	L+Boxx	22	
28-D	-466779	12 - 70	M3; M4; M5; M6; M8; M10; M12; M14; M16; M18	21-1, 21-2, 21-3, 21-4, 21-5, 21-6, 22-1, 22-2, KS-22-01-GH, VM12-10, VM12-1516, GE3-10, GE4-10, GE5-10, GE6-10, GE8-10, GE10-10, GE12-10, GE14-10, GE16-10, GE18-10	L+Boxx	24	








## Extractor for parts with tapholes

ST

# 223



Art.-No.				 mm	 kg	
223	-309083	M3; M4; M5; M6; M8; M10; M12; M14; M16; M18	M12/M10	290	0,9	

## Set of screw adapters

ST

For extracting and removing parts with threads (dowel-pins, parallel-keys, bolts, etc.) for use with series 22 and series 22-0.

# 22-1-AS







### Description

- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.					
22-1-AS	-339288	M4; M5; M6; M8; M10; M12	M12/M10	22-0, 22-0-1, 22-1, 22-2, 22-3	

## Set of parallel-key and dowel-pin extractors

ST

For extracting components with threads (dowel-pins, parallel-keys, bolts, etc.).







# 223



223-K

### Description

- Kit in the tried-and-tested KUKKO-i-Boxx-System.
- Instructions on the cover.
- Secure storage in special foam.
- Personal KUKKO-Chip-Code.

Art.-No.			 mm	 kg		Stück pieces		
223-K	-784859	M3; M4; M5; M6; M8; M10; M12; M14; M16; M18	290	0,9	M12	14	i-Boxx	
223-G	-984181	M8; M10; M12; M14; M16; M18; M20; M22; M24	320	1,7	M16 x 1,5	11	i-Boxx	

**Set of slide hammer for extracting ball bearings and dowel-pins****ST**

For extracting interior bearings, outer bearing rings and bushings and components with threads (dowel-pins, parallel-keys, bolts, etc.).

28



28-A

**Description**

- Kit in the tried-and-tested KUKKO-L-Boxx-System.
- Instructions on the cover.
- Secure storage in special foam.
- Personal KUKKO-Chip-Code.
- Mechanical pressure screw.

**Advantage**

- The 2-shell design with extra large grasp edges ensures safe extraction.
- The internal extractors are equipped with an internal safety stop to protect against excess tension and overloading.
- Product video can be opened directly on the tool using the QR code.
- Kukko internal extractors can be combined with counter supports and slide hammers.
- When combined with the internal extractors, extensions from series 21-V enable deeper bearings to be extracted.

Art.-No.		mm	mm	mm	kg		Stück pieces	
28-A	-507779	6 - 19	M3-M18	290	0,9	21-00, 21-01, 21-02, 21-1, 21-2, KS-22-01-GH, VM12-7, VM12-10, GE3-10, GE4-10, GE5-10, GE6-10, GE8-10, GE10-10, GE12-10, GE14-10, GE16-10, GE18-10	18	i-Boxx
28-B	-507786	12 - 40	M8-M24	230	1,7	21-1, 21-2, 21-3, 21-4, 21-5, 22-0-1, GA12-1815, GA7-10, GE8-1815, GE10-1815, GE12-1815, GE14-1815, GE16-1815, GE18-1815, GE20-1815, GE22-1815, GE24-1815	17	i-Boxx

**Key-lifter for keys of slots****ST**

139



Art.-No.		mm	mm	mm	mm	EUR
139-1	-779176	122 - 144	0 - 35	110	4	506,10





# Separating

## Trenn-Abziehen

### 03

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13
14





## Separators

ST

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

15







### Description

- Note: When there is enough space, the separators in series 17 are a good alternative as the jaws can be tightened quickly in a central position with a pressure spindle.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.

### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm		
<b>15-00</b>	-101854	6 - 40	40	18-00	
<b>15-0</b>	-006951	8 - 60	60	18-0	
<b>15-1</b>	-007033	12 - 75	75	18-1	
<b>15-2</b>	-007118	22 - 115	115	18-2, 18-2-B	
<b>15-3</b>	-007293	25 - 155	155	18-3, 18-3-B	
<b>15-4</b>	-007378	30 - 200	200	18-4, 18-4-B	
<b>15-5</b>	-007453	30 - 250	250	18-5, 18-5-B	

## Separating-sets

ST

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

15



15-A  
15-K







15-B

### Description

- Instructions on the cover.
- Secure storage in special foam.
- Note: When there is enough space, the separators in series 17 are a good alternative as the jaws can be tightened quickly in a central position with a pressure spindle.
- Personal KUKKO-Chip-Code.
- Mechanical pressure screw.

### Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		 mm		Stück pieces		
<b>15-K</b>	-007941	8 - 60	15-0, 18-0, 19-1-P	4	i-Boxx	
<b>15-A</b>	-007521	12 - 75	15-1, 18-1, 19-1-P	4	i-Boxx	
<b>15-B</b>	-007606	22 - 115	15-2, 18-2, 19-2-P	4	L-Boxx	
<b>15-C</b>	-007781	25 - 155	15-3, 18-3, 19-3-P	4	Metall	
<b>15-D</b>	-007866	30 - 200	15-4, 18-4, 19-4-P	4	Metall	
<b>15-E</b>	-308826	30 - 250	15-5, 18-5, 19-5-P	4	Metall	



## Separators with quick clamping pressure spindle

ST

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

17







### Description

- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- The quick clamping pressure spindle makes it easier to separate tightly-fitting parts.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 mm		
17-0	-008108	8 - 60	60	18-0	
17-1	-008283	12 - 75	75	18-1	
17-2	-008368	22 - 115	115	18-2	
17-3	-008443	25 - 155	155	18-3	

## Separating-sets

ST

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

17



17-A  
17-K









17-B

### Description

- Instructions on the cover.
- Secure storage in special foam.
- Personal KUKKO-Chip-Code.
- Mechanical pressure screw.
- Milled thread treated with special coating.

### Advantage

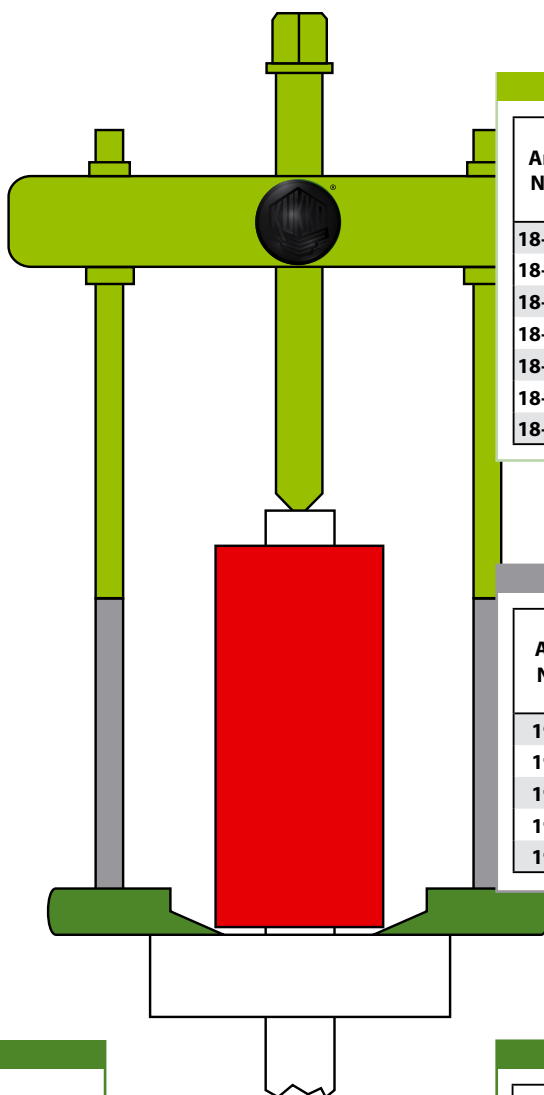
- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.




Art.-No.		 mm	 mm	 mm		Stück pieces		
17-K	-008856	71	8 - 60	100	17-0, 18-0, 19-1-P	4	i-Boxx	
17-A	-008511	122	12 - 75	150	17-1, 18-1, 19-1-P	4	i-Boxx	
17-B	-008696	125	22 - 115	200	17-2, 18-2, 19-2-P	4	L-Boxx	
17-C	-008771	144	25 - 155	300	17-3, 18-3, 19-3-P	4	Metall	












## INFOBOX: No. 15 · 17 · 18 · 19




No. 18			
Art. No.	 mm	 mm	
18-00	60	25-100	
18-0	71 - 150	50-110	
18-1	122 - 200	60-150	
18-2	125 - 250	60-200	
18-3	144 - 300	80-300	
18-4	134 - 350	120-380	
18-5	225 - 400	150-440	

No. 19			
Art. No.	L mm	für for	
19-1	100	18-0; 18-1	
19-2	100	18-2	
19-3	100	18-3	
19-4	200	18-4	
19-5	200	18-5	


No. 15			
Art. No.	 mm	 mm	
15-00	6-40	40	
15-0	8- 60	60	
15-1	12- 75	75	
15-2	22-115	115	
15-3	25-155	155	
15-4	30-200	200	
15-5	30-250	250	

No. 17			
Art. No.	 mm	 mm	
17-0	8- 60	60	
17-1	12- 75	75	
17-2	22-115	115	
17-3	25-155	155	

Sätze / set						
15-K	15-A	15-B	15-C	15-D	15-E	
15-0	15-1	15-2	15-3	15-4	15-5	
18-0	18-1	18-2	18-3	18-4	18-5	
19-1	19-1	19-2	19-3	19-4	19-5	



Sätze / set				
17-K	17-A	17-B	17-C	
17-0	17-1	17-2	17-3	
18-0	18-1	18-2	18-3	
19-1	19-1	19-2	19-3	



## Steering wheel pullers

ST

For use with series 17, series 15, series 18-AS and series 18-A.

# 18









### Description

- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- Hydraulic spindle series 8 for particularly tight parts available from a particular pulling device.
- The extensions in series 19 enable the clamping depth to be increased easily.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.					max.			
		mm	mm	mm	t	Nm		
<b>18-00</b>	-101939	60	25-100	12	1,5	40	15-00	
<b>18-0</b>	-075599	71 - 150	50-110	13	3	40	15-0, 17-0	
<b>18-1</b>	-075674	122 - 200	60-150	19	5	70	15-1, 17-1	
<b>18-2</b>	-075759	125 - 250	60-200	22	7	120	15-2, 17-2	
<b>18-3</b>	-005961	144 - 300	80-300	27	10	280	15-3, 17-3	
<b>18-4</b>	-006043	134 - 350	120-380	36	15	450	15-4	
<b>18-5</b>	-075834	225 - 400	150-440	41	20	500	15-5	

## Hydraulic pulling device(including mechanical pressure screw)

ST

For use with series 17 (from 17-2) and series 15 (from 15-2).

# 18-B







hydraulic  
TECHNOLOGY

### Description

- Hydraulic spindle.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.

### Advantage

- Easy and even pulling for particularly tight parts.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.				max.	mit with		
		mm	mm	t			
<b>18-2-B</b>	-885723	125-250	60-200	7	8-01	15-2, 17-2	
<b>18-3-B</b>	-885730	144-300	80-300	10	8-02	15-3, 17-3	
<b>18-4-B</b>	-885747	134-350	120-380	15	8-1-B	15-4	
<b>18-5-B</b>	-885754	225-400	150-440	20	8-2-M	15-5	



## 2 Extensions for pulling devices (pair)

ST

For use with series 18.

# 19






### Description

- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm		
<b>19-1-P</b>	-169984	100	18-0, 18-1	
<b>19-2-P</b>	-170041	100	18-2	
<b>19-3-P</b>	-170126	100	18-3, 18-3-B	
<b>19-4-P</b>	-168321	200	18-4, 18-4-B	
<b>19-5-P</b>	-152306	200	18-5, 18-5-B	

## Screw adapters (pair)

For extracting and removing parts with threads (dowel-pins, parallel-keys, bolts, etc.) for use with series 18.

# 18-A







### Description

- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.					Inhalt content	
<b>18-003A</b>	-788406	M3	M10	18-0, 18-1	Paar / pair	
<b>18-004A</b>	-337383	M4	M10	18-0, 18-1	Paar / pair	
<b>18-005A</b>	-337468	M5	M10	18-0, 18-1	Paar / pair	
<b>18-006A</b>	-337536	M6	M10	18-0, 18-1	Paar / pair	
<b>18-008A</b>	-337611	M8	M10	18-0, 18-1	Paar / pair	
<b>18-010A</b>	-337796	M10	M10	18-0, 18-1	Paar / pair	
<b>18-012A</b>	-337871	M12	M10	18-0, 18-1	Paar / pair	
<b>18-016A</b>	-788574	M16	M10	18-0, 18-1	Paar / pair	
<b>18-208A</b>	-337956	M8	M14x1,5	18-2	Paar / pair	
<b>18-210A</b>	-338113	M10	M14x1,5	18-2	Paar / pair	
<b>18-212A</b>	-338298	M12	M14x1,5	18-2	Paar / pair	
<b>18-214A</b>	-338373	M14	M14x1,5	18-2	Paar / pair	
<b>18-216A</b>	-338458	M16	M14x1,5	18-2	Paar / pair	
<b>18-218A</b>	-338526	M18	M14x1,5	18-2	Paar / pair	
<b>18-314A</b>	-338601	M14	M18x1,5	18-3	Paar / pair	
<b>18-316A</b>	-338786	M16	M18x1,5	18-3	Paar / pair	
<b>18-318A</b>	-338861	M18	M18x1,5	18-3	Paar / pair	
<b>18-320A</b>	-338946	M20	M18x1,5	18-3	Paar / pair	
<b>18-322A</b>	-339028	M22	M18x1,5	18-3	Paar / pair	
<b>18-324A</b>	-339103	M24	M18x1,5	18-3	Paar / pair	

## Set of screw adapters

ST

For extracting and removing parts with threads (dowel-pins, parallel-keys, bolts, etc.) for use with series 18.

# 18-AS







### Description

- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.					Inhalt content	
<b>18-0-AS</b>	-337048	M4-M5-M6-M8-M10-M12	M10	18-0, 18-1	Satz	
<b>18-2-AS</b>	-337123	M8-M10-M12-M14-M16-M18	M14x1,5	18-2	Satz	
<b>18-3-AS</b>	-337208	M14-M16-M18-M20-M22-M24	M18x1,5	18-3	Satz	





# Ball bearing removal and fitting

Kugellager Aus- & Einbau

## 04

Ball bearing removal..... **84-87**  
Kugellager-Ausbau

Ball bearing fitting..... **88**  
Kugellager-Einbau

Accessories for ball bearing  
removal and fitting..... **89-90**  
Zubehör für den Kugellager  
Aus- und Einbau

01

02

03

04

05

06

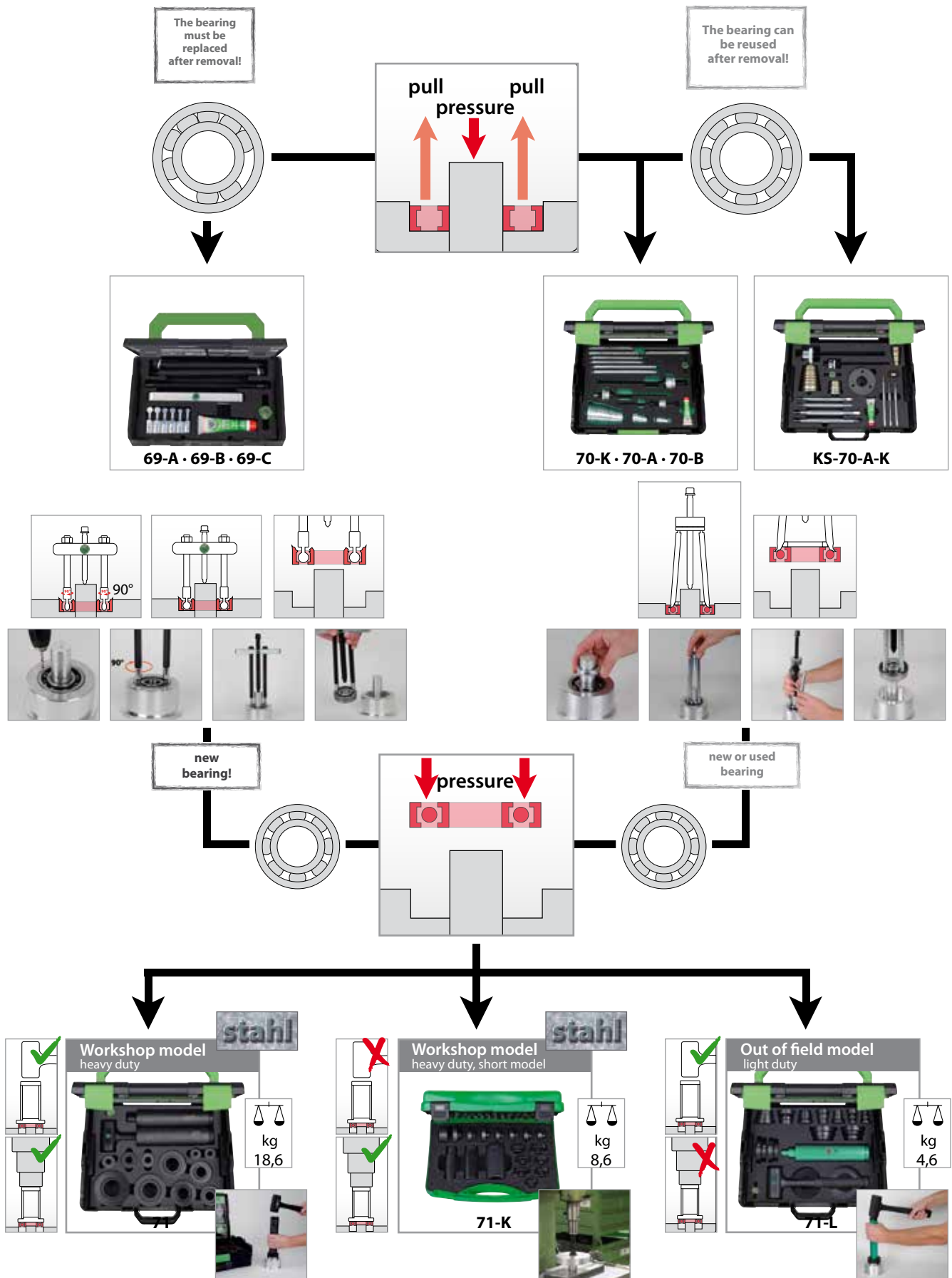
07

08

09

10

## BALL BEARING removal and installation



**TIP!**

For an especially reliable fit of the ball bearing onto the shaft, we recommend our inductive ball bearing heater, T-AW. The ball bearing is heated, mounted on the shaft, and as it cools, is firmly pressed to the shaft.





