



奧瑪泰機電設備有限公司  
NTH卡盤、油缸系列產品

OMATEI MECHANICAL AND ELECTRICAL EQUIPMENT CO., LTD.  
NTH CHUCKS/ROTARY CYLINDERS PRODUCTION



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**NTH** NTH卡盤、油缸系列產品  
NTH CHUCKS/ROTARY CYLINDERS PRODUCTION

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2025.04

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因為專注 所以專業  
Because the focus so professional

## 公司簡介 Company profile

昆山奧瑪泰機電設備有限公司成立於2007年，近二十年來專注於智能製造業，專業為數控機床提供精密夾具，目前生產銷售OMATEI、NTH系列產品，主要服務於智能裝備製造、精密加工、汽車電子、醫療器械、航空航天等領域，不但在國內占有一定市場，而且銷往歐美及東南亞等國家，並受到國內外廣大用戶的認可與好評！

在智能製造精密夾具方面，我司生產銷售：高速精密液壓卡盤及回轉油缸系列、高速精密手動卡盤系列、高速精密回轉及各種專用車床頂針（車床頂尖）系列、精密機械手動、油壓及氣動虎鉗系列、專用卡盤系列，如前置式筒夾卡盤、分度卡盤、傘齒輪卡盤、前端驅動卡盤、自動分度卡盤、外徑卡盤；以及自動化裝夾氣密檢測裝置等。

在夾具配件領域，生產有各種規格型號的公制、英制軟爪（生爪）、硬爪、手動卡盤的一體爪與分離爪及強力軟爪（C型A型頂爪）、T型塊、修爪器（成型圈）、連接盤（過渡法蘭）筒夾等。根據客戶加工材料的不同，我司生產的軟爪有鋁爪、塑膠爪、銅爪、不銹鋼爪等多種材質。在加工薄壁管材容易變形及鬆脫的問題上，我司已研發輕質合金夾具（重量祇有同等規格的1/3），其不但能防止在加持過程中薄壁管材變形的問題，而且能有效的改善夾具在高速運轉時所產生的離心力。

除標準產品外，可根據客戶需求，定向專業設計生產：非標卡盤、回轉油缸、軟爪（生爪）、頂針（頂尖）、自動化夾持檢測單元與機床智能化升級改造，提供OEM與ODM、JDM服務。

Kunshan Omatei Mechanical and Electrical Equipment Co., LTD has been established in 2007, Omatei has been focusing on intelligent manufacturing industry for many years and specialize in providing precision fixtures for CNC machine tools. We now produce and sell OMATEI and NTH brand series production, it's mainly applied in the industry field of machine tools, precision machining, automotive making, electronics, aerospace, Etc. we have not only high percent market share in China domestic, but in Europe and America and Southeast Asia market as well, our production has been recognized and praised by our customers from all over of the world!

In the field of intelligent manufacturing precision chucks, Omatei makes and sells high rotary speed precision hydraulic chucks and rotary hydraulic cylinder series, and high rotary speed precision manual chuck series, and high rotary speed precision lathe center series, precision vises and special chuck series, like collet chucks, index chucks, scroll chucks, chucks with built-in cylinders, pin arbor chucks, and the air tightness detection device for automatic clamping, and so on.

For hydraulic power chucks, we have been making the standard specification power chuck and rotary cylinders, our power chuck body accuracy can meet within 0.01mm, the rigidity and wearing resistance quality is very good. The cost performance is very competitive. For special using chucks, we have collet chucks, index chucks, scroll chucks, chucks with built-in cylinders, pin arbor chucks, our company also provide OEM and ODE service on chucks and rotary cylinders products.

For chuck jaws, We have standard serration pitch of soft jaws, and Non-standard specification can be made according to customers' different demand, we can also produce aluminum, nylon, brass and stainless steel material jaws. Our company has developed supper light alloy soft jaws which weight is only one third of the regular types, this product can not only prevent from deformation issue of thin wall tube workpiece during the clamping process, but effectively improve centrifugal force of the chuck as well.

We also produce and sell live centers, vises, rotary table, self centering steady rest, non-standard chucks, T-nut, hard jaws, jaw boring rings, adapter plates, BT pull studs, ER collet, milling chucks, and many accessories of tools machine.

公司宗旨：為您提供專業智能自動化夾具解決方案，讓您完全滿意是我們的責任和動力。

Company Objective:

To provide you the professional solution of chuck series products, your satisfaction is our responsibility and motivation.



## 非標系列





基爪  
Master Jaws



拉盤 (中仁子)  
Wedge Plunger



非標T型塊  
Non Standard T-nut



(汽車傳動軸) 摩擦焊接特殊卡盤  
Customized chuck  
For automobile transmission shaft



軸承座夾具 (一爪卡盤)  
Bearing seat fixture  
(one jaw chuck)



立式後拉卡盤夾具  
Vertical rear pull chuck fixture



非標卡盤螺母  
Non-standard chuck nut



壓盤  
Plunger nut



防塵蓋  
dust cover



(軸加工) 可伸縮卡盤  
Retractable chuck  
For shaft



(鑄件和鍛件加工) 強力浮動卡盤  
Powerful swing lock chuck  
For casting or forging parts



自動分度卡盤  
Index chuck



法蘭盤  
Flange plate/Adaptor



拉杆  
Draw Tube



筒夾  
Collets



(異型件或薄壁件加工) 指形卡盤  
Finger chuck  
For thin wall or abnormal shape



(斜齒輪) 杠杆式指形卡盤  
Lever finger chuck  
For helical gear



(泵體毛坯加工) 特殊卡盤夾具  
Customized fixture  
For pump blank



刀座  
Tool Holders



刀柄套  
Tool Holders



莫氏柄法蘭  
Adaptor with Morse shank



後拉卡盤夾具  
Pull back lock chuck



杠杆式指形卡盤  
Lever type finger chuck



彈性漲套  
Flexible expanding sleeve



固定頂針  
Dead center



大孔徑平面頂針  
Big Hole Center



長型頂針  
Long Center



(汽車輪輻) 特殊夾具  
Customized chuck  
For wheel spokes



加工中心-立式卡盤工裝  
CNC Stationary fixture



機床尾座內添液壓夾具  
Hydraulic expanding center



擋料杆(工件長短器)  
Bar Stopper



拉料器  
Bar Puller



主軸檢測器  
Spindle test bar



(齒輪) 昇型彈性漲套  
Flex expanding chuck  
For gear



(軸承圈) 橡膠漲套  
Rubber flex expanding sleeve  
For bearing ring



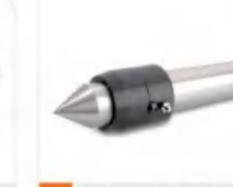
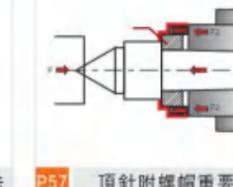
多工位夾頭座  
Multi-station chuck set

## 軟爪系列



## 頂針系列

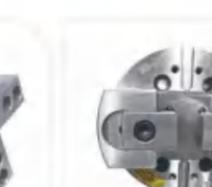
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 P32 TSC-748 尖部替换式回轉頂針	 P33 NCH-65 尖部替换式精密級高速回轉頂針	 P33 SC-65 尖部替换式重負荷回轉頂針	 P34 TSC-265 尖部替换式高性能重負荷回轉頂針	 P34 TSC-665 尖部替换式強力回轉頂針	 P48 SC-67-A 前部替换式端面固定傳動頂針	 P49 SC-67-B-30 前部替换式端面固定傳動頂針	 P49 TSC-285-4A 回轉型端面傳動頂針	 P50 F67-A 型端面固定傳動頂針	 P50 F67-B 型端面固定傳動頂針
 P35 SC-48 尖部替换回轉頂針	 P35 SC-91 尖部替换回轉頂針	 P36 SC-63 中負荷細長型回轉頂針	 P36 SC-69 中負荷回轉頂針	 P37 F362 精密小徑回轉頂針	 P51 TSC-80 傘型重負荷回轉頂針	 P52 TSC-96880 伞式固定頂針	 P52 TSC-96680 伞式固定頂針	 P53 GY 精密級固定頂針	 P53 GR 精密級固定頂針(半邊式)
 P37 F363 精密小徑細長型回轉頂針	 P38 TSC-762 高效能回轉頂針	 P38 TSC-763 高性能細長型回轉頂針	 P39 TSC-262 高性能精密回轉頂針	 P39 TSC-263 高性能細長型回轉頂針	 P54 LCC 回轉式莫氏柄卡盤座	 P54 DCC 固定式莫氏柄卡盤座	 P55 TSC-36465 伸縮式彈簧頂針	 P55 48 小子系列	 P55 61 中子系列   內孔型頂針子
 P40 NCH-62 精密型高速回轉頂針	 P40 SC-60 高速強力回轉頂針	 P41 JK-562 強力回轉頂針	 P41 SC-62 重負荷回轉頂針	 P42 TSC-662 強力回轉頂針	 P55 一字型頂針子	 P56 65 大子系列	 P56 加長型頂針子	 P56 66 系列傳動齒	 P56 66 系列中心針
 P42 TSC-663 強力細長型回轉頂針	 P43 SC-92 輕型回轉頂針	 P43 SC-93 輕型細長型回轉頂針	 P44 NCH-63 鑄鋼固定式精密回轉頂針	 P45 TSC-9662 附螺帽固定式頂針	 P56 SKF 頂針專用油	 P56 套筒	 P56 注油式後蓋	 P56 固定鍵	 P56 C 型扳手
 P45 TSC-9662 附螺帽鑄鋼固定式頂針	 P46 TSC-9663 附螺帽鑄鋼兩段式固定頂針	 P46 TSC-9665 替换式附螺帽固定式頂針	 P47 SC-66-A 前部替换端面浮動式傳動頂針	 P47 SC-66-B-40 前部替换端面浮動式傳動頂針	 P56 Y 型扳手	 P56 沖子	 P57 活動頂針(附鎖緊螺帽)使用方法	 P57 頂針附螺帽重要性	 P58 頂針使用技術要點說明

## 膜片-筒夾-漲套精密夾頭系列

 P59 JA回轉缸內藏氣壓膜片夾頭	 P60 JDS超精密膜片固定型夾頭	 P61 JPD旋轉型超精密膜片夾頭(後驅動型)	 P62 LL筒夾夾頭一	 P63 LL-A筒夾夾頭二
 P63 彈性筒夾	 P64 LLT後拉式筒夾夾頭	 P65 前推式筒夾夾頭-美規5C/16C	 P65 後拉式筒夾夾頭-美規5C/16C	 P66 JAB回轉缸空壓高速夾頭
 P66 彈性筒夾	 P67 JAH精密高速空壓夾頭	 P68 油氣壓固定式夾頭-前推型	 P69 精密氣壓立式筒夾夾頭(後拉式)	 P70 JPCA精密後拉筒夾夾頭
 P70 JHL橡膠筒夾固定型夾頭	 P71 JAP207-42BZ1回轉缸內藏氣壓筒夾夾頭	 P71 CHP206-SS42回轉缸內藏油壓筒夾夾頭	 P72 回轉缸內藏式夾頭	 P73 油氣壓快速回轉夾頭
 P75 快速回轉夾頭/固定型夾頭專用副爪	 P75 內漲與外夾所用的44型快速回轉夾頭	 P76 NPT211後拉式橡膠內漲夾頭	 P77 NPT212後拉式橡膠內漲夾頭	

## 卡盤系列

 P78 B中空動力夾頭(三爪高速中空型)	 P80 BT中空動力夾頭(二爪高速中空型)	 P81 BF中空動力夾頭(四爪高速中空型)	 P82 BB中空動力夾頭(三爪大孔徑中空型)	 P83 BL超長行程動力夾頭(三爪高速中空型)
 P84 BLT超長行程動力夾頭	 P85 KBL超大行程三爪卡盤	 P86 KBLT超大行程二爪卡盤	 P87 T中實動力夾頭(三爪高速中實型)	 P88 TL二爪中實油壓夾頭
 P89 4T中實動力夾頭(四爪高速中實型)	 P90 4TT四爪雙動夾頭	 P91 T-R三爪中實油壓夾頭	 P92 T-R大型中實可調油壓夾頭	 P93 2LT二爪長行程中實油壓卡盤
 P94 3LT三爪長行程中實油壓卡盤	 P95 DPT二爪後拉式油壓卡盤	 P96 DPR三爪後拉式油壓卡盤	 P97 DPF四爪後拉式油壓夾頭	 P98 2AT二爪強力後拉固鎖式動力夾頭
 P99 3AT三爪強力後拉固鎖式動力夾頭	 P100 P8E三爪內擰式後拉中實動力夾頭	 P101 2F二爪中實型指形動力夾頭	 P102 3F三爪中實型指形動力夾頭	 P103 FWD三爪補償型帶頂心動力卡盤




## 氣, 油壓缸系列



## 手動卡盤系列




## 合作產品




## 旋轉工作臺 & 氣動虎鉗系列

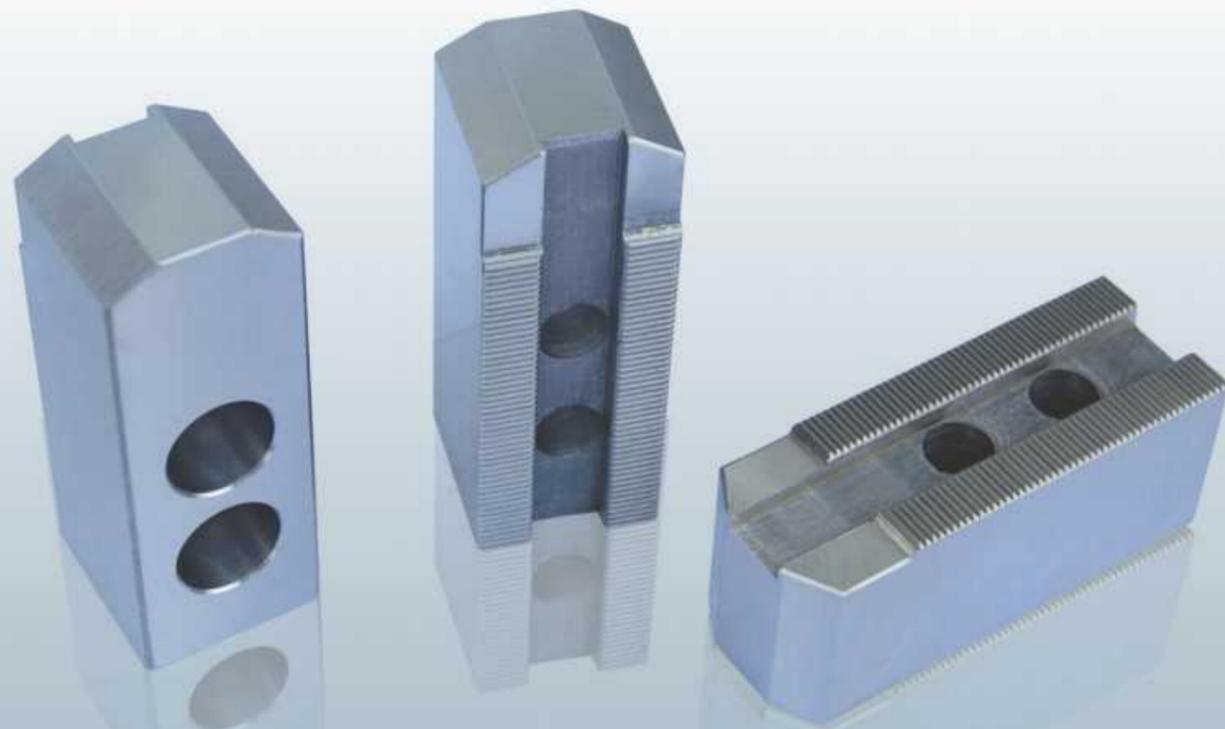


## 其它配件系列



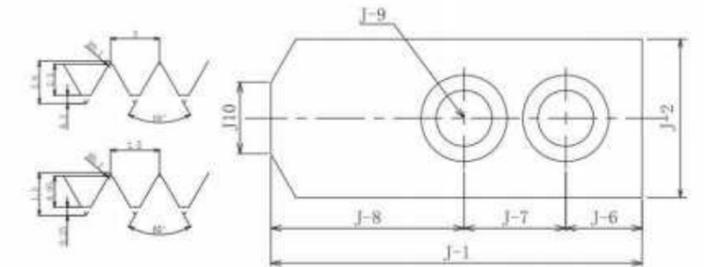
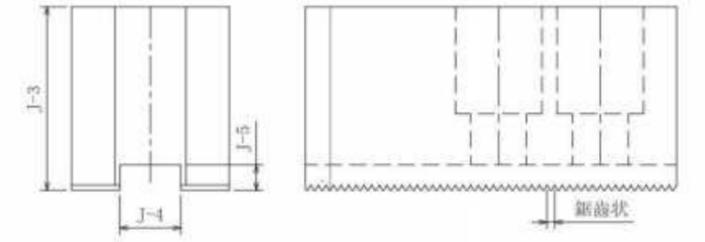
# SOFT 軟爪(生爪)系列

## JAWS SERIES



### 油壓軟爪

### SOFT JAWS FOR HYDRAULIC CHUCKS

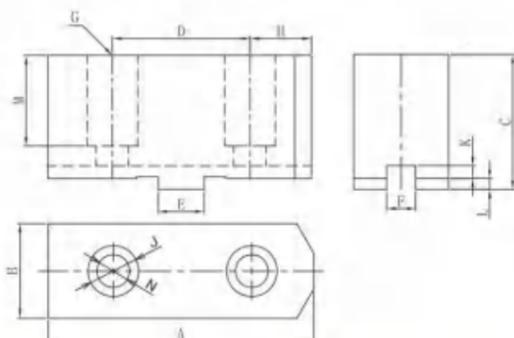


#### 規格 / Specification

規格/尺寸 SPEC/SIZE	長 Length J-1	寬 Width J-2	高 Height J-3	鍵槽寬 Slot width J-4	鍵槽深 Slot depth J-5	J-6	中心孔距 Hole center distance J-7	J-8	螺絲 Screw J-9	J-10	齒距 Serration pitch	淨重 N.W.(KG)
SC-04	53	23	23	10	4	9	14	29	M8	3	1.5×60°	0.42
SC-05	62	25	30	10	4	10	14	38	M8	3	1.5×60°	0.85
SC-06	73	31	36	12	5	15	20	38	M10	14	1.5×60°	1.5
SC-08	95	35	38	14	5	24	25	46	M12	16	1.5×60°	2.4
SC-10	110	40	42	16	5	30	30	50	M12	18	1.5×60°	3.6
SC-12-21	129	50	50	21	6	39	30	60	M16	23	1.5×60°	6.1
SC-12-18	129	50	50	18	6	39	30	60	M14	23	1.5×60°	6.2
SC-15(18)-22	165	62	62	22	8	37	43	85	M20	25	1.5×60° 3.0×60°	12.5
SC-15(18)-25.5	165	62	62	25.5	6	37	43	85	M20	25	1.5×60° 3.0×60°	12.5
SC-15(18)-26	156	64	70	26	9	34	50	72	M20	25	3.0×60°	13.4
SC-21(24)	180	65	70	25	9	40	60	80	M20		3.0×60°	16.2
SC-32	210	74	90	25	9	40	80	90	M20		3.0×60°	29.2
SC-40	270	85	110	30	4		76.2		M24			
SC-50	270	85	110	30	4		76.2		M24			
SC-63	270	110	110	30	4		76.2		M24			
SC-79	270	110	110	30	4		76.2		M24			

注: 12寸(含)以內卡爪標準齒距1.5×60°, 如需3.0×60°請備註說明。非標可定做。  
Remark: the serration pitch 1.5×60° should be standard if the jaws is not bigger than 12", please specify in case specially required. Customized spec can be made.

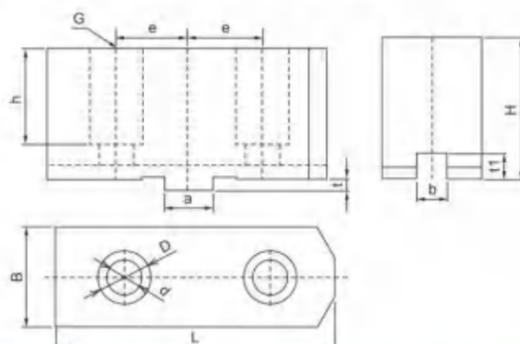
## 日標強力生爪 SOFT JAWS FOR SCROLL CHUCK



### 規格 / Specification

SPEC. MODEL	長 Length A	寬 Width B	高 Height C	D	E	F	G	H	J	K	L	M	N	毛重 G.W.(KG)
CP-04	52	19	30	24	9.53	7.94	M6x1.0P	14	11	3	2.5	21	7	0.45
CP-05	62	24	35	32	12.68	7.94	M8x1.25P	15	14	3.5	3	24	9	0.9
CP-06	73	26	37	38.1	12.68	7.94	M8x1.25P	17	14	3.5	3	25	9	1.2
CP-07(08)	95	31	48	44.45	12.68	7.94	M10x1.5P	25.3	17	3.8	3	34	11	2.65
CP-09(10)	110	37	48	53.98	19.03	12.7	M12x1.75P	28	19	4.2	3	34	13	3.8
CP-12	125	42	54	63.5	19.03	12.7	M12x1.75P	31	19	4.2	3	38	13	5.3
CP-16	160	50	70	76.2	19.03	12.7	M16x2.0P	42	25	5.5	6	48	17	11.5
CP-20	160	55	80	76.2	19.03	12.7	M20x2.5P	42	32	5.5	6	58	21	15.5
HE-2486	155	59	86	76.2	19.03	12.7	M20		32	5	6	66	21	17.2

## NTH強力生爪 SOFT JAWS FOR NTH SCROLL CHUCK



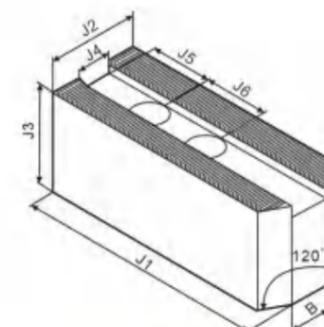
### 規格 / Specification

型式/規格 MODEL/SPEC	L	B	H	h	D	d	a	e	b	t	t1	G
NCP-04	52	19	30	21	11	6.5	9.53	12	7.94	2.5	5.5	M6*1.0P
NCP-05	62	24	35	24	14	9	12.68	16	7.94	3	7.2	M8*1.25P
NCP-06	73	26	37	25	17	11	12.68	19.05	7.94	3	7.2	M10*1.5P
NCP-07	95	31	48	34	17	11	12.68	22.2	7.94	3	7.2	M10*1.5P
NCP-08	95	31	48	34	17	11	12.68	22.2	7.94	3	7.2	M10*1.5P
NCP-09	110	37	48	34	17	11	12.68	22.2	7.94	3	7.2	M10*1.5P
NCP-10	110	37	48	34	19	13	19.03	27	12.7	3	7.2	M12*1.75P
NCP-12	125	42	54	38	19	13	19.03	31.75	12.7	3	7.2	M12*1.75P
NCP-14	125	42	54	38	19	13	19.03	31.75	12.7	3	7.2	M12*1.75P
NCP-16	160	50	70	48	25	17	19.03	38.1	12.7	6	11.5	M16*2.0P

注：非標可定做 Customized spec can be made.