**Ball bearing extractor sets „Universal“****ST**

For removing grooved ball bearings without having to dismantle the shaft.

69

69-A  
69-B





69-C

**Description**

- Kit in the tried-and-tested KUKKO-L-Boxx-System.
- Instructions and conversion table in the cover.
- Ball bearing puller
- Pulling hook sets
- Secure storage in special foam.

**Advantage**

- Quick and secure selection thanks to markings on the pulling hooks.
- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- Spindle head band prevents the wrench from slipping off.

Art.-No.	 40211761	 mm		Stück pieces		
<b>69-A</b>	-781391	20 - 110	6004-6013; 6201-6206; 6300-6305	7	L-Boxx MINI	
<b>69-B</b>	-781476	40 - 110	6011-6020; 6206-6212; 6305-6309; 6403-6407	7	L-Boxx MINI	
<b>69-C</b>	-781544	56 - 240	6021-6032; 6213-6230; 6310-6321; 6406-6417	10	L-Boxx	

**Universal set of separator, puller and ball bearing extractor****ST**

For simple and problem-free removal of ball bearings, cylinders, discs, pole wheels and similar parts on motorcycles and other small motors







29-A-69

**Description**

- Two-arm puller: Clamping span: 95 mm, clamping depth: 115 mm
- Clamping depth extensions 95 mm
- For separating and pulling bearings with an exterior diameter of 6-40 mm.
- Extraction of ball bearings, series 6004-6013, 6201-6206, 6300-6305
- Instructions on the cover.

**Advantage**

- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.	 40211761	 mm	 mm	 mm	 mm	Stück pieces		
<b>29-A-69</b>	-101878	25 - 95	115 - 210	6 - 40	6004-6013; 6201-6206; 6300-6305	12	12	i-Boxx



## Ball bearing extractor sets for deep-groove ball bearings

ST

To remove grooved ball bearings without causing damage and without having to dismantle the shaft.

70






### Description

- Kit in the tried-and-tested KUKKO-L-Boxx-System.
- Instructions and conversion table in the cover.
- Ball bearing puller
- Pulling hook sets
- Support rings

### Advantage

- Pulling hook developed specifically for precise installation in the bearing's tracks for ideal level of support and better extension force.
- Quick and secure selection thanks to markings on the pulling hooks.
- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.

Art.-No.			Stück pieces		
<b>70-K</b>	-786754	6000-6013; 6200-6207; 6300-6306	35	L-Boxx	
<b>70-A</b>	-022128	6000-6013; 6200-6212; 6300-6311; 6403-6408	57	L-Boxx	
<b>70-B</b>	-320866	6014-6021; 6213-6222; 6312-6317; 6409-6415	47	L-Boxx	

## Ball bearing extractors and pulling arm sets

ST

To remove grooved ball bearings without causing damage and without having to dismantle the shaft.

70





### Description

- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.			
<b>70-1</b>	-021138	70-711, 70-713, 70-712	
<b>70-2</b>	-021213	70-721, 70-722	
<b>70-3</b>	-021398	70-731, 70-732	
<b>70-4</b>	-316418	70-4730, 70-4731, 70-4733, 70-4734	

## Pulling hook sets

ST

To remove grooved ball bearings without causing damage and without having to dismantle the shaft.

70







## Description

- Pulling hooks.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.
- Self-healing corrosion protection KUKKCoating for galvanized parts.

## Advantage

- Pulling hook developed specifically for precise installation in the bearing's tracks for ideal level of support and better extension force.
- Quick and secure selection thanks to markings on the pulling hooks.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.			 Stück		
70-711	-021473	6000-6003; 6200	-	70-1	
70-712	-021541	6004-6006; 6201-6203; 6300	6	70-1	
70-713	-021626	6204-6205; 6301-6303	5	70-1	
70-721	-021701	6007-6013	1	70-2	
70-722	-021886	6011-6012; 6206-6207; 6304-6306	4	70-2	
70-731	-021961	6208-6210; 6307; 6403; 6407	6	70-3	
70-732	-022043	6211-6212; 6308-6311; 6404-6408	9	70-3	
70-4731	-320521	6018-6020; 6213-6213	6	70-4	
70-4733	-320781	6216-6222; 6312-6317; 6410-6415	19	70-4	
70-4734	-320606	6021; 6409	1	70-4	
70-4730	-320453	6014-6017	4	70-4	

## Ball bearing extractor set

ST

To remove grooved ball bearings without causing damage and without having to dismantle the shaft.

KS-70-A-K






## Description

- Kit in the tried-and-tested KUKKO-L-Boxx-System.
- Instructions and conversion table in the cover.
- Ball bearing puller
- Pulling hook sets
- Support rings

## Advantage

- Pulling hook developed specifically for precise installation in the bearing's tracks for ideal level of support and better extension force.
- Quick and secure selection thanks to markings on the pulling hooks.
- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.

Art.-No.			Stück pieces		
KS-70-A-K	-956362	6000-6013; 6200-6212; 6300-6311; 6403-6408	60	L-Boxx	


**Bearing fitting tool kit made of steel, heavy execution**
**ST**

For bearing installation with a hydraulic press or hammer.







# 71


**Description**

- For mobile use, we recommend Series 71-L.
- 33 impact rings made of extra strength steel.
- 5 strike pipes made of extra strength steel.
- 1 dead blow hammer
- Kit in the tried-and-tested KUKKO-L-Boxx-System.

**Advantage**

- The combination of impact ring and impact sleeve required for the installation of the ball bearing can be found in the table inside the case cover.
- The axes, bearing casings and gaskets of the bearing will not be damaged.
- With the combination of the impact ring and the impact pipe, the installation forces are never directed through the rolling elements of the bearing.

Art.-No.						Stück pieces		
71	-314841	mm	Stück	mm	mm	Stück	39	L-Boxx

**Bearing fitting tool kit made of steel, heavy execution**
**ST**

For bearing installation with a hydraulic press.







# 71-K


**Description**

- For mobile use, we recommend Series 71-L.
- 15 impact rings made of extra strength steel.
- 3 strike pipes made of extra strength steel.
- Kit in the tried-and-tested KUKKO-L-Boxx-System.
- Instructions and conversion table in the cover.

**Advantage**

- The combination of impact ring and impact sleeve required for the installation of the ball bearing can be found in the table inside the case cover.
- The axes, bearing casings and gaskets of the bearing will not be damaged.
- With the combination of the impact ring and the impact pipe, the installation forces are never directed through the rolling elements of the bearing.

Art.-No.						Stück pieces		
71-K	-403071	mm	Stück	mm	mm	Stück	18	Kunststoff

**Bearing fitting tool kit, light out on field model**
**ST**

For quick, precise and secure installation of bearings and seals.







# 71-L


**Description**

- For use with a hydraulic press, we recommend the sets series 71 and series 71-K.
- 33 impact rings made of extremely shockproof plastic
- 3 strike pipes made of anodized aluminum
- 1 dead blow hammer
- Kit in the tried-and-tested KUKKO-L-Boxx-System.

**Advantage**

- The combination of impact ring and impact sleeve required for the installation of the ball bearing can be found in the table inside the case cover.
- The axes, bearing casings and gaskets of the bearing will not be damaged.
- The impact rings have a rubber ring and ensure locking at the strike pipe.
- With the combination of the impact ring and the impact pipe, the installation forces are never directed through the rolling elements of the bearing.

Art.-No.						Stück pieces		
71-L	-782121	mm	Stück	mm	mm	Stück	37	L-Boxx

## Pulling chuck for deep groove bearing inner races

ST


For pulling separable bearing inner races with a diameter of 5-32 mm on magnets, light machines, electric motors and small electrical machinery.

23



### Description

- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

Art.-No.		 mm	
23	-012631	5 - 32	




## Seal disassembly tools

ST

For pulling out shaft sealing rings, radial wave sealing rings, gasket sealings, sealings, bearing sealing rings and rotary sealing rings

222



Art.-No.		 mm	 mm	
222-1	-035722	430	230	
222-U	-777791	300		

## Seal pulling set (gasket) in case

For pulling out shaft sealing rings, radial wave sealing rings, gasket sealings, sealings, bearing sealing rings and rotary sealing rings







### Description

- Instructions on the cover.
- Secure storage in special foam.
- Personal KUKKO-Chip-Code.

### Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.			Stück pieces			
K-222-1/7	-222757	222-1, 222-100, 222-U	7	L-Boxx	1	



## Circlip pliers, external

ST

# 728






### Description

- For the assembly of retaining rings on shafts.
- Powerful design, forged.
- Non-slip, stable tips.
- Body of pliers and tips: Chrome vanadium steel, forged, oil-hardened.

### Advantage

- Work comfortably in hard-to-reach places.
- Unimpeded view of work peaks.
- Easy access to covered retaining rings.

Art.-No.		 mm	 mm	
728T-A0	-139567	3 - 10	135	
728T-A1	-790546	10 - 25	135	
728T-A2	-790560	19 - 60	180	
728T-A3	-545764	40 - 100	225	
728T-A4	-790591	85 - 140	320	
728T-A01	-545757	3 - 10	135	
728T-A11	-790553	10 - 25	135	
728T-A21	-790577	19 - 60	180	
728T-A31	-790584	40 - 100	225	
728T-A41	-545771	85 - 140	320	

## Circlip pliers, internal

ST

# 729






### Description

- For the assembly of retaining rings on shafts.
- Powerful design, forged.
- Non-slip, stable tips.
- Body of pliers and tips: Chrome vanadium steel, forged, oil-hardened.

### Advantage

- Work comfortably in hard-to-reach places.
- Unimpeded view of work peaks.
- Easy access to covered retaining rings.

Art.-No.		 mm	 mm	
729T-J0	-139574	3 - 10	135	
729T-J1	-545788	10 - 25	135	
729T-J2	-545801	19 - 60	180	
729T-J3	-545825	40 - 100	225	
729T-J4	-545726	85 - 140	320	
729T-J01	-139581	3 - 10	135	
729T-J11	-545795	10 - 25	135	
729T-J21	-545818	19 - 60	180	
729T-J31	-545832	40 - 100	225	
729T-J41	-545849	85 - 140	320	

## Circlip pliers service set

ST

# 728






### Description

- For the assembly of retaining rings on shafts.
- Powerful design, forged.
- Non-slip, stable tips.
- Body of pliers and tips: Chrome vanadium steel, forged, oil-hardened.

### Advantage

- Work comfortably in hard-to-reach places.
- Unimpeded view of work peaks.
- Easy access to covered retaining rings.

Art.-No.			Stück pieces		
728T729	-647734	728T-A1, 728T-A11, 728T-A2, 728T-A21, 729T-J1, 729T-J11, 729T-J2, 729T-J21	8	Kunststoff	

The world first from Hilden!

# Europäer



Diamond mouth

Millimeter and inch scale

Plastic jaw



Art.- No.	Länge / length	Spannweite / width
	mm	mm
1900-30	150	30
1900-50	175	50
1900-75	250	75

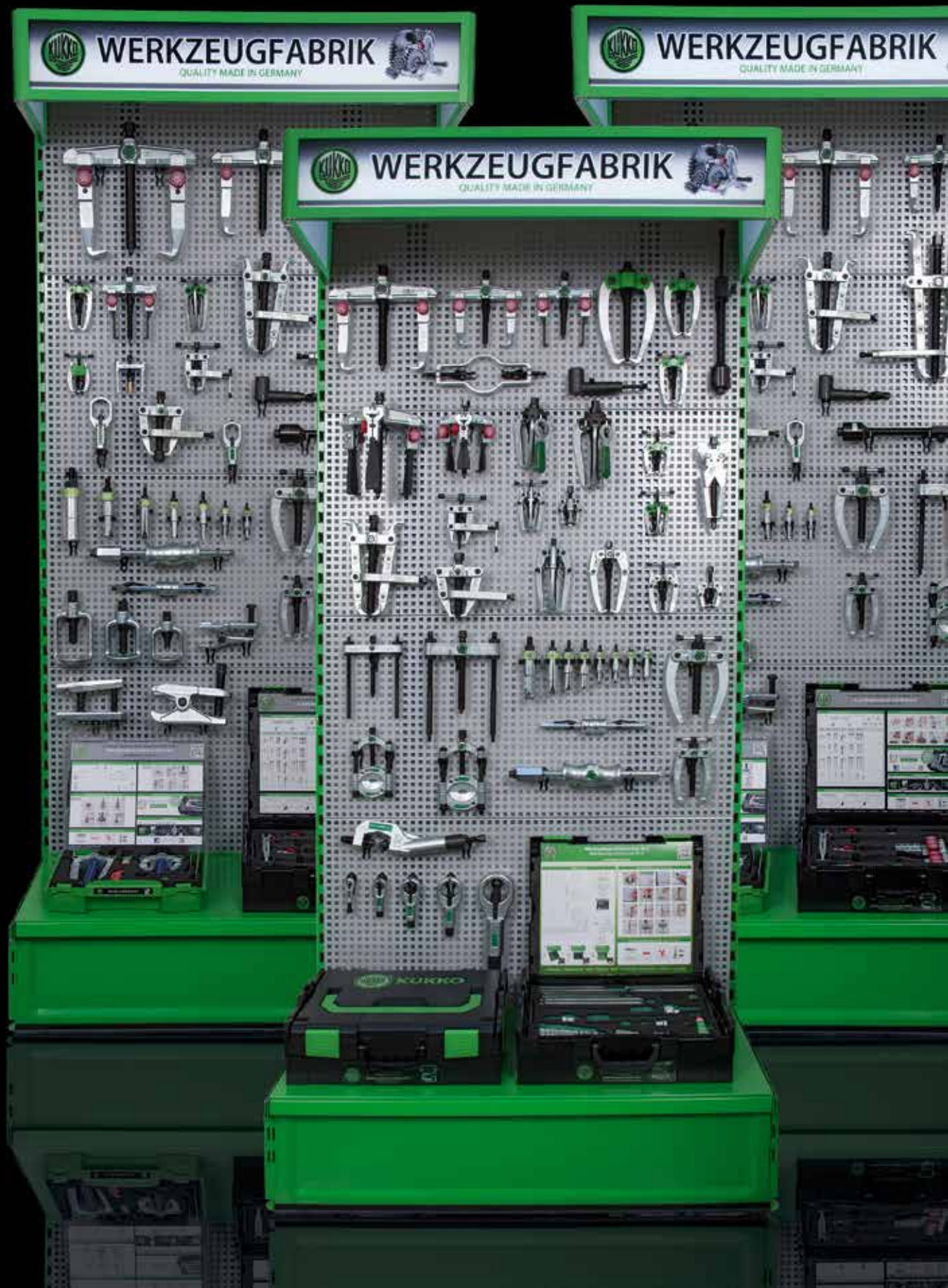


A world **in motion**  
since 1919!



**KUKKO**  
Kleinbongartz & Kaiser oHG







# Displays

## Displays

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### 05

Merchandiser..... **94**  
Verkaufswand

Wall panels..... **94-95**  
Wandtafeln

01

02

03

04

**05**

06

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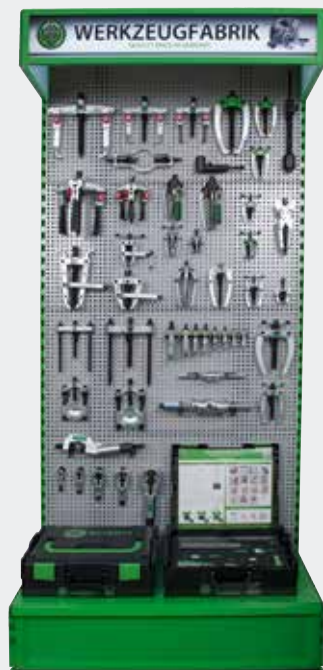
10





## Display

# INDUSTRIE




### Description

- More information about the products on this wall is provided on our website in the field **content**.
- Illuminated display.
- Quality made in Germany.

### Advantage

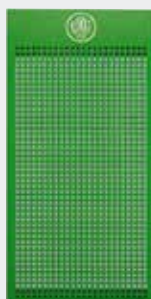
- The combination of tools is based on many years of user experience in various industries.
- Kukko supports the setup and training of your employees on the various products and pulling principles. Contact us for an individual consult.
- Labeling ensures simple replenishment of all distributed products.
- Complete easy-to-manage package.




<b>Art.-No.</b>		
<b>EVLW-1-INDUSTRIE</b>	-487842	Demand your individual offer.

## Wall panel, blank

For clean and orderly storage of various Kukko products in your workshop.

# WT-000



<b>Art.-No.</b>		 mm	 mm	
<b>WT-000</b>	-890550	500	1000	

## Universal pullers „Industrial set“ on wall panel

For clean and orderly storage of various Kukko products in your workshop.

# WT-002






### Description

- The combination of tools is based on many years of user experience in various industries.
- More information about the products on this wall is provided on our website in the field **content**.
- Quality made in Germany.

### Advantage

- Complete easy-to-manage package.
- Central access to products for every employee in the workshop.

<b>Art.-No.</b>		 mm	 mm	max. t	Stück pieces	
<b>WT-002</b>	-890567	90 - 200	100 - 150	7	11	

**hydraulic**  
TECHNOLOGY

**Glide&FIX**  
TECHNOLOGY

**ARMLOCK**  
TECHNOLOGY

**Quick adjust**  
TECHNOLOGY

## Universal pullers „Industrial set“ on wall panel

ST

For clean and orderly storage of various Kukko products in your workshop.

# WT-003






### Description

- The combination of tools is based on many years of user experience in various industries.
- More information about the products on this wall is provided on our website in the field **content**.
- Quality made in Germany.

### Advantage

- Complete easy-to-manage package.
- Central access to products for every employee in the workshop.

Art.- No.		 mm	 mm	Stück pieces	
WT-003	-890574	90 - 200	100 - 150	10	

## Universal tools „General engineering“ on wall panel

ST

For clean and orderly storage of various Kukko products in your workshop.

# WT-016








### Description

- The combination of tools is based on many years of user experience in various industries.
- More information about the products on this wall is provided on our website in the field **content**.
- Quality made in Germany.

### Advantage

- Complete easy-to-manage package.
- Central access to products for every employee in the workshop.

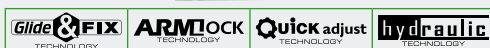
Art.- No.		 mm	 mm	 mm	 mm	max. t	Stück pieces	
WT-016	-893483	200	150 - 300	22 - 115	12 - 46	10	14	

## Universal puller set on wall panel

ST

For clean and orderly storage of various Kukko products in your workshop.