## SC06 加高油壓軟爪(生爪)

### SC06 EXTRA HEIGHT SOFT JAWS

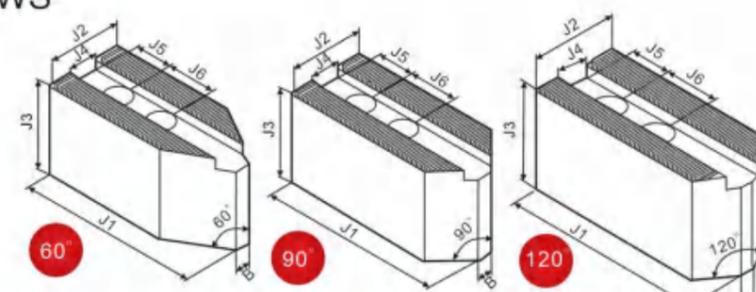


齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)						
			J1	J2	J3	J4	J5	J6	B
SC06H50	2				50				
SC06H60	2.6				60				
SC06H70	3				70				
SC06H80	3.4				80				
SC06H90	3.8				90				
SC06H100	4.2				100				
SC06H110	4.6				110				
SC06H120	5.0				120				
SC06H130	5.5	M10	73	31	130	12	15	20	14
SC06H140	6.0				140				
SC06H150	6.5				150				
SC06H160	7.0				160				
SC06H170	7.5				170				
SC06H180	8.0				180				
SC06H190	8.5				190				
SC06H200	9.0				200				

## SC06 尖角油壓軟爪(生爪)

### SC06 POINTED SOFT JAWS



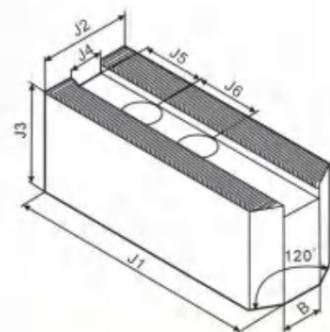
齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)						
			J1	J2	J3	J4	J5	J6	B
SC06H36P	1.5				36				
SC06H50P	2				50				
SC06H60P	2.5				60				
SC06H70P	2.9				70				
SC06H80P	3.3				80				
SC06H90P	3.7				90				
SC06H100P	4	M10	73	31	100	12	10	20	3
SC06H110P	4.4				110				
SC06H120P	4.8				120				
SC06H130P	5.3				130				
SC06H140P	5.8				140				
SC06H150P	6.2				150				
SC06H160P	6.6				160				

注：尖角油壓軟爪有60°、90°、120°可供選擇；非標可定做。  
Option for pointed soft jaws: 60/90/120 angle degree or other special requirements; Customized spec can be made.

## SC08 加高油壓軟爪(生爪)

### SC08 EXTRA HEIGHT SOFT JAWS

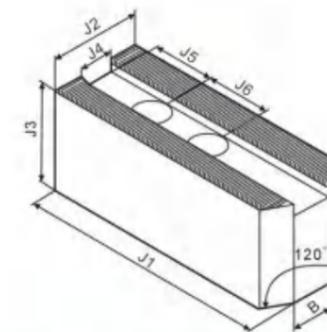


齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)						
			J1	J2	J3	J4	J5	J6	B
SC08H50	3.2	M12	95	35	50	14	24	25	16
SC08H60	3.8				60				
SC08H70	4.4				70				
SC08H80	5.1				80				
SC08H90	5.8				90				
SC08H100	6.4				100				
SC08H110	7.0				110				
SC08H120	7.6				120				
SC08H130	8.2				130				
SC08H140	8.8				140				
SC08H150	9.4				150				
SC08H160	10.1				160				
SC08H170	11.7				170				
SC08H180	11.4				180				
SC08H190	12				190				
SC08H200	12.6				200				

## SC10 加高油壓軟爪(生爪)

### SC10 EXTRA HEIGHT SOFT JAWS

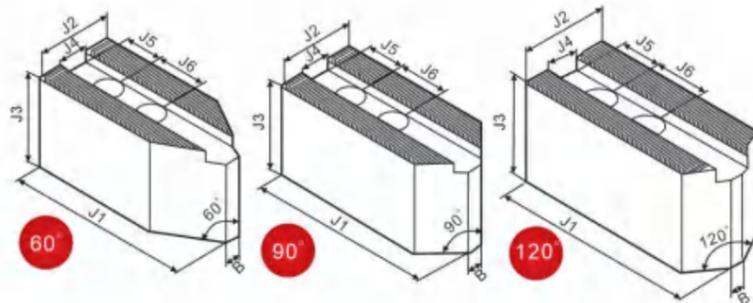
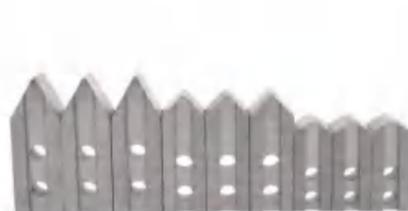


齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)						
			J1	J2	J3	J4	J5	J6	B
SC10H50	4.2	M12	110	40	50	16	30	30	18
SC10H60	5.3				60				
SC10H70	6.1				70				
SC10H80	7.1				80				
SC10H90	8				90				
SC10H100	8.8				100				
SC10H110	9.5				110				
SC10H120	10.5				120				
SC10H130	11.1				130				
SC10H140	12.2				140				
SC10H150	13.0				150				
SC10H160	14.0				160				
SC10H170	14.8				170				
SC10H180	15.8				180				
SC10H190	16.6				190				
SC10H200	17.5				200				

## SC08 尖角油壓軟爪(生爪)

### SC08 POINTED SOFT JAWS



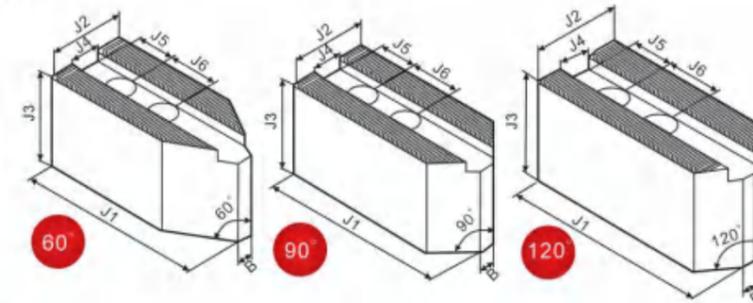
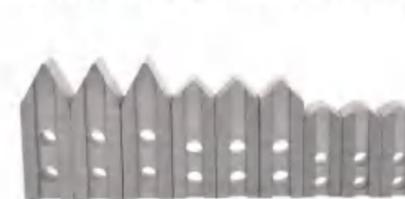
齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)						
			J1	J2	J3	J4	J5	J6	B
SC08H38P	2.5	M12	95	35	38	14	15	25	3
SC08H50P	3.2				50				
SC08H60P	3.8				60				
SC08H70P	4.4				70				
SC08H80P	5.1				80				
SC08H90P	5.8				90				
SC08H100P	6.4				100				

注: 尖角油壓軟爪有60°、90°、120°可供選擇; 非標可定做。  
Option for pointed soft jaws: 60/90/120 angle degree or other special requirements, Customized spec can be made.

## SC10 尖角油壓軟爪(生爪)

### SC10 POINTED SOFT JAWS



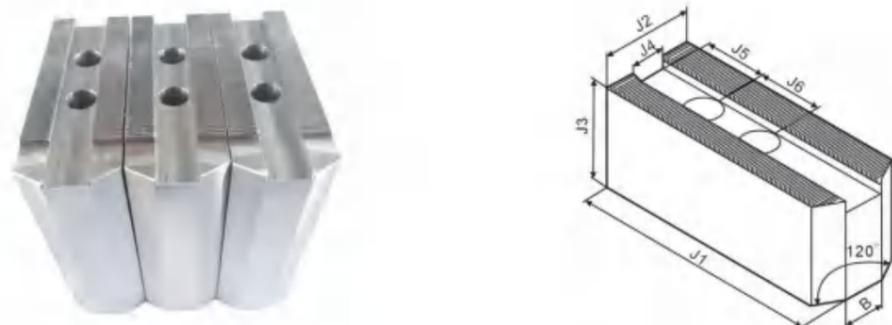
齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)						
			J1	J2	J3	J4	J5	J6	B
SC10H42P	3.7	M12	110	40	42	16	20	30	3
SC10H50P	4.2				50				
SC10H60P	5.1				60				
SC10H70P	6.1				70				
SC10H80P	6.9				80				
SC10H90P	7.7				90				
SC10H100P	8.5				100				

注: 尖角油壓軟爪有60°、90°、120°可供選擇; 非標可定做。  
Option for pointed soft jaws: 60/90/120 angle degree or other special requirements, Customized spec can be made.

## SC12 加高油壓軟爪(生爪) SC12 EXTRA HEIGHT SOFT JAWS

FOR NON THROUGH CHUCK



齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)							
			J1	J2	J3	J4	J5	J6	B	
SC12H60N	7.8	M14			60					
SC12H70N	9.1				70					
SC12H80N	10.5				80					
SC12H90N	11.6				90					
SC12H100N	12.9			129	50	100	18	39	30	20
SC12H110N	14.2					110				
SC12H120N	15.6					120				
SC12H130N	17.0					130				

## SC12 加高油壓軟爪(生爪) SC12 EXTRA HEIGHT SOFT JAWS

FOR THROUGH HOLE CHUCK

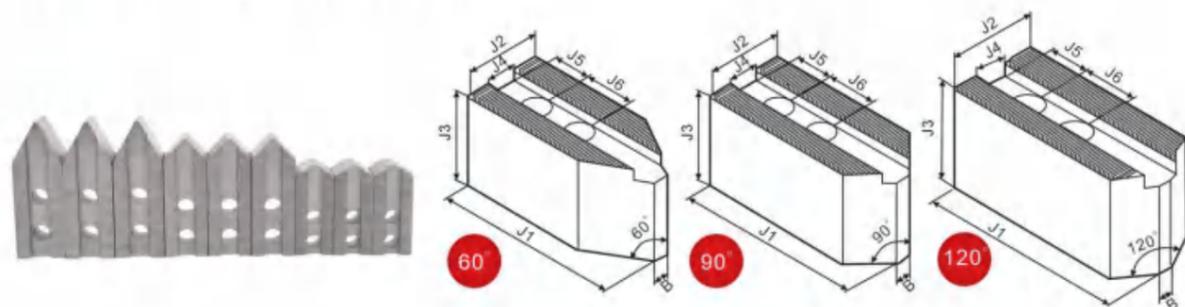


齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)							
			J1	J2	J3	J4	J5	J6	B	
SC12H60	7.5	M16			60					
SC12H70	8.7				70					
SC12H80	10				80					
SC12H90	11.2				90					
SC12H100	12.5			129	50	100	21	39	30	23
SC12H110	13.8					110				
SC12H120	15.2					120				
SC12H130	16.5					130				

## SC12 尖角油壓軟爪(生爪) SC12 POINTED SOFT JAWS

FOR NON THROUGH CHUCK



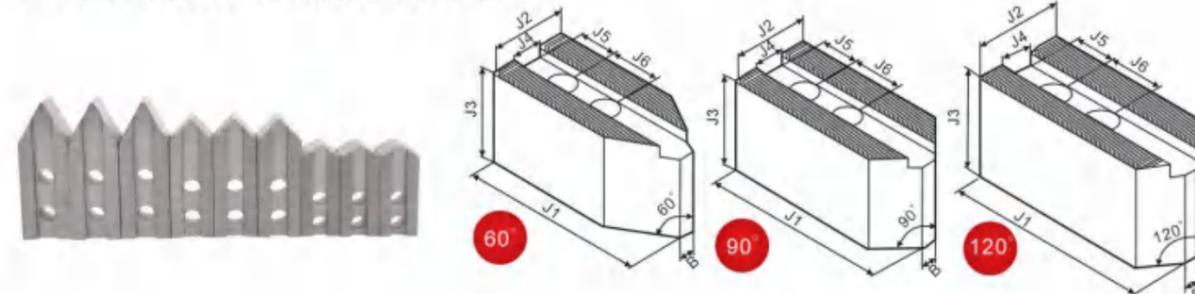
齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)							
			J1	J2	J3	J4	J5	J6	B	
SC12H50NP	6.3	M14			50					
SC12H60NP	7.5				60					
SC12H70NP	8.8			129	50	70	18	25	30	6
SC12H80NP	10.1					80				
SC12H90NP	11.5					90				

注: 尖角油壓軟爪有60°、90°、120°可供選擇; 非標可定做。  
Option for pointed soft jaws: 60/90/120 angle degree or other special requirements; Customized spec can be made.

## SC12 尖角油壓軟爪(生爪) SC12 POINTED SOFT JAWS

FOR THROUGH HOLE CHUCK

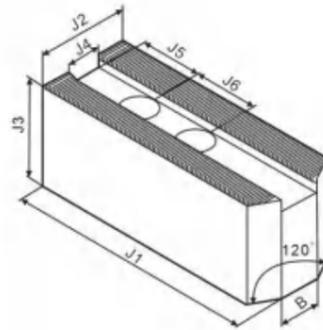


齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)							
			J1	J2	J3	J4	J5	J6	B	
SC12H50P	6.0	M16			50					
SC12H60P	7.2				60					
SC12H70P	8.4			129	50	70	21	25	30	6
SC12H80P	9.5					80				
SC12H90P	11.0					90				

注: 尖角油壓軟爪有60°、90°、120°可供選擇; 非標可定做。  
Option for pointed soft jaws: 60/90/120 angle degree or other special requirements; Customized spec can be made.

## SC15 加高油壓軟爪(生爪) SC15 EXTRA HEIGHT SOFT JAWS



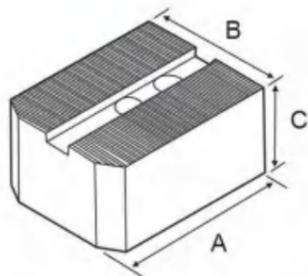
齒距: 1.5mmx60° Serration Pitch: 1.5mmx60° 單位/UNIT:mm

型號 Model	重量/Weight kg/set	螺孔 Screw	尺寸/Size (mm)						
			J1	J2	J3	J4	J5	J6	B
SC15H80	16.1	M20	165	62	80	22 (25.5)	37	43	25
SC15H90	18.2				90				
SC15H100	20				100				
SC15H110	22.3				110				
SC15H120	25.0				120				
SC15H130	26.8				130				
SC15H140	28.5				140				
SC15H150	30				150				

注: 非標可定做 Customized spec can be made.

## 加寬軟爪

### EXTRA-WIDTH SOFT JAWS



型號/規格 Model/Spec	長 Length A	寬 Weight B	高 Height C	齒距 Serration
SC0603048	73	48	30	1.5°60°
SC0603060	73	60	30	1.5°60°
SC0603080	73	80	30	1.5°60°
SC0604848	73	48	48	1.5°60°
SC0604863	73	63	48	1.5°60°
SC0606060	73	60	60	1.5°60°
SC0803648	95	48	36	1.5°60°
SC0803663	95	63	36	1.5°60°
SC0803680	95	80	36	1.5°60°
SC0804848	95	48	48	1.5°60°
SC0804873	95	73	48	1.5°60°
SC0804890	95	90	48	1.5°60°
SC0806363	95	63	63	1.5°60°
SC0807373	95	73	73	1.5°60°
SC0808383	95	83	83	1.5°60°
SC1004263	110	63	42	1.5°60°
SC10042100	110	100	42	1.5°60°
SC1004873	110	73	48	1.5°60°
SC1006363	110	63	63	1.5°60°
SC1007373	110	73	73	1.5°60°
SC1008383	110	83	83	1.5°60°

注: 非標可定做 Customized spec can be made.

## 前端嵌入式塑鋼軟爪

### POM HEAD SOFT JAWS FOR HYDRAULIC CHUCK

◎ 襯頭與油壓生爪採嵌入式緊配結合, 多面拘束, 可提升夾持工件的穩定性及保護工件表面。  
(此襯頭採固定式緊配結合, 不做替換)  
The POMMC head is tight fit with steel parts, can't be changed, it can improve the gripping stability and protect the work piece surface.



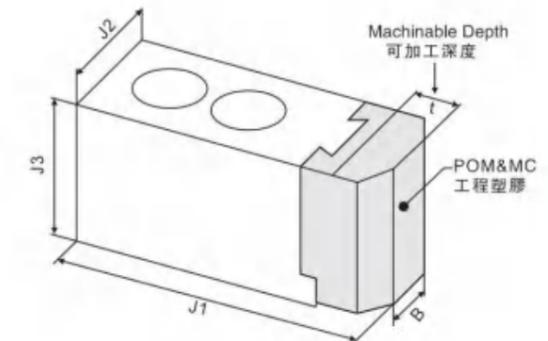
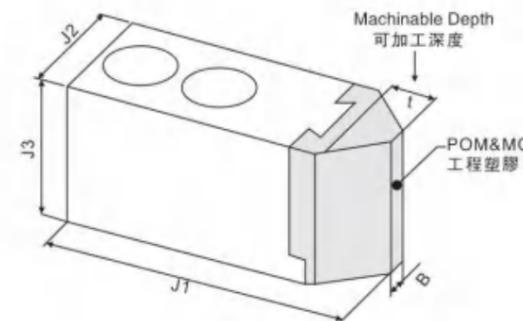
▶ 尖型軟質油壓生爪 Pointed Type

▶ 標準軟質油壓生爪 Standard Type

單位/UNIT:mm

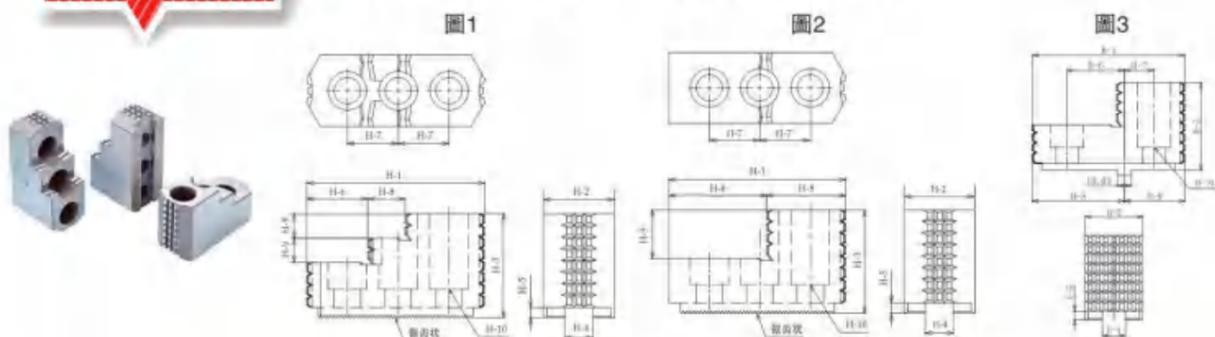
規格/型號 Model	尺寸/Size (mm)						角度 Angle	材質 Material	
	J1	J2	J3	B	t	MC尼龍/Nylon		POM塑鋼	
SN-06	73	31	37	14	8	120	V		
SPOM-06	73	31	37	14	8	120		V	
SN06P90	73	31	37	5	8	90	V		
SPOM06P90	73	31	37	5	8	90		V	
SN-08	95	35	38	16	13	120	V		
SPOM-08	95	35	38	16	13	120		V	
SN08P90	95	35	38	5	13	90	V		
SPOM08P90	95	35	38	5	13	90		V	
SN-10	110	40	42	18	18	120	V		
SPOM-10	110	40	42	18	18	120		V	
SN10P910	110	40	42	5	18	90	V		
SPOM10P90	110	40	42	5	18	90		V	

注 (Remarks): 1. 需訂做, 可非標定制。  
it's made for customized order  
2. 軟質的材質可分為 1. MC尼龍 2. POM塑鋼  
The available material is MC nylon and POM



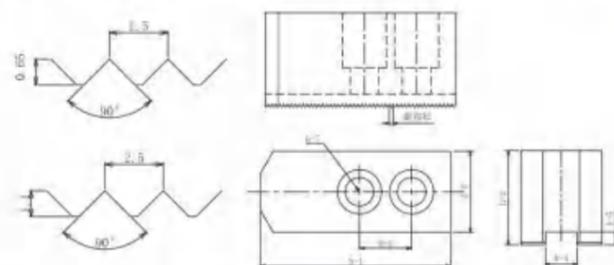
## 油壓硬爪

## HARD JAWS FOR HYDRAULIC CHUCK



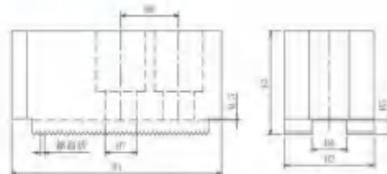
SPEC. MODEL	H-1	H-2	H-3	H-4	H-5	H-6	H-7	H-8	H-9	H-10	Serration Pitch	Gross Weight(kg)	參考圖 Ref
HJ-05	53	23	28	10	4	30.5	14	22.5	10	M8	1.5×60°	0.4	圖2 Fig2
HJ-06	67	31	36	12	5	39	20	28	12	M10	1.5×60°	0.95	
HJ-06-3	67	31	49	12	5	18	20	19	12	M10	1.5×60°	1	
HJ-08	86	35	51	14	5	31	25	18	12	M12	1.5×60°	1.95	圖1 Fig1
HJ-10	100	40	54	16	5	43	30	17	14	M12	1.5×60°	2.85	
HJ-12	103	50	52	21(18)	5	69.5	30	43.5	20	M16(M14)	1.5×60°	3.9	圖2 Fig2
HJ-12-3	103	50	66	21(18)	5	36	30	32	15	M16(M14)	1.5×60°	4.2	
HJ-15(18)	149	62	86	22(25.5)	(8)5	55	43	38	20	M20	1.5×60°	9.45	圖1 Fig1
HJ-15-1	149	62	86	26	8	55	43	38	20	M20	3.0×60°	9.45	
HJ-24(21)	159.5	80	90	25	9	104.5	50	55	40	M20	3.0×60°	14.3	圖2 Fig2
HJ-32	159.5	80	90	25	9	104.5	50	55	40	M20	3.0×60°	14.3	
HJ-40(50)	223	85	117	30	7	76.2	38.1	140	83	M24			圖3 Fig3
HJ-63(79)	223	110	117	30	7	76.2	38.1	140	83	M24			

## K51卡盤軟爪



規格/尺寸 SPEC/SIZE	長 Length h-1	寬 Width h-2	高 Height h-3	鍵槽寬 Slot width h-4	鍵槽深 Slot depth h-5	中心孔距 Hole center distance h-6	螺絲 Screw h-7	齒距裝飾距 Serration pitch
CH-06(160)	62	35	38	11	4.5	20	M10	1.5×90°
CH-08(200)	80	40	45	13	4.5	24	M12	1.5×90°
CH-10(250)	100	45	52	15	4.5	28	M12	1.5×90°
CH-12(320)	115	50	62	18	4.5	32	M16	2.5×90°
CH-15(400)	140	50	75	20	6	45	M16	2.5×90°
CH-20(500)	160	55	85	22	6	50	M16	2.5×90°
CH-24(630)	190	60	100	26	6	55	M20	2.5×90°

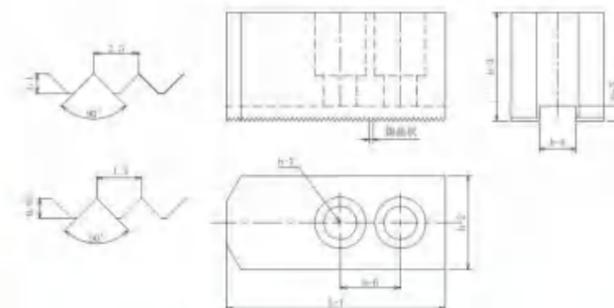
## CT卡盤軟爪



規格D size	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	H <sub>5</sub>	齒距裝飾距 Serration pitch	H <sub>6</sub>	H <sub>7</sub>
200	85	40	45	16	4	1/16"×90°	24	2-13
320	118	50	62	21	4	3/32"×90°	32	2-17
400	140	50	75	22	5.5	3/32"×90°	45	2-17
500	160	75	75	26	5.5	3/32"×90°	38	2-22
630	160	75	75	26	5.5	3/32"×90°	38	2-22
800	160	75	75	26	5.5	3/32"×90°	38	2-22
1000	200	85	110	30	9		100	2-26
1250	200	85	110	30	9		100	2-26

注：非標可定做 Customized spec can be made.