# WT-50







### Description

- The combination of tools is based on many years of user experience in various industries.
- More information about the products on this wall is provided on our website in the field **content**.
- Quality made in Germany.

### Advantage

- Complete easy-to-manage package.
- Central access to products for every employee in the workshop.

Art.- No.		 mm	 mm	 mm	max. t	
WT-50	-951114	0 - 200	100 - 300	22 - 115	4,5-6	







# Series 800

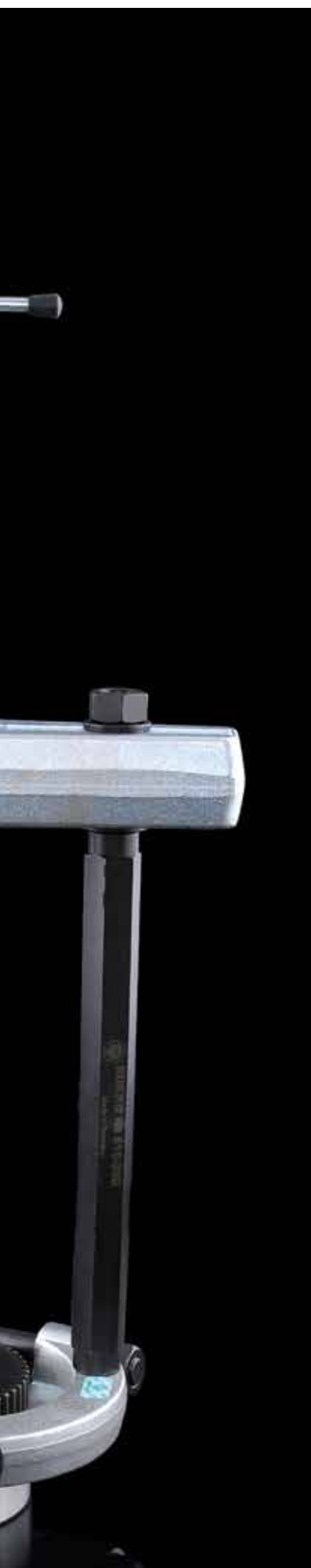
Baureihe 800

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## 06

Series 800.....	<b>98-104</b>
Baureihe 800	
Accessories series 800.....	<b>105-106</b>
Zubehör Baureihe 800	
Series 13.....	<b>107-108</b>
Baureihe 13	

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<b>06</b>
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## 2-jaw puller with short hydraulic spindle

ST

# 20-H






### Description

- Lubricating hydraulics.
- Standard pulling hook.
- Two-arm design for space-saving operation.
- Pulling hooks with infinite adjustment on the cross-beam.
- Parallel pulling hooks in every position, even with full load.

### Advantage

- Variable reach thanks to optional jaw extensions.
- Turning the pulling hooks enables them to be used both internally and externally.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.

Art.-No.				max.	mit with	
		mm	mm	t		
20-3-H	-786839	250	200	10	800	
20-30-H	-786914	350	200	10	800	

## 2-jaw puller with short hydraulic spindle

For removing bearings, gears, discs, etc.

ST

# 820







### Description

- Standard pulling hook.
- Pulling hooks with infinite adjustment on the cross-beam.
- Two-arm design for space-saving operation.
- Parallel pulling hooks in every position, even with full load.
- Hydraulic spindle.

### Advantage

- Turning the pulling hooks enables them to be used both internally and externally.
- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.

Art.-No.				max.	 max.	mit with	
		mm	mm	t	Nm		
820-0	-173684	225	225	10	40	800	



## Universal 2-jaw puller with short hydraulic spindle and self-centering jaws

ST

For pulling particularly tight bearings, gears, discs, etc.

# 844







### Description

- If there is adequate free space around the part to be removed, we recommend a 3-jaw puller series 845 for optimal force distribution.
- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Standard pulling hook.

### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm	max. t	 max. Nm	mit with	
844-1-B	-031601	50 - 100	100	10	40	800	
844-2-B	-031946	75 - 150	150	10	40	800	
844-3-B	-032448	75 - 150	250	10	40	800	
844-4-B	-076091	100 - 200	200	10	40	800	
844-5-B	-032776	130 - 250	250	10	40	800	

## Universal 3-jaw puller with short hydraulic spindle and self-centering jaws

ST

For pulling particularly tight bearings, gears, discs, etc.

# 845







### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 844 for optimal force distribution.
- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Standard pulling hook.

### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.		 mm	 mm	max. t	 max. Nm	mit with	
845-1-B	-033278	50 - 100	100	10	40	800	
845-2-B	-033438	75 - 150	150	10	40	800	
845-3-B	-033681	75 - 150	250	10	40	800	
845-4-B	-033841	100 - 200	200	10	40	800	
845-5-B	-034008	130 - 250	250	10	40	800	



### Hydraulic „4 Puller“ - Set with self-centering pulling jaws

ST

For removing bearings, gears, discs, etc.

# 845-150







#### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 844 for optimal force distribution.
- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Standard pulling hook.

#### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Practical package for universal use.

Art.-No.		 mm	 mm	max. t	Stück pieces		
845-150	-717871	50 - 150	150	10	11	L-Boxx	

### Hydraulic „6 Pullers“ - Set with self-centering pulling jaws

ST

For removing bearings, gears, discs, etc.

# 845-250







#### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 844 for optimal force distribution.
- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Standard pulling hook.

#### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Practical package for universal use.

Art.-No.		 mm	 mm	max. t	Stück pieces		
845-250	-717956	75 - 250	250	10	15	L-Boxx	

### Hydraulic „10 Pullers“ - Set with self-centering pulling jaws

ST

For removing bearings, gears, discs, etc.

# 845-851







#### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 844 for optimal force distribution.
- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Standard pulling hook.

#### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Practical package for universal use.

Art.-No.		 mm	 mm	max. t	Stück pieces		
845-851	-172854	50 - 250	250	10	21	Tanos Systainer	

## Universal hydraulic puller set with separator

For removing and separating bearings, gears, discs, etc.

# 845-855



### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 844 for optimal force distribution.
- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Standard pulling hook.

### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Practical package for universal use.

Art.-No.						max. t	Stück pieces		
845-855	-172939	50 - 250	250	280 - 780	25 - 155	10	29	Tanos Syster	

## Pulling device with hydraulic screw

For universal application with pullers from series 800.

# 818-0



### Description

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Hydraulic spindle.
- Milled thread treated with special coating.

### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- All components available as replacement parts, time-saving order process thanks to numbering system.

Art.-No.				max. t	 max. Nm	mit with	
818-0	-173196		240	10	40	800	

## Zinc die-cast

For extracting inner bearings, bearing outer rings and bushings.

# 818-021



### Description

- Series is built on a modular system.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.
- Self-healing corrosion protection KUKKCoating for galvanized parts.

### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		Ø mm		
818-021	-757969	30-180	818-0	



### Hydraulic bearing puller set

ST

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

# 818-100







#### Description

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Instructions on the cover.
- Secure storage in special foam.

#### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.

Art.-No.		 mm	 mm	max. t	Stück pieces		
<b>818-100</b>	-717611	280 - 530	22 - 115	10	10	L-Boxx	

### Hydraulic bearing puller set

ST

For removing ball bearings, roller bearings, inner races and other tight parts if there is not enough space to use pulling hooks.

# 818-150







#### Description

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Instructions on the cover.
- Secure storage in special foam.

#### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.

Art.-No.		 mm	 mm	max. t	Stück pieces		
<b>818-150</b>	-717796	280 - 780	25 - 155	10	12	L-Boxx	

### Hydraulic bearing puller and extractor set

ST

For extraction and internal extraction of ball bearings, roller bearings, inner races and other tight-fitting parts if there is not enough space to use pulling hooks.

# 818-215








#### Description

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Instructions on the cover.
- Secure storage in special foam.

#### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.

Art.-No.		 mm	 mm	 mm	max. t	Stück pieces		
<b>818-215</b>	-173271	280 - 780	25 - 155	30 - 180	10	16	Tanos Systainer	

# KUKKO i-BOXX® AND L-BOXX® SYSTEM



- ▶ Save keeping of the tools in special foam
- ▶ Instructions in the cover always remain visible with:
  - Statement of contents
  - Usage diagrams
  - Safety notes
- ▶ If you register online, the manufacturer's guarantee increased to 5 years.
- ▶ Special grease for pressure screws included
- ▶ Easy to grasp at a glance
- ▶ Connectable with the systems of other well known manufacturers



## ONE SYSTEM. A LOT OF POSSIBILITIES.

With the **KUKKO-i** and **L-BOXX-System** you get all opportunities. You can equip it with insert-boxes, deep drawing parts, foam inlets and different applications for the lid. Your tools, small parts or spare parts will be kept and transported safely and well arranged. The **KUKKO-i** and **L-BOXX-System** is the perfect mobile solution and can be integrated easily into most vehicles.



SECURE

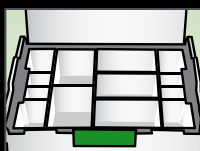


MOBILE

The new front handle for easy carrying the proven L-Boxx.



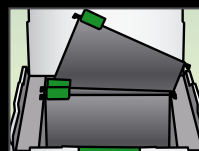
TOOLS



INSERT-BOXES



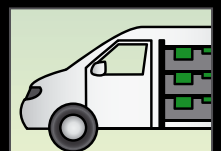
LOCKABLE



OFFICE



MAX. LOAD 100 KG



CAR HOLDER +  
CRASHSAFE





## Universal hydraulic puller and extractor set with self-centering jaws with separator

ST

For removal, separation and internal extraction of bearings, gears, discs, etc.

# 845-858










### Description

- If there is not adequate free space around the part to be removed, we recommend using a 2-jaw puller series 844 for optimal force distribution.
- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Standard pulling hook.

### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Practical package for universal use.

Art.-No.							max. t	Stück pieces		
845-858	-173011	50- 250	250	280-780	25- 155	30- 180	10	30	Tanos Systa- iner	

## Universal press frame for silent bushings

ST

For replacing bearings on front and rear axles without dismantling the axle, e.g. silent bearings, hydraulic supports, plastic bearings, supporting joints, absorber rubber.

# 880




### Description

- Series is built on a modular system.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Lubricating hydraulics.
- Hydraulic spindle.
- Milled thread treated with special coating.

### Advantage

- Pressure pad sets available for a variety of vehicle types.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Spindle head band prevents the wrench from slipping off.

Art.-No.		max. t	mit with	
880-800	-433689	10	800	
880-801	-433696	15	801	
880-802	-433702	20	802	

## Pressure piece kits for universal press frame

ST

# 880




### Description

- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- Pressure pad sets available for a variety of vehicle types.

Art.-No.		für for	Stück pieces	
880-114	-433610	DB W124; 201; 129	3	
880-137	-433627	BMW (3er); E36	4	
880-144	-433634	VW T4 (92)	4	
880-147	-433658	VW LT; DB Sprinter	4	

## Short hydraulic spindles

ST

For pulling particularly tight bearings, gears, discs, etc.

# 800



800






801  
802  
804

### Description

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Lubricating hydraulics.
- Hydraulic spindle.

### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- Piston functions on the axis and does not turn in the hydraulic spindle.
- Spindle extensions enable the unit to be adjusted quickly to a range of different requirements.
- Spindle head band prevents the wrench from slipping off.


Art.-No.				max. t	max. Nm	
800	-034343	W 1.1/2"-16(55°;16Gang)	10	13	10	40
801	-784446	W 1.1/2"-16(55°;16Gang)	10	19	15	70
802	-784514	M40x1,5	10	19	20	100
804	-456787	W 1.1/2"-16(55°;16Gang)	10	19	15	70
800-ERS	-244483	Verschleißteilsatz				
801-ERS	-788086	Verschleißteilsatz				
802-ERS	-788246	Verschleißteilsatz				
800017	-165351	Druckstück				

## Spindle extension

ST

# 800



Art.-No.		L mm	
800-050	-031113	50	
800-100	-031298	100	
800-150	-031373	150	

## Mechanical pressure screw

ST

For pulling particularly tight bearings, gears, discs, etc.

# 800-626






### Description

- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- Easy and even pulling for particularly tight parts thanks to transfer of force.
- Can be combined with various mechanical pulling devices from the KUKKO range.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.				
800-626	-969980	1.1/2"-16	818-0, 820-0, 844-000, 845-000	





## Hydraulic pressure screws

For removing bearings, gears, discs, etc.

# 844-626






### Description

- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- Easy and even pulling for particularly tight parts thanks to transfer of force.
- Can be combined with various mechanical pulling devices from the KUKKO range.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.				
<b>844-626</b>	-032851	1.1/2"-16	818-0, 820-0, 844-000, 845-000	

## Spare parts for assembly 844/845

# 844/845





### Description

- Series is built on a modular system.
- Pullers have the same hydraulic spindle.
- Easy-to-replace individual components that can be combined in a number of different ways.
- Strong design, high performance and long service life.
- Quality made in Germany.

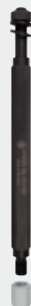
### Advantage

- Available as complete hydraulic pullers, individual parts and sets.
- Little force required for a strong pulling performance.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.		Bezeichnung description		
<b>844-000</b>	-031458	Traverse	844-1-B, 844-2-B, 844-3-B, 844-4-B, 844-5-B	
<b>844-020</b>	-135651	Gewindebuchse	844-1-B, 844-2-B, 844-3-B, 844-4-B, 844-5-B, 845-1-B, 845-2-B, 845-3-B, 845-4-B, 845-5-B	
<b>844-100</b>	-075919	Abzughaken	844-1-B, 845-1-B	
<b>844-150</b>	-031861	Abzughaken	844-2-B, 845-2-B	
<b>844-200</b>	-032363	Abzughaken	844-4-B, 845-4-B	
<b>844-250</b>	-032103	Abzughaken	844-3-B, 845-3-B	
<b>844-251</b>	-032691	Abzughaken	844-5-B, 845-5-B	
<b>845-000</b>	-033018	Traverse	845-1-B, 845-2-B, 845-3-B, 845-4-B, 845-5-B	

## Pulling bolts and extensions

# 818






### Description

- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 L mm		
<b>818-250</b>	-173356	250	818-0	
<b>818-280</b>	-173431	250	818-0	

## Series 13

### 3-jaw bearing puller with self-centering pulling hook and long hydraulic spindle (with handle)

ST

For pulling particularly tight ball bearings, roller bearings, etc.

# 13-HP






#### Description

- If there is not adequate free space around the part to be removed, we recommend using a hydraulic spindle series MP\_800\_short\_hydraulic spindles for ideal space-saving.
- Series is built on a modular system.
- With the new Kukko hydraulic spindles, it is now even easier to generate high pulling forces without having to apply a great deal of force.
- Three extension parts are included in the scope of delivery.
- Pullers have the same hydraulic spindle.

#### Advantage

- Clear reduction of dismantling times thanks to simple and fast handling.
- The hydraulic spindle can be combined with a number of pullers from the Kukko range.
- No additional oil pumps required as the system is closed.
- Hydraulic spindle is protected by an overloading valve.
- The pump's lever arm can be rotated by 360°.

Art.-No.				max.	mit with	
		mm	mm	t		
13-HP-100	-101236	130 - 250	250	10	8-HP-100	

### Seperators with 3 segments

ST

For gentle pulling for spherical roller bearings and angular roller bearings.

# 13-TP











#### Description

- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.
- Self-healing corrosion protection KUKKCoating for galvanized parts.

#### Advantage

- Segments are arranged on the inner race behind the bearing and therefore grip the entire bearing to ensure that the force is applied evenly.
- The even transfer of force on the inner race prevents the bearing ring from bending or warping when pulling.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.

Art.-No.									
		mm							
13-TP-1	-101823	12 - 50	21304-22310	C 2205-C 2210	61801-6410	-	-	30-10	
13-TP-2	-101830	25-100	22205-22320	C 2205-C 2320	61805-6320	BT2B 332759-617335	NN 4920-NN 4120	13-ME-180 13-HP-180	
13-TP-3	-101847	50-160	22211-23232	C 2211-C 3232	61811-6232	BT2B 332759-BT2B 332758	NN 4920-NNU4132	13-ME-180 13-HP-180	



## Pulling device

ST

For use with segments series 13-TP For gentle pulling for spherical roller bearings and angular roller bearings.

# 13-ME








### Description

- Mechanical pressure screw.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.
- Self-healing corrosion protection KUKKCoating for galvanized parts.

### Advantage

- Ultimate stability when pulling as the segments and pulling device are screwed firmly together.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.						
13-ME-180	-101922	245	80-280	24	13-TP-2, 13-TP-3	

## Puller with hydraulic spindle (with handle)

ST

For use with segments series 13-TP For gentle pulling for spherical roller bearings and angular roller bearings.

# 13-HP







### Description

- Hydraulic spindle.
- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.
- Self-healing corrosion protection KUKKCoating for galvanized parts.

### Advantage

- Ultimate stability when pulling as the segments and pulling device are screwed firmly together.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.				max.		
13-HP-180	-101250	245	80-280	t	13-TP-2, 13-TP-3	

## Long hydraulic spindles with handle

ST

For use with pulling devices series MP\_844, series MP\_845 and series MP\_13-HP

# 8-HP








### Description






- If there is not adequate free space around the part to be removed, we recommend using a hydraulic spindle series MP\_800\_short\_hydraulic spindles for ideal space-saving.
- Series is built on a modular system.
- With the new Kukko hydraulic spindles, it is now even easier to generate high pulling forces without having to apply a great deal of force.
- Three extension parts are included in the scope of delivery.
- Hydraulic spindle.

### Advantage

- Clear reduction of dismantling times thanks to simple and fast handling.
- The hydraulic spindle can be combined with a number of pullers from the Kukko range.
- No additional oil pumps required as the system is closed.
- Hydraulic spindle is protected by an overloading valve.
- The pump's lever arm can be rotated by 360°.

Art.-No.		max.					
8-HP-100	-101281	t	mm	mm	mm	13-HP-100, 13-HP-180, 13-ME-180, 818-0, 818-100, 818-150, 818-215, 820-0, 844-1-B, 844-2-B, 844-3-B, 844-4-B, 844-5-B, 845-1-B, 845-2-B, 845-3-B, 845-4-B, 845-5-B, 845-150, 845-250, 845-851, 845-855, 845-858, 880-800, 880-801, 880-802	



Art.- No.	 4021176	 mm	 mm	 mm	 mm
<b>720-028</b>	-058714	2; 3; 4; 5; 6; 8	42; 44; 45; 48; 48; 49	11	150

**Art.-No. 720-028**  
Pin drive set





# Nut splitting

## Mutterssprengen

### 07

Mechanic nut splitters..... **112**  
Mechanische Muttersprenger

Grease hydraulic nut splitters..... **113**  
Fetthydraulische Muttersprenger

Chain splitting and riveting tool..... **113**  
Kettenlöser- und Verniet-Werkzeug

01

02

03

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## Double-edged, mechanic nut splitters

**ST**

For splitting tight or over-twisted nuts without damaging the bolt thread of quality grades 5, 6, 8 and 10.

# 54









### Description

- Two hardened chisel cutting edges.
- Turn the chisel gently back in the other direction by pull back.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.

### Advantage

- The nut splitter's band provides additional support when turning the chisel back.
- Chisel available as a replacement part, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 M	 mm	 mm		
<b>54-2</b>	-170614	10-27	6-18	14	109	54-2-M	
<b>54-3</b>	-170799	17-36	12-24	16	134	54-3-M	
<b>54-2-M</b>	-253041	Ersatzmeißel				54-2	
<b>54-3-M</b>	-253126	Ersatzmeißel				54-3	

## Single-edged, mechanical nut splitters

**ST**

For splitting tight or over-twisted nuts without damaging the bolt thread of quality grades 5, 6, 8 and 10.

# 55









### Description

- Hardened chisel cutting edge.
- Turn the chisel gently back in the other direction by pull back.
- Mechanical pressure screw.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.

### Advantage

- The nut splitter's band provides additional support when turning the chisel back.
- Chisel available as a replacement part, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		 mm	 M	 mm	 mm		
<b>55-0</b>	-019906	4-10	M2-M6	8	58	55-0-M	
<b>55-1</b>	-020063	10-18	M6-M12	12	80	55-1-M	
<b>55-2</b>	-020148	19-27	M12-M18	14	105	55-2-M	
<b>55-3</b>	-020223	27-36	M18-M24	16	125	55-3-M	
<b>55-4</b>	-020308	32-50	M22-M33	26	203	55-4-M	
<b>55-0-M</b>	-252549	Ersatzmeißel				55-0	
<b>55-1-M</b>	-252624	Ersatzmeißel				55-1	
<b>55-2-M</b>	-252709	Ersatzmeißel				55-2	
<b>55-3-M</b>	-252884	Ersatzmeißel				55-3	
<b>55-4-M</b>	-252969	Ersatzmeißel				55-4	



## Single-edged, grease hydraulic nut splitters

ST

For splitting particularly large tight or over-twisted nuts without damaging the bolt thread of quality grades 5, 6, 8 and 10.

# 56

56-1



56-2



56-3



### Description

- Hardened chisel cutting edge.
- Turn the chisel gently back in the other direction by pull back.
- Hydraulic spindle.
- Milled thread treated with special coating.
- Strong design, high performance and long service life.

### Advantage

- Due to the hydraulics, only a little force is needed.
- Chisel available as a replacement part, time-saving order process thanks to numbering system.
- A tube of KUKKO special grease included for pressure spindle.
- Product video on the product can be opened.

Art.-No.		Edelstahl/ stainless steel	 mm	 M	 mm	 mm	max. t	max. Nm	
56-1	-020483	-	7-24	M4-M14	18	167	-	60	
56-2	-020551	-	22-36	M14-M24	30	249	-	70	
56-3	-111501	bis Güte 8 bis Güte 10	27-36 27-46	M18-M24 M18-M30	37	210	21	50	
56-1-M	-253201	Ersatzmeißel für 56-1							
56-2-M	-253386	Ersatzmeißel für 56-2							
56-3-M	-111518	Ersatzmeißel für 56-3							

## Chain splitting and riveting tool

ST

For splitting and riveting single strand roller chains.

# 59



### Description

- 14-parts for single strand roller chains per DIN 8187 and a bolt diameter of 3.28 – 5.72 mm, for splitting and riveting of single strand chains, e.g. for motorcycles
- For single strand roller chains per DIN 8187 and a bolt diameter of 3.28 – 5.72 mm
- The frame of the motorcycle (frame, swing arm) often makes it necessary to separate the chain directly on the vehicle. Use of „inappropriate“ tools such as screwdrivers or something similar is very likely to result in injury.

### Advantage

- Set includes a pressure adapter to properly adjust the distance of the riveting bolts. This ensures there is never too much pressure on the chain during attachment.

Art.-No.		 mm		Stück pieces		
K-59-1/14	-000461	3,28 - 5,72	59-1, 59-1-1, 59-1-2, 58-1	14	i-Boxx	





# Extractor

## Ausdreher

---

### 08

Bolt extractors..... **116-118**  
Schraubenausdreher

Stud extractors..... **118-119**  
Stehbolzen-Ausdreher

01

02

03

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## Bolt extractors with drills and drill-guide

ST

to bore out worn bolts, etc.

# 49-U






### Description

- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- All components available as replacement parts, time-saving order process thanks to numbering system.
- Product video on the product can be opened.

Art.-No.			 mm	
49-U-11	-799549	M5 - M7	3,2	
49-U-12	-799624	M8 - M9	4,8	
49-U-13	-799709	M10	6,4	
49-U-14	-799884	M12	8,0	
49-U-15	-799969	M14 - M16	8,7	

## Bolt extractor set

ST

Universal set for boring out worn bolts, etc.

# 49-U-B






### Description

- Instructions on the cover.
- Secure storage in special foam.
- Personal KUKKO-Chip-Code.
- Strong design, high performance and long service life.
- Quality made in Germany.

### Advantage

- Practical package for universal use.
- Complete easy-to-manage package.
- KUKKO-L-Boxx-System compatible with systems by all common manufacturers.
- All components available as replacement parts, time-saving order process thanks to numbering system.
- Product video on the product can be opened.

Art.-No.		 mm		Stück pieces	
49-U-B	-799136	M5 - M16	L-Boxx MINI	25	

## Bolt extractors german, shape with narrow flutes

ST

To bore out worn bolts with right-hand thread, etc.

# 49





### Description

- Chrome vanadium steel
- Square for operation with a tap spanner and an open-end spanner.

### Advantage

- Fine grooves offer better traction for convenient operation.

Art.-No.		 mm	
49-1	-018008	3 - 6	
49-2	-018183	6 - 8	
49-3	-018268	8 - 11	
49-4	-018343	11 - 14	
49-5	-018428	14 - 18	
49-6	-018596	18 - 24	
49-7	-018671	24 - 33	
49-8	-018756	33 - 45	
49-9	-018831	45 - 52	
49-10	-239809	52 - 64	

**Bolt extractor sets****ST**

To bore out worn bolts with right-hand thread, etc., in a set.




49

**Description**

- Chrome vanadium steel
- Square for operation with a tap spanner and an open-end spanner.

**Advantage**

- Fine grooves offer better traction for convenient operation.

Art.-No.		 mm	Stück pieces		
49-A	-018916	3 - 18	5	Kunststoff	
49-B	-019098	3 - 24	6	Kunststoff	
49-C	-019173	3 - 45	8	Kunststoff	

**Bolt extractors „Super Traction“****ST**

To bore out worn bolts with right-hand thread, etc.



49-T

**Description**

- Chrome vanadium steel
- Square for operation with a tap spanner and an open-end spanner.

**Advantage**

- Narrow grooves offer better traction for convenient operation.

Art.-No.		 mm	
49-T-1	-758461	4 - 5	
49-T-2	-758539	5 - 7	
49-T-3	-758614	8 - 12	
49-T-4	-758799	12 - 14	
49-T-5	-758874	16 - 20	

**Bolt extractor set „Super Traction“****ST**

To bore out worn bolts with right-hand thread, etc., in a set.




49-T-A

**Description**

- Chrome vanadium steel
- Square for operation with a tap spanner and an open-end spanner.

**Advantage**

- Narrow grooves offer better traction for convenient operation.

Art.-No.		 mm	Stück pieces		
49-T-A	-758959	4 - 20	5	Kunststoff	

**Bolt extractors, american shape with broad flutes****ST**

To bore out worn bolts with right-hand thread, etc.



49

**Description**

- Chrome vanadium steel
- Square for operation with a tap spanner and an open-end spanner.

**Advantage**

- Wide grooves for soft materials, e.g. brass, aluminum, VA, etc.

Art.-No.		 mm	
49-01	-490569	3 - 6	
49-02	-490644	6 - 8	
49-03	-490729	8 - 11	
49-04	-490804	11 - 14	
49-05	-490989	14 - 18	
49-06	-491061	18 - 24	



## Bolt extractor set, american shape with broad flutes

ST

To bore out worn bolts with right-hand thread, etc., in a set.

# 49-0-S





### Description

- Chrome vanadium steel
- Square for operation with a tap spanner and an open-end spanner.

### Advantage

- Wide grooves for soft materials, e.g. brass, aluminum, VA, etc.

Art.-No.		 mm	Stück pieces	
49-0-S	-491146	3 - 24	6	

## Stud pullers with internal serration

ST

For boring out stud bolts or torn parts.

# 50






### Description

- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

### Advantage

- While being bored out, the stud bolt is located in the key area and cannot break off.

Art.-No.		 mm	 mm	
50-1	-019258	5 - 10	17	
50-2	-019333	8 - 19	27	
50-3	-019418	18 - 25	36	

## Stud pullers with internal serration

ST




For boring out stud bolts or torn parts.

# 51



### Description

- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

Art.-No.		 mm	 mm	
51-1	-019586	5 - 10	19	
51-2	-019661	8 - 19	19	
51-3	-019746	18 - 25	19	

## Stud puller with extra wide working range

ST




For boring out stud bolts or torn parts.

# 52



### Description

- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

Art.-No.		 mm	 mm	
52	-019821	5 - 19	19	

**Stud pullers for confined spaces****ST**

For boring out stud bolts or torn parts.




53

**Description**

- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

**Advantage**

- Extra large working range.
- Use in cramped spaces.

Art.-No.		 mm	 mm	
53-5	-137860	5	21	
53-6	-342318	6	21	
53-7	-866234	7	21	
53-8	-342493	8	21	
53-10	-342561	10	21	
53-12	-342646	12	21	
53-14	-984563	14	27	
53-16	-388774	16	27	
53-18	-137846	18	36	
53-20	-745591	20	36	
53-22	-971082	22	36	
53-24	-966774	24	36	
53-30	-966781	30	46	

**Stud pullers set for confined spaces****ST**

For boring out stud bolts or torn parts in a set.





53

**Description**

- Strong design, high performance and long service life.
- Quality made in Germany.
- Safety label to ensure protection of intellectual property.

**Advantage**

- Use in cramped spaces.

Art.-No.		 mm	 mm	Stück pieces		
53	-342233	6; 8; 10; 12	21	4	Kunststoff	

**KUKKO Thread Repair Set**

For producing heavy-duty screw joints for distorted interior threading.






K-58

**Description**

- Fully-equipped with drill holder, 4 drills, 4 cutters, 4 thread cutters, 4 insertion tools and organic multi-oil spray.
- For metric threads M5, M6, M8 and M10.
- The original insert sleeve from the USA is made from a solid steel bushing manufactured from whole material.
- Instructions on the cover.
- Secure storage in special foam.

**Advantage**

- The shape of the bushing prevents unscrewing.
- The bond eliminates the need for additional mounting in the workpiece and provides stability without extra space requirement.
- Also capable of repairing short and small threads.
- The synchronous threading also enables thin wall thicknesses to be repaired.
- Thread Repair can do more than just repairs, it can also be used as a fully functional thread in new workpieces (during a production process).

Art.-No.		 mm	 mm	 mm	 Stück	
K-58-M05-M10	-038853	M5 - M10	0,8 - 1,0	7,6-15	8x5	







# Slogging spanners

## Schlagchlüssel

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### 09

Slogging spanners.....**122-123**  
Schlagschlüssel

01

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04

05

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**09**

10



## Open-end slogging spanners (~DIN 133)

**ST**

For use in commercial vehicles, the pipe industry, tank cleaning, the petrochemical industry, steel construction, mining, etc.

# 133






### Description

- Design according to DIN 133
- Strong design, high performance and long service life.

### Advantage

- Up to 525 mm length, made of chrome vanadium steel.
- Width across flats up to 120 mm.

Art.-No.		 mm	 mm	
<b>133-24</b>	-865213	24	160	
<b>133-27</b>	-854804	27	180	
<b>133-30</b>	-854989	30	190	
<b>133-32</b>	-855061	32	195	
<b>133-34</b>	-904394	34	195	
<b>133-36</b>	-855146	36	210	
<b>133-41</b>	-855221	41	225	
<b>133-46</b>	-855306	46	255	
<b>133-50</b>	-855481	50	280	
<b>133-55</b>	-855559	55	310	
<b>133-60</b>	-855634	60	320	
<b>133-65</b>	-855719	65	350	
<b>133-70</b>	-855894	70	370	
<b>133-75</b>	-855979	75	400	
<b>133-80</b>	-856051	80	405	
<b>133-85</b>	-856136	85	405	
<b>133-90</b>	-856211	90	455	
<b>133-95</b>	-856396	95	455	
<b>133-100</b>	-856471	100	500	
<b>133-105</b>	-865176	105	500	
<b>133-110</b>	-865183	110	500	
<b>133-115</b>	-865190	115	525	
<b>133-120</b>	-865206	120	525	

**Slogging spanners (~DIN 7444)****ST**




For use in commercial vehicles, the pipe industry, tank cleaning, the petrochemical industry, steel construction, mining, etc.

**Description**

- Design according to DIN 7444
- Strong design, high performance and long service life.

**Advantage**

- Up to 480 mm length, made of chrome vanadium steel.
- Width across flats up to 120 mm.

Art.- No.		 mm	 mm	
406-24	-856549	24	160	
406-27	-856624	27	180	
406-30	-856709	30	190	
406-32	-856884	32	195	
406-34	-904431	34	195	
406-36	-856969	36	205	
406-38	-865961	38	205	
406-41	-857041	41	225	
406-46	-857126	46	240	
406-50	-857201	50	250	
406-55	-857386	55	270	
406-60	-857461	60	270	
406-65	-857539	65	290	
406-70	-857614	70	320	
406-75	-857799	75	325	
406-80	-857874	80	345	
406-85	-857959	85	360	
406-90	-858031	90	400	
406-95	-858116	95	400	
406-100	-858291	100	400	
406-105	-858376	105	435	
406-110	-858451	110	435	
406-115	-858529	115	435	
406-120	-858604	120	480	

406





# TURNUS

## List

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## Hand vises for machines

With wide jaw, for clamping workpieces.

# 101








### Description

- Bracket from sturdy, alloyed, hardened and tempered steel, galvanized.
- Joint guide.
- Covered, captive round steel spring.
- Internal side of the jaw is serrated with prismatic incision.
- Wingnut

### Advantage

- Universal application.
- Extremely robust.

Art.-No.				L mm			
101-100	-535049	18	40	100		1	
101-120	-535124	22	45	120		1	
101-130	-535209	25	48	130		1	
101-145	-535384	28	52	145		1	
101-160	-535469	35	58	160		1	
101-180	-535537	40	60	180		1	
101-200	-535612	45	65	200		1	
101-101	-670337	Spindel, komplett			101-100, 101-120	1	
101-131	-670580	Spindel, komplett			101-130	1	
101-146	-670665	Spindel, komplett			101-145, 101-160	1	
101-181	-670825	Spindel, komplett			101-180	1	
101-201	-670900	Spindel, komplett			101-200	1	

## Hand vises with wrench

With wide jaw, hexagonal nut and wrench for clamping workpieces.

# 103








### Description

- Bracket from sturdy, alloyed, hardened and tempered steel, galvanized.
- Joint guide.
- Covered, captive round steel spring.
- Internal side of the jaw is serrated with prismatic incision.
- Wingnut

### Advantage

- Quick attachment using wrench.
- Universal application.
- Extremely robust.

Art.-No.				L mm			
103-160	-909833	35	58	160		1	
103-180	-527952	40	60	180		1	
103-200	-528034	45	65	200		1	
103-161	-810870	Spindel, komplett			103-160	1	
103-181	-671242	Spindel, komplett			103-180	1	
103-211	-671327	Spindel, komplett			103-200	1	
103-182	-527044	Schlüssel			103-180	1	
103-202	-527129	Schlüssel			103-200	1	
103-162	-909109	Schlüssel			103-160	1	



## Hand vises, double strong

With wide jaw, hexagonal nut and wrench for clamping workpieces.

# 106









### Description

- Bracket from sturdy, alloyed, hardened and tempered steel, galvanized.
- Joint guide.
- Covered, captive round steel spring.
- Internal side of the jaw is serrated with prismatic incision.
- Wingnut

### Advantage

- Quick attachment using wrench.
- Universal application.
- Extremely rugged design.

Art.-No.							
		mm	mm	mm			
<b>106-180</b>	-528782	40	68	180		1	
<b>106-200</b>	-528867	45	70	200		1	
<b>106-201</b>	-671990	Spindel, komplett			106-200, 109-160	1	
<b>106-202</b>	-527204	Schlüssel			106-200	1	

## Hand vises for installers

With wide jaw, hexagonal nut and wrench for clamping workpieces.

# 107








### Description

- Bracket from sturdy, alloyed, hardened and tempered steel, galvanized.
- Joint guide.
- Covered, captive round steel spring.
- Serrated surface inside the jaw.
- Wingnut

### Advantage

- Quick attachment using wrench.
- Universal application.
- Extremely robust.

Art.-No.						
		mm	mm	mm		
<b>107-200</b>	-528942	50	85	200	1	

## All-steel clamps

With wide jaw, hexagonal nut and wrench for clamping workpieces.

# 109








### Description

- Bracket from sturdy, alloyed, hardened and tempered steel, galvanized.
- Joint guide.
- Covered, captive round steel spring.
- Internal side of the jaw is serrated with prismatic incision.
- Wingnut

### Advantage

- Quick attachment using wrench.
- Universal application.
- Extremely robust.

Art.-No.				L mm			
<b>109-160</b>	-529024	40	65	160		1	
<b>109-180</b>	-529109	40	70	180		1	
<b>109-200</b>	-529284	50	80	200		1	
<b>109-250</b>	-529369	60	90	250		1	
<b>106-201</b>	-671990	Spindel, komplett			106-200, 109-160	1	
<b>109-181</b>	-672232	Spindel, komplett			109-180, 109-200	1	
<b>109-251</b>	-672492	Spindel, komplett			109-250	1	
<b>109-162</b>	-527389	Schlüssel			109-160	1	
<b>109-182</b>	-527464	Schlüssel			109-180, 109-200	1	
<b>109-252</b>	-527532	Schlüssel			109-250	1	

## Small stem file vises

With pointed jaw for clamping workpieces in combination with series520

# 112







### Description

- Bracket from sturdy, alloyed, hardened and tempered steel, galvanized.
- Joint guide.
- Covered, captive round steel spring.