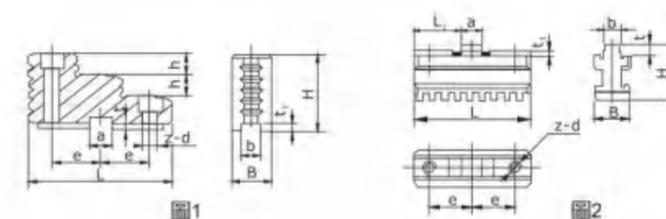
## K52卡盤軟爪



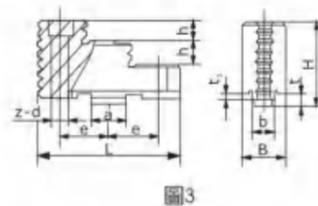
規格/尺寸 MODELS/DIMENSION	長 Length h-1	寬 Width h-2	高 Height h-3	鍵槽寬 Slot width h-4	鍵槽深 Slot depth h-5	中心孔距 Hole center distance h-6	螺絲 Screw h-7	齒距裝飾距 Serration pitch
CH-125	56	25	32	11	3.5	16	M8	1.5×90°
CH-160	70	35	42	13	4	20	M10	1.5×90°
CH-200	82	40	46	16	4	24	M12	1.5×90°
CH-250	95	45	50	17	4	28	M12	1.5×90°
CH-315	118	50	62	21	4	32	M16	2.5×90°
CH-400	148	55	72	22	5	45	M16	2.5×90°

## 三爪自定心卡盤卡爪

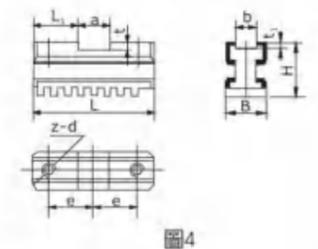
## HARD JAWS FOR SCROLL CHUCK



## C型分離爪 Two-Piece Jaws for Form C



規格 Size	L	B	H	h	a	b	e	t	t <sub>1</sub>	z-d	參考圖
200	88	22	44	12	13	11	28	7	3	2-9	圖1
240	108	27	46	12	13	13	35	7	3	2-11	圖1
250	108	27	46	12	13	13	35	7	3	2-11	圖1



規格 Size	L	L <sub>1</sub>	B	H	a	b	e	t	t <sub>1</sub>	Z-d	參考圖
200	76	31.5	22	36	13	11	28	6	2	2-M8	圖2
240	95	41	27	39	13	13	35	6	2	2-M10	圖2
250	95	41	27	39	13	13	35	6	2	2-M10	圖2

規格 Size	L	B	H	h	a	b	e	t	t <sub>1</sub>	z-d	參考圖
320	127	36	59.5	17	28	15	44	7.5	2.8	2-13	圖3
325	127	36	59.5	17	28	15	44	7.5	2.8	2-13	圖3
380	127	36	59.5	17	28	15	44	7.5	2.8	2-13	圖3

規格 Size	L	L <sub>1</sub>	B	H	a	b	e	t	t <sub>1</sub>	z-d	參考圖
320	114	43	36	40	28	15	44	8.5	3.5	2-M12	圖4
325	114	43	36	40	28	15	44	8.5	3.5	2-M12	圖4
380	114	43	36	40	28	15	44	8.5	3.5	2-M12	圖4

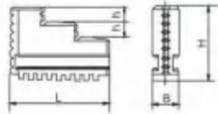
※包括頂爪和基爪 The jaws are composed of top jaws and master jaws.

## 三爪自定心卡盤卡爪 HARD JAWS FOR SCROLL CHUCK



- 卡爪分為：整體爪，及各種分離爪。
- 可按用戶要求 提供各型硬卡爪。
- Hard jaws include one-piece jaws and two-piece jaws
- All kinds of hard jaws can be provided as the request of customers.

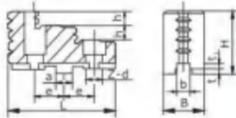
### 整體爪One-Piece Jaws



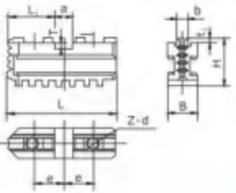
規格 Size	80	100	125	130	160	165	190	200	240	250	315 320	325 380
L	32	42	56	56	70	70	72	85	105	105	130	130
B	12	15	16	16	18.5	18.5	22	22	27	27	36	36
H	33	38	45	45	54	54	57	61	69	69	91	91
h	6.5	7	9	9	12	12	12	12	12	12	18	18

- 包括正爪、反爪各一副
- The chuck with one-piece jaws is provided with each set of internal and external ones.

### A型、D型分離爪Two-Piece Jaws for Form A, D



規格 Size	160	200	250	315	325	380	400	500	630
L	67	80	95	108	108	130	130	132	132
B	25	30	36	45	45	45	45	45	54
H	41	45	53	61	61	70	70	82	82
h	9	10.5	13.5	17.5	17.5	17	17	22	22
a	12.675	12.675	19.025	19.025	19.025	19.025	19.025	19.025	19.025
b	7.94	7.94	12.7	12.7	12.7	12.7	12.7	12.7	12.7
e	19	22.2	27	31.75	31.75	38.1	38.1	38.1	38.1
t	3	3	3	3	3	6	6	6	6
t <sub>1</sub>	4	4	4	4	4	4	4	4	4
z-d	2-11	2-11	2-13	2-13	2-13	2-18	2-18	2-22	2-22



規格 Size	160	200	250	315	325	380	400	500	630
L	64	80	98	110	110	114	114	152	210
L1	29	34.9	39.7	47.6	47.6	47.5	47.5	47.4	59
B	20	22	27	36	36	36	36	45	50
H	33	35	38	42	42	46	46	55	60
a	12.675	12.675	19.025	19.025	19.025	19.025	19.025	19.025	19.025
b	7.94	7.94	12.7	12.7	12.7	12.7	12.7	12.7	12.7
e	19	22.2	27	31.75	31.75	38.1	38.1	38.1	38.1
t	4	4.2	4.2	4.2	4.2	7	7	7	7
t <sub>1</sub>	3	3	3	3	3	3	3	3	3
z-d	2-M10	2-M10	2-M12	3-M12	3-M12	3-M16	3-M16	4-M20	5-M20

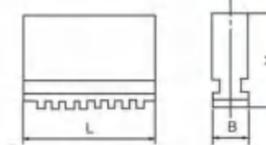
- 包括頂爪和基爪兩部分。規格 為325、380的A型分離爪和所有規格的D型分離爪，基爪不帶夾持弧。
- The jaws are composed of top jaws and master jaws. Master jaws for form A size 325,380 and form D without clamping arc.

## RZ軟卡爪



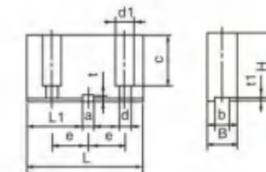
- K11、K10、K12系列卡盤可按用戶要求提供各種軟卡爪。
- 軟卡爪包括：整體軟爪和分離軟爪（C型、A型）。
- All kinds of soft jaws can be provided as the request of customers for K11, K10, K12 series chucks.
- Soft jaws include one-piece soft jaws and two-piece soft jaws (form C, A).

### 整體軟爪 One-piece soft jaws

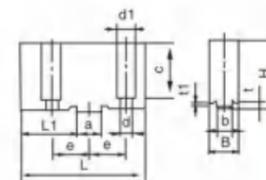


整號規格 Model	RZ1180	RZ11100	RZ11125	RZ11130	RZ11160	RZ11165	RZ11190	RZ11200	RZ11240	RZ11250	RZ11315	RZ11320	RZ11380
L	32	42	56	56	70	70	72	85	105	105	130	130	130
B	12	15	16	16	18.5	18.5	22	22	27	27	36	36	36
H	32	38	45	45	54	54	57	61	69	69	91	91	91

### 軟頂爪 (C型) Soft top jaws (Type C)



整號規格 Model	L	L1	B	H	a	b	e	t	t <sub>1</sub>	c	d	d <sub>1</sub>
RZ11200C	93	46	25	50	13	11	28	7	3	39	9	15
RZ11240C	113	58	27	58	13	13	35	7	3	48	11	17
RZ11250C	113	58	27	58	13	13	35	7	3	48	11	17



整號規格 Model	L	L1	B	H	a	b	e	t	t <sub>1</sub>	c	d	d <sub>1</sub>
RZ11320C	137	64	36	75	28	15	44	7.5	2.8	60.5	13	20
RZ11325C	137	64	36	75	28	15	44	7.5	2.8	60.5	13	20
RZ11380C	137	64	36	75	28	15	44	7.5	2.8	60.5	13	20

## K52, K54, K55系列卡盤卡爪



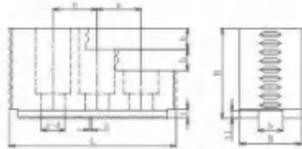
- Form A: Matched with hard top jaws with serrations.
- Form B: Matched with soft top jaws with cross tenon.

- A型：卡盘配带梳齿型硬卡爪。
- B型：卡盘配带十字键型软卡爪。



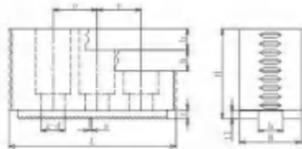
K52A

規格D Size	L	B	H	b	e	t	t <sub>1</sub>	s	h	z-d
160	70	35	42	13	20	4.5	4	1.5×90°	10	3-11
200	82	40	48	16	24	4.5	4	1.5×90°	11	3-13
250	95	45	50	17	28	4.5	4	1.5×90°	12	3-13
315	114	50	62	21	32	4.5	4		15	3-17
400	148	55	72	22	45	5.5	5		18	3-17



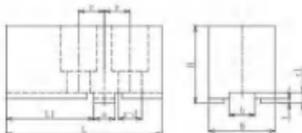
K54A, K55A, K55A-IV

規格D Size	L	B	H	b	e	t	t <sub>1</sub>	s	h	z-d
125	56	23	32	11	16	4	3.5	1.5×90°	7.5	3-9
160	68	30	42	13	20	4.5	4	1.5×90°	10	3-11
200	84	36	48	16	24	4.5	4	1.5×90°	11	3-13
250	90	40	50	17	28	4.5	4	1.5×90°	12	3-13
315	112	50	62	21	32	4.5	4		15	3-17



K52B, K55B

規格D Size	L	B	H	a	b	e	t	t <sub>1</sub>	L <sub>1</sub>	z-d
160	74	35	45	12	12	12.5	3	4	44	2-11
200	90	40	49	12	15	15	3	4	54.5	2-13
250	115	45	53	15	15	20	3	4	70.5	2-13
315	145	50	65	15	20	24	3	4	95	2-17
400	180	55	75	20	20	30	3	4	120	2-17

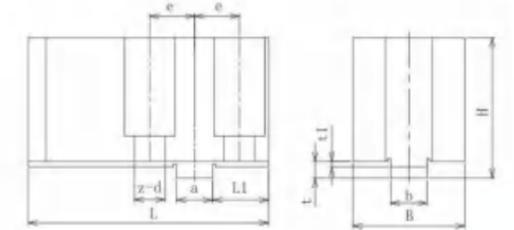


## K51T, K51, K51F楔式動力卡盤卡爪

### WEDGE TYPE POWER CHUCK JAWS



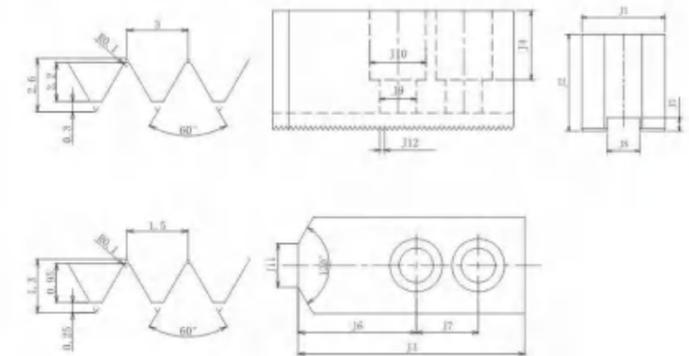
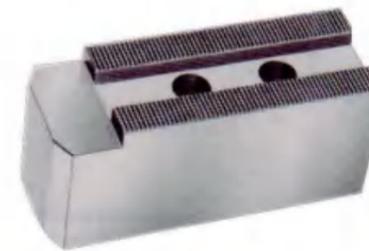
- 夾持弧面按工件要求可隨機配車或配磨。
- 連接剛性強，夾持精度高。
- 夾持直徑的調整主要靠更換卡爪實現，尤其適用於加工大批量零件。



規格 Spec	L	L <sub>1</sub>	B	H	a	b	e	t	t <sub>1</sub>	z-d
160	70	18	35	42	11	11	14	5	1.5	2-9
200	86	20	40	50	13	13	16	6	2	2-11
250	105	25	45	58	15	15	20	7	2.5	2-13
320	130	28	50	69	18	18	22.5	8	3	2-15
400	160	40	50	80	20	20	30	9	3.5	2-17
500	190	56	55	85	22	22	39	9	3.5	2-19
630	235	76	60	100	24	24	50	10	4	2-22

## 日系卡盤軟爪系列1

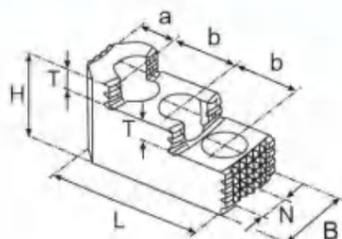
### SOFT JAWS FOR JIS STANDARD



規格 Spec	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	螺絲 Screw
6	30	34	80	26	3.5	41	25	11	9	14	10	1.5×60°	M8
8	36	40	90	27	3.5	45	25	14	13	17	20	1.5×60°	M12
10	40	40	110	31	6	50	30	16	13	19	25	1.5×60°	M12
12	50	50	130	33	6	60	30	18	15	23	30	1.5×60°	M14
15	62	62	150	43	0.5	55	50	22	22	32	-	3.0×60°	M20
18	62	62	150	43	8.5	55	50	22	22	32	-	3.0×60°	M20

## 德系卡盤卡爪系列

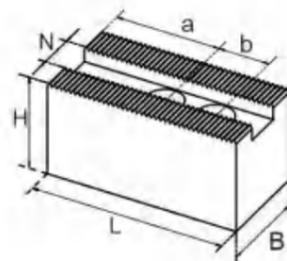
### JAWS FOR DIN SERIES CHUCK



#### Inch serrated hard top jaws "D"

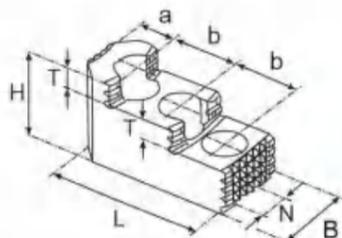
If high concentricity is required jaws have to be ground on the chuck at clamping pressure

Id.No.*	Serration inch	B mm	H mm	L mm	N mm	T mm	a mm	b mm	Mass kg/jaw
12081306	1/16"x90°	30	34	58	12	8.5	13	16	0.2
12081636	1/16"x90°	34	39	65	14	10	18	16.5	0.3
12082036	1/16"x90°	40	45	82	17	10.5	19	23	0.57
12082626	1/16"x90°	45	56	100	17	15.5	23	30	0.85
12083036	1/16"x90°	45	56	105	21	13.5	26	30	0.95
12084006	1/16"x90°	55	73	120	21	22	30	34	1.70
12085046	3/32"x90°	55	73	145	25.5	32	46	38	2.2
12084546	3/32"x90°	60	75	140	25.5	19	38	38	2.5
12086346	3/32"x90°	70	75	145	25.5	32	46	38	3



#### Inch serrated soft blank top jaws "D"

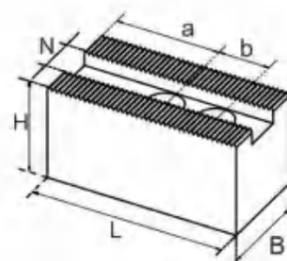
Id.No.*	Serration inch	B mm	H mm	L mm	N mm	a mm	b mm	Mass kg/jaw
12071300	1/16"x90°	30	30	60	12	29	16	0.3
12071680	1/16"x90°	30	35	70	14	38	16.5	0.42
12072130	1/16"x90°	35	40	90	17	47	23	0.85
12072620	1/16"x90°	40	45	110	17	60	30	1.23
12072500	1/16"x90°	45	45	110	21	60	30	1.25
90072500	1/16"x90°	60	60	120	25.5	64	34	2.6
12073000	1/16"x90°	50	50	125	21	73	30	1.85
12074030	1/16"x90°	60	60	140	21	81	34	3.2
12074040	3/32"x90°	60	60	140	25.5	75	38	3.2
12075050	3/32"x90°	60	60	170	25.5	105	38	3.6
12075040	3/32"x90°	75	75	160	25.5	97	38	5.5
12075140	3/32"x90°	60	60	205	25.5	104	38	4.5



#### Metric serrated hard top jaws "M"

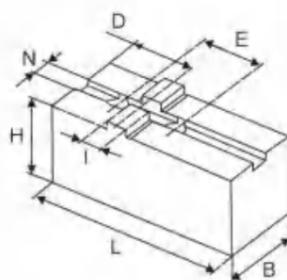
If high concentricity is required jaws have to be ground on the chuck at clamping pressure

Id.No.*	Serration mm	B mm	H mm	L mm	N mm	T mm	a mm	b mm	Mass kg/jaw
12081307	1.5x60°	30	34	58	12	8.5	13	16	0.2
12081627	1.5x60°	34	39	67	12	10	14	20	0.31
12082127	1.5x60°	40	45	86	14	10.5	19	25	0.60
12082627	1.5x60°	45	56	100	16	15.5	23	30	0.85
12083037	1.5x60°	45	56	105	21	13.5	26	30	0.95
12084007	1.5x60°	55	73	120	21	22	30	34	1.70
12084047	1.5x60°	55	73	145	25.5	32	46	38	2.2
12084527	1.5x60°	60	75	140	22	19	38	38	2.5



#### Metric serrated soft blank jaws "M"

Id.No.*	Serration inch	B mm	H mm	L mm	N mm	a mm	b mm	Mass kg/jaw
12071301	1.5x60°	30	30	60	12	29	16	0.3
12071621	1.5x60°	30	35	70	12	34	20	0.42
12072121	1.5x60°	35	40	90	14	47	25	0.85
12072621	1.5x60°	45	45	110	16	60	30	1.3
12073001	1.5x60°	50	50	125	21	73	30	1.85
12074021	1.5x60°	60	60	140	22	75	38	3.2
12074031	1.5x60°	60	60	140	21	81	34	3.2
12074041	1.5x60°	60	60	140	25.5	75	38	3.2



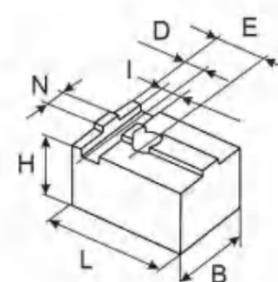
#### Tongue & groove soft blank top jaws "C"

American standard tongue & groove

Id.No.*	B mm	H mm	L mm	N mm	D mm	E mm	I mm	Mass kg/jaw
12041660	30	35	80	7.94	30	38.1	12.68	0.58
12042060	40	40	100	7.94	35	44.4	12.68	0.92
12042560	50	50	120	12.70	42	54	19.03	1.25
12043060	50	50	140	12.70	50	63.5	19.03	2.15
12044050	60	60	165	12.70	60	76.2	19.03	3.6
12045050	75	75	165	12.70	60	76.2	19.03	5.5

## 德系卡盤T型塊系列

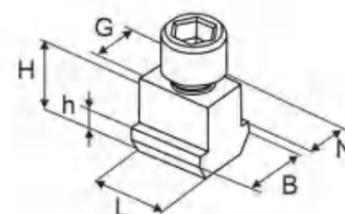
### T-NUTS FOR DIN SERIES CHUCK



#### Tongue & groove soft blank top jaws "C"

DIN standard tongue & groove  
For CL-C chucks

Id.No.*	B mm	H mm	L mm	N mm	D mm	E mm	I mm	Mass kg/jaw
90040800	30	30	38	8	8	14	8	0.18
90041000	30	30	48	8	8	20	8	0.23
90041300	35	35	57	14	27	27	16	0.40
90041600	40	40	75	18	34	34	18	0.72



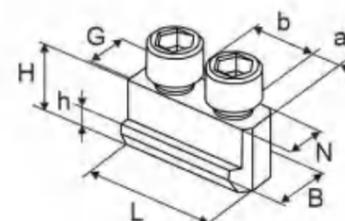
#### Single T-nut NST

Type 1

Id.No.*	B mm	H mm	L mm	N mm	G mm	H mm
12063000	29	25	24	21	M16	11
12064020	35	34.5	30	22*	M20	15
12065020	35	34	30	25.5	M20	15
12065082	36	34	30	25.5*	M20	15
12065002	40	40	32	25.5*	M20	15.5

\*22 mm guide in the top jaw and 25.5 mm guide in the master jaw

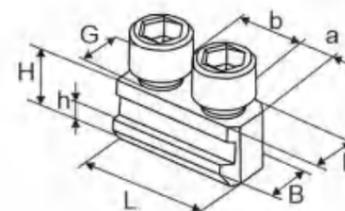
\*\*25.5 mm guide in the top jaw and 28mm guide in the master jaw



#### Double T-nut NSTE

Type 2

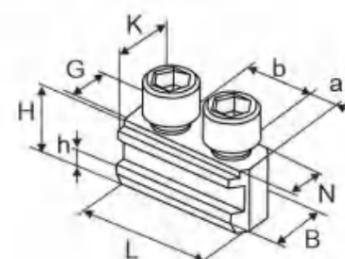
Id.No.*	B mm	H mm	L mm	N mm	G mm	a mm	b mm	h mm
12061300	17	15	30	12	M8	7	16	6.5
73064030	31	33	60	21	M16	13	34	14.5
12064520	31	33	70	22	M20	16	38	14.5



#### Double T-nut NSTE

Type 3

Id.No.*	B mm	H mm	L mm	N mm	G mm	a mm	b mm	h mm
12061200	15	15	32	12	M8	6.5	16	6.5
73061650	17	18.5	32	14	M10	8	16.5	6.5
73062150	19	20.5	43	17	M12	10	23	7.5
18062632	19	20.5	50	17	M12	10	30	7.5
73063050	25	26.5	56	21	M16	13	30	10
73065030	31	33	70	25.5	M20	16	38	14.5



#### Double T-nut NSTE-M

Type 4

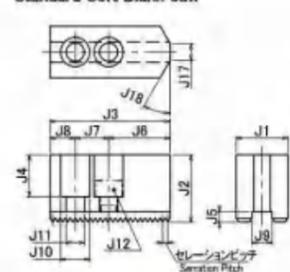
For metric serrated master jaws to use existing kitagawa top jaws

No. Id.No.*	B mm	H mm	L mm	N mm	K mm	G mm	a mm	b mm	h mm
73061602	17	18.5	36	12	14	M10	8	20	6.5
73062101	19	20.5	45	14	17	M12	10	25	7.5
18062633	19	20.5	50	16	17	M12	10	30	7.5
73062501	25	26.5	56	16	21	M12	13	30	10

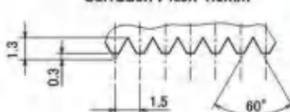
日系卡盤軟爪系列2 (S型)

SOFT JAW FOR JIS STANDARD

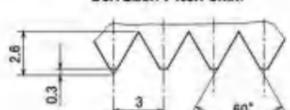
標準生爪  
Standard Soft Blank Jaw



セレーションピッチ 1.5mm  
Serration Pitch 1.5mm



セレーションピッチ 3mm  
Serration Pitch 3mm



- Standard soft blank jaws are made of carbon steel, JIS S48C (SAE 1045 OR ISO C50 is equivalent to JIS S48C)
- When ordering jaws, specify chuck model number
- When ordering jaw nuts if needed.
- Specify the following information if special jaws are necessary
  - Shape of work piece
  - Machining condition
  - Size of work piece
  - Gripping position

Chuck series number	Serration Pitch	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J16	J17	J18	質量kg (1個) Weight	
H01MA	4	1.5	25	25	54	14	5	30	14	10	10	13.5	9	M8	-	8	30°	0.2
	5	1.5	25	25	58.5	14	5	31.5	19	8	10	14	9	M8	-	-	-	0.2
	6	3.0	31	40	72	25	6	37	20	15	12	17.5	11	M10	-	-	-	0.6
	6S	1.5	31	40	70.5	26	5	35.5	20	15	12	17.5	11	M10	-	-	-	0.6
	8	3.0	34	40	90	22	6	45	25	20	14	20	13.5	M12	-	-	-	0.8
	8S	1.5	34	40	90	23	5	45	25	20	14	20	13.5	M12	-	-	-	0.8
	10	3.0	40	40	111	22	6	51	30	30	16	20	13.5	M12	-	-	-	1.2
	10S	1.5	40	40	111	23	5	51	30	30	16	20	13.5	M12	-	-	-	1.2
	12	3.0	50	50	129	32	6	60	30	39	18	23	15.5	M14	-	-	-	2.2
	12S	1.5	50	50	129	33	5	60	30	39	18	23	15.5	M14	-	-	-	2.2
	15	3.0	65	70	156	50	8	72	50	34	26	32	22	M20	-	-	-	4.7
H01MA6	A5-J	1.5	31	40	70.5	26	5	35.5	20	15	12	17.5	11	M10	-	-	-	0.6
H022M	6	1.5	30	30	70.5	20	5	36	20	14.5	12	17.5	11	M10	-	-	-	0.4
	8	1.5	35	40	90	26	5	45	25	20	16	20	13.5	M12	-	-	-	0.7
	10	1.5	40	50	105	35	5	51	30	24	18	23	15.5	M14	-	-	-	1.3
	12	3	50	60	126	42	6	60	40	26	21	26	17.5	M16	-	-	-	2.4
H027M	4	1.5	25	25	47.5	16	4	22	16	9.5	11	14	9	M8	-	4	30°	0.2
H037M	5	1.5	25	25	47.5	16	4	22	16	9.5	11	14	9	M8	-	4	30°	0.2
	6	1.5	35	35	66	22	5	31.5	20	14.5	12	17.5	11	M10	-	-	-	0.6
	8	1.5	40	40	85.5	26	5	40.5	25	20	16	20	13.5	M12	-	-	-	1.0
	10	1.5	45	45	108	30	5	54	30	24	18	23	15.5	M14	-	-	-	1.5
	12	1.5	50	60	111	42	5	51	35	25	21	26	17.5	M16	-	-	-	2.2
	15	3	60	66	138	47	8	66	42	30	26	32	22	M20	-	-	-	3.9
H032M	6	1.5	28	30	60	21	4	30	16	14	11	14	9	M8	-	-	-	0.4
	6	1.5	28	28	66	16	5	34	20	12	12	17.5	11	M10	54	5	30°	0.3
	8	1.5	35	38	95	23	5	46	25	24	14	20	13.5	M12	75	12	30°	0.8
H3KT	10	1.5	40	42	110	27	5	50	30	30	16	20	13.5	M12	90	15	15°	1.2
	12	1.5	50	50	111	33	5	60	30	21	21	26	17.5	M16	-	-	-	1.8