### Advantage

- Universal application.
- Extremely robust.

Art.-No.				L mm		
<b>112-125</b>	-529444	30	30	125	1	
<b>112-150</b>	-529512	35	40	150	1	

### Small stem file vises

With fine jaws for clamping particularly fine workpieces.

# 113








#### Description

- Bracket from sturdy, alloyed, hardened and tempered steel, galvanized.
- Joint guide.
- Covered, captive round steel spring.
- Internal side of the jaw is serrated with prismatic incision.
- Wingnut

#### Advantage

- Secure hold thanks to knurled handle.
- Universal application.
- Extremely robust.

Art.-No.		 mm	 mm			
<b>113-115</b>	-599232	16	115		1	
<b>113-116</b>	-589745	7	115		1	
<b>113-130</b>	-599317	20	130		1	
<b>113-131</b>	-589820	10	130		1	
<b>113-117</b>	-599492	Spindel, komplett		113-115, 113-116, 113-130, 113-131	1	

### Hydraulics

With pointed jaw for clamping workpieces.

# 102








#### Description

- Bracket from sturdy, alloyed, hardened and tempered steel, galvanized.
- Joint guide.
- Covered, captive round steel spring.
- Serrated surface inside the jaw.
- Wingnut

#### Advantage

- Universal application.
- Extremely robust.

Art.-No.		 mm	 mm	 mm		
<b>102-120</b>	-527617	20	13	120	1	

## All steel screw clamps VIRIDIS with wood handle

For pressing and clamping several workpieces.

# 469






### Description

- Tension power of up to 5,000 N.
- Wooden handle
- Pressure plate with integrated spindle lock.
- Trapezoidal threaded spindle, gun-metal finished.
- Fixed clamp treated with cold-formed sectional steel.

### Advantage

- No risk of injury from ridges thanks to covered grip attachment in the wooden handle.
- Pressure plate with integrated spindle lock prevents loosening if the workpiece vibrates.
- Smooth-running trapezoidal spindles for even better transfer of force.

Art.-No.		 mm	 mm	
<b>469-0100-050</b>	-140304	100 x 50	11,5 x 5,7	
<b>469-0200-050</b>	-022822	200 x 50	11,5 x 5,7	
<b>469-0300-050</b>	-023676	300 x 50	11,5 x 5,7	
<b>469-0120-060</b>	-022686	120 x 60	13,5 x 6,5	
<b>469-0200-060</b>	-022990	200 x 60	13,5 x 6,5	
<b>469-0300-060</b>	-023744	300 x 60	13,5 x 6,5	
<b>469-0160-080</b>	-022754	160 x 80	16 x 7,5	
<b>469-0200-080</b>	-023058	200 x 80	16 x 7,5	
<b>469-0300-080</b>	-023812	300 x 80	16 x 7,5	
<b>469-0400-080</b>	-024598	400 x 80	16 x 7,5	
<b>469-0200-100</b>	-023126	200 x 100	19,5 x 9,5	
<b>469-0250-100</b>	-023232	250 x 100	19,5 x 9,5	
<b>469-0300-100</b>	-023980	300 x 100	19,5 x 9,5	
<b>469-0400-100</b>	-024666	400 x 100	19,5 x 9,5	
<b>469-0250-120</b>	-023294	250 x 120	22 x 10,5	
<b>469-0300-120</b>	-024116	300 x 120	22 x 10,5	
<b>469-0300-140</b>	-024284	300 x 140	25 x 12	
<b>469-0400-120</b>	-024734	400 x 120	25 x 12	
<b>469-0500-120</b>	-024802	500 x 120	25 x 12	
<b>469-0600-120</b>	-024970	600 x 120	25 x 12	
<b>469-0800-120</b>	-025038	800 x 120	27 x 13	
<b>469-1000-120</b>	-025106	1000 x 120	27 x 13	
<b>469-1250-120</b>	-025274	1250 x 120	27 x 13	
<b>469-1500-120</b>	-025342	1500 x 120	27 x 13	

## All steel clamp VIRIDIS with 3K comfort handle

For pressing and clamping several workpieces.

# 469+






### Description

- Tension power of up to 5,000 N.
- 3-part handle.
- Pressure plate with integrated spindle lock.
- Trapezoidal threaded spindle, gun-metal finished.
- Fixed clamp treated with cold-formed sectional steel.

### Advantage

- 3-part handle for maximum transfer of force, even when hands are wet or greasy.
- Pressure plate with integrated spindle lock prevents loosening if the workpiece vibrates.
- Smooth-running trapezoidal spindles for even better transfer of force.

Art.-No.		 mm	 mm	
469+0100-050	-018658	100 x 50	11,5 x 5,7	
469+0200-050	-019334	200 x 50	11,5 x 5,7	
469+0300-050	-020804	300 x 50	11,5 x 5,7	
469+0120-060	-018726	120 x 60	13,5 x 6,5	
469+0200-060	-019716	200 x 60	13,5 x 6,5	
469+0300-060	-020842	300 x 60	13,5 x 6,5	
469+0160-080	-018771	160 x 80	16 x 7,5	
469+0200-080	-020156	200 x 80	16 x 7,5	
469+0300-080	-020910	300 x 80	16 x 7,5	
469+0400-080	-021832	400 x 80	16 x 7,5	
469+0200-100	-020224	200 x 100	19,5 x 9,5	
469+0250-100	-020392	250 x 100	19,5 x 9,5	
469+0300-100	-021078	300 x 100	19,5 x 9,5	
469+0400-100	-021900	400 x 100	19,5 x 9,5	
469+0250-120	-020460	250 x 120	22 x 10,5	
469+0300-120	-021214	300 x 120	22 x 10,5	
469+0300-140	-021764	300 x 140	25 x 12	
469+0400-120	-021986	400 x 120	25 x 12	
469+0500-120	-022068	500 x 120	25 x 12	
469+0600-120	-022204	600 x 120	25 x 12	
469+0800-120	-022372	800 x 120	27 x 13	
469+1000-120	-022419	1000 x 120	27 x 13	
469+1250-120	-022518	1250 x 120	27 x 13	
469+1500-120	-022525	1500 x 120	27 x 13	

## All steel clamp VIRIDIS with locking handle

# 469K






### Description

- Tension power of up to 5,000 N.
- Locking handle
- Pressure plate with integrated spindle lock.
- Trapezoidal threaded spindle, gun-metal finished.
- Fixed clamp treated with cold-formed sectional steel.

### Advantage

- Pressure plate with integrated spindle lock prevents loosening if the workpiece vibrates.

Art.-No.		 mm	 mm	
469K0160-080	-025410	160 x 80	16 x 7,5	
469K0200-100	-025519	200 x 100	19,5 x 9,5	
469K0250-120	-025588	250 x 120	22 x 10,5	
469K0300-140	-025656	300 x 140	25 x 12	
469K0400-120	-026264	400 x 120	25 x 12	
469K0500-120	-026646	500 x 120	25 x 12	
469K0600-120	-027636	600 x 120	25 x 12	
469K0800-120	-027872	800 x 120	27 x 13	
469K1000-120	-027940	1000 x 120	27 x 13	
469K1250-120	-028008	1250 x 120	27 x 13	
469K1500-120	-028480	1500 x 120	27 x 13	

## All steel clamp quick lever VIRIDIS

For fast and effortless clamping of several workpieces with high clamping pressure.

# 472






### Description

- Tension power of up to 8,000 N.
- Lever handle
- Fixed clamp treated with cold-formed sectional steel.
- Hardened sliding arm, die-forged.

### Advantage

- Larger power reserves thanks to streamlined rail profile for an even application of clamping forces, particular when the clamping width is working at full capacity.
- Up to 5 times faster than standard clamps.
- Self-locking, not affected by vibrations.
- Release lever with non-slip protection.

Art.-No.		 mm	 mm	
<b>472H0120-060</b>	-029302	120 x 60	13,5 x 6,5	
<b>472H0160-080</b>	-030292	160 x 80	16 x 7,5	
<b>472H0200-100</b>	-030360	200 x 100	19,5 x 9,5	
<b>472H0250-120</b>	-030438	250 x 120	22 x 10,5	
<b>472H0300-140</b>	-030506	300 x 140	25 x 12	
<b>472H0400-120</b>	-030674	400 x 120	25 x 12	
<b>472H0500-120</b>	-030742	500 x 120	25 x 12	
<b>472H0600-120</b>	-030810	600 x 120	25 x 12	
<b>472H0800-120</b>	-030988	800 x 120	27 x 13	
<b>472H1000-120</b>	-031046	1000 x 120	27 x 13	

## All steel clamp VIRIDIS with locking handle

# 473K







### Description

- Tension power of up to 8,500 N.
- Locking handle
- Moving special push cap.
- Hexagonal spindle.
- Trapezoidal threaded spindle, gun-metal finished.

### Advantage

- Moving special press cap enables sloping workpieces up to 35° to be clamped.
- Hexagonal design enables a wrench, ratchet spanner or impact wrench to be used.
- Smooth-running trapezoidal spindles for even better transfer of force.

Art.-No.		 mm	 mm	 SW	
<b>473K0200-120</b>	-031596	200 x 120	27 x 13	14	
<b>473K0250-120</b>	-031664	250 x 120	27 x 13	14	
<b>473K0300-120</b>	-031732	300 x 120	27 x 13	14	
<b>473K0400-120</b>	-031800	400 x 120	27 x 13	14	
<b>473K0500-120</b>	-031978	500 x 120	27 x 13	14	
<b>473K0600-120</b>	-032036	600 x 120	27 x 13	14	

## Heavy duty all steel fitters clamp VIRIDIS with locking handle

For difficult and demanding conditions when clamping workpieces in steel constructions, locksmiths, commercial vehicle construction, mechanical engineering, etc.

# 475K







### Description

- Tension power of up to 12,000 N.
- Locking handle
- Moving special push cap.
- Hexagonal spindle.
- Trapezoidal threaded spindle, gun-metal finished.

### Advantage

- Moving special press cap enables sloping workpieces up to 35° to be clamped.
- Hexagonal design enables a wrench, ratchet spanner or impact wrench to be used.
- Smooth-running trapezoidal spindles for even better transfer of force.

Art.-No.		 mm	 mm	 SW	
<b>475K0250-120</b>	-032104	250 x 120	30 x 15	17	
<b>475K0300-140</b>	-032272	300 x 140	30 x 15	17	
<b>475K0500-140</b>	-032418	500 x 140	30 x 15	17	
<b>475K0800-140</b>	-032586	800 x 140	30 x 15	17	
<b>475K1000-120</b>	-032654	1000 x 120	30 x 15	17	
<b>475K1250-120</b>	-032722	1250 x 120	30 x 15	17	
<b>475K1500-120</b>	-032890	1500 x 120	30 x 15	17	

## All steel clamp VIRIDIS with locking handle

For extremely difficult and demanding conditions when clamping workpieces in steel constructions, locksmiths, commercial vehicle construction, mechanical engineering, etc.

# 480K






### Description

- Tension power of up to 22,000 N.
- Locking handle
- Moving special push cap.
- Hexagonal spindle.
- Trapezoidal threaded spindle, gun-metal finished.

### Advantage

- Moving special press cap enables sloping workpieces up to 35° to be clamped.
- Hexagonal design enables a wrench, ratchet spanner or impact wrench to be used.
- Smooth-running trapezoidal spindles for even better transfer of force.

Art.-No.		 mm	 mm	
<b>480K0300-175</b>	-033026	300 x 175	40 x 20	
<b>480K0400-175</b>	-033262	400 x 175	40 x 20	
<b>480K0500-175</b>	-033330	500 x 175	40 x 20	
<b>480K0600-175</b>	-033408	600 x 175	40 x 20	
<b>480K0800-175</b>	-033880	800 x 175	40 x 20	
<b>480K1000-175</b>	-033958	1000 x 175	40 x 20	
<b>480K1250-175</b>	-034184	1250 x 175	40 x 20	
<b>480K1500-175</b>	-034252	1500 x 175	40 x 20	



**Malleable cast iron clamp VIRIDIS with wooden handle**

For pressing and clamping several workpieces.




# 490


**Description**

- Tension power of up to 6,000 N.
- Wooden handle
- E-coating.
- Label with information regarding clamping span.
- Pressure plate with integrated spindle lock.

**Advantage**

- No risk of injury from ridges thanks to covered grip attachment in the wooden handle.
- Environmentally-friendly cathode electrical dipping coating ktl for complete and even coating on the clamp.
- Quick overview of all dimensions thanks to high-quality labelling with stickers in the clamps.
- Pressure plate with integrated spindle lock prevents loosening if the workpiece vibrates.
- Soft plastic protective caps to protect sensitive surfaces on workpieces.

Art.-No.		 mm	 mm	
490-0100-050	-034320	100 x 50	15 x 5	
490-0150-050	-038144	150 x 50	15 x 5	
490-0200-050	-038212	200 x 50	15 x 5	
490-0120-065	-037918	120 x 65	22 x 6	
490-0200-065	-000608	200 x 65	22 x 6	
490-0300-065	-001186	300 x 65	22 x 6	
490-0120-080	-038076	120 x 80	22 x 6	
490-0160-080	-038175	160 x 80	22 x 6	
490-0200-080	-000615	200 x 80	22 x 6	
490-0250-080	-000776	250 x 80	22 x 6	
490-0300-080	-001193	300 x 80	22 x 6	
490-0400-080	-001230	400 x 80	22 x 6	
490-0500-080	-001339	500 x 80	22 x 6	
490-0600-080	-001827	600 x 80	22 x 6	
490-0200-100	-000622	200 x 100	30 x 8	
490-0250-100	-001155	250 x 100	30 x 8	
490-0300-100	-001209	300 x 100	30 x 8	
490-0400-100	-001247	300 x 100	30 x 8	
490-0500-100	-001438	500 x 100	30 x 8	
490-0200-120	-000738	200 x 120	30 x 8	
490-0250-120	-001162	250 x 120	30 x 8	
490-0300-120	-001216	300 x 120	30 x 8	
490-0400-120	-001254	400 x 120	30 x 8	
490-0500-120	-001445	500 x 120	30 x 8	
490-0600-120	-001957	600 x 120	30 x 8	
490-0800-120	-002251	800 x 120	30 x 8	
490-1000-120	-002282	1000 x 120	30 x 8	
490-1250-120	-002404	1250 x 120	30 x 8	
490-1500-120	-002572	1500 x 120	30 x 8	
490-0300-140	-001223	300 x 140	35 x 9	
490-0400-140	-001261	400 x 140	35 x 9	
490-0500-140	-001452	500 x 140	35 x 9	
490-0600-140	-002169	600 x 140	35 x 9	
490-0800-140	-002268	800 x 140	35 x 9	
490-1000-140	-002299	1000 x 140	35 x 9	
490-0400-175	-001278	400 x 175	35 x 9	
490-0500-175	-001605	500 x 175	35 x 9	
490-0600-175	-002244	600 x 175	35 x 9	
490-0800-175	-002275	800 x 175	35 x 9	
490-1000-175	-002305	1000 x 175	35 x 9	

## Malleable cast iron clamp VIRIDIS with 3K comfort handle

For pressing and clamping several workpieces.

# 490+






### Description

- Tension power of up to 6,000 N.
- 3-part handle.
- E-coating.
- Label with information regarding clamping span.
- Pressure plate with integrated spindle lock.

### Advantage

- 3-part handle for maximum transfer of force, even when hands are wet or greasy.
- Environmentally-friendly cathode electrical dipping coating ktl for complete and even coating on the clamp.
- Quick overview of all dimensions thanks to high-quality labelling with stickers in the clamps.
- Pressure plate with integrated spindle lock prevents loosening if the workpiece vibrates.
- Soft plastic protective caps to protect sensitive surfaces on workpieces.

Art.-No.	 4027474	 mm	 mm	
490+0100-050	-034498	100 x 50	15 x 5	
490+0150-050	-034634	150 x 50	15 x 5	
490+0200-050	-034870	200 x 50	15 x 5	
490+0120-065	-034566	120 x 65	22 x 6	
490+0300-065	-035488	300 x 65	22 x 6	
490+0160-080	-034702	160 x 80	22 x 6	
490+0200-080	-035006	200 x 80	22 x 6	
490+0250-080	-035211	250 x 80	22 x 6	
490+0300-080	-035556	300 x 80	22 x 6	
490+0400-080	-035846	400 x 80	22 x 6	
490+0200-100	-035174	200 x 100	30 x 8	
490+0250-100	-035242	250 x 100	30 x 8	
490+0300-100	-035594	300 x 100	30 x 8	
490+0400-100	-035853	400 x 100	30 x 8	
490+0500-100	-036300	500 x 100	30 x 8	
490+0250-120	-035310	250 x 120	30 x 8	
490+0300-120	-035600	300 x 120	30 x 8	
490+0400-120	-036096	400 x 120	30 x 8	
490+0500-120	-036478	500 x 120	30 x 8	
490+0600-120	-036782	600 x 120	30 x 8	
490+0800-120	-037086	800 x 120	30 x 8	
490+1000-120	-037604	1000 x 120	30 x 8	
490+0300-140	-035617	300 x 140	35 x 9	
490+0400-140	-036164	400 x 140	35 x 9	
490+0500-140	-036546	500 x 140	35 x 9	
490+0600-140	-036850	600 x 140	35 x 9	
490+0800-140	-037154	800 x 140	35 x 9	
490+1000-140	-037772	1000 x 140	35 x 9	
490+0400-175	-036232	400 x 175	35 x 9	
490+0500-175	-036614	500 x 175	35 x 9	
490+0600-175	-036928	600 x 175	35 x 9	
490+0800-175	-037222	800 x 175	35 x 9	

## Malleable cast iron clamp VIRIDIS with locking handle

For pressing and clamping several workpieces.

# 490K






### Description

- Tension power of up to 6,000 N.
- Locking handle
- E-coating.
- Label with information regarding clamping span.
- Pressure plate with integrated spindle lock.

### Advantage

- Environmentally-friendly cathode electrical dipping coating ktl for complete and even coating on the clamp.
- Quick overview of all dimensions thanks to high-quality labelling with stickers in the clamps.
- Pressure plate with integrated spindle lock prevents loosening if the workpiece vibrates.
- Soft plastic protective caps to protect sensitive surfaces on workpieces.
- Interior non-slip device on the sliding arm provides additional support and prevents the piece from slipping (from 80 mm outreach).

Art.-No.		 mm	 mm	
<b>490K0160-080</b>	-002657	160 x 80	22 x 6	
<b>490K0200-100</b>	-002671	200 x 100	30 x 8	
<b>490K0250-120</b>	-002688	250 x 120	30 x 8	
<b>490K0300-120</b>	-002695	300 x 120	30 x 8	
<b>490K0400-120</b>	-002718	400 x 120	30 x 8	
<b>490K0500-120</b>	-002732	500 x 120	30 x 8	
<b>490K0600-120</b>	-002749	600 x 120	30 x 8	
<b>490K0800-120</b>	-002756	800 x 120	30 x 8	
<b>490K1000-120</b>	-002770	1000 x 120	30 x 8	
<b>490K0300-140</b>	-002701	300 x 140	35 x 9	
<b>490K0400-175</b>	-002725	400 x 175	35 x 9	

## Malleable cast iron clamp VIRIDIS with wooden handle

For pressing and clamping several workpieces.

# 493






### Description

- Tension power of up to 7,000 N.
- Wooden handle
- E-coating.
- Label with information regarding clamping span.
- Pressure plate with integrated spindle lock.

### Advantage

- No risk of injury from ridges thanks to covered grip attachment in the wooden handle.
- Environmentally-friendly cathode electrical dipping coating ktl for complete and even coating on the clamp.
- Quick overview of all dimensions thanks to high-quality labelling with stickers in the clamps.
- Pressure plate with integrated spindle lock prevents loosening if the workpiece vibrates.
- Soft plastic protective caps to protect sensitive surfaces on workpieces.

Art.-No.		 mm	 mm	
<b>493-0400-120</b>	-003562	400 x 120	35 x 11	
<b>493-0500-120</b>	-004262	500 x 120	35 x 11	
<b>493-0600-120</b>	-004279	600 x 120	35 x 11	
<b>493-0800-120</b>	-004286	800 x 120	35 x 11	
<b>493-1000-120</b>	-004293	1000 x 120	35 x 11	
<b>493-1250-120</b>	-004309	1250 x 120	35 x 11	
<b>493-1500-120</b>	-004316	1500 x 120	35 x 11	
<b>493-1800-120</b>	-004323	1800 x 120	35 x 11	
<b>493-2000-120</b>	-004330	2000 x 120	35 x 11	
<b>493-2200-120</b>	-004347	2200 x 120	35 x 11	
<b>493-2500-120</b>	-004354	2500 x 120	35 x 11	
<b>493-3000-120</b>	-004361	3000 x 120	35 x 11	

## Malleable cast iron clamp VIRIDIS with 3K comfort handle

For pressing and clamping several workpieces.

# 493+






### Description

- Tension power of up to 7,000 N.
- 3-part handle.
- E-coating.
- Label with information regarding clamping span.
- Pressure plate with integrated spindle lock.

### Advantage

- 3-part handle for maximum transfer of force, even when hands are wet or greasy.
- Environmentally-friendly cathode electrical dipping coating ktl for complete and even coating on the clamp.
- Quick overview of all dimensions thanks to high-quality labelling with stickers in the clamps.
- Pressure plate with integrated spindle lock prevents loosening if the workpiece vibrates.
- Soft plastic protective caps to protect sensitive surfaces on workpieces.

Art.-No.		 mm	 mm	
<b>493+0400-120</b>	-002817	400 x 120	35 x 11	
<b>493+0500-120</b>	-002824	500 x 120	35 x 11	
<b>493+0600-120</b>	-002855	600 x 120	35 x 11	
<b>493+0800-120</b>	-002862	800 x 120	35 x 11	
<b>493+1000-120</b>	-002879	1000 x 120	35 x 11	
<b>493+1250-120</b>	-003012	1250 x 120	35 x 11	
<b>493+1500-120</b>	-003234	1500 x 120	35 x 11	
<b>493+1800-120</b>	-003319	1800 x 120	35 x 11	
<b>493+2000-120</b>	-003364	2000 x 120	35 x 11	
<b>493+2200-120</b>	-003401	2200 x 120	35 x 11	
<b>493+2500-120</b>	-003418	2500 x 120	35 x 11	
<b>493+3000-120</b>	-003494	3000 x 120	35 x 11	

## Malleable cast iron clamp VIRIDIS with locking handle

For pressing and clamping several workpieces.

# 493K






### Description

- Tension power of up to 7,000 N.
- Locking handle
- E-coating.
- Label with information regarding clamping span.
- Pressure plate with integrated spindle lock.

### Advantage

- Environmentally-friendly cathode electrical dipping coating ktl for complete and even coating on the clamp.
- Quick overview of all dimensions thanks to high-quality labelling with stickers in the clamps.
- Pressure plate with integrated spindle lock prevents loosening if the workpiece vibrates.
- Soft plastic protective caps to protect sensitive surfaces on workpieces.
- Interior non-slip device on the sliding arm provides additional support and prevents the piece from slipping (from 80 mm outreach).

Art.-No.		 mm	 mm	
<b>493K0400-120</b>	-004378	400 x 120	35 x 11	
<b>493K0500-120</b>	-004385	500 x 120	35 x 11	
<b>493K0600-120</b>	-004392	600 x 120	35 x 11	
<b>493K0800-120</b>	-004408	800 x 120	35 x 11	
<b>493K1000-120</b>	-004415	1000 x 120	35 x 11	
<b>493K1250-120</b>	-004460	1250 x 120	35 x 11	
<b>493K1500-120</b>	-004477	1500 x 120	35 x 11	
<b>493K2000-120</b>	-004484	2000 x 120	35 x 11	
<b>493K2500-120</b>	-004491	2500 x 120	35 x 11	
<b>493K3000-120</b>	-004507	3000 x 120	35 x 11	

## All steel vises

For clamping workpieces.

# 520



### Description

- Gun-metal finished threaded key.
- Adjusting screws.
- Opens to the front.

### Advantage

- Available in the colors blue, red and anthracite.

Art.-No.			 mm	 mm	
<b>520-080</b>	-609474	blau	80	100	
<b>520-100</b>	-609542	blau	100	120	
<b>520-125</b>	-609627	blau	125	140	
<b>520-150</b>	-609702	blau	150	150	
<b>520-175</b>	-609887	blau	175	175	
<b>520-100-R</b>	-997090	rot	100	120	
<b>520-125-R</b>	-455668	rot	125	140	
<b>520-150-R</b>	-455880	rot	150	150	
<b>520-175-R</b>	-035808	rot	175	175	
<b>520-100-G</b>	-997083	grau	100	120	
<b>520-125-G</b>	-759865	grau	125	140	
<b>520-150-G</b>	-056179	grau	150	150	
<b>520-175-G</b>	-759872	grau	175	175	

## Parallel vises

For clamping workpieces.

# 525







### Description

- Made of forged steel.
- Induction-hardened, knurled jaws and smoothed surfaces.
- Gun-metal finished threaded key.
- Induction-hardened and smoothed anvil.
- Induction-hardened and smoothed sliding parts.

### Advantage

- Replaceable pipe clamping jaws.
- Available in the colors blue, red and anthracite.

Art.-No.			 mm	 mm	
<b>525-100</b>	-925185	blau	100	125	
<b>525-125</b>	-925192	blau	125	150	
<b>525-150</b>	-925208	blau	150	200	
<b>525-175</b>	-925215	blau	175	220	
<b>525-100-R</b>	-455675	rot	100	125	
<b>525-125-R</b>	-178796	rot	125	150	
<b>525-150-R</b>	-813468	rot	150	200	
<b>525-175-R</b>	-831332	rot	175	220	
<b>525-100-G</b>	-035815	grau	100	125	
<b>525-125-G</b>	-096991	grau	125	150	
<b>525-150-G</b>	-097028	grau	150	200	
<b>525-175-G</b>	-097042	grau	175	220	

## Rotating plate for vise



Can be combined with series 525 and series 520.

# 525



### Description

- Made of forged steel.
- Induction-hardened steel.

Art.-No.			
<b>525-102</b>	-928995	525-100	
<b>525-127</b>	-929015	525-125	
<b>525-152</b>	-929039	525-150	
<b>525-177</b>	-929053	525-175	



**Pipe clamping jaws, replaceable**

For clamping round workpieces.

525

**Description**

- Made of forged steel.
- Induction-hardened steel.



Art.-No.			
525-101	-928988	525-100	
525-126	-929008	525-125	
525-151	-929022	525-150	
525-176	-929046	525-175	

**Vise jaws with magnetic strips, aluminum, smooth**

Can be combined with series 525 and series 520.

545





Art.-No.		 mm	
545-080	-929060	80	
545-100	-929077	100	
545-115	-929084	115	
545-125	-929091	125	
545-135	-929107	135	
545-150	-929114	150	
545-180	-929121	180	

**Vise jaws with magnetic strips, red felt**

Can be combined with series 525 and series 520.

545F





Art.-No.		 mm	
545F100	-998424	100	
545F125	-914240	125	
545F150	-914257	150	
545F180	-029432	180	

**Vise jaws with magnetic strips, aluminum with rubber, gray**

Can be combined with series 525 and series 520.

545G

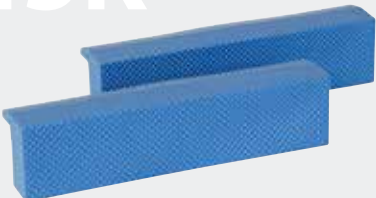




Art.-No.		 mm	
545G100	-914264	100	
545G125	-914271	125	
545G150	-998431	150	
545G180	-029456	180	

**Vise jaws with magnetic strips, plastic, blue**

Can be combined with series 525 and series 520.

545K

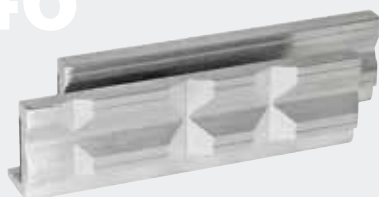




Art.-No.		 mm	
545K125	-280864	125	
545K140	-280871	140	
545K150	-998448	150	
545K160	-853440	160	

## Vise jaws with magnetic strips, aluminum with prisms

Can be combined with series 525 and series 520.

# 546





Art.-No.		 mm	
546-080	-929138	80	
546-100	-929145	100	
546-115	-929152	115	
546-125	-929169	125	
546-135	-929176	135	
546-150	-929183	150	
546-180	-929190	180	

## Vise jaws made of aluminum

Can be combined with series 525 and series 520.

# 550

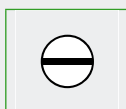


Art.-No.		 mm	
550-080	-609962	80	
550-100	-610029	100	
550-115	-610104	115	
550-125	-610289	125	
550-135	-610364	135	
550-150	-610449	150	
550-180	-701512	180	

## Screwdriver slot

For fine and delicate screw work in electronics, precision engineering, model building and crafts.

# 171








### Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

### Advantage

- Sensitive and quick screwing.
- Clear reduction of screwing times in electronics and precision engineering

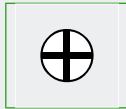
Art.-No.		 mm	 mm	 mm	 mm	
171-0806	-005429	0,2	0,8	60	140	
171-1206	-002008	0,2	1,2	60	140	
171-1506	-005443	0,25	1,5	60	140	
171-1806	-005450	0,3	1,8	60	140	
171-2006	-005467	0,4	2,0	60	140	
171-2506	-025960	0,4	2,5	60	140	
171-2507	-025977	0,4	2,5	75	155	
171-3010	-025984	0,5	3,0	100	180	
171-3015	-025991	0,5	3,0	150	230	
171-3024	-026011	0,5	3,0	240	320	
171-3510	-026028	0,6	3,5	100	180	
171-3515	-026035	0,6	3,5	150	230	
171-4010	-026042	0,8	4,0	100	180	
171-4015	-026059	0,8	4,0	150	230	



## Screwdriver PH

For fine and delicate screw work in electronics, precision engineering, model building and crafts.

171-PH







## Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

## Advantage

- Sensitive and quick screwing.
- Clear reduction of screwing times in electronics and precision engineering

Art.-No.			 mm	 mm	
<b>171-PH000</b>	-026080	PH000	60	140	
<b>171-PH00</b>	-026073	PH00	60	140	
<b>171-PH0</b>	-026066	PH0	60	140	
<b>171-PH108</b>	-026097	PH1	80	160	
<b>171-PH118</b>	-026103	PH1	185	265	
<b>171-PH128</b>	-026110	PH1	285	365	

## Screwdriver PZ

For fine and delicate screw work in electronics, precision engineering, model building and crafts.

171-PZ







## Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

## Advantage

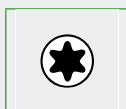
- Sensitive and quick screwing.
- Clear reduction of screwing times in electronics and precision engineering

Art.-No.			 mm	 mm	
<b>171-PZ0</b>	-002640	PZ0	60	140	
<b>171-PZ1</b>	-002664	PZ1	80	160	

## Screwdriver TX

For fine and delicate screw work in electronics, precision engineering, model building and crafts.

171-T







## Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

## Advantage

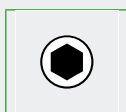
- Sensitive and quick screwing.
- Clear reduction of screwing times in electronics and precision engineering

Art.-No.			 mm	 mm	
<b>171-T01</b>	-002893	T01	60	140	
<b>171-T02</b>	-002909	T02	60	140	
<b>171-T03</b>	-002916	T03	60	140	
<b>171-T04</b>	-002923	T04	60	140	
<b>171-T05</b>	-002930	T05	60	140	
<b>171-T06</b>	-002947	T06	60	140	
<b>171-T07</b>	-998714	T07	60	140	
<b>171-T08</b>	-998721	T08	60	140	
<b>171-T09</b>	-998738	T09	60	140	
<b>171-T10</b>	-998745	T10	80	160	
<b>171-T15</b>	-998752	T15	80	160	
<b>171-T20</b>	-001414	T20	100	180	

## Hexagon precision screwdriver

For fine and delicate screw work in electronics, precision engineering, model building and crafts.

# 171-S



### Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

### Advantage

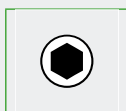
- Sensitive and quick screwing.
- Clear reduction of screwing times in electronics and precision engineering

Art.-No.					
			mm	mm	
<b>171-S07</b>	-005016	0,7	60	140	
<b>171-S09</b>	-005023	0,9	60	140	
<b>171-S13</b>	-314330	1,3	60	140	
<b>171-S15</b>	-895068	1,5	60	140	
<b>171-S20</b>	-005054	2,0	60	140	
<b>171-S25</b>	-998653	2,5	60	140	
<b>171-S30</b>	-998660	3,0	60	140	

## Hexagon precision screwdriver with ballhead

For fine and delicate screw work in electronics, precision engineering, model building and crafts.

# 171-SK



### Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

### Advantage

- Sensitive and quick screwing.
- Clear reduction of screwing times in electronics and precision engineering

Art.-No.					
		mm	mm	mm	
<b>171-SK15</b>	-005153	1,5	60	140	
<b>171-SK20</b>	-005160	2,0	60	140	
<b>171-SK25</b>	-005177	2,5	60	140	
<b>171-SK30</b>	-005184	3,0	60	140	

## Hexagon socket wrench

For fine and delicate screw work in electronics, precision engineering, model building and crafts.

# 171-ST



### Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

### Advantage

- Sensitive and quick screwing.
- Clear reduction of screwing times in electronics and precision engineering

Art.-No.					
			mm	mm	
<b>171-ST15</b>	-002787	1,5	60	140	
<b>171-ST20</b>	-002794	2,0	60	140	
<b>171-ST25</b>	-002800	2,5	60	140	
<b>171-ST30</b>	-998677	3,0	60	140	
<b>171-ST32</b>	-002831	3,2	60	140	
<b>171-ST35</b>	-002848	3,5	60	140	
<b>171-ST40</b>	-998684	4,0	60	140	
<b>171-ST45</b>	-998691	4,5	60	140	
<b>171-ST50</b>	-998707	5,0	60	140	
<b>171-ST55</b>	-002886	5,5	60	140	

## Precision screwdriver sets, in rolling case

For fine and delicate screw work in electronics, precision engineering, model building and crafts.

# 171-R



### Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

### Advantage

- Sensitive and quick screwing.
- Clear reduction of screwing times in electronics and precision engineering

Art.-No.						Stück pieces	
<b>171-R006</b>	-018115	1,5x60; 2,0x60; 2,5x75	PH00x60; PH0x60; PH1x60			6	
<b>171-R106</b>	-018122			TX04; 05; 06; 07; 08; 10		6	
<b>171-R206</b>	-018139				2,5; 3; 3,5; 4; 5; 5,5	6	

## Pick

For loosening tight sealing discs, separating cables in a cable harness and carrying out other work in the healthcare and automotive sectors.

# 177-P



### Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

### Advantage

- Both more sensitive and more heavy-duty work possible.

Art.-No.					
		mm	mm	mm	
<b>177-P000</b>	-017538	3,5	70	155	

## Pick 45°

# 177-P



### Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

### Advantage

- Both more sensitive and more heavy-duty work possible.

Art.-No.					
		mm	mm	mm	
<b>177-P045</b>	-017545	3,5	70	155	

## Pick 90°

# 177-P



### Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

### Advantage

- Both more sensitive and more heavy-duty work possible.

Art.-No.					
		mm	mm	mm	
<b>177-P090</b>	-017552	3,5	70	155	



## Mobile hydraulic tools

For loosening tight sealing discs, separating cables in a cable harness and carrying out other work in the healthcare and automotive sectors.

# 177-HP






### Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

### Advantage

- Both more sensitive and more heavy-duty work possible.

Art.-No.				Stück pieces	
<b>177-HP04</b>	-158132	177-P000, 177-P045, 177-P090, 177-H000	Kunststoff	4	

## Hook

For loosening tight sealing discs, separating cables in a cable harness and carrying out other work in the healthcare and automotive sectors.

# 177-H







### Description

- 2K handle with turning cap and quick-turning zone
- High-quality chromium vanadium molybdenum steel, hardened throughout.

### Advantage

- Both more sensitive and more heavy-duty work possible.