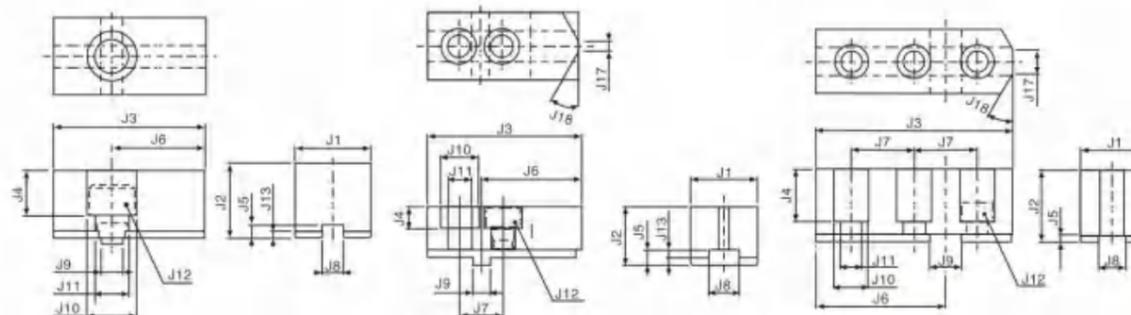
日系卡盤生爪共用表 COMPATIBILITY OF SOFT BLANK JAW

Chuck series number	Compatible chuck series number			
H01MA	4	H022M5	H024M5	H012D4
	6			H010D6
	8			H010D8
	15	H01MA18	H01MA21	H01MA24
H022M	6	H023M8	H024M6	H024D6
	8	H023M10	H024M8	H024D8
	10	H023M12	H024M10	H05M6
	12	H023M15	H024M12	H05M8
	6	H032M8	H027M6	H05M10
H037M	8	H032M10	H027M8	H012D6
	10	H032M12	H027M10	H012D8
	12		H027M12	H024D6
H027M	15		H037M15	H024D8
				H034M6
				H034M8
				H034M10
				H034M12
				H034M15
				H047M15

日系卡盤軟爪系列2 (C型)

SOFT JAWS FOR JIS STANDARD (TONGUE AND GROOVE TYPE)

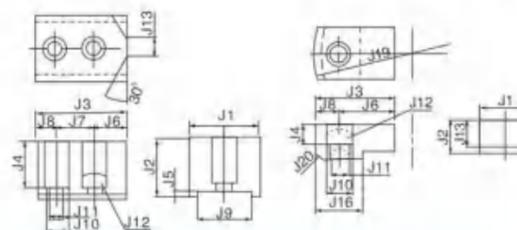
C1形 C1TYPE C2形 C2TYPE C3形 C3TYPE



Chuck series number	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J17	J18	質量kg (1個) Weight	爪形式 Jaw type	
H011MC	4	25	22	50	13	5.5	28	-	8	8	17.5	11	M10	2.5	-	-	0.2	C1
H011MC	5	30	27	56	15	5.5	33	-	8	8	20	13.5	M12	2.5	-	-	0.3	
H011MC	6	35	34	70	21	6	43	-	10	10	23	15.5	M14	3	-	-	0.5	
																		C2
																		C3

日系卡盤軟爪系列2

H063M/H064M/H3EF 型  
SOFT JAWS FOR JIS STANDARD  
(TYPE H063M/H064M.H3EF)



Chuck series number	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12	J13	J16	J19	J20	質量kg Weight
H063M	6	50	44	68	35	4	23.64	29.36	15	38.1	17.5	11	M10	14	-	-	1.0
H064M	8	55	54	83	43.5	4	33.87	34.13	15	44.4	20	13.5	M12	18	-	-	1.6
	10	70	64	100	52.5	4	36.55	44.45	19	57.1	26	17.5	M16	40	-	-	2.9
	12	70	64	110	52.5	4	46.55	44.45	19	57.1	26	17.5	M16	70	-	-	3.2
H3EF	6	32	22	47	12	-	32	-	15	-	17.5	11	M10	17	30	118	0.2
	8	40	27	60	16	-	42	-	18	-	20	13.5	M12	22	35	150	0.4

日系卡盤T型塊

T-NUT FOR JIS CHUCK SERIES

J1形 J1 TYPE      J2形 J2 TYPE      J3形 J3 TYPE

Chuck series number	N1	N2	N3	N4	N5	N6	N7	N8	J12	質量kg(1個) Weight	Jaw nut type
H01MA	4	25.5	15	16.5	10	5.5	14	11	5.5	M8	0.027
	5	30.5	15	16.5	10	5.5	19	11	5.5	M8	0.034
	6	37	17	21.5	12	8	20	14	7.5	M10	0.061
	8	46	20	23.5	14	10	25	15	8.5	M12	0.095
	10	51	23	23.5	16	10	30	15	8.5	M12	0.140
H037M	12	53	28	33	18	11	30	19	14	M14	0.262
	15	82	34	40	26	16	50	23	17	M20	0.560
	4	29	16	16.5	11	6.5	16	10	6.5	M8	0.036
	8	45	22	26.5	16	10	25	18	8.5	M12	0.120
	10	52	24	27.5	18	11	30	18	9.5	M14	0.161
H05M	12	60	27	29	21	12	35	18.5	10.5	M16	0.242
	15	74	34	40	26	16	42	23	17	M20	0.530
	12	65	27	29	21	12	40	18.5	10.5	M16	0.252
H3KT	6	36	17	18.5	12	8	20	11	7.5	M10	0.054
	8	46.5	20	20.5	14	10.5	25	12	8.5	M12	0.092
	10	51	22.5	21.5	16	11	30	13	8.5	M12	0.126
H063M	12	55.5	29.5	27.5	21	12	30	16	11.5	M16	0.211
	6	46.8	20.00	11.0	12.5	8.7	29.36	6.1	4.9	M10	0.050
	8	53.3	22.25	13.3	14.1	9.6	34.13	7.5	5.8	M12	0.075
H064M	10/12	68.4	28.30	17.6	18.9	12.0	44.45	10.3	7.3	M16	0.160

日系卡盤T型塊共用表 COMPATIBILITY OF T-NUT

Chuck series number	H01MA		H037M		H05M		H3KT		H063M		H064M	
4	H022M5		H024M5									H012D4
6	H022M6	H023M8	H024M6	H027M6	H034M6	H047M6	H037M6	H05M6	H032M8	H012D6		
15	H01MA18	H01MA21	H01MA24									
4				H027M4	H027M5		H037M5		H032M6			
8	H022M8	H023M10	H024M8	H027M8	H034M8	H047M8		H05M8	H032M10	H012D8		
10	H022M10	H023M12	H024M10	H027M10	H034M10	H047M10		H05M10	H032M12	H012D10		
12				H027M12	H034M12	H047M12						
15				H027M15	H034M15	H047M15						
H05M	12	H022M12	H023M15	H024M12								

日系卡盤軟爪系列2 (S1型)

SOFT JAWS FOR JIS SERIES S1 TYPE

Chuck series number	Jaw number	Serration Pitch	J1※	J2※	J3※	J4※	J5	J6※	J7	J8※	J9	J10	J11	J12	質量kg(1個) Weight	
H01MA	6	401-062-0-000	3	40	55	87	40	6	51	20	16	12	17.5	11	M10	1.4
	8	401-062-1-000	3	40	60	102	42	6	57	25	20	14	20	13.5	M12	1.6
	10	401-062-2-000	3	50	70	123	52	6	63	30	30	16	20	13.5	M12	3
	12	401-062-3-000	3	62	80	144	63	6	75	30	39	18	23	15.5	M14	5

日系卡盤硬爪系列

HARD JAWS FOR JIS STANDARD

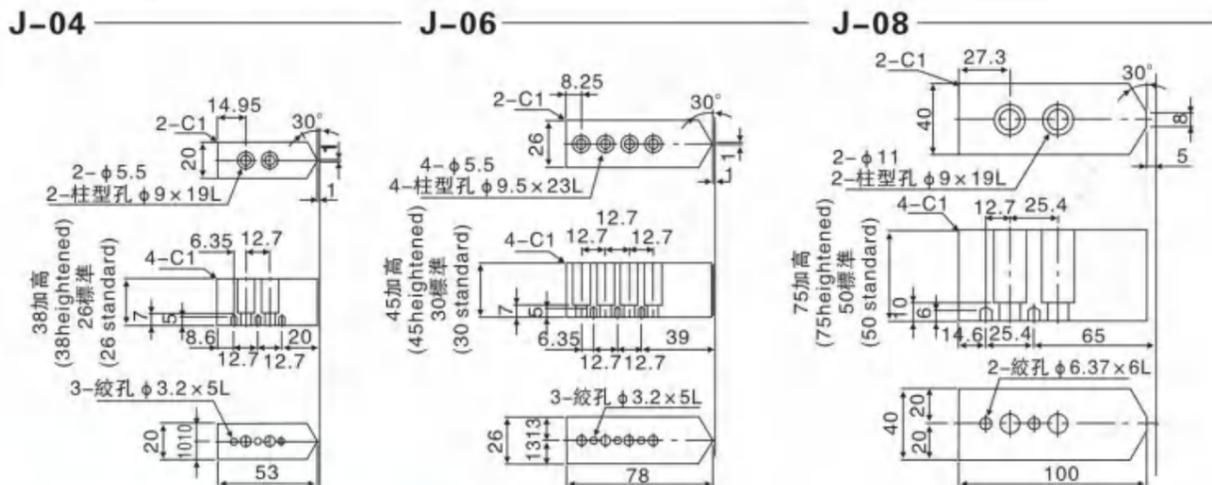
H1形 H1 TYPE      H2形 H2 TYPE      H3形 H3 TYPE      H4形 H4 TYPE

Chuck series number	serration Pitch	JH1	JH2	JH3	JH4	JH5	JH6	JH7	JH8	JH10	JH11	JH18	JH19	JH21	JH22	JH23	JH24	JH25	JH26	質量kg(1個) weight	爪形式 Jaw type	
H01MA	6	3	35	46	85.2	31	6	13.5	20	12	17.5	11	10	10	44	104	128	56	106	25	0.6	H1
	8	3	40	55	87.8	37	6	17	25	14	20	13.5	12	12	42	108	160	48	106.5	22.5	0.7	
	10	3	40	56	98.7	39	6	15	30	16	20	13.5	13	13	86	145	208	53	120	45	1.0	
	12	3	50	62	104.4	45	6	16	30	18	23	16	15	15	140	200	260	70	134.5	71.5	1.5	
	15	3	65	75	153.3	55	8	20	50	26	32	22	30	—	—	—	300	150	225	68	3.3	
H037M	4	1.5	28	30	54.3	20	5	12	14	11	14	9	8	—	—	—	75	20	63	12	0.3	H2
	5	1.5	28	30	54.3	20	5	12	14	11	14	9	8	—	—	—	75	20	63	12	0.3	
	6	1.5	35	35	64.3	22	5	10	20	12	17.5	11	11	—	—	—	86	12	69.5	9.5	0.4	
	8	1.5	40	40	80.1	26	5	11.5	25	16	20	13.5	13	—	—	—	106	16	87	11	0.8	
	10	1.5	45	45	95.3	30	5	15	30	18	23	16	15	—	—	—	138	24	106	16	1.2	
H3KT	12	1.5	50	50	109.7	37	5	15.5	35	21	26	18	20	—	—	—	166	32	124.5	17.5	1.8	H3
	15	3	60	60	132.5	41	8	18	42	26	32	22	20	12	90	116	205	65	164	32	3.0	
	6	1.5	31	35	70.8	23	5	14	20	12	17.5	11	12	12	71	136	68	—	104	36	0.3	
	8	1.5	35	51	87	36	5	19	25	14	20	13.5	12	13	100	186	169	87	127	38	0.6	
	10	1.5	40	54	101.3	39	5	10.5	30	16	20	13.5	13	—	—	—	220	82	136.5	54.5	1.0	
H05M	12	1.5	50	52	106.64	35	5	20.25	30	21	26	17.5	17	—	—	—	210	84	145.25	47.75	1.3	H4
	6	1.5	31	23.5	73	10	5	38	20	15	12	17.5	11	M10	15.5	6	13	46.5	1.5	60°	0.4	
	8	1.5	35	26	89.5	12	5	44.5	25	20	16	20	13.5	M12	18	7	14.5	57	1.5	60°	0.5	
	10	1.5	40	29	103.5	14	5	48.5	30	25	18	23	15.5	M14	21	7	16	67.5	1.5	60°	0.7	
	12	1.5	45	32	122	16	5	52	40	30	21	26	17.5	M16	22	7	16.5	85.5	1.5	60°	0.9	

Chuck series number	夾持範圍/Bolt number 1-2				2-3				
	A	B	C	D	A	B	C	D	
H01MA	6	49 ~ 66	25 ~ 41	85 ~ 101	109 ~ 125	19 ~ 23	60 ~ 75	120 ~ 136	144 ~ 160
	8	75 ~ 109	18 ~ 50	83 ~ 117	135 ~ 169	23 ~ 57	69 ~ 103	136 ~ 169	188 ~ 222
	10	82 ~ 136	27 ~ 81	85 ~ 140	148 ~ 203	24 ~ 76	86 ~ 139	145 ~ 199	208 ~ 262
	12	83 ~ 166	34 ~ 119	94 ~ 179	154 ~ 239	24 ~ 107	94 ~ 178	154 ~ 238	214 ~ 298
	15	116 ~ 200	—	—	198 ~ 284	32 ~ 100	—	—	300 ~ 384
H037M	4	23 ~ 40	—	—	61 ~ 67	11 ~ 15	—	—	75 ~ 93
	5	28 ~ 63	—	—	63 ~ 89	10 ~ 36	—	—	80 ~ 116
	6	54 ~ 82	—	—	87 ~ 114	13 ~ 40	—	—	128 ~ 155
	8	54 ~ 103	—	—	102 ~ 151	10 ~ 55	—	—	152 ~ 201
	10	84 ~ 132	—	—	140 ~ 187	26 ~ 72	—	—	199 ~ 247
H3KT	12	94 ~ 160	—	—	173 ~ 239	26 ~ 92	—	—	241 ~ 307
	15	119 ~ 204	—	—	200 ~ 284	36 ~ 121	—	—	282 ~ 367
	6	48 ~ 78	96 ~ 126	32 ~ 60	—	12 ~ 36	60 ~ 84	71 ~ 101	—
	8	75 ~ 109	9 ~ 43	74 ~ 109	107 ~ 142	24 ~ 58	60 ~ 94	125 ~ 159	158 ~ 192
	10	74 ~ 119	34 ~ 79	121 ~ 165	155 ~ 199	14 ~ 59	94 ~ 139	180 ~ 224	214 ~ 259
12	101 ~ 166	—	—	166 ~ 233	42 ~ 108	—	—	226 ~ 292	

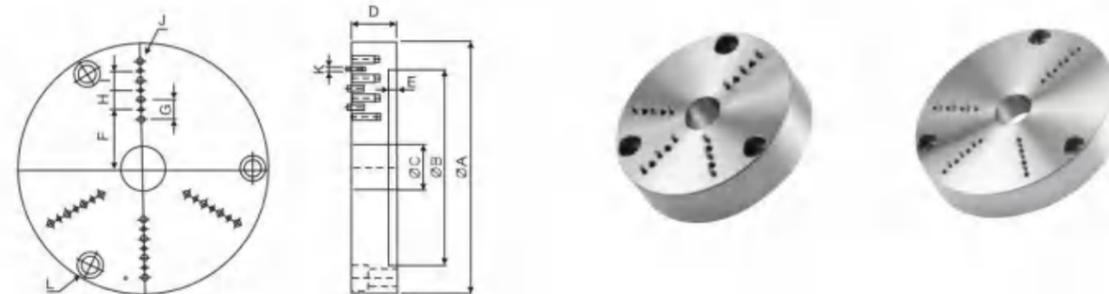
## 超精密卡盤生爪

SOFT JAWS FOR SUPER PRECISION CHUCK



## 超精密生爪成型盤

FR FORMING RINGS  
(FOR SOFT JAWS OF SUPER PRECISION CHUCKS)



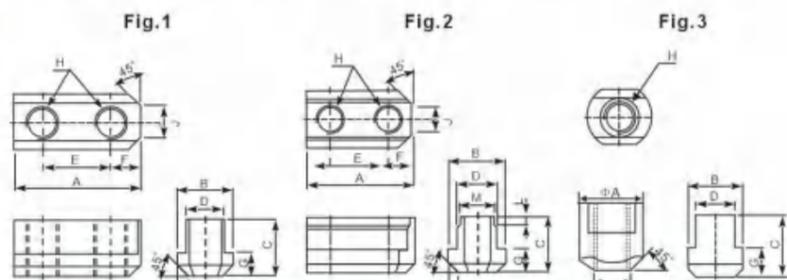
尺寸表 / Size table

單位/UNIT:mm

型式/規格 MODEL /SPEC.	A	B	C	D	E	F	G	H	I	J	K	L	淨重(Kg) Weight
FR-04	112	80	22	30	6	21	12.7	12.7	12.7	6-M5X0.8P	9-Ø3.175	3-M8X1.25P	1.9
FR-06	167	130	30	30	6	40	12.7	12.7	12.7	12-M5X0.8P	9-Ø3.175	3-M10X1.5P	4.3
FR-08	203	160	54	35	6	66	25.4	25.4	--	6-M10X1.5P	6-Ø6.35	3-M10X1.5P	7.2

## T-NUTST型塊

SUITABLE FOR POWER CHUCKS



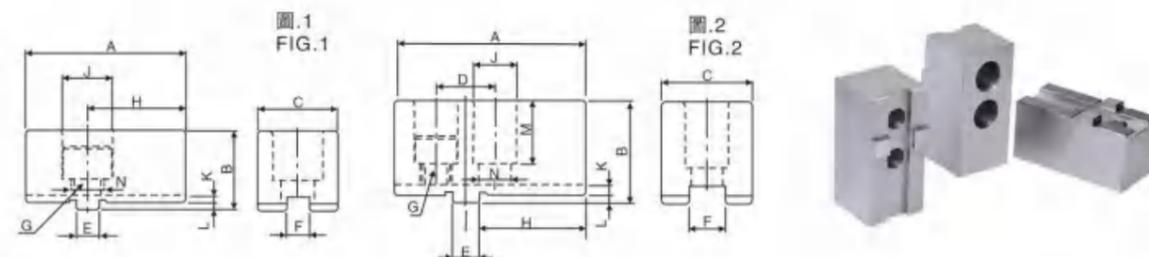
尺寸表 / Size table

型式 Model	A	B	C	D	E	F	G	H	J	K	L	M	Fig
中空 Thru													
T-5"	26	14.5	15	10	14	6	5.5	M8	5	2			1
T-6"	36	17.5	18.5	12	20	8.2	7.5	M10	8	2.5			1
T-8"	46.5	20.5	20.5	14	25	10.5	8.5	M12	12	4			1
T-10"	51	22.5	21.5	16	30	11	8.5	M12	11	3			1
T-12"	55.5	29.5	27.5	21	30	12	11.5	M16	13	4.5			1
T-15"(18")	80	33.5	45.5	24	43	17	16.5	M20	11	5	8	22	2
中實 Non-Thru													
NT-6"	36.5	17.5	22.5	12	20	7.5	7.5	M10	6	3			1
NT-8"	48	20.5	25.5	14	25	11	9.5	M12	8	4			1
NT-10"	55	22.5	25.5	16	30	11	9.5	M12	8	4			1
NT-12"	55.5	26.5	33.5	18	30	11.5	13.5	M14	12	5			1
NT-15"(18")	42	35	39.5	25.5				M20		25			3
NT-15"(18")3.0	42	35	41.5	26				M20		25			3
NT-21"(24")	46	37.5	45	25				M20		26.5			3

注：非標可定做 Customized spec can be made.

## 後拉式夾頭專用生爪

SOFT JAWS FOR PULL BACK POWER CHUCKS



尺寸表 / Size table

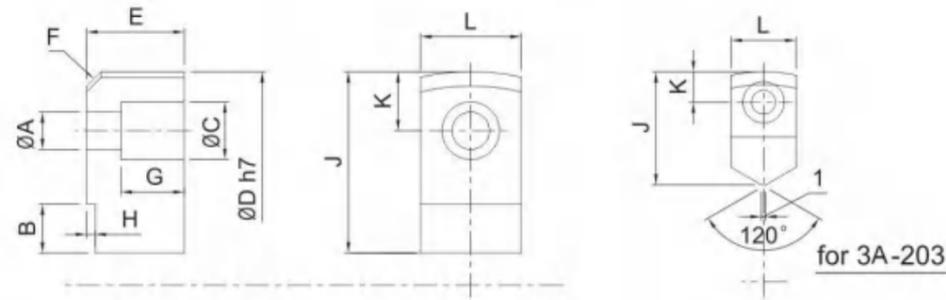
單位/UNIT:mm

型式/規格 MODEL /SPEC.	A	B	C	D	E	F	G	H	J	K	L	M	N	參考圖 Reference Drawing
S-04	52	19.5	25	-	8	8	M10x1.5P	30	17.5	2.5	2.5	13	11	圖.1 fig.1
S-05	56	27	30	-	8	8	M12x1.75P	33	20	2.5	2.5	15	11	圖.2 fig.2
S-06	70	34	35	-	10	10	M14X2P	43	23	3.0	3.0	21	15.5	圖.2 fig.2
S-08	84	44.5	40	26	12	16	M12X1.75P	53	20	3.5	3.5	29	13.5	圖.2 fig.2
S-10	100	49.5	50	32	15	18	M14X2P	62	23	3.5	3.5	32	15.5	圖.1 fig.1
S-12	120	54.5	60	36	17	20	M16X2P	78	26	3.5	3.5	36	17.5	圖.1 fig.1
S-15	165	60	70	40	20	24	M17x2P	105	26	5	5	40	18	

注：非標可定做 Customized spec can be made.

## 3A夾頭之標準生爪

### STANDARD SOFT JAW FOR 3A CHUCK

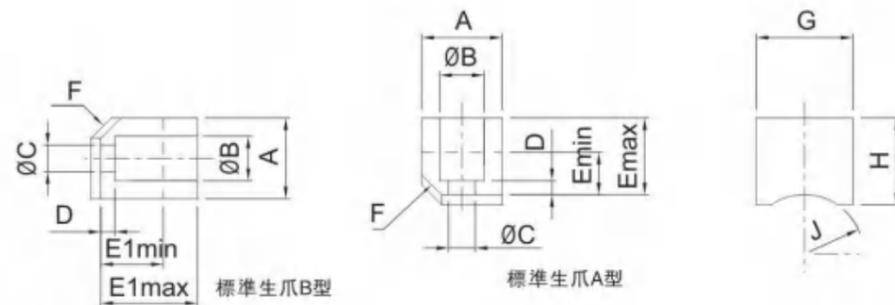


保留規格修改的權利  
Subject to technical changes

型號/寸法 Model/Dim.	A	B	C	D	E	F	G	H	J	K	L
3A-203	5.5	11	9.5	66	12	C3	7	3	26	7	15
3A-204	6.6	11	11	84	17	C4	11	3	32	9.5	20
3A-205	9	13.5	14	108	20	C4	12	3	41.5	13	24
3A-206	11	15	17	129	30	C5	20	3	50	17	30
3A-208	13	15	20	156	34	C5	22	3	63	20.5	35
3A-210	15	20	22	187	39	C5	24	4	74	23	40
3A-212	15	18	22	234	44	C5	29	4	72	23	40

## 3E夾頭之標準生爪

### STANDARD SOFT JAW FOR 3E CHUCK



保留規格修改的權利  
Subject to technical changes

型號/寸法 Model/Dim.	A	B	C	D	E <sub>max.</sub>	E <sub>min.</sub>	E1 <sub>max.</sub>	E1 <sub>min.</sub>	F	G	H	J
3E-05	20	11	6.6	3.5	34	25	41.5	33.5	C5	24	21.5	14.7
3E-06	23	11	6.6	4	44	35	54	43.5	C5	30	28.5	22.7
3E-08	32	14	9	6	54	45	70.5	57.5	C5	35	37	33.25

注：非標可定做 Customized spec can be made.

## 加高扇形全包軟爪

### HIGHER FULL GRIP PIE JAWS



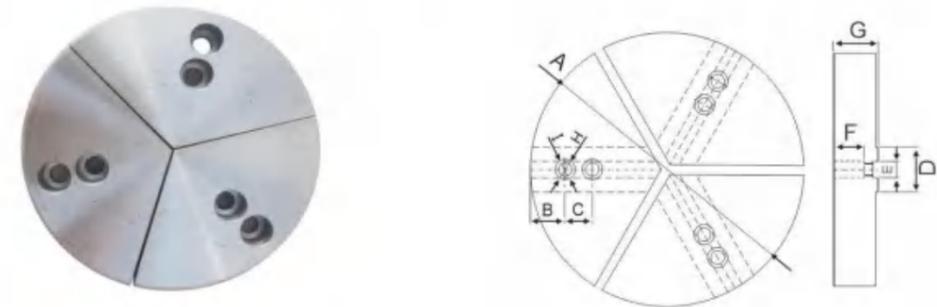
齒距: 1.5mmx60° Serration Pitch: 1.5mmx60°

單位/UNIT:mm

MODEL SPEC (mm)	A	B	C	D	E	F	G	H	I
PJ-05H	130	10	14	25	10	28/38/48	40/50/60	13.5	9
PJ-06H	160	15	20	31	12	25/35/45	40/50/60	17	11
PJ-08H	200	24	25	35	14	34/44/54	50/60/70	19	13
PJ-10H	240	25	30	42	16	44/54/64	60/70/80	19	13
PJ-12H	290	35	30	50	21/18	40/50/60	60/70/80	25/23	17/15
PJ-15H	370	37	43	62	22/25.5	46/56/66	70/80/90	32	21

## 標準扇形全包軟爪

### STANDARD FULL GRIP PIE JAWS



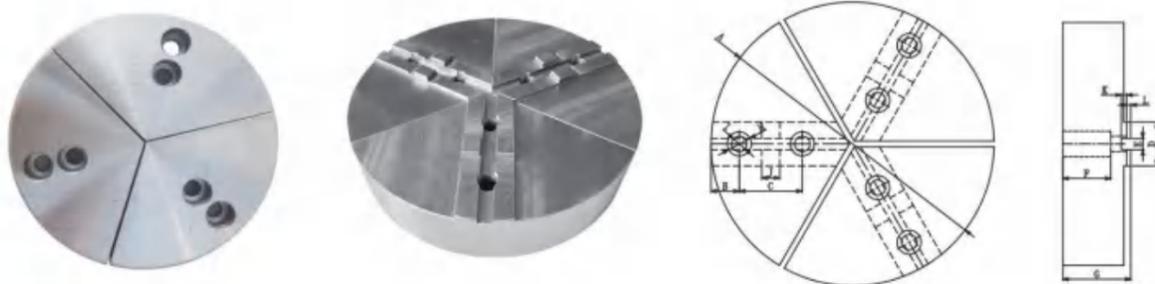
齒距: 1.5mmx60° Serration Pitch: 1.5mmx60°

Model/Spec (mm)	A	B	C	D	E	F	G	H	I	GW KG
PJ-05	130	10	14	25	10	18	30	13.5	9	3.6
PJ-06	160	15	20	31	12	21	36	17	11	4.9
PJ-08	200	24	25	35	14	22	38	19	13	10.6
PJ-10	240	25	30	42	16	26	42	19	13	13.6
PJ-12	290	35	30	50	21/18	30	50	25/23	17/15	23.8
PJ-15	370	37	43	62	22/25.5	38	62	32	21	45.8

注：非標可定做 Customized spec can be made.

## 標準扇形全包強力軟爪

### PIE JAWS FOR SCROLL CHUCK



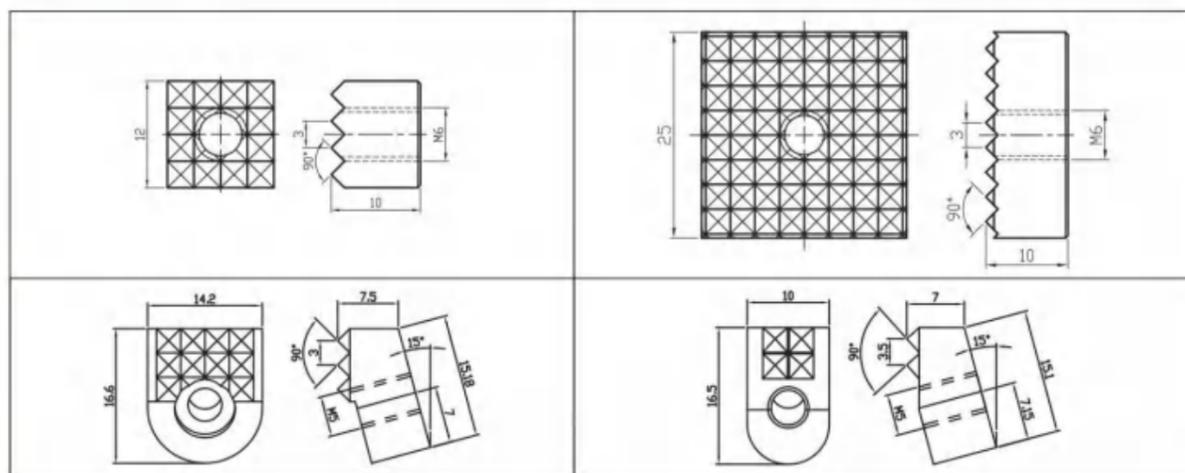
齒距: 1.5mmx60° Serration Pitch: 1.5mmx60°

Model/Spec (mm)	A	B	C	D	E	F	G	H	I	J	K	L
PCP-04	112	14	24	19	7.94	18	30	11	7	9.53	3	2.5
PCP-05	132	15	32	24	7.94	23	35	14	9	12.68	3.5	3
PCP-06	167	17.9	38.1	26	7.94	25	37	14	9	12.68	3.5	3
PCP-07(08)	192	25.2	44.5	31	7.94	35	48	17	11	12.68	3.8	3
PCP-09(10)	232	28	54	37	12.7	34	48	19	13	19.03	4.2	3
PCP-12	310	30.5	63.5	42	12.7	38	54	19	13	19.03	4.2	3
PCP-16	405	41.8	76.2	50	12.7	48	70	25	17	19.03	5.5	6

\* 非標可定做 Customized spec can be made.

## 合金塊

### TUNGSTEN GRIPPER



## HB4系列強力置爪

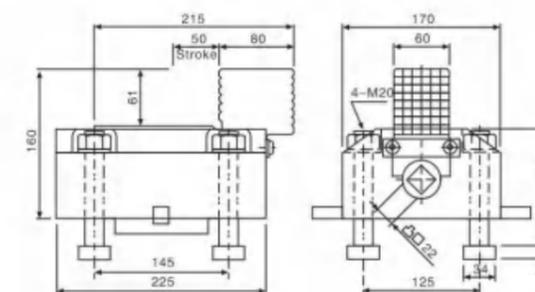
### BORING MILL JAWS

- 1. 適用於巨型車床、立式車床、模治具與工作物得夾持。
- 2. 四個一組附T型螺栓。
- Clamping of workpiece for larger size lathe, vertical lathe, die set with jig.
- One set of 4-piece with T-bolt.



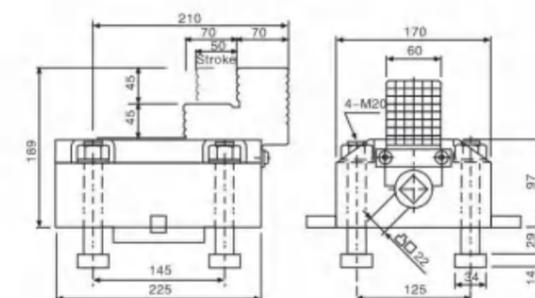
#### HB4-160 規格:

柱塞行程Piston stroke (mm)	50
夾持力Clamping force (KN)	39.2
重量Weight (kg)	29



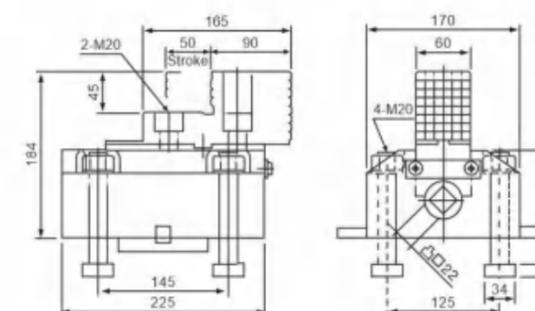
#### HB4-189 規格:

柱塞行程Piston stroke (mm)	50
夾持力Clamping force (KN)	39.2
重量Weight (kg)	31



#### HB4-2P 規格:

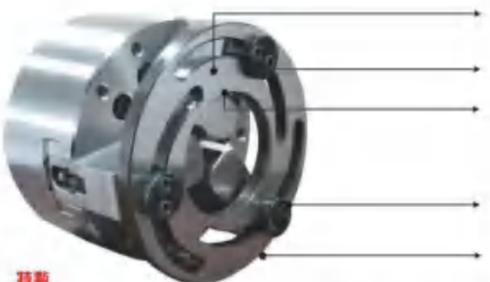
爪行程Jaws stroke (mm)	50
最大夾持力Max Force(kN)	39.2
重量Weight(kg)	31
適合生爪 Matched Jaws	HE2486



注: 保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information 非標可訂做 Customized spec can be made.

油壓生爪修爪器

JAW BORING RING FOR SOFT JAWS



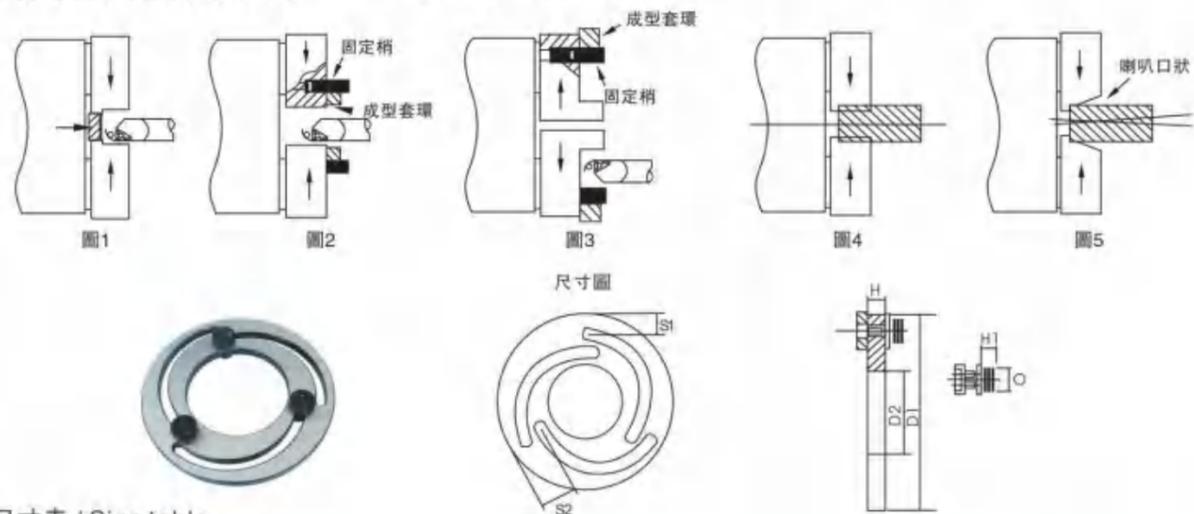
**FEATURE**  
To Suit for CNC lathe  
For adjusting the high accuracy of chuck during machining process.  
The operation process as following:  
1. Set the jaws to correct position. 2. Adjust the jaw boring ring to fit the bolt holes.  
3. Lock the chuck to clamp the jaw boring ring. 4. Machining the required size.  
5. Unlock the chuck. 6. If these steps are operated correctly, the clamping accuracy will be very precise.

- 三夾順着（旋渦狀態）緩緩回轉夾緊可任意調整外夾，內張所需尺寸。
- （偏心制止帽梢）逆向鎖緊，活動行程大。
- 不須再鑽孔攻牙，利用生爪之螺絲孔插入制止帽梢。
- 本體材質經熱處理後研磨，硬度高，強韌耐久使用。
- 成型圈適用5"、6"、8"、10"、12"、15"五種尺寸動力夾盤。

- 特點**
- 1、握持增強，提高真圓度、圓心度、圓筒度等精度，不會產生喇叭口狀及離心震動，影響精度，有良好的控制性效果。
  - 2、外夾內張二者可使用，可根據所需任意調整尺寸，操作方便快捷，省時省力，有效使用；
  - 3、舊的夾頭使用成型圈後，可有效提高精度及握持力，可恢復同新品一樣。

**使用說明**  
使用成型圈，不但能做到外夾，內張與穿通成形3種方式的成形，也就提升。（如圖一、二、三）使用成型圈。與夾頭一成形時，無芯振擺現象，把握力可達100%，可提高精度（如圖四）。使用硬爪夾持時

接觸面不良會產生喇叭口狀，持握力不良會產生離心振動，影響精度，危險增加（如圖五）。



尺寸表 / Size table

型式 MODELS	H	D1	D2	S1	S2	G	H1	O
5"	12	140	60	12	28	10	9	13.5
6"	12	168	80	12	32	10	9	16.5
8"	12	218	115	17	36	10	9	18.5
10"	12	258	150	15	40	10	9	18.5
12"中空Thru-hole	15	316	188	21	50	10	9	24.5
12"中實Non-Thru	15	316	188	21	50	10	9	21.5
15"	20	380	230	23	52	12	16	31

需訂制  
It's made for customized order

軟爪微調修爪器

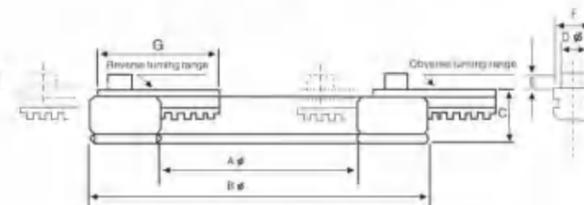
ADJUSTABLE JAWS BORING RING

**FEATURE**  
To Suit for CNC lathe  
This type jaw boring fixture with a continuous fine adjusting ring can provide accurate position, to reduce the abrasion of soft jaws. Soft jaws can be made to requirements size by this fixture easily. Only several simple process, soft jaws can be bored precisely. With anticlockwise lock, the machining field can be easily expended.

- 傳統成型圈需要套圈中心杆等配件，本產品則不需要，節省費用
- 本成型圈採用連續微調方式，易操作，對軟爪的磨損降到最低
- 只需要反轉鎖定位置，就能擴大軟爪的夾持範圍
- 本成型圈可適用於手動夾頭與液壓夾頭



反轉位置：reverse turning range  
正轉位置：obverse turning range



規格表 / SPECIFICATIONS 單位/UNIT: mm

規格/型號 Spec/Model	A	B	C	D	E	F	G	爪行程(直徑) Jaw Stroke (Dia)	最大夾持力 Max Gripping (Kgf)	最大轉速 Max RPM	重量 Weight (Kg)	通用卡盤 Matching Chuck
TL-100(TLF-100)	100	170	26	13	7	19	61	7.4	1500	800	2.7	5"/6"/8"
TL-125(TLF-125)	125	200	26	16.3	8	19	61	7.4	1500	700	3.5	6"/8"/10"
TL-160(TLF-160)	160	248	31	18.3	8	24	80	8.5	1750	600	5.6	8"/10"/12"

注：TL 為三爪形式/3 jaw model, TLF 為四形式/4 jaw model

油壓生爪成型器

FORMING PLATE FOR SOFT JAWS



規格 Model	調整外徑 Range	規格 Model	調整外徑 Range
JBP-5-4	5"四爪成型盤/5"3-Jaw boring plate	JBP-5-3	5"三爪成型盤/5"3-Jaw boring plate
JBP-6-4	6"四爪成型盤/6"4-Jaw boring plate	JBP-6-3	6"三爪成型盤/6"3-Jaw boring plate
JBP-8-4	8"四爪成型盤/8"4-Jaw boring plate	JBP-8-3	8"三爪成型盤/8"3-Jaw boring plate
JBP-10-4	10"四爪成型盤/10"4-Jaw boring plate	JBP-10-3	10"三爪成型盤/10"3-Jaw boring plate

- 本產品適用於模具放電成型車、銑成型用。
- It is applicable to make the mould by EDM processing or machining and milling processing.

外徑修爪器

JAW BORING RING FOR OUTSIDE DIAMETER

夾持卡爪外部，修卡爪外圓，使卡爪能夠外撐工件進行加工。  
This Jaw boring ring is for machining the external circle of the jaws, in order to expand the workpiece precisely

規格表 / SPECIFICATION

規格 Model	調整外徑 Range	適用卡型 For Chuck
OR-6	Φ140-Φ170	6"
OR-8	Φ170-Φ215	8"
OR-10	Φ215-Φ270	10"

注：OR-12與OR-15及其他規格的外徑成型圈可非標訂制  
For OR-12 or OR-15 and other spec is available for customized order.



應用案例 Applications



## 頂針系列 CENTERS SERIES



### > NCH-61 SERIES

#### 尖部替換式精密級高速回轉頂針

#### INTERCHANGEABLE MEDIUM DUTY PRECISION HIGH SPEED LIVE CENTER

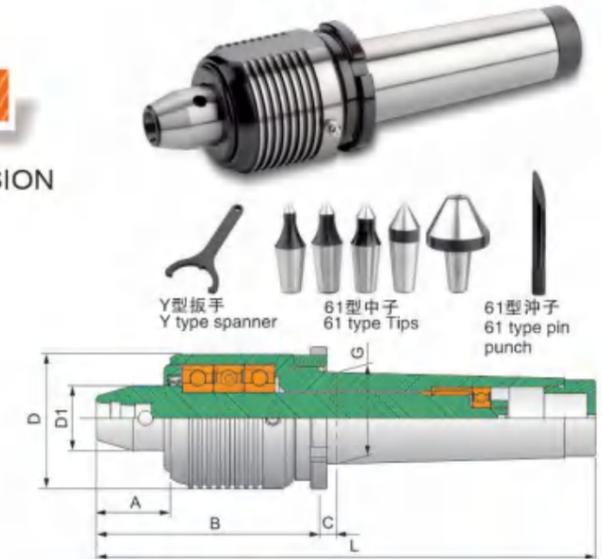
- ◎ 適用: CNC車床及高速車床。  
Application: CNC lathe and high speed lathe.
- ◎ 用途: 適用高速高精軸心車削加工。  
Working Usage: High speed and high precision lathe turning.
- ◎ 結構: 斜角滾珠精密級高速軸承, 針狀軸承特殊設計製成。  
Structure: Combination of angular contact ball precise high speed bearing and needle bearing.
- ◎ 配件: Y型扳手、61型中子、61型沖子  
Accessories: Y spanner and 61 type Tips and 61 type pin punch.
- ◎ 精準度: 0.005以內  
TIR: Less than 0.005mm

規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
NCH-61-3A	36	105	8	57	31.2	23.825(MT3)	192	12,000rpm	1,600kg	1,240kg
NCH-61-4A	36	108	9	62	31.2	31.267(MT4)	216	12,000rpm	2,730kg	1,750kg
NCH-61-5A	36	108	9	62	31.2	44.399(MT5)	243	12,000rpm	2,730kg	1,750kg

中負荷  
Medium duty

替換式系列  
Interchangeable live centers series



### > SC-61 SERIES

#### 尖部替換式中負荷回轉頂針

#### INTERCHANGEABLE MEDIUM DUTY LIVE CENTER

- ◎ 適用: CNC車床、高速車床及其他機床。  
Application: CNC lathe and high speed lathe or other lathe machine.
- ◎ 用途: 適用長度400mm以內一般軸心車削加工。  
Working Usage: Applicable for the length less than 400mm ordinary turning process.
- ◎ 結構: 軸承徑向力和軸向力分開設計, 採用雙列滾珠精密軸承、止推軸承、滾針軸承排列製成。  
Structure: The radial load and axial load designed separately. Combination of double row ball bearing and thrust bearing and needle bearing.
- ◎ 選配: SC-61-M-3/4/5: 61型中子、61型沖子  
Accessories: SC-61-M-3A/4A/5A: Y型扳手、61型中子、61型沖子  
1. For SC-61-M-3/4/5, 61 type Tips and 61 type pin punch.  
2. For SC-61-M-3A/4A/5A, Y spanner and 61 type Tips and 61 type pin punch.
- ◎ 精準度: 0.005以內  
TIR: Less than 0.005mm

S light type for slender workpiece  
另有同規格輕負荷(S型, 無螺帽)  
可改善細長工件加工易變形問題

規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
SC-61-M-3	34	89	8	57	31.2	23.825(MT3)	176	4,500 rpm	1,200 kg	1,800 kg
SC-61-M-4	34	89	9	57	31.2	31.267(MT4)	197	4,500 rpm	1,300 kg	2,200 kg
SC-61-M-5	34	89	9	57	31.2	44.399(MT5)	224	4,500 rpm	1,400 kg	2,300 kg
SC-61-M-3A	34	101	8	57	31.2	23.825(MT3)	188	4,500 rpm	1,200 kg	1,800 kg
SC-61-M-4A	34	101	9	57	31.2	31.267(MT4)	209	4,500 rpm	1,300 kg	2,200 kg
SC-61-M-5A	34	101	9	57	31.2	44.399(MT5)	236	4,500 rpm	1,400 kg	2,300 kg



**替換式系列**  
Interchangeable live centers series

**中負荷**  
Medium duty

## > F361 SERIES

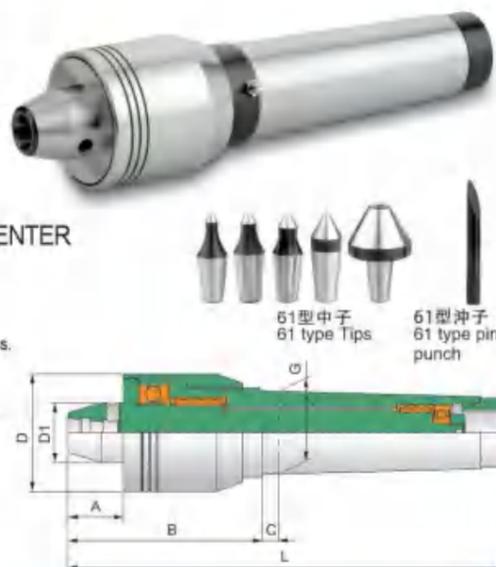
### 尖部替換式小徑回轉頂針

INTERCHANGEABLE MEDIUM DUTY SMALL DIAMETER LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application CNC lathe and high speed lathe or other lathe machine.
- 用途: 適用小徑軸心長度300mm以內中車削加工。  
Working Usage Applicable for small dia. and the length less than 300mm medium turning process.
- 結構: 採用止推軸承、前後滾針軸承，兩個支撐點特殊設計製成。  
Structure Combination of thrust bearing and needle bearing at front and rear place, and with the design of double supporting point.
- 配件: 61型中子、61型沖子  
Accessories 61 type Tips and 61 type pin punch.
- 精準度: 0.005以內  
TIR Less than 0.005mm

規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
F361-3	30	85	8	41	32	23.825(MT3)	172	3,500 rpm	1,200 kg	1,500 kg
F361-4	30	89	9	48	32	31.267(MT4)	197	3,500 rpm	1,400 kg	1,900 kg
F361-5	30	110	9	63	32	44.399(MT5)	245	3,000 rpm	2,200 kg	2,500 kg



## > F348 SERIES

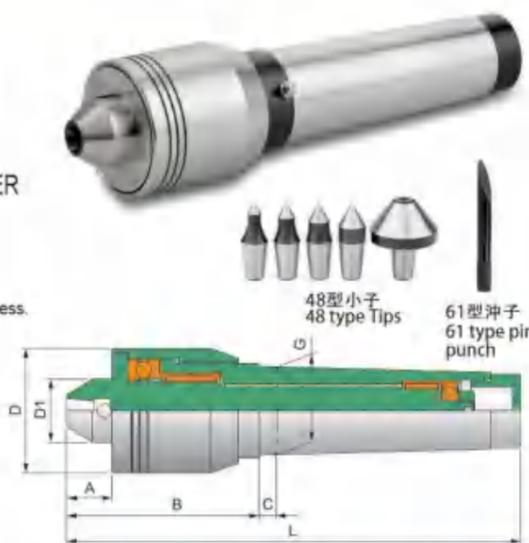
### 尖部替換式小徑回轉頂針

INTERCHANGEABLE MEDIUM DUTY SMALL DIAMETER LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application CNC lathe and high speed lathe or other lathe machine.
- 用途: 適用小徑軸心長度300mm以內中車削加工。  
Working Usage Applicable for small dia. and the length less than 300mm medium turning process.
- 結構: 採用止推軸承、前後滾針軸承，兩個支撐點特殊設計製成。  
Structure Combination of thrust bearing and needle bearing at front and rear place, and with the design of double supporting point.
- 選配: 48型小子、61型沖子  
Accessories 48 type Tips and 61 type pin punch.
- 精準度: 0.005以內  
TIR Less than 0.005mm

規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
F348-2	23	70	6	32	25	17.780(MT2)	139	4,000 rpm	300 kg	1,000 kg
F348-3	23	78	8	41	30	23.825(MT3)	165	3,500 rpm	1,200 kg	1,500 kg
F348-4	23	82	9	48	32	31.267(MT4)	190	3,500 rpm	1,400 kg	1,900 kg
F348-5	23	103	9	63	32	44.399(MT5)	238	3,000 rpm	2,200 kg	2,500 kg



備註: ■ 本頂針指定使用SKF-LGMT2專用潤滑油，請勿使用其他不同成分之潤滑油。  
 ■ 產品型號中有“A”的表示頂針有附螺帽 ■ 配件中的頂針子，型號有“A”的為加長型頂針子。  
 ■ 徑向力數據參考：加工件重量+車削力量 ■ 軸向力數據參考：尾座油壓壓力數據 ■ 注油式：可添加專用SKF潤滑油，具防水性。  
 ■ For the lubricating oil, SKF-LGMT2 is designated, others aren't allowed. ■ If "A" is behind the center interchangeable tip name, it denotes the tip is extended length.  
 ■ About axial force data, please refer to the hydraulic pressure data of the tailstock. ■ For live centers, SKF lubricating oil is designated, it is waterproof.