Art.-No.					
		mm	mm	mm	
<b>177-H000</b>	-017521	3,5	70	155	





## Hexagon screwdriver with T-grip

# 222-230



### Description

- Blade made from high-quality chromium vanadium steel 59 Cr Mo V 4
- Handle made from shockproof polypropylene (PPN) with hanging hole

Art.-No.					
			mm	mm	
<b>222-090</b>	-594695	2,0	100	70	
<b>222-100</b>	-700782	2,5	100	70	
<b>223-121</b>	-594855	3,0	100	70	
<b>223-150</b>	-594930	3,0	150	70	
<b>223-200</b>	-595012	3,0	200	70	
<b>224-100</b>	-700867	4,0	100	70	
<b>224-150</b>	-595272	4,0	150	70	
<b>224-200</b>	-595357	4,0	200	70	
<b>225-101</b>	-595432	5,0	100	90	
<b>225-150</b>	-595500	5,0	150	90	
<b>225-200</b>	-595685	5,0	200	90	
<b>226-100</b>	-595760	6,0	100	90	
<b>226-150</b>	-595845	6,0	150	90	
<b>226-200</b>	-595920	6,0	200	90	
<b>228-100</b>	-596002	8,0	100	90	
<b>228-150</b>	-596187	8,0	150	90	
<b>228-200</b>	-596262	8,0	200	90	
<b>230-100</b>	-596347	10,0	100	110	
<b>230-200</b>	-596422	10,0	200	110	





## Screwdriver with ballhead and T-grip

214



## Description

- Blade made from high-quality chromium vanadium steel 59 Cr Mo V 4
- Handle made from shockproof polypropylene (PPN) with hanging hole

Art.-No.					
		mm	mm	mm	
214-310	-699710	3	100	70	
214-410	-699895	4	100	70	
214-415	-699970	4	150	70	
214-510	-700034	5	100	90	
214-515	-700119	5	150	90	
214-615	-700294	6	150	90	
214-620	-700379	6	200	90	
214-815	-700454	8	150	90	
214-820	-700522	8	200	90	
214-910	-699550	10	200	110	




## TX T-handle socket screw drive

212



## Description

- Blade made from high-quality chromium vanadium steel 59 Cr Mo V 4
- Handle made from shockproof polypropylene (PPN) with hanging hole

Art.-No.					
			mm	mm	
212-108	-696177	TX 8	100	70	
212-109	-696252	TX 9	100	70	
212-110	-696337	TX 10	100	70	
212-115	-696412	TX 15	100	70	
212-120	-696580	TX 20	100	90	
212-125	-696665	TX 25	100	90	
212-127	-696740	TX 27	100	90	
212-130	-696825	TX 30	100	90	
212-140	-696900	TX 40	100	90	
212-145	-697082	TX 45	150	90	
212-150	-697167	TX 50	150	90	
212-215	-697242	TX 15	200	90	
212-220	-590550	TX 20	200	90	
212-225	-697327	TX 25	200	90	
212-227	-697402	TX 27	200	90	
212-230	-697570	TX 30	200	90	
212-240	-697655	TX 40	200	90	
212-245	-697730	TX 45	250	110	
212-250	-596750	TX 50	250	110	





## Hexagon socket wrench with T-grip

# 236



### Description

- Blade made from high-quality chromium vanadium steel 59 Cr Mo V 4
- Handle made from shockproof polypropylene (PPN) with hanging hole

Art.-No.			 mm	 mm	
236-050	-000974	5,0	230	110	
236-055	-000981	5,5	230	110	
236-060	-000998	6,0	230	110	
236-070	-001063	7,0	230	110	
236-080	-001070	8,0	230	110	
236-090	-001087	9,0	230	110	
236-100	-001094	10,0	230	110	
236-110	-001100	11,0	230	110	
236-120	-001117	12,0	230	110	
236-130	-001124	13,0	230	110	
236-140	-000530	14,0	230	110	
236-150	-117399	15,0	230	110	
236-160	-117405	16,0	230	110	
236-170	-001131	17,0	230	110	

## Offset blade screwdriver with ballhead, color coded, in holder

# 215BT





### Description

- High-quality chromium vanadium steel 59Cr Mo V4
- Front edge, clean fit.
- Nickel-plated (copper base).

### Advantage

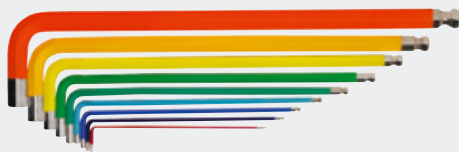
- The ballhead ensures problem-free screwing at an angle up to 30°.
- Color coding makes selection even easier.

Art.-No.			Stück pieces	
215BT004	-035228	1,5; 2,0; 2,5; 3,0; 4,0; 5,0; 6,0; 8,0; 10,0	9	

## Offset blade screwdriver with ballhead, long and color coded

For simple allocation.

# 213

















### Description

- High-quality chromium vanadium steel 59Cr Mo V4
- Front edge, clean fit.
- Nickel-plated (copper base).

### Advantage

- The ballhead ensures problem-free screwing at an angle up to 30°.

Art.-No.			 mm	 mm		
213BT015	-997243	1,5	91,5	15,5		
213BT002	-178550	2,0	102,0	18,0		
213BT025	-997267	2,5	114,5	20,5		
213BT003	-997182	3,0	129,0	23,0		
213BT004	-997199	4,0	144,0	29,0		
213BT005	-997205	5,0	165,0	33,0		
213BT006	-997212	6,0	186,0	38,0		
213BT008	-997229	8,0	208,0	44,0		
213BT010	-997236	10,0	234,0	50,0		

**TX offset blade screwdriver with ballhead in TURNUS-clip, color coded**

Makes work easier and is more resistant to wear-and-tear.



212BT

**Description**

- High-quality chromium vanadium steel 59Cr Mo V4
- Stability meets the requirements set out by the licenser Camcar, Textron U.S.A.

**Advantage**

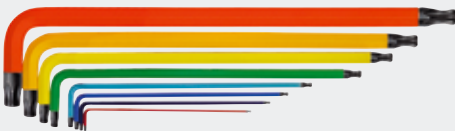
- Increased torque and added safety.
- The wavelike leveling provides a larger contact surface area between the tool and the screw.

Art.-No.			Stück pieces	
212BT260	-035143	9; 10; 15; 20; 25; 27; 30; 40	8	

**TX offset blade screwdriver with ballhead and with color coding**

Makes work easier and is more resistant to wear-and-tear.














212

**Description**

- High-quality chromium vanadium steel 59Cr Mo V4
- Stability meets the requirements set out by the licenser Camcar, Textron U.S.A.

**Advantage**

- Increased torque and added safety.
- The wavelike leveling provides a larger contact surface area between the tool and the screw.

Art.-No.			 mm	 mm		
212BT309	-997106	TX 9	67,0	19,0		
212BT310	-997113	TX 10	76,0	20,0		
212BT315	-997120	TX 15	86,5	20,5		
212BT320	-997137	TX 20	98,0	22,0		
212BT325	-997144	TX 25	100,5	22,5		
212BT327	-997151	TX 27	111,5	25,5		
212BT330	-997168	TX 30	125,0	30,0		
212BT340	-997175	TX 40	139,0	33,0		



## Arc punches DIN 7200A


For punching or manufacturing seals and sealing rings made from rubber, leather, felt, plastic, cork, fabric, etc.

# 326



### Description

- High-quality special grade tool steel.
- Die-forged.
- Cutting part is induction-hardened.
- Powerful design.
- Resistant stove-enamelling.

Art.-No.		Ø mm	
326-002	-620837	2	
326-003	-620912	3	
326-004	-621094	4	
326-005	-621179	5	
326-006	-621254	6	
326-007	-621339	7	
326-008	-621414	8	
326-009	-621582	9	
326-010	-621667	10	
326-011	-621742	11	
326-012	-621827	12	
326-013	-621902	13	
326-014	-622084	14	
326-015	-622169	15	
326-016	-622244	16	
326-017	-622329	17	
326-018	-622404	18	
326-019	-622572	19	
326-020	-622657	20	
326-021	-622732	21	
326-022	-622817	22	
326-023	-622992	23	
326-024	-623074	24	
326-025	-623159	25	
326-026	-623234	26	
326-027	-623319	27	
326-028	-623494	28	
326-029	-623562	29	
326-030	-623647	30	
326-031	-623722	31	
326-032	-623807	32	
326-033	-623982	33	
326-034	-624064	34	
326-035	-624149	35	
326-036	-624224	36	
326-037	-624309	37	
326-038	-624484	38	
326-039	-624552	39	
326-040	-624637	40	
326-041	-911003	41	
326-042	-624897	42	
326-043	-624972	43	
326-044	-625054	44	
326-045	-625139	45	
326-046	-625214	46	
326-047	-625399	47	
326-048	-625474	48	
326-049	-625542	49	
326-050	-625627	50	
326-055	-625702	55	
326-060	-625887	60	
326-065	-625962	65	
326-070	-626044	70	
326-075	-626129	75	
326-080	-626204	80	
326-085	-922320	85	
326-090	-626389	90	
326-095	-917128	95	
326-100	-626464	100	

### Arc punches set in wooden chest

For punching or manufacturing seals and sealing rings made from rubber, leather, felt, plastic, cork, fabric, etc.

# 326




#### Description

- High-quality special grade tool steel.
- Die-forged.
- Cutting part is induction-hardened.
- Powerful design.
- Resistant stove-enamelling.

#### Advantage

- Clean and organized thanks to the practical rolling case.

Art.-No.		Ø mm	Stück pieces	
<b>326-132</b>	-012076	2; 4; 6; 8; 10; 12; 14; 16; 18; 20	10	
<b>326-133</b>	-012083	2; 4; 6; 8; 10; 12; 14; 16; 18; 20; 22; 24; 26; 28; 30	15	
<b>326-134</b>	-012090	2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20	19	

### Arc punches set in a plastic rolling case

For punching or manufacturing seals and sealing rings made from rubber, leather, felt, plastic, cork, fabric, etc.

# 326




#### Description

- High-quality special grade tool steel.
- Die-forged.
- Cutting part is induction-hardened.
- Powerful design.
- Resistant stove-enamelling.

#### Advantage

- Clean and organized thanks to the practical rolling case.

Art.-No.		Ø mm	Stück pieces	
<b>326-109</b>	-916695	3; 5; 7; 9; 11; 13; 15; 17; 19	9	
<b>326-119</b>	-916701	2; 3; 4; 5; 6; 7; 8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20	19	
<b>326-120</b>	-626532	3; 5; 6; 8; 10; 12; 13; 14; 16; 19; 22; 25	12	
<b>326-130</b>	-997700	2; 4; 6; 8; 10; 12; 14; 16; 18; 20; 22; 24; 26; 28; 30	15	

### Arc punches set

For punching or manufacturing seals and sealing rings made from rubber, leather, felt, plastic, cork, fabric, etc.

# 326




#### Description

- High-quality special grade tool steel.
- Die-forged.
- Cutting part is induction-hardened.
- Powerful design.
- Resistant stove-enamelling.

#### Advantage

- Clean and organized thanks to the practical rolling case.
- In a practical plastic case for use on site.
- Plastic plate to place underneath the workpiece included in the set.

Art.-No.		Ø mm	Stück pieces	
<b>326-230</b>	-687991	2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-22-24-25-28-30	25	

## Stencil „Figures“



For marking with dye, even on uneven surfaces.

# 327



### Description

- Standardized type face in accordance with DIN 1451.
- Made from resistant and flexible sheet zinc.
- Includes setting corners for simple marking and linking of symbols.
- Sturdy and reusable.

Art.-No.		 mm		
<b>327-020</b>	-012106	20	0 - 9	
<b>327-030</b>	-998288	30	0 - 9	
<b>327-040</b>	-998295	40	0 - 9	
<b>327-050</b>	-998301	50	0 - 9	
<b>327-060</b>	-998318	60	0 - 9	
<b>327-070</b>	-915407	70	0 - 9	
<b>327-080</b>	-915414	80	0 - 9	
<b>327-100</b>	-915421	100	0 - 9	
<b>327-120</b>	-943691	120	0 - 9	
<b>327-150</b>	-943523	150	0 - 9	
<b>327-180</b>	-943707	180	0 - 9	
<b>327-200</b>	-941833	200	0 - 9	
<b>327-2025</b>	-944407	250	0 - 9	
<b>327-2030</b>	-998325	300	0 - 9	
<b>327-2040</b>	-998332	400	0 - 9	
<b>327-2050</b>	-998349	500	0 - 9	

## Stencil „Letters“



For marking with dye, even on uneven surfaces.

# 327



### Description

- Standardized type face in accordance with DIN 1451.
- Made from resistant and flexible sheet zinc.
- Includes setting corners for simple marking and linking of symbols.
- Lower case letters also available on request.
- Sturdy and reusable.

Art.-No.		 mm		
<b>327-220</b>	-915438	20	A - Z	
<b>327-230</b>	-915445	30	A - Z	
<b>327-240</b>	-915452	40	A - Z	
<b>327-250</b>	-915469	50	A - Z	
<b>327-260</b>	-915476	60	A - Z	
<b>327-270</b>	-915483	70	A - Z	
<b>327-280</b>	-915490	80	A - Z	
<b>327-300</b>	-915506	100	A - Z	
<b>327-320</b>	-943714	120	A - Z	
<b>327-350</b>	-943530	150	A - Z	
<b>327-380</b>	-943721	180	A - Z	
<b>327-400</b>	-943134	200	A - Z	
<b>327-4025</b>	-944445	250	A - Z	
<b>327-4030</b>	-000394	300	A - Z	
<b>327-4040</b>	-000400	400	A - Z	
<b>327-4050</b>	-000417	500	A - Z	

**Steel number set, standard, 9-piece**To clearly mark workpieces with a strength of up to 900 N/mm<sup>2</sup>.




328

**Description**

- Standardized type face in accordance with DIN 1451.
- Hardness of the engraving between 58 and 61 HRC.
- Side marking with font size, „Made in Germany“ and the safety notice „Wear eye protection“.

**Advantage**

- Particularly long service life as the engraving is performed using a cold-forming process that does not disrupt the material's fiber flow.
- Packaged in our tried-and-tested, break-proof plastic case.
- A sharpened exposed edge to the side of the engraving improves accuracy.

Art.-No.		<b>A</b> mm	 mm	 mm	
328-101	-266141	1,0	6	65	
328-1015	-926274	1,5	6	65	
328-102	-688257	2,0	6	65	
328-1025	-919320	2,5	6	65	
328-103	-688332	3,0	6	65	
328-104	-688417	4,0	7	65	
328-105	-688585	5,0	8	65	
328-106	-692520	6,0	9	70	
328-107	-804565	7,0	10	75	
328-108	-688660	8,0	11	75	
328-110	-688745	10,0	12	80	
328-112	-688820	12,0	14	80	
328-115	-010072	15,0	16	90	
328-120	-010096	20,0	20	100	

**Steel number set, heavy duty quality, 9-piece**




330

**Description**

- Standardized type face in accordance with DIN 1451.
- Hardness of the engraving between 60 and 62 HRC.
- Side marking with font size, „Made in Germany“ and the safety notice „Wear eye protection“.

**Advantage**

- Particularly long service life as the engraving is performed using a cold-forming process that does not disrupt the material's fiber flow.
- Packaged in our tried-and-tested, break-proof plastic case.
- A sharpened exposed edge to the side of the engraving improves accuracy.

Art.-No.		<b>A</b> mm	 mm	 mm	
330-501	-158200	1,0	7	70	
330-5015	-158217	1,5	7	70	
330-502	-928315	2,0	7	70	
330-5025	-224899	2,5	8	75	
330-503	-224905	3,0	8	75	
330-504	-928346	4,0	9	75	
330-505	-928353	5,0	10	75	
330-506	-928360	6,0	12	80	
330-508	-011314	8,0	14	80	
330-510	-928384	10,0	16	90	
330-512	-928391	12,0	18	95	
330-515	-928407	15,0	18	95	
330-520	-928414	20,0	20	100	

## Steel letter set, standard, 27-piece

To clearly mark workpieces with a strength of up to 900 N/mm<sup>2</sup>.

# 329







### Description

- Standardized type face in accordance with DIN 1451.
- Hardness of the engraving between 58 and 61 HRC.
- Side marking with font size, „Made in Germany“ and the safety notice „Wear eye protection“.

### Advantage

- Particularly long service life as the engraving is performed using a cold-forming process that does not disrupt the material's fiber flow.
- Packaged in our tried-and-tested, break-proof plastic case.
- A sharpened exposed edge to the side of the engraving improves accuracy.

Art.-No.		 mm	 mm	 mm	
329-201	-266493	1,0	6	65	
329-2015	-027605	1,5	6	65	
329-202	-688905	2,0	6	65	
329-2025	-919337	2,5	6	65	
329-203	-692605	3,0	6	65	
329-204	-689087	4,0	7	65	
329-205	-689162	5,0	8	65	
329-206	-689247	6,0	9	70	
329-207	-804572	7,0	10	70	
329-208	-689322	8,0	11	75	
329-210	-689407	10,0	12	80	
329-212	-689575	12,0	14	80	
329-215	-002220	15,0	16	90	
329-220	-002237	20,0	20	100	

## Steel letter set, heavy duty quality, 27-piece

# 331







### Description

- Standardized type face in accordance with DIN 1451.
- Hardness of the engraving between 60 and 62 HRC.
- Side marking with font size, „Made in Germany“ and the safety notice „Wear eye protection“.

### Advantage

- Particularly long service life as the engraving is performed using a cold-forming process that does not disrupt the material's fiber flow.
- Packaged in our tried-and-tested, break-proof plastic case.
- A sharpened exposed edge to the side of the engraving improves accuracy.

Art.-No.		 mm	 mm	 mm	
331-501	-928643	1,0	7	70	
331-5015	-928650	1,5	7	70	
331-502	-928667	2,0	7	70	
331-5025	-928674	2,5	8	70	
331-503	-928681	3,0	8	70	
331-504	-928698	4,0	9	70	
331-505	-928704	5,0	10	75	
331-506	-928711	6,0	12	80	
331-508	-928728	8,0	14	80	
331-510	-928735	10,0	16	90	
331-512	-928742	12,0	18	95	
331-515	-928759	15,0	18	95	
331-520	-928766	20,0	20	100	

### Set of nozzle reamers


For cleaning nozzles.

# 245



#### Description

- Induction-hardened and smoothed.
- Quality steel.
- Conical design.
- Shape with square hinge for attachment to the metal holder.

Art.-No.		Ø mm	Stück pieces	
245-004	-597412	0,6; 0,65; 0,7; 0,75; 0,8; 0,9; 1,0; 1,1; 1,3; 1,5; 1,7; 1,9	12	

### Tool and drill holder with ratchet

For threading and grinding.

# 280






#### Description

- Can be converted for right-hand and left-hand rotation plus rigid lock.
- Two jaw chuck for secure clamping for the square shafts.
- Sliding T-handle with grooved grid on the ends.
- Chrome-plated.

#### Advantage

- Suitable for particularly difficult-to-reach spots.

Art.-No.		 mm	 mm	
280-085	-910938	M3 - M10	85	
280-100	-910945	M5 - M12	100	

### Tool and drill holder with ratchet

For threading and grinding deep-set workpieces.

# 280






#### Description

- Can be converted for right-hand and left-hand rotation plus rigid lock.
- Two jaw chuck for secure clamping for the square shafts.
- Sliding T-handle with grooved grid on the ends.
- Chrome-plated.