**中負荷**  
Medium duty

**替換式系列**  
Interchangeable live centers series

## > TSC-761 SERIES

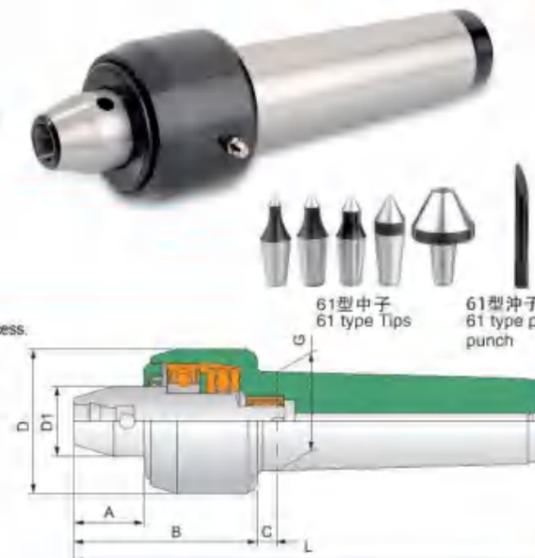
### 尖部替換式回轉頂針

INTERCHANGEABLE MEDIUM DUTY LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application CNC lathe and high speed lathe or other lathe machine.
- 用途: 適用長度300mm以內一般軸心車削加工。  
Working Usage Applicable for small dia. and the length less than 300mm ordinary turning process.
- 結構: 採用前後兩個支撐點止推軸承設計製成。  
Structure Combination of thrust bearing and with the design of double supporting point.
- 配件: 61型中子、61型沖子  
Accessories 61 type Tips and 61 type pin punch.
- 精準度: 0.005以內  
TIR Less than 0.005mm

規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
TSC-761-3	32	83	8	58	31.2	23.825(MT3)	170	4,000 rpm	900 kg	2,200 kg
TSC-761-4	32	83	9	65	31.2	31.267(MT4)	191	4,000 rpm	1,100 kg	2,500 kg
TSC-761-5	32	83	9	65	31.2	44.399(MT5)	218	4,000 rpm	1,200 kg	2,500 kg



## > TSC-748 SERIES

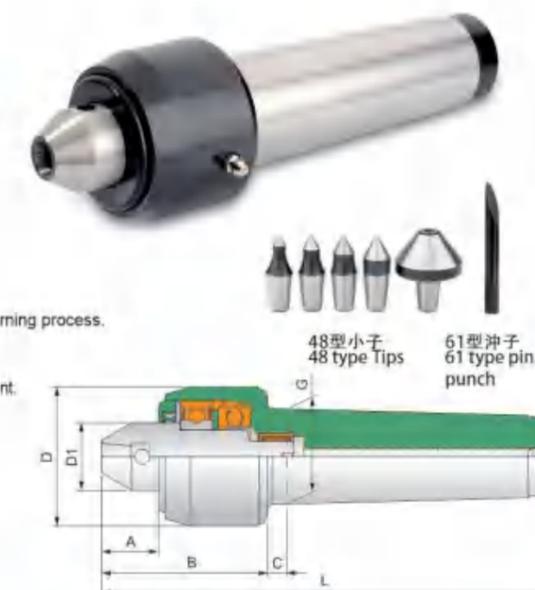
### 尖部替換式回轉頂針

INTERCHANGEABLE MEDIUM DUTY LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application CNC lathe and high speed lathe or other lathe machine.
- 用途: 適用長度300mm以內一般軸心車削加工。  
Working Usage Applicable for small dia. and the length less than 300mm ordinary turning process.
- 結構: 採用前後兩個支撐點止推軸承設計製成。  
Structure Combination of thrust bearing and with the design of double supporting point.
- 選配: 48型小子、61型沖子  
Accessories 48 type Tips and 61 type pin punch.
- 精準度: 0.005以內  
TIR Less than 0.005mm

規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
TSC-748-3	27	78	8	58	31.2	23.825(MT3)	165	4,000 rpm	900 kg	2,200 kg
TSC-748-4	27	78	9	65	31.2	31.267(MT4)	186	4,000 rpm	1,100 kg	2,500 kg
TSC-748-5	27	78	9	65	31.2	44.399(MT5)	213	4,000 rpm	1,200 kg	2,500 kg



**替換式系列**  
Interchangeable live centers series

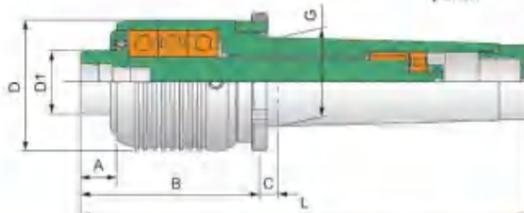
**重負荷**  
Heavy duty

## > NCH-65 SERIES

### 尖部替換式精密級高速回轉頂針

INTERCHANGEABLE HEAVY DUTY PRECISION HIGH SPEED LIVE CENTER

- 適用: CNC車床及高級車床。  
Application: CNC lathe and high speed lathe.
- 用途: 適用高速精密軸心車削加工。  
Working Usage: Applicable for high speed and high precision turning process.
- 結構: 斜角滾珠精密級高速軸承, 針狀軸承特殊設計製成。  
Structure: Combination of angular contact ball precise high speed bearing and thrust bearing and needle bearing.
- 配件: Y型扳手、65型大子、65型沖子  
Accessories: Y spanner and 65 type Tips and 65 type punch.
- 精準度: 0.005以內  
TIR: Less than 0.005mm



規格 / Specification 單位/UNIT: mm

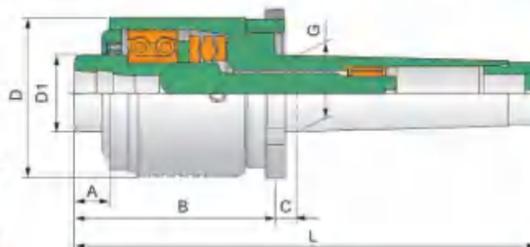
型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
NCH-65-4A	18	90	9	62	31.2	31.267(MT4)	198	12,000 rpm	2,730 kg	1,750 kg
NCH-65-5A	18	90	9	62	31.2	44.399(MT5)	225	12,000 rpm	2,730 kg	1,750 kg

## > SC-65 SERIES

### 尖部替換式重負荷回轉頂針

INTERCHANGEABLE HEAVY DUTY LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application: CNC lathe and high speed lathe or other lathe.
- 用途: 適用長度400mm以內, 一般強力車削加工。  
Working Usage: Applicable for the length less than 400mm ordinary strong turning process.
- 結構: 採用雙列滾珠精密軸承、止推軸承、滾針軸承特殊設計製成。  
Structure: Combination of double row ball precise bearing and thrust bearing and needle bearing.
- 選配: SC-65-H-4/5:65型大子、65型沖子  
Accessories: SC-65-H-4A/5A:Y型扳手、65型大子、65型沖子  
1, For SC-65-H-4/5, 65 type Tips and 65 type punch.  
2, For SC-61-H-4A/5A, Y spanner and 65 type Tips and 65 type punch.
- 精準度: 0.005以內  
TIR: Less than 0.005mm



S light type for slender workpiece  
另有同規格輕負荷(S型, 無螺帽)  
可改善細長工件加工易變形問題

規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
SC-65H-4	14	70	9	62	31.2	31.267(MT4)	178	4,000 rpm	1,430 kg	2,700 kg
SC-65H-5	14	70	9	62	31.2	44.399(MT5)	205	4,000 rpm	1,430 kg	2,700 kg
SC-65H-4A	14	82	9	62	31.2	31.267(MT4)	190	4,000 rpm	1,430 kg	2,700 kg
SC-65H-5A	14	82	9	62	31.2	44.399(MT5)	217	4,000 rpm	1,430 kg	2,700 kg

**重負荷**  
Heavy duty

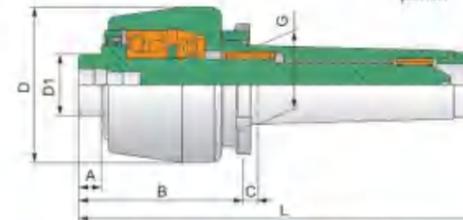
**替換式系列**  
Interchangeable live centers series

## > TSC-265 SERIES

### 尖部替換式高性能重負荷回轉頂針

INTERCHANGEABLE HEAVY DUTY HIGH PERFORMANCE LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application: CNC lathe and high speed lathe or other lathe.
- 用途: 適用一般軸心強力車削加工。  
Working Usage: Applicable for ordinary strong turning process.
- 結構: 採用雙列滾珠精密軸承, 止推軸承及滾針軸承設計, 採三個支撐點特殊設計製成。  
Structure: Combination of double row ball precise bearing and thrust bearing and needle bearing. With the design of three supporting points.
- 配件: Y型扳手、65型大子、65型沖子  
Accessories: Y spanner and 65 type Tips and 65 type punch.
- 精準度: 0.005以內  
TIR: Less than 0.005mm



規格 / Specification 單位/UNIT: mm

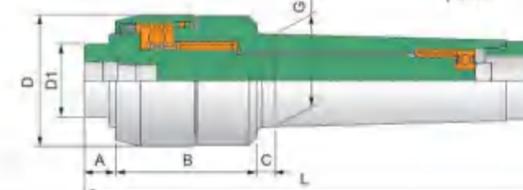
型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
TSC-265-3A	15	87	8	58	34.8	23.825(MT3)	174	6,000 rpm	1,450 kg	1,800 kg
TSC-265-4A	15	87	9	65	34.8	31.267(MT4)	195	6,000 rpm	2,250 kg	2,700 kg
TSC-265-5A	15	93	9	75	34.8	44.399(MT5)	228	6,000 rpm	3,620 kg	3,000 kg

## > TSC-665 SERIES

### 尖部替換式強力回轉頂針

INTERCHANGEABLE HEAVY DUTY STRONG LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application: CNC lathe and high speed lathe or other lathe.
- 用途: 適用高推力強力車削加工。  
Working Usage: Applicable for ordinary strong turning process.
- 結構: 止推軸承加大推力設計, 載重前後採用針狀軸承設計製成。  
Structure: Combination of thrust bearing with enhanced axial load design and needle bearing at front and rear place for radial load.
- 選配: 65型大子、65型沖子  
Accessories: 65 type Tips and 65 type punch.
- 精準度: 0.005以內  
TIR: Less than 0.005mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
TSC-665-3	12	69	8	58	34.8	23.825(MT3)	156	3,500 rpm	1,960 kg	1,750kg
TSC-665-4	15	83	9	63	34.8	31.267(MT4)	191	3,500 rpm	2,800 kg	2,150kg
TSC-665-5	15	83	9	63	34.8	44.399(MT5)	218	3,500 rpm	3,080 kg	2,150kg

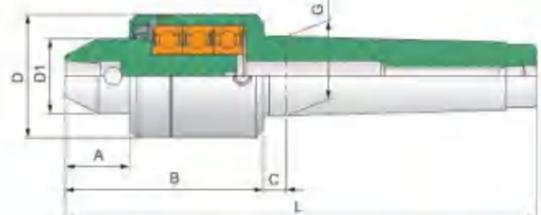
## 替換式系列 輕負荷 Interchangeable live centers series Light duty

### > SC-48 SERIES

#### 尖部替換回轉頂針

#### INTERCHANGEABLE LIGHT DUTY LIVE CENTER

- 適用: CNC車床、高速車床及一般車床。  
Application CNC lathe and high speed lathe or center lathe.
- 用途: 適用一般小徑高速車削加工。  
Working Usage Applicable for ordinary small diameter high speed turning process.
- 結構: 採用斜角滾珠軸承, 深溝滾珠軸承特殊設計製成。  
Structure Combination of angular contact ball bearing and deep groove ball bearing.
- 配件: 48型小子、61型沖子  
Accessories 48 type Tips and 61 type pin punch.
- 精準度: 0.005以內  
TIR Less than 0.005mm



規格 / Specification 單位/UNIT: mm

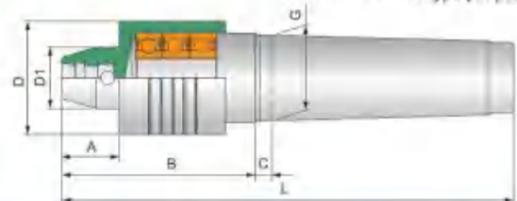
型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load
SC-48-M-2	25	78	6	52	28.5	17.780(MT2)	147	2,000 rpm	300 kg
SC-48-M-3	25	79	8	52	28.5	23.825(MT3)	166	2,000 rpm	400 kg
SC-48-M-4	25	78	9	52	28.5	31.267(MT4)	186	2,000 rpm	500 kg

### > SC-91 SERIES

#### 尖部替換回轉頂針

#### INTERCHANGEABLE LIGHT DUTY LIVE CENTER

- 適用: 一般車床使用(沒有防水功能, 不適用CNC車床)。  
Application Ordinary lathe (without waterproof function, can't be used to CNC lathe).
- 用途: 適用一般軸心車削加工。  
Working Usage Applicable for ordinary turning process.
- 結構: 採用合金鋼材, 經熱處理硬度達57°~60°, 內外徑研磨製成。  
Structure Made of alloy steel and hardened to HRC 57-60, ground on ID and OD.
- 選配: 61型中子、61型沖子  
Accessories 61 type Tips and 61 type pin punch.
- 精準度: 0.005以內  
TIR Less than 0.005mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load
SC-91-L-2	30	95	6	48	32	17.780(MT2)	164	3,500 rpm	160 kg
SC-91-L-3	30	95	8	48	32	23.825(MT3)	182	3,000 rpm	250 kg
SC-91-L-4	30	95	9	48	32	31.267(MT4)	203	2,600 rpm	400 kg
SC-91-L-5	30	101	9	59	32	44.399(MT5)	236	2,200 rpm	800 kg

備註: ■ 本頂針指定使用SKF-LGTM2專用潤滑油, 請勿使用其他不同成分之潤滑油。  
 ■ 產品型號中有“A”的表示頂針有附螺帽 ■ 配件中的頂針子, 型號有“A”的為加長型頂針子。  
 ■ 徑向力數據參考: 加工件重量+車削力量 ■ 軸向力數據參考: 尾座油壓壓力數據 ■ 注油式: 可添加專用SKF潤滑油, 具防水性。  
 ■ For the lubricating oil SKF-LGTM2 is designated, others aren't allowed. ■ If "A" is behind the center interchangeable tip name, it denotes the tip is extended length.  
 ■ About axial force data, please refer to the hydraulic pressure data of the tailstock. ■ For live centers, SKF lubricating oil is designated, it is waterproof.

## 中負荷 回轉式系列 Medium duty Live centers series

### > SC-63 SERIES

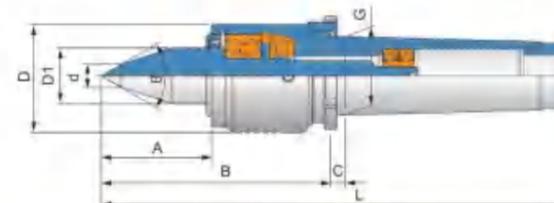
#### 中負荷細長型回轉頂針

#### MEDIUM DUTY LONG NOSE LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application CNC lathe, high speed lathe and other lathe.
- 用途: 適用長度400mm以內一般軸心車削加工及細長型車削加工。  
Working Usage Applicable for the length less than 400mm ordinary turning process, and slender workpiece turning process.
- 結構: 軸承徑向力和軸向力分開設計, 採用雙列滾珠精密軸承、止推軸承、滾針軸承排列製成。  
Structure The radial load and axial load designed separately. Adopted double row ball precision bear and thrust bearing and needle bearing.
- 配件: SC-63-M-3A/4A/5A:Y型扳手 (Y spanner)  
Accessories For SC-63-M-3A/4A/5A, Y type spanner
- 精準度: 0.002以內  
TIR Less than 0.002mm



Y型扳手  
Y type spanner



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	d	L	θ	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
SC-63-M-3	60	115	8	57	31.2	23.825(MT3)	12	202	60°	4,500 rpm	1,200 kg	1,800 kg
SC-63-M-4	60	115	9	57	31.2	31.267(MT4)	12	223	60°	4,500 rpm	1,300 kg	2,200 kg
SC-63-M-5	60	115	9	57	31.2	44.399(MT5)	12	250	60°	4,500 rpm	1,400 kg	2,300 kg
SC-63-M-3A	60	127	8	57	31.2	23.825(MT3)	12	214	60°	4,500 rpm	1,200 kg	1,800 kg
SC-63-M-4A	60	127	9	57	31.2	31.267(MT4)	12	235	60°	4,500 rpm	1,300 kg	2,200 kg
SC-63-M-5A	60	127	9	57	31.2	44.399(MT5)	12	262	60°	4,500 rpm	1,400 kg	2,300 kg

### > SC-69 SERIES

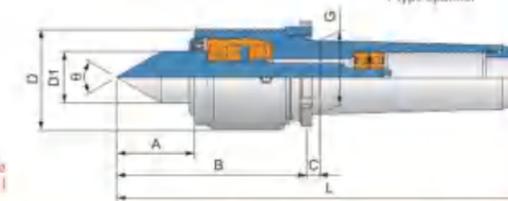
#### 中負荷回轉頂針

#### MEDIUM DUTY LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application NC lathe, high speed lathe and other lathe.
- 用途: 適用長度400mm以內一般軸心車削加工。  
Working Usage Applicable for the length less than 400mm ordinary turning process.
- 結構: 軸承徑向力和軸向力分開設計, 採用雙列滾珠精密軸承、止推軸承、滾針軸承排列製成。  
Structure The radial load and axial load designed separately. Adopted double row ball precision bear and thrust bearing and needle bearing.
- 選配: SC-63-M-3A/4A/5A:Y型扳手  
Accessories For SC-63-M-3A/4A/5A, Y type spanner
- 精準度: 0.002以內  
TIR Less than 0.002mm



Y型扳手  
Y type spanner



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	θ	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
SC-69-M-3	48	103	8	57	31.2	23.825(MT3)	190	60°	4,500 rpm	1,200 kg	1,800 kg
SC-69-M-4	48	103	9	57	31.2	31.267(MT4)	211	60°	4,500 rpm	1,300 kg	2,200 kg
SC-69-M-5	48	103	9	57	31.2	44.399(MT5)	238	60°	4,500 rpm	1,400 kg	2,300 kg
SC-69-M-3A	48	115	8	57	31.2	23.825(MT3)	202	60°	4,500 rpm	1,200 kg	1,800 kg
SC-69-M-4A	48	115	9	57	31.2	31.267(MT4)	223	60°	4,500 rpm	1,300 kg	2,200 kg
SC-69-M-5A	48	115	9	57	31.2	44.399(MT5)	250	60°	4,500 rpm	1,400 kg	2,300 kg

■ Light type for slender workpiece  
另有同規格輕負荷(S型)頂針  
可改善細長工件加工易變形問題

回轉式系列  
Live centers series

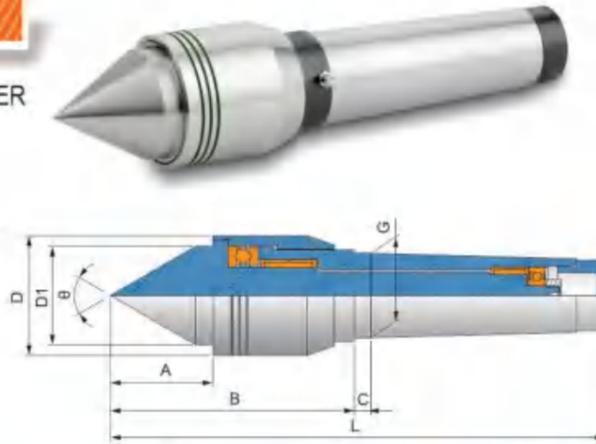
中負荷  
Medium duty

## > F362 SERIES

### 精密小徑回轉頂針

MEDIUM DUTY PRECISE SMALL DIAMETER LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application: CNC lathe, high speed lathe and other lathe
- 用途: 適用小徑軸心長度300mm以內中車削加工。  
Working Usage: Applicable for small diameter and length less than 300mm medium turning process
- 結構: 採用止推軸承、前後滾針軸承，兩個支撐點特殊設計製成。  
Structure: Adopted thrust bearing and needle bearing at front and rear place, with the design of two supporting point
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格/Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
F362-2	28	75	6	32	23	17.780(MT2)	144	60°	4,000 rpm	400 kg	1,000 kg
F362-3	36	91	8	41	35	23.825(MT3)	178	60°	3,500 rpm	1,200 kg	1,500 kg
F362-4	41	100	9	48	40	31.267(MT4)	208	60°	3,500 rpm	1,400 kg	1,900 kg
F362-5	54	134	9	63	52	44.399(MT5)	269	60°	3,000 rpm	2,200 kg	2,500 kg

## > F363 SERIES

### 精密小徑細長型回轉頂針

MEDIUM DUTY PRECISE SMALL DIAMETER LONG NOSE LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application: CNC lathe, high speed lathe and other lathe
- 用途: 適用小徑軸心長度300mm以內中車削加工(細長型車削加工)。  
Working Usage: Applicable for the slender workpiece and length less than 300mm ordinary turning process
- 結構: 採用止推軸承、前後滾針軸承，兩個支撐點特殊設計製成。  
Structure: Adopted thrust bearing and needle bearing at front and rear place, with the design of two supporting point
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格/Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	d	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
F363-2	40	87	6	32	20	8	17.780(MT2)	156	60°	4,000 rpm	400 kg	1,000 kg
F363-3	46	101	8	41	25	10	23.825(MT3)	188	60°	3,500 rpm	1,200 kg	1,500 kg
F363-4	55	114	9	48	32	12	31.267(MT4)	222	60°	3,500 rpm	1,400 kg	1,900 kg
F363-5	75	155	9	63	45	14	44.399(MT5)	290	60°	3,000 rpm	2,200 kg	2,500 kg

中負荷  
Medium duty

回轉式系列  
Live centers series

## > TSC-762 SERIES

### 高效能回轉頂針

MEDIUM DUTY HIGH PERFORMANCE LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application: CNC lathe, high speed lathe and other lathe
- 用途: 適用長度300mm以內一般軸心車削加工。  
Working Usage: Applicable for the length less than 300mm ordinary turning process
- 結構: 採用前後兩個支撐點止推軸承設計製成。  
Structure: Combination of thrust bearing and design of front and rear double supporting point
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格/Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
TSC-762-3	45	96	8	58	31.2	23.825(MT3)	183	60°	4,000 rpm	900 kg	2,200 kg
TSC-762-4	45	96	9	65	31.2	31.267(MT4)	204	60°	4,000 rpm	1,100 kg	2,500 kg
TSC-762-5	45	96	9	65	31.2	44.399(MT5)	231	60°	4,000 rpm	1,200 kg	2,500 kg

## > TSC-763 SERIES

### 高效能細長型回轉頂針

MEDIUM DUTY HIGH PERFORMANCE LONG NOSE LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application: CNC lathe, high speed lathe and other lathe
- 用途: 適用長度300mm以內一般軸心車削加工(細長型車削加工)。  
Working Usage: Applicable for the slender workpiece and length less than 300mm ordinary turning process
- 結構: 採用前後兩個支撐點止推軸承設計製成。  
Structure: Combination of thrust bearing and design of front and rear double supporting point
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格/Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	d	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
TSC-763-3	58	109	8	58	31.2	12	23.825(MT3)	196	60°	4,000 rpm	900 kg	2,200 kg
TSC-763-4	58	109	9	65	31.2	12	31.267(MT4)	217	60°	4,000 rpm	1,100 kg	2,500 kg
TSC-763-5	58	109	9	65	31.2	12	44.399(MT5)	244	60°	4,000 rpm	1,200 kg	2,500 kg

回轉式系列  
Live centers series

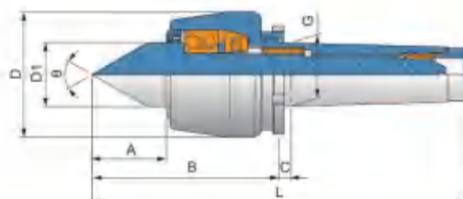
重負荷  
Heavy duty

## > TSC-262 SERIES

### 高性能精密回轉頂針

HEAVY DUTY HIGH PERFORMANCE PRECISE LIVE CENTER

- 適用: CNC重型車床及重型高速車床。  
Application: CNC heavy duty lathe, heavy duty high speed lathe
- 用途: 適用長軸心重力車削加工。  
Working Usage: Applicable for the long workpiece and heavy duty turning process
- 結構: 採用雙列滾珠精密軸承, 止推軸承及滾針軸承設計, 採三個支撐點特殊設計製成。  
Structure: Combination of double row precise ball bearing and thrust bearing and needle bearing, with the design of three supporting points.
- 配件: TSC262-3A/4A/5A: Y型扳手/TSC262-6A: 專用Y型扳手  
Accessories: 1. For TSC262-3A/4A/5A, Y type spanner. / 2. For TSC262-6A, special Y type spanner.
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格 / Specification 單位/UNIT: mm

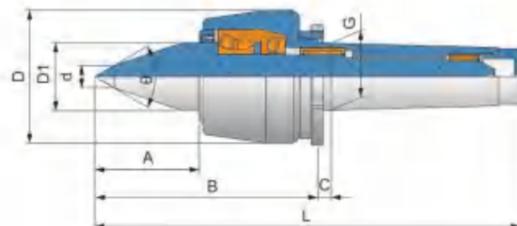
型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
TSC-262-3A	44	116	8	58	34.8	23.825(MT3)	203	60°	6,000 rpm	1,450 kg	1,800 kg
TSC-262-4A	44	116	9	65	34.8	31.267(MT4)	224	60°	6,000 rpm	2,250 kg	2,700 kg
TSC-262-5A	53	131	9	75	44.8	44.399(MT5)	266	60°	6,000 rpm	3,620 kg	3,000 kg
TSC-262-6A	67	163	10	118	59.9	63.348(MT6)	353	60°	3,500 rpm	6,000 kg	4,850 kg
TSC-2562-7A	121	296	10	197	100	MT7	556	60°	1,000 rpm	8,500 kg	6,500 kg

## > TSC-263 SERIES

### 高性能細長型回轉頂針

HEAVY DUTY LONG NOSE LIVE CENTER

- 適用: CNC重型車床及重型高速車床。  
Application: CNC heavy duty lathe, heavy duty high speed lathe
- 用途: 適用於長軸心重力車削加工 (細長型車削加工)。  
Working Usage: Applicable for the long workpiece heavy duty turning process and slender workpiece turning process
- 結構: 採用雙列滾珠精密軸承, 止推軸承及滾針軸承設計, 採三個支撐點特殊設計製成。  
Structure: Combination of double row precise ball bearing and thrust bearing and needle bearing, with the design of three supporting points.
- 選配: Y型扳手  
Accessories: Y type spanner
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	d	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
TSC-263-3A	75	147	8	58	34.8	13	23.825(MT3)	234	60°	6,000 rpm	1,450 kg	1,800 kg
TSC-263-4A	75	147	9	65	34.8	13	31.267(MT4)	255	60°	6,000 rpm	2,250 kg	2,700 kg
TSC-263-5A	75	153	9	75	44.8	15	44.399(MT5)	288	60°	6,000 rpm	3,620 kg	3,000 kg

重負荷  
Heavy duty

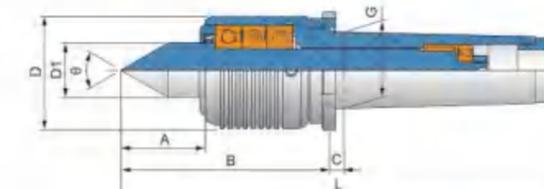
回轉式系列  
Live centers series

## > NCH-62 SERIES

### 精密型高速回轉頂針

HEAVY DUTY PRECISE HIGH SPEED LIVE CENTER

- 適用: CNC車床及高速車床。  
Application: CNC lathe, high speed lathe
- 用途: 適用高速高精軸心車削加工。  
Working Usage: Applicable for high speed and high precision workpiece turning process
- 結構: 斜角滾珠精密級高速軸承, 針狀軸承特殊設計製成。  
Structure: Combination of angular contact ball precise high speed bearing and needle bearing
- 配件: Y型扳手 (Y spanner)  
Accessories: Y type spanner
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格 / Specification 單位/UNIT: mm

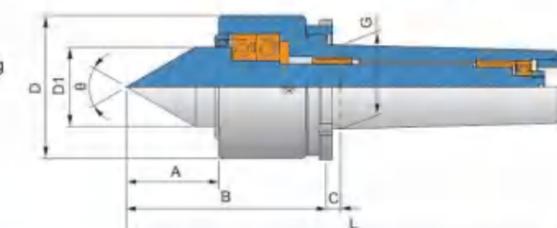
型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
NCH-62-3A	47	116	8	68	31.2	23.825(MT3)	203	60°	12,000 rpm	1,600 kg	1,240 kg
NCH-62-4A	49	121	9	68	31.2	31.267(MT4)	229	60°	12,000 rpm	2,730 kg	1,750 kg
NCH-62-5A	49	121	9	68	31.2	44.399(MT5)	256	60°	12,000 rpm	2,730 kg	1,750 kg

## > SC-60 SERIES

### 高速強力回轉頂針

HEAVY DUTY HIGH SPEED STRONG LIVE CENTER

- 適用: CNC重型車床及重型高速車床。  
Application: CNC heavy duty lathe, heavy duty high speed lathe
- 用途: 適用長軸心重力車削加工。  
Working Usage: Applicable for the long workpiece heavy duty turning process
- 結構: 採用斜角精密高速軸承, 滾針軸承, 三個支撐點特殊排列製成。  
Structure: Combination of angular contact precise high speed ball bearing and needle bearing, with the design of three supporting points
- 選配: SC-60-H-6A: 專用Y型扳手  
Accessories: For SC-60-H-6A: special Y type spanner
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
SC-60-H-4	54	97	9	78	34.8	31.267(MT4)	205	60°	5,000 rpm	1,900 kg	1,600 kg
SC-60-H-5	62	109	9	83	44.8	44.399(MT5)	244	60°	5,000 rpm	3,000 kg	2,200 kg
SC-60-H-6A	70	152	10	108	59.9	63.348(MT6)	342	60°	3,000 rpm	5,000 kg	3,500 kg

回轉式系列  
Live centers series

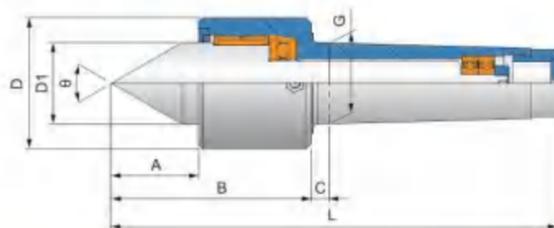
重負荷  
Heavy duty

## > JK-562 SERIES

### 強力回轉頂針

HEAVY DUTY STRONG LIVE CENTER

- 適用: CNC車床、高速車床及外徑磨床。  
Application: CNC lathe, high speed lathe, cylindrical grinding machine
- 用途: 適用一般長軸心強力車削加工。  
Working Usage: Applicable for ordinary length workpiece strong turning process
- 結構: 前後滾針軸承, 加止推軸承, 特殊設計製成。  
Structure: Combination of thrust bearing and needle bearing at front and rear place
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
JK-562-4	42	99	9	57	35	31.267(MT4)	207	60°	4,500 rpm	1,500 kg	2,250 kg
JK-562-5	51	119	9	72	45	44.399(MT5)	254	60°	4,000 rpm	2,300 kg	2,760 kg
JK-562-6	64	142	10	93	60	63.348(MT6)	332	60°	3,000 rpm	4,200 kg	4,850 kg

## > SC-62 SERIES

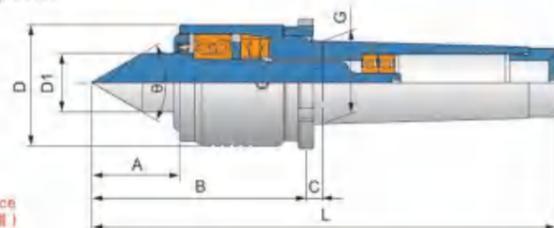
### 重負荷回轉頂針

HEAVY DUTY LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application: CNC lathe, high speed lathe, other lathe machine
- 用途: 適用長度400mm以內, 一般強力車削加工。  
Working Usage: Applicable for the length less than 400mm ordinary strong turning process
- 結構: 採用雙列滾珠精密軸承, 止推軸承, 滾針軸承  
Structure: Combination of double row precise ball bearing and thrust bearing and needle bearing
- 選配: SC-62-H-4A/5A: Y型扳手  
Accessories: For SC-62-H-4A/5A: Y type spanner
- 精準度: 0.002以內  
TIR: Less than 0.002mm



Y型扳手  
Y type spanner



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
SC-62-H-3	48	104	9	62	31.2	23.825(MT3)	212	60°	4,000 rpm	1,430 kg	2,700 kg
SC-62-H-4	48	104	9	62	31.2	31.267(MT4)	212	60°	4,000 rpm	1,430 kg	2,700 kg
SC-62-H-5	48	104	9	62	31.2	44.399(MT5)	239	60°	4,000 rpm	1,430 kg	2,700 kg
SC-62-H-3A	48	116	5	62	31.2	23.825(MT3)	224	60°	4,000 rpm	1,430 kg	2,700 kg
SC-62-H-4A	48	116	5	62	31.2	31.267(MT4)	224	60°	4,000 rpm	1,430 kg	2,700 kg
SC-62-H-5A	48	116	5	62	31.2	44.399(MT5)	251	60°	4,000 rpm	1,430 kg	2,700 kg

S light type for slender workpiece  
另有同規格輕負荷 (S型, 無螺帽)  
可改善細長工件加工變形問題

重負荷  
Heavy duty

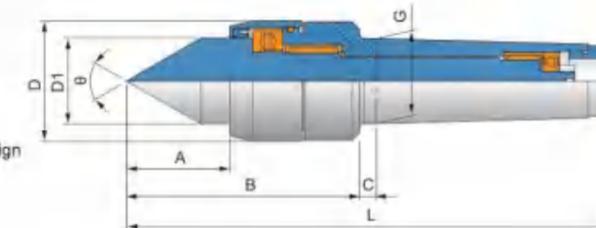
回轉式系列  
Live centers series

## > TSC-662 SERIES

### 強力回轉頂針

HEAVY DUTY STRONG LIVE CENTER

- 適用: CNC車床、高速車床及滾齒機。  
Application: CNC lathe, high speed lathe, gear hobbing machine
- 用途: 適用高推力強力車削加工。  
Working Usage: Applicable for high pushing force strong turning process
- 結構: 止推軸承加大推力設計, 載重前後  
Structure: 採用針狀軸承設計製成。  
Combination of thrust bearing with enhanced axial load design and needle bearing at front and rear place for radial load
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格 / Specification 單位/UNIT: mm

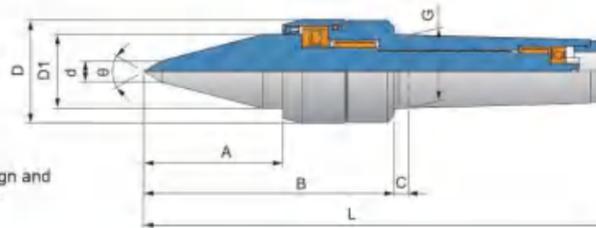
型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
TSC-662-3	42	99	8	58	34.8	23.825(MT3)	186	60°	3,500 rpm	1,960 kg	1,750kg
TSC-662-4	54	122	9	63	44.8	31.267(MT4)	230	60°	3,500 rpm	2,800 kg	2,150kg
TSC-662-5	54	122	9	63	44.8	44.399(MT5)	257	60°	3,500 rpm	3,080 kg	2,150kg

## > TSC-663 SERIES

### 強力細長型回轉頂針

HEAVY DUTY STRONG LONG NOSE LIVE CENTER

- 適用: CNC車床、高速車床及滾齒機。  
Application: CNC lathe, high speed lathe, gear hobbing machine
- 用途: 適用高推力強力車削加工(細長型車削加工)。  
Working Usage: Applicable for high pushing force strong turning process, and slender workpiece turning process
- 結構: 止推軸承加大推力設計, 載重前後採用針狀  
Structure: 軸承設計製成。  
Combination of thrust bearing with enhanced axial load design and needle bearing at front and rear place for radial load
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	d	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
TSC-663-5	75	143	9	63	44.8	12	44.399(MT5)	278	60°	3,500 rpm	3,080 kg	2,150kg

**回轉式系列**  
Live centers series

**輕負荷**  
Light duty

**高精度回轉固定**  
High precision live center

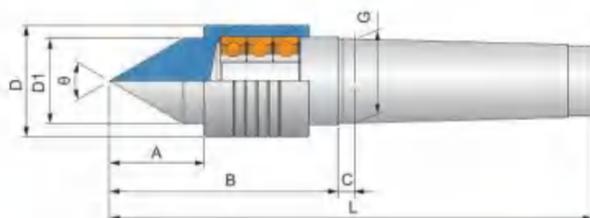
**鎢鋼系列**  
Tungsten carbide series

## > SC-92 SERIES

### 輕型回轉頂針

LIGHT DUTY LIVE CENTER

- 適用: 一般車床使用。  
Application Center lathe
- 用途: 適用一般軸心車削加工。  
Working Usage Applicable for ordinary workpiece turning process
- 結構: 採用合金鋼材, 經熱處理硬度達57°-60°, 內外徑研磨製成。  
Structure Made of alloy steel and hardened to HRC 57-60, ground on ID and OD
- 精準度: 0.002以內  
TIR Less than 0.002mm



規格 / Specification 單位/UNIT: mm

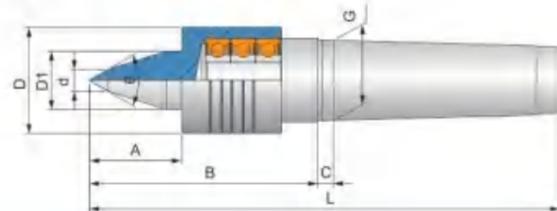
型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承軸向力 (推力) Max. axial thrust force
SC-92-L-2	40	105	6	48	35	17.780(MT2)	174	60°	3,500 rpm	160 kg
SC-92-L-3	40	105	8	48	35	23.825(MT3)	192	60°	3,000 rpm	250 kg
SC-92-L-4	40	105	9	48	35	31.267(MT4)	213	60°	2,600 rpm	400 kg
SC-92-L-5	50	121	9	59	45	44.399(MT5)	256	60°	2,200 rpm	800 kg

## > SC-93 SERIES

### 輕型細長型回轉頂針

LIGHT DUTY LONG NOSE LIVE CENTER

- 適用: 一般車床使用。  
Application Center lathe
- 用途: 適用一般軸心車削加工(細長型車削加工)。  
Working Usage Applicable for ordinary turning process, slender workpiece turning process
- 結構: 採用合金鋼材, 經熱處理硬度達57°-60°, 內外徑研磨製成。  
Structure Made of alloy steel and hardened to HRC 57-60, ground on ID and OD
- 精準度: 0.002以內  
TIR Less than 0.002mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	d	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承軸向力 (推力) Max. axial thrust force
SC-93-L-2	51	117	6	48	32	12	17.780(MT2)	186	60°	3,500 rpm	160 kg
SC-93-L-3	51	117	8	48	32	12	23.825(MT3)	204	60°	3,000 rpm	250 kg
SC-93-L-4	51	117	9	48	32	12	31.267(MT4)	225	60°	2,600 rpm	400 kg
SC-93-L-5	51	122	9	59	32	12	44.399(MT5)	257	60°	2,200 rpm	800 kg

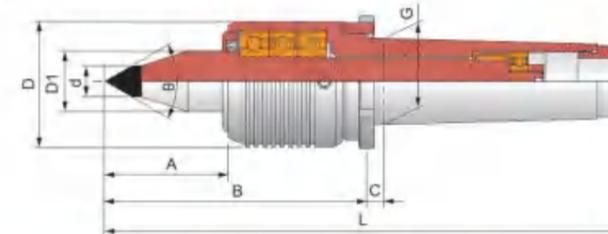
備注: ■ 本頂針指定使用SKF-LGTM2專用潤滑油, 請勿使用其他不同成分之潤滑油。  
Remarks ■ 產品型號中有“A”的表示頂針有附螺帽 ■ 配件中的頂針子, 型號有“A”的為加長型頂針子。  
■ 徑向力數據參考: 加工件重量+車削力量 ■ 軸向力數據參考: 尾座油壓壓力數據 ■ 注油式: 可添加專用SKF潤滑油, 具防水性。  
■ For the lubricating oil, SKF-LGTM2 is designated, others aren't allowed. ■ If "A" is behind the center interchangeable tip name, it denotes the tip is extended length.  
■ If "A" is behind the center model name, it denotes a draw-off nut attached. ■ About axial force data, please refer to the hydraulic pressure data of the tailstock.  
■ About radial force data, please refer to workpiece weight and machining force. ■ For live centers, SKF lubricating oil is designated, it is waterproof.

## > NCH-63鎢鋼 SERIES

### 鎢鋼固定式高精度回轉頂針

TUNGSTEN CARBIDE STEEL POINT HIGH PRECISION LIVE CENTER

- 適用: CNC車床及高速車床。  
Application CNC lathe and high speed lathe
- 用途: 適用高速高精度軸心車削加工(細長型車削加工)。  
Working Usage Applicable for high speed and high precision turning process, and slender workpiece turning process
- 結構: 斜角滾珠精密級高速軸承, 針狀軸承特殊設計製成。  
Structure Combination of angular contact ball precise high speed bearing and needle bearing
- 特點: 採用美國進口鎢鋼原料製成, 不易磨損, 鎢鋼  
Advantage 焊接20mm深、剛性强、穩定性佳。  
Adopted the tungsten material imported from the US, which is wear resisting, the welding depth of tungsten reach 20mm, strong rigidity, good stability.
- 配件: Y型扳手  
Accessories Y type spanner
- 精準度: 0.002以內  
TIR Less than 0.002mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	d	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力 (載重) Max. radial load	軸承軸向力 (推力) Max. axial thrust force
NCH-63-TS06-4A	55	127	9	62	31.2	6	31.267(MT4)	235	60°	12,000 rpm	2,730 kg	1,750 kg
NCH-63-TS08-4A	55	127	9	62	31.2	8	31.267(MT4)	235	60°	12,000 rpm	2,730 kg	1,750 kg
NCH-63-TS10-4A	55	127	9	62	31.2	10	31.267(MT4)	235	60°	12,000 rpm	2,730 kg	1,750 kg
NCH-63-TS16-4A	55	127	9	62	31.2	16	31.267(MT4)	235	60°	12,000 rpm	2,730 kg	1,750 kg
NCH-63-TS06-5A	55	127	9	62	31.2	6	44.399(MT5)	262	60°	12,000 rpm	2,730 kg	1,750 kg
NCH-63-TS08-5A	55	127	9	62	31.2	8	44.399(MT5)	262	60°	12,000 rpm	2,730 kg	1,750 kg
NCH-63-TS10-5A	55	127	9	62	31.2	10	44.399(MT5)	262	60°	12,000 rpm	2,730 kg	1,750 kg
NCH-63-TS16-5A	55	127	9	62	31.2	16	44.399(MT5)	262	60°	12,000 rpm	2,730 kg	1,750 kg

備注: ■ 本頂針指定使用SKF-LGTM2專用潤滑油, 請勿使用其他不同成分之潤滑油。

- 產品型號中有“A”的標示頂針有附螺帽
- 配件中的頂針子, 型號有“A”的為加長型頂針子。
- 軸向力數據參考: 尾座油壓壓力數據
- 徑向力數據參考: 加工件重量+車削力量
- 注油式: 可添加專用SKF潤滑油, 具防水性。
- For the lubricating oil, SKF-LGTM2 is designated, others aren't allowed.
- If "A" is behind the center interchangeable tip name, it denotes the tip is extended length.
- If "A" is behind the center model name, it denotes a draw-off nut attached.
- About axial force data, please refer to the hydraulic pressure data of the tailstock.
- About radial force data, please refer to workpiece weight and machining force.
- For live centers, SKF lubricating oil is designated, it is waterproof.

**固定式系列**  
Dead centers series

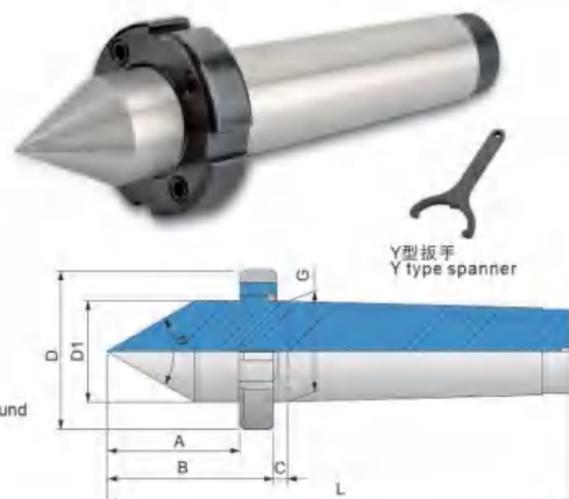
**輕負荷**  
Light duty

## > TSC-9662 SERIES

### 附螺帽固定式頂針

LIGHT DUTY WITH NUT DEAD CENTER

- 適用: CNC車床及其他機床。  
Application: CNC lathe and other lathe
- 用途: 適用尾座回轉型結構設計使用。  
Working Usage: Applicable for rotary structure of tailstock
- 結構: 採用合金鋼材, 經熱處理硬度達57°-60°, 精密研磨製成。  
Structure: Made of alloy steel and hardened to HRC 57-60, precision ground
- 配件: Y型扳手  
Accessories: Y type spanner
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	θ
TSC-9662-3A	51	66	5	53	24.1	23.825(MT3)	150	60°
TSC-9662-4A	68	93	4	68	31.6	31.267(MT4)	196	60°
TSC-9662-5A	89	114	4	88	45	44.399(MT5)	244	60°
TSC-9662-6A	100	140	--	108	65	63.348(MT6)	320	60°

**鎢鋼系列**  
Tungsten carbide series

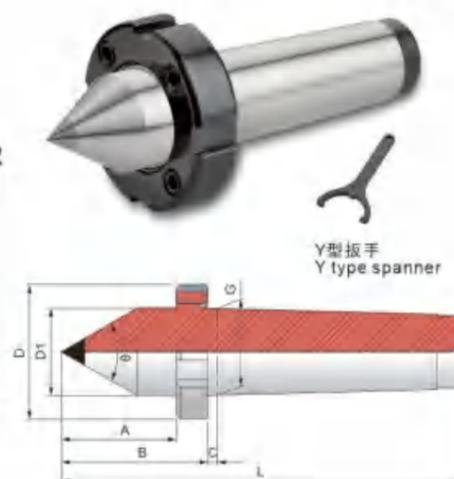
**固定式**  
Dead centers type

## > TSC-9662鎢鋼 SERIES

### 附螺帽鎢鋼固定式頂針

TUNGSTEN CARBIDE STEEL POINT WITH NUT DEAD CENTER

- 適用: CNC車床及其他機床。  
Application: CNC lathe and other lathe
- 用途: 適用尾座回轉型結構設計使用。  
Working Usage: Applicable for rotary structure of tailstock
- 結構: 採用合金鋼材, 經熱處理硬度達57°-60°, 精密研磨製成。  
Structure: Made of alloy steel and hardened to HRC 57-60, precision ground, adopted the tungsten carbide steel from the USA, which is high wear resistance
- 特點: 採用美國進口鎢鋼原料製成, 不易磨損。  
Advantage: Adopted the tungsten material imported from the US, which is wear resisting
- 配件: Y型扳手  
Accessories: Y type spanner
- 精準度: 0.002以內  
TIR: Less than 0.002mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	θ
TSC-9662-TS-3A	36	51	8	53	24.1	23.825(MT3)	138	60°
TSC-9662-TS-4A	42	62	9	68	31.6	31.267(MT4)	170	60°
TSC-9662-TS-5A	59	71	9	88	45	44.399(MT5)	206	60°

## > TSC-9663鎢鋼 SERIES

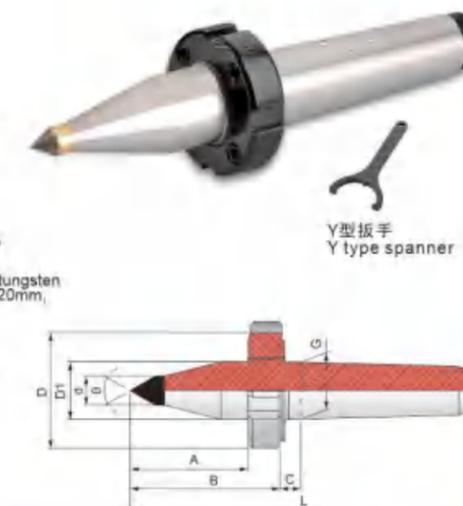
### 附螺帽鎢鋼兩段式固定頂針

TUNGSTEN CARBIDE STEEL POINT TWO PHASE TYPE WITH NUT DEAD CENTER

- 適用: CNC車床及其他機床。  
Application: CNC lathe and other lathe
- 用途: 適用尾座回轉型結構設計使用(細長型車削加工)。  
Working Usage: Applicable for rotary structure of tailstock, and slender workpiece turning process
- 結構: 採用合金鋼材, 經熱處理硬度達57°-60°, 精密研磨製成。  
Structure: Made of alloy steel and hardened to HRC 57-60, precision ground, adopted the tungsten carbide steel from the USA, which is high wear resistance, strong rigidity and better stability.
- 特點: 採用美國進口鎢鋼原料製成, 不易磨損, 鎢鋼焊接  
Advantage: Adopted the tungsten material imported from the US, which is wear resisting, the welding depth of tungsten reach 20mm, strong rigidity, good stability.
- 配件: Y型扳手  
Accessories: Y type spanner
- 精準度: 0.002以內  
TIR: Less than 0.002mm

**固定式**  
Dead centers type

**鎢鋼系列**  
Tungsten carbide series



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	d	G	L	θ
TSC-9663-TS06-3A	60	75	8	53	24.1	6	23.825(MT3)	162	60°
TSC-9663-TS08-3A	60	75	8	53	24.1	8	23.825(MT3)	162	60°
TSC-9663-TS10-3A	60	75	8	53	24.1	10	23.825(MT3)	162	60°
TSC-9663-TS16-3A	60	75	8	53	24.1	16	23.825(MT3)	162	60°
TSC-9663-TS06-4A	65	85	9	68	31.6	6	31.267(MT4)	193	60°
TSC-9663-TS08-4A	65	85	9	68	31.6	8	31.267(MT4)	193	60°
TSC-9663-TS10-4A	65	85	9	68	31.6	10	31.267(MT4)	193	60°
TSC-9663-TS16-4A	65	85	9	68	31.6	16	31.267(MT4)	193	60°

## > TSC-9665 SERIES

### 替換式附螺帽固定式頂針

INTERCHANGEABLE LIGHT DUTY WITH NUT DEAD CENTER

- 適用: CNC車床及其他機床。  
Application: CNC lathe and other lathe
- 用途: 適用尾座回轉型結構設計使用。  
Working Usage: Applicable for rotary structure of tailstock
- 結構: 採用合金鋼材, 經熱處理硬度達57°-60°, 精密研磨製成。  
Structure: Made of alloy steel and hardened to HRC 57-60, precision ground
- 選配: Y型扳手、65型大子、65型沖子  
Accessories: Y type spanner and 65 type tips and 65 type punch
- 精準度: 0.005以內  
TIR: Less than 0.002mm



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L
TSC-9665-3A	30	49	8	68	31.6	23.825(MT3)	136
TSC-9665-4A	30	50	9	68	31.6	31.267(MT4)	158
TSC-9665-5A	50	68	5	68	47.3	44.399(MT5)	203

**傳動系列**  
Face driving center

**端面浮動式**  
Compensating pins type

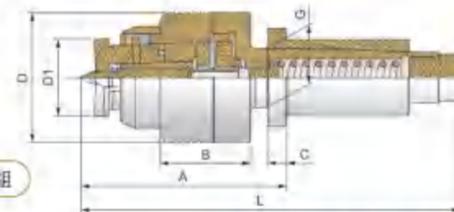
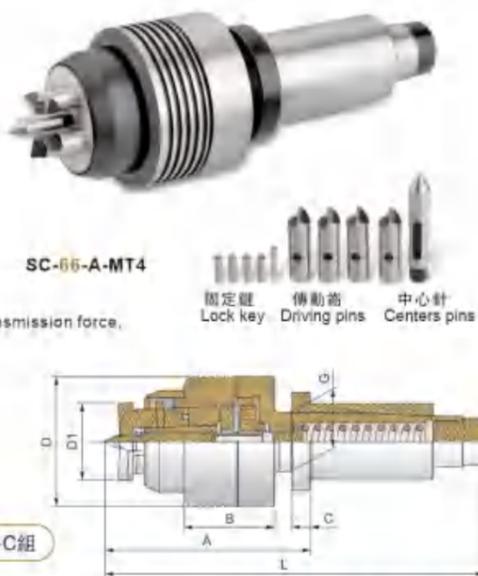
## > SC-66-A SERIES

### 齒部替換端面浮動式傳動頂針

#### CHANGEABLE SELF COMPENSATING FACE DIVER

- 適用:** CNC車床、高速車床、自動送料專用機及其他機床。  
Application: CNC lathe and high speed lathe and auto feeder or other machine tool.
- 用途:** 車削軸心時，免車削工件端面，每支傳動齒自動調整平均傳動力，精度穩定性佳，可正、反轉車削。  
Working Usage: No need turning the workpiece face and each drive pin can adjust the transmission force, better precision and stability for turning and reversing lathing process.
- 結構:** 採用機械式平衡結構特殊設計製成。  
Structure: Adopted the design of mechanical balance structure.
- 配件:** SC-66-A組:中心針09-09;傳動齒10-10  
For SC-66-A group, center pins 09-09 and drive pins 10-10  
SC-66-B組:中心針09-09;傳動齒10-13  
For SC-66-B group, center pins 09-09 and drive pins 10-13  
SC-66-C組:中心針09-06;傳動齒10-17  
For SC-66-C group, center pins 09-06 and drive pins 10-17
- 精準度:** 0.005以內  
TIR: Less than 0.005mm

●標準組附件:A+C組



規格 / Specification 單位/UNIT: mm

型號/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	直徑加工範圍小徑-大徑 Working range(mini pin—big pin)
SC-66-A-3A	109	48	8	68.5	33.5	23.825(MT3)	180	17~40m/m
SC-66-A-3B	109	48	8	68.5	36.8	23.825(MT3)	180	15~45m/m
SC-66-A-3C	109	48	8	68.5	40.5	23.825(MT3)	180	10~50m/m
SC-66-A-4A	109	48	10	68.5	33.5	31.267(MT4)	203	17~40m/m
SC-66-A-4B	109	48	10	68.5	36.8	31.267(MT4)	203	15~45m/m
SC-66-A-4C	109	48	10	68.5	40.5	31.267(MT4)	203	10~50m/m
SC-66-A-5A	112	48	10	68.5	33.5	44.399(MT5)	227	17~40m/m
SC-66-A-5B	112	48	10	68.5	36.8	44.399(MT5)	227	15~45m/m
SC-66-A-5C	112	48	10	68.5	40.5	44.399(MT5)	227	10~50m/m

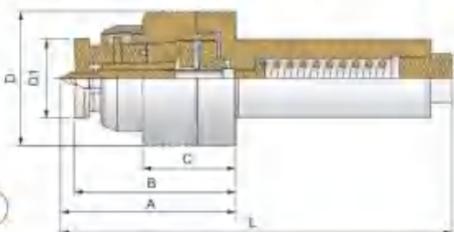
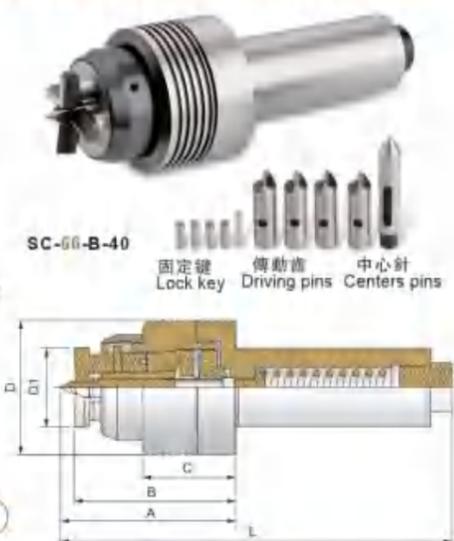
## > SC-66-B-40 SERIES

### 齒部替換端面浮動式傳動頂針

#### CHANGEABLE SELF COMPENSATING FACE DIVER

- 適用:** CNC車床、高速車床、自動送料專用機及其他機床。  
Application: CNC lathe and high speed lathe and auto feeder or other machine tool.
- 用途:** 車削軸心時，免車削工件端面，每支傳動齒自動調整平均傳動力，精度穩定性佳，可正、反轉車削。  
Working Usage: No need turning the workpiece face and each drive pin can adjust the transmission force, better precision and stability for turning and reversing lathing process.
- 結構:** 採用機械式平衡結構特殊設計製成。  
Structure: Adopted the design of mechanical balance structure.
- 選配:** SC-66-A組:中心針09-09;傳動齒10-10  
For SC-66-A group, center pins 09-09 and drive pins 10-10  
SC-66-B組:中心針09-09;傳動齒10-13  
For SC-66-B group, center pins 09-09 and drive pins 10-13  
SC-66-C組:中心針09-06;傳動齒10-17  
For SC-66-C group, center pins 09-06 and drive pins 10-17
- 精準度:** 0.005以內  
TIR: Less than 0.005mm

●標準組附件:A+C組



規格 / Specification 單位/UNIT: mm

型號/外表尺寸 Model/Spec	A	B	C	D	D1	L	直徑加工範圍小徑-大徑 Working range(mini pin—big pin)
SC-66-B-40A	92	82.7	48	68.5	33.5	203	17~40 m/m
SC-66-B-40B	92	82.7	48	68.5	36.8	203	15~45 m/m
SC-66-B-40C	92	82.7	48	68.5	40.5	203	10~50 m/m

**替換式端面固定**  
Interchangeable driving head type

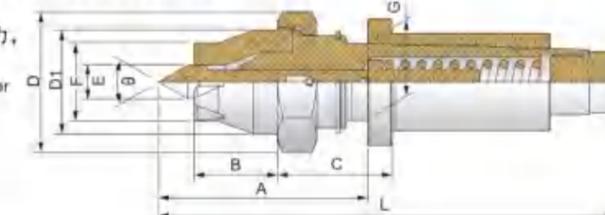
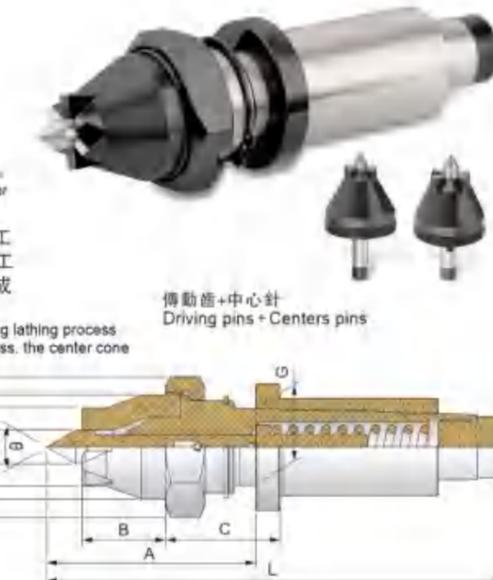
**傳動系列**  
Face driving center

## > SC-67-A SERIES

### 齒部替換式端面固定傳動頂針

#### CHANGEABLE CENTER CONE FACE DIVER

- 適用:** CNC車床、高速車床、自動送料專用機、滾齒機及其他機床。  
Application: CNC lathe and high speed lathe and auto feeder and gear hobbing machine or other machine tool.
- 特點:** 使用本固定傳動插式頂針可正、反轉車削，使用前須先車削工件端面，才可使用於CNC車床及其他機床，可前後同步車削工件一次加工完成。本頂針特點：頭部可更換多種尺寸，降低成本，使用方便。  
Characteristics: Need turning the workpiece face before using this center, and turning and reversing lathing process is OK, suitable for front and rear synchronous and one time finishing turning process, the center cone can be changed to different size, easy operation and cost down.
- 注意:** 本替換式端面固定齒插式傳動頂針，靠尾座足夠壓力，即可傳動車削使用，尾座壓力越高，傳動力越大。  
Note: Face driving by the enough pressure from the tailstock, stronger pressure, stronger driving force.
- 配件:** 標準組附件: Standard accessories  
Accessories: SC-67-0616  
SC-67-0820  
SC-67-1025



規格 / Specification 單位/UNIT: mm 精準度:<0.005

型號/外表尺寸 Model/Spec	A	B	C	D	D1	E	F	G	L
<b>SC-67-A-MT3 系列</b>									
SC-67-A-0408	77.3	34.3	45	57	42.8	4	8	23.825(MT3)	156.3
SC-67-A-0510	77.3	34.3	45	57	42.8	5	10	23.825(MT3)	156.3
SC-67-A-0612	79.3	34.3	45	57	42.8	6	12	23.825(MT3)	158.3
SC-67-A-0616	79.3	34.3	45	57	42.8	6	16	23.825(MT3)	158.3
SC-67-A-0820	79.3	34.3	45	57	42.8	8	20	23.825(MT3)	158.3
SC-67-A-1025	84.6	34.3	45	57	42.8	10	25	23.825(MT3)	161.9
SC-67-A-1225	85.9	34.3	45	57	42.8	12	25	23.825(MT3)	161.9
SC-67-A-1432	85.9	34.3	45	57	42.8	14	32	23.825(MT3)	161.9
<b>SC-67-A-MT4 系列</b>									
SC-67-A-0408	77.3	34.3	47	57	42.8	4	8	31.267(MT4)	179.3
SC-67-A-0510	77.3	34.3	47	57	42.8	5	10	31.267(MT4)	179.3
SC-67-A-0612	79.3	34.3	47	57	42.8	6	12	31.267(MT4)	181.3
SC-67-A-0616	79.3	34.3	47	57	42.8	6	16	31.267(MT4)	181.3
SC-67-A-0820	79.3	34.3	47	57	42.8	8	20	31.267(MT4)	181.3
SC-67-A-1025	84.6	34.3	47	57	42.8	10	25	31.267(MT4)	184.9
SC-67-A-1225	85.9	34.3	47	57	42.8	12	25	31.267(MT4)	187.9
SC-67-A-1432	85.9	34.3	47	57	42.8	14	32	31.267(MT4)	187.9
<b>SC-67-A-MT5 系列</b>									
SC-67-A-0408	77.3	34.3	47	57	42.8	4	8	44.399(MT5)	203.3
SC-67-A-0510	77.3	34.3	47	57	42.8	5	10	44.399(MT5)	203.3
SC-67-A-0612	79.3	34.3	47	57	42.8	6	12	44.399(MT5)	205.3
SC-67-A-0616	79.3	34.3	47	57	42.8	6	16	44.399(MT5)	205.3
SC-67-A-0820	79.3	34.3	47	57	42.8	8	20	44.399(MT5)	205.3
SC-67-A-1025	84.6	34.3	47	57	42.8	10	25	44.399(MT5)	208.3
SC-67-A-1225	85.9	34.3	47	57	42.8	12	25	44.399(MT5)	211.9
SC-67-A-1432	85.9	34.3	47	57	42.8	14	32	44.399(MT5)	211.9

傳動系列  
Face driving center

替換式端面固定  
Interchangeable driving head type

## > SC-67-B-30 SERIES

### 齒部替換式端面固定傳動頂針

#### CHANGEABLE CENTER CONE FACE DIVER

適用：CNC車床、高速車床、自動送料專用機、滾齒機及其他機床。  
Application CNC lathe and high speed lathe and auto feeder and gear hobbing machine or other machine tool.

特點：使用本固定傳動插式頂針可正、反轉車削，使用前須先車削工件端面，才可適用於CNC車床及其他機床，可前後同步車削工件一次加工完成。本頂針特點：頭部可更換多種尺寸，降低成本，使用方便。

Need turning the workpiece face before using this center, and turning and reversing lathing process is OK. suitable for front and rear synchronous and one time finishing turning process. the center cone can be changed to different size, easy operation and cost down.

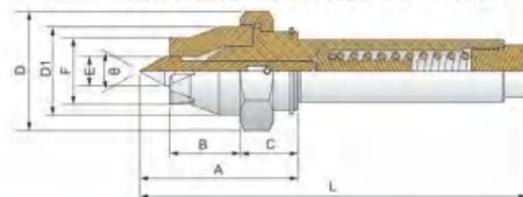


傳動齒+中心針  
Driving pins + Centers pins

注意：本替換式端面固定齒插式傳動頂針，靠尾座足夠壓力，即可傳動車削使用，尾座壓力越高，傳動力越大。

Face driving by the enough pressure from the tailstock, stonger pressure, stronger driving force.

配件：標準組配件：Standard accessories  
Accessories SC-67-0616 SC-67-0820 SC-67-1025



規格 / Specification 單位/UNIT: mm

精準度: <0.005

型式/外表尺寸 Model/Spec	A	B	C	D	D1	E	F	L
SC-67-B-0408	68.3	34.3	28	57	42.8	4	8	179.3
SC-67-B-0510	68.3	34.3	28	57	42.8	5	10	179.3
SC-67-B-0612	70.3	34.3	28	57	42.8	6	12	181.3
SC-67-B-0616	70.3	34.3	28	57	42.8	6	16	181.3
SC-67-B-0820	70.3	34.3	28	57	42.8	8	20	181.3
SC-67-B-1025	73.9	34.3	28	57	42.8	10	25	184.9
SC-67-B-1225	76.9	34.3	28	57	42.8	12	25	187.9
SC-67-B-1432	76.9	34.3	28	57	42.8	14	32	187.9

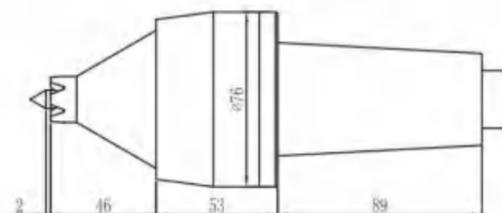
## > TSC-285-4A SERIES

### 回轉型端面傳動頂針

#### FACE DRIVER LIVE CENTER

用于機床尾座

頂緊工件後，配合主軸端傳動頂尖轉動工件，防止在重切削作業時工件打滑。  
It's used on CNC machine's tailstock  
It can avoid the workpiece from slipping when heavy duty machining process.



端面固定  
Dead driving head type

傳動系列  
Face driving center

## > F67 SERIES

### 端面固定傳動頂針

#### FIXED POINT FACE DIVER

適用：CNC車床、高速車床、滾齒機及其他機床。

Application CNC lathe and high speed lathe and auto feeder and gear hobbing machine or other machine tool.

特點：使用本固定傳動插式頂針可正、反轉車削，使用前須先車削工件端面，才可使用，可前後同步車削工件一次加工完成。Need turning the workpiece face before using this center, and turning and reversing lathing process is OK. suitable for front and rear synchronous and one time finishing turning process.

注意：使用本端面固定齒插式傳動頂針，靠尾座足夠壓力，即可傳動車削使用，尾座壓力越高，傳動力越大。  
Face driving by the enough pressure from the tailstock, stonger pressure, stronger driving force.

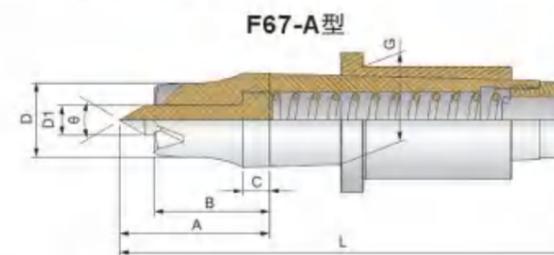
配件：MT4套筒  
Accessories Mt4 sleeve



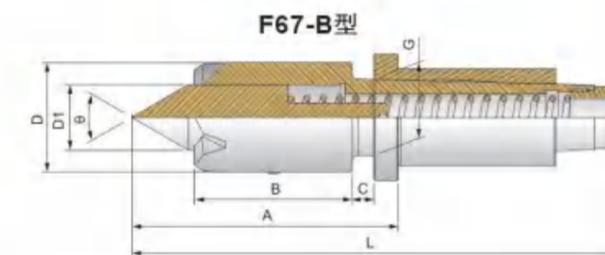
F67-A型



F67-B型



F67-A型



F67-B型

#### F67-A型系列：

規格 / Specification 單位/UNIT: mm

精準度: <0.005

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	θ
F67-0408-4	45	39	9	8	4	31.267(MT4)	147	60°
F67-0510-4	46	39	9	10	5	31.267(MT4)	148	60°
F67-0612-4	47	39	9	12	6	31.267(MT4)	149	60°
F67-0616-4	47	39	9	16	6	31.267(MT4)	149	60°
F67-0820-4	49	39	9	20	8	31.267(MT4)	151	60°
F67-0832-4	49	39	9	32	8	31.267(MT4)	151	60°
F67-1025-4	51	39	9	25	10	31.267(MT4)	153	60°
F67-1228-4	53	39	9	28	12	31.267(MT4)	155	60°
F67-1432-4	54	39	9	32	14	31.267(MT4)	156	60°

#### F67-B型系列：

規格 / Specification 單位/UNIT: mm

精準度: <0.005

型式/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	θ
F67-1836-4	102	65	10	36	18	31.267(MT4)	195	60°
F67-2240-4	107	67	10	40	22	31.267(MT4)	200	60°
F67-2745-4	115	70	10	45	27	31.267(MT4)	207	60°

**傘型系列** Bull nose centers  
**固定式重負荷** Dead head heavy duty centers

## > TSC-80 SERIES

### 傘型重負荷回轉頂針

#### BULL NOSE HEAVY DUTY LIVE CENTER

- 適用: CNC車床、高速車床及其他機床。  
Application: CNC lathe and high speed lathe or other machine tool.
- 用途: 適用大孔徑軸心重力車削加工。  
Working Usage: Applicable for big size inner diameter workpiece stong