#### Advantage

- Suitable for particularly difficult-to-reach spots.

Art.-No.		 mm	 mm	
280-250	-910952	M3 - M10	250	
280-300	-910969	M5 - M12	300	

### Washer cutter




For holding various tools for universal use.

# 300



#### Description

- Striated brass grip
- Two interchangeable clamping cartridges for various diameters.
- Square head nut.
- Quality made in Germany.

Art.-No.		 mm	 mm	
300-090	-601119	0 - 2,5	90	
300-100	-601294	0 - 3,2	100	
300-110	-601379	0 - 4	110	

### Washer cutter




For holding various tools for universal use.

# 310



#### Description

- Fully perforated.
- Knurled union nut.
- Serrated plastic handle.
- Perforated

Art.-No.		 mm	 mm	
<b>310-105</b>	-601454	0 - 1,2	105	
<b>310-110</b>	-601522	1,2 - 2,0	110	
<b>310-115</b>	-601607	2,0 - 3,0	115	
<b>310-135</b>	-601782	2,0 - 3,5	135	
<b>310-160</b>	-601867	3,0 - 4,5	160	
<b>310-170</b>	-601942	4,0 - 6,0	170	
<b>310-180</b>	-909215	6,0 - 8,0	180	

### Washer cutter




For holding various tools for universal use.

# 315



#### Description

- Brass
- Nickel-plated.
- Perforated

Art.-No.		 mm	 mm	
<b>315-801</b>	-701284	0 - 1,0	80	
<b>315-802</b>	-701369	1 - 2,0	80	

### Washer cutter




For holding various tools for universal use.

# 320



#### Description

- With 2 fixed welding tong components and head nuts.
- Brass shaft
- Grooved and nickel-plated
- Perforated

Art.-No.		 mm	 mm	
<b>320-115</b>	-602109	0 - 1,5 - 1,5 - 3,0	115	

### Circular pattern cutting snips



Light-weight design for cutting curves and for short straight cuts.

# 971



#### Description

- Cutting head made from STAINLESS STEEL, die-forged.
- Induction-hardened blades (54-58 HRC), finely serrated.
- Bracket made from sturdy plate steel with non-slip 2-component casing.
- Non-slip guard and integrated spring (self-opening).
- CUTTING PERFORMANCE: Sheets up to 1.2 mm, V2A sheets up to 1.0 mm.

Art.-No.		schneidend cut	 mm	
<b>971-240</b>	-557157	rechts / right	240	
<b>971-241</b>	-557232	links / left	240	





**Circular cutting snips**

Light-weight design for short and straight cuts.

971

**Description**

- Cutting head made from STAINLESS STEEL, die-forged.
- Induction-hardened blades (54-58 HRC), finely serrated.
- Bracket made from sturdy plate steel with non-slip 2-component casing.
- Non-slip guard and integrated spring (self-opening).
- CUTTING PERFORMANCE: Sheets up to 1.2 mm, V2A sheets up to 1.0 mm.

Art.-No.		schneidend cut	 mm	
971-242	-558222	links / left	240	



**Circular cutting snips**

Heavy duty design for cutting curves and for short straight cuts.

972

**Description**

- Cutting head made from STAINLESS STEEL, die-forged.
- Induction-hardened blades (54-58 HRC), finely serrated.
- Bracket made from sturdy plate steel with non-slip 2-component casing.
- Non-slip guard and integrated spring (self-opening).
- CUTTING PERFORMANCE: Sheets up to 1.8 mm, V2A sheets up to 1.2 mm.

Art.-No.		schneidend cut	 mm	
972-260	-558307	rechts / right	260	
972-261	-558482	links / left	260	



**Accessories for metal shears**

Light-weight design for straight end-to-end cuts and for cutting figures.

973

**Description**

- Cutting head made from STAINLESS STEEL, die-forged.
- Induction-hardened blades (54-58 HRC), finely serrated.
- Bracket made from sturdy plate steel with non-slip 2-component casing.
- Non-slip guard and integrated spring (self-opening).
- CUTTING PERFORMANCE: Sheets up to 1.2 mm, V2A sheets up to 1.0 mm.

Art.-No.		schneidend cut	 mm	
973-240	-558550	rechts / right	240	
973-241	-558635	links / left	240	



**Accessories for metal shears**

Heavy-duty design for straight end-to-end cuts and for cutting figures.

974

**Description**

- Cutting head made from STAINLESS STEEL, die-forged.
- Induction-hardened blades (58-62 HRC), finely serrated.
- Bracket made from sturdy plate steel with non-slip 2-component casing.
- Non-slip guard and integrated spring (self-opening).
- CUTTING PERFORMANCE: Sheets up to 1.8 mm, V2A sheets up to 1.2 mm.

Art.-No.		schneidend cut	 mm	
974-260	-558710	rechts / right	260	
974-261	-558895	links / left	260	



	Spannweite spread		Adapter Innenvierkant inner square drive (adapter)		Durchmesser des Sicherungs-Innenringes diameter of circlip (inner ring)
	Spanntiefe depth		Gewinde thread		Schlaghülsendurchmesser diameter of impact sleeves
	Höhe des Abzughakenfußes length of claw		Durchmesser des Gewindes thread diameter		Anzahl der Schlaghülsen number of impact sleeves
	Abzughakenlänge length of the jaw		Länge des Gewindes length of thread		Durchmesser des Schlagringes diameter of impact ring
	Höhe der Verlängerung length of extension		Gewindelänge der hydraulischen Spindel thread length of hydraulic spindle		Anzahl der Schlagringe number of impact rings
	Fußöffnung des Abzughakens opening of claw end		Spindelspitzendurchmesser diameter of cone end		Anzahl der Abstützringe number of rings
	Länge der Spindel spindle length		Spindelspitzenhöhe length of cone end		Bohrerdurchmesser diameter of drill
	Antrieb Außensechskant hexagon drive (male)		Spannweite der Zwinke spread of clamp		Durchmesser der Insert-Hülse diameter of insert sleeve
	Antrieb Außenvierkant square drive (male)		Mutterngröße nut size		Länge der Insert Hülse length of insert sleeve
	Antrieb Innensechskant hexagon drive (female)		Schneidbereich cutting area		Steigung der Insert Hülse thread pitch of insert sleeve
	Antrieb Innenvierkant square drive (female)		Länge ohne Druckspindel length (without pressure spindle)		Anzahl der Hülsen number of sleeves
	Gabelöffnung fork opening		Anzahl der Spanntiefenverstellung number of positions		Kettenbolzendurchmesser diameter of chain pin
	Gabelöffnung konisch fork opening (conical)		Anzahl der Arme number of jaws		Schlagweg length of impact area
	Hebelspannbereich opening range		Höhe des Zylinders height of cylinder		Schlagmasse mass
	Gabelöffnung fork opening		Hub cylinder stroke		Lenksäulendurchmesser diameter of steering column
	lichte Höhe clear height		Federspannbereich spread		Lochkreisdurchmesser diameter of bolt circle
	lichte Weite clear width		Federdurchmesser diameter		Spreizbereich spread area
	Fußstärke thickness (of material)		Anzahl der Federhalter number of segments		Gewindedurchmesser der Schraube thread diameter
	Durchmesser der Trennmesser diameter of separator		Breite des Grundgerätes width of basic unit		Stehbolzendurchmesser bolt diameter
	Abstand der Seitenbolzen distance of side screw		Höhe des Grundgerätes height of basic unit		Durchmesser des Spannfutters diameter of chuck
	Zugbolzenweite distance of side screw		Spannweite der Klemmbacken spread		Ventilfederspannweite spread of valve spring
	Zugbolzentiefe depth		Durchmesser der Flansche diameter of flanges		Bereich der Spannung voltage area
	Einsatztiefe effective depth		Kugellager ISO ball bearing ISO		Fördervolumen flow volume
	Länge der Innenauszieher length of internal		Innendurchmesser des Kugellagers inner diameter of ball bearings		nutzbares Ölvolumen effective volume
	Anzahl Segmente number of segments		Maximalgewicht des Kugellagers maximum weight of ball bearing		Inhalt content
	Gewinde des Adapters (Werkstückseite) thread of adapter		Durchmesser des Kolbenringes diameter of piston ring		Kompatibel mit compatible with
	Gewinde des Adapters (Zugbolzenseite) thread of adapter		Spanndurchmesser spread		Farbe color
	Anzahl der Adapter number of adapters		Spannhöhe height		Verpackungseinheit package unit
	Adapter Innensechskant inner hexagon drive (adapter)		Durchmesser des Sicherungs-Außenringes diameter of circlip (outer ring)		Gewicht weight



## Sicherheits- und Gebrauchshinweise

### Precautionary notes and helpful hints

Werkzeuge dürfen grundsätzlich nur ihrem Zweck entsprechend, unter den vorgesehenen Bedingungen und innerhalb der Gebrauchsbeschränkungen benutzt werden.

All tools must always be used for the intended purposes under the envisioned conditions and within their postulated limitations.



Überprüfen Sie regelmäßig den Zustand des Werkzeuges und ersetzen Sie beschädigte oder abgenutzte Teile.

Check the condition of your tools at regular intervals, and replace any damaged or worn parts.



Halten Sie die Gewinde von Spindeln und Traversen stets rein und immer gut geölt.

Keep the threads of all spindles, heads, etc. clean and well oiled.



Informieren Sie sich vor dem Einsatz über den richtigen Gebrauch des anzuwendenden Abziehwerkzeuges, unter Berücksichtigung der dabei erforderlichen Sicherheitsmaßnahmen. Before you start work, acquaint yourself with the proper use of the tool or tools in question, with due attention to pertinent safety measures.



Sofern über einen der genannten Punkte die geringste Unsicherheit besteht, sollte zur Klärung werkseitige Anwendungsberatung eingeholt werden.

If anything at all is unclear about any of the above, it is best to call the factory for some firsthand advice.



Vergewissern Sie sich vor dem Einsatz, daß sich das Abziehwerkzeug in einwandfreiem Zustand befindet.

Prior to starting work, make sure that the pulling tool is in good working order.



Überprüfen Sie die korrekte Anbringung des Werkzeuges und überwachen Sie während des Abziehvorganges die auftretenden Kräfte.

Double-check the tool for correct mounting, and monitor the forces incidental to the pulling process.



Überschreiten Sie niemals, die für das Werkzeug vorgegebenen Belastungswerte. Kontrollieren Sie die Aufbringung der Abziehkraft bei mech. Abziehwerkzeugen durch Verwendung eines Drehmomentschlüssels und bei pumpenbetriebenen, hydr. Abziehwerkzeugen durch ein Manometer. Never violate the maximum load data prescribed for the tool in question. Use a torque wrench (for mechanical/pressure-screw-driven tools) or a pressure gauge (hydraulic/pump-driven tools) to keep tabs on the applied forces.



Tragen Sie stets eine Schutzbrille und geeignete Schutzkleidung.

Always wear suitable personal protective equipment, including protective goggles.



Umhüllen Sie zum Schutz gegen das bei Abzieharbeiten immer mögliche ruckartige Ablösen Abziehwerkzeug und abzuziehendes Teil mit einer Unfallschutzplane. Always wrap the pulling tool and the workpiece in a protective blanket as a precaution against the potential effects of sudden release.



Bei Überlastungserscheinungen, Schwergängigkeit usw. ist der Abziehvorgang zu unterbrechen und eine größere Ausführung der entsprechenden Baureihe einzusetzen. If the tool appears to be overloaded, works sluggishly, or is otherwise negatively conspicuous, interrupt the pulling process, and replace the tool with a larger model.



Verwenden Sie keine elektrischen oder pneumatischen Kraft- oder Schlagschrauber zum Betätigen von Abziehwerkzeugen.

Never use an electric- or pneumatic-powered impact/hammer drill for driving a pulling tool.



Verwenden Sie keine Verlängerungen zur Erhöhung des übertragenen Drehmomentes.

Never use extensions to increase the applied torque.



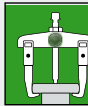
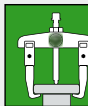
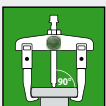
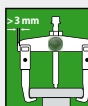
Nehmen Sie keinerlei Veränderung an den Produkten vor.

Never alter a pulling tool or related product in any way.



Da Stahl unter Wärmeeinfluß seine Festigkeitseigenschaften verändert, dürfen Abziehwerkzeuge bei evtl. Anwärmen abzuziehender Teile nicht miterwärmt werden.

Since heat detracts from the thermal properties of steel, and since some parts require heating to facilitate their removal, remember to never heat the pulling tool along with the part.



Die optimierte Geometrie von Traverse und Gleitstücken sorgt für besonders leichtes Verschieben der Abzughaken auf der Traverse.

The geometry of the cross-bar and sliding parts has been optimized to ensure particularly easy movement of the extractor jaws along the cross-bar.



Die Kreuzhaken garantieren maximale Stabilität der Aufhängung der Abzughaken im Gleitstück.

The cross-jaws guarantee maximum stability for the mounted sliding parts and jaws.



Ermöglicht durch die Handstellrändel ein schnelles Lösen und Verschieben, der Abzughaken auf der Traverse, ohne Schraubenschlüssel.

A manual adjustment knurl allows rapid loosening and adjusting of the extractor jaws without using a wrench.



Leichtes Drehen der Betätigungsmutter durch eingebautes Drucklager. Der Reibungswiderstand wird auf ein Minimum reduziert.

The operating nut is easy to turn thanks to a built-in pressure bearing. Resistance from friction is reduced to a minimum.



Leichtgängige, selbstverstellbare Abzughaken mit innenliegender Federung.

Smooth-running, self-adjusting spring-back jaws.



Automatische Selbstspannung und Selbstzentrierung der Abzughaken.

Automatic tensioning and centering of the extractor jaws.



Durch das Drehen der Feststellschraube werden die Abzughaken zentrisch angespannt und greifen so fest um das abzuziehende Teil. Ein Bewegen oder Abrutschen wird so verhindert.

By turning the locking bolt the jaws are centered and tensioned and therefore firmly grip the piece to be pulled off. This prevents the jaws moving or slipping off.



Einzigartiges, leichtes Zurückdrehen des Mutternsprenger-Meißels aus verformten oder gesprengten Muttern. Der Meißel bleibt nicht in der Mutter hängen.

Unique, simple pullback of the nut splitter chisel to remove it from deformed or split nuts. The chisel does not get stuck in the nut.

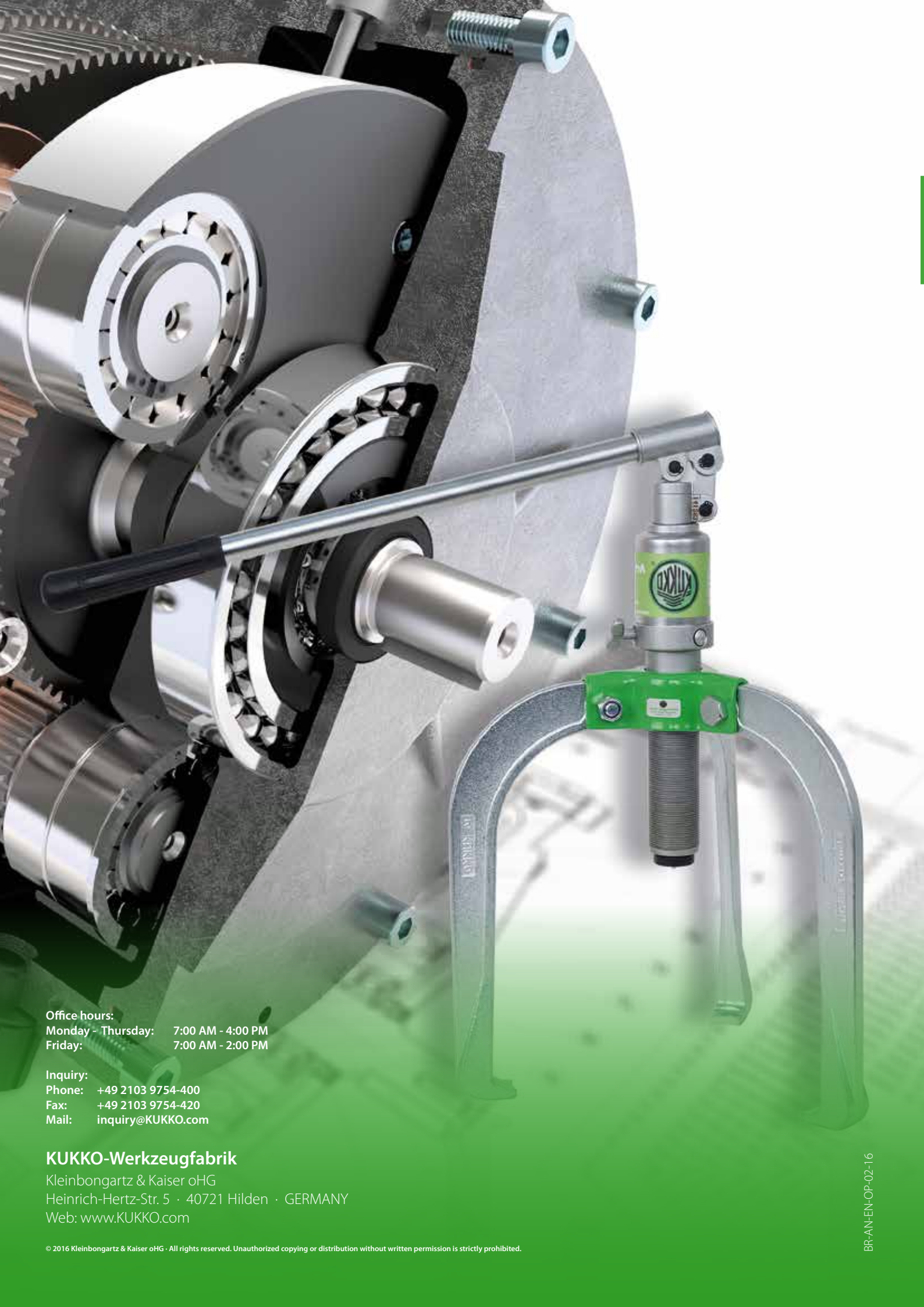


Abziehwerkzeuge mit Hydraulikfunktion.

Tools with hydraulic function.







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Fax: +49 2103 9754-420  
Mail: [inquiry@KUKKO.com](mailto:inquiry@KUKKO.com)

## KUKKO-Werkzeugfabrik

Kleinbongartz & Kaiser oHG  
Heinrich-Hertz-Str. 5 · 40721 Hilden · GERMANY  
Web: [www.KUKKO.com](http://www.KUKKO.com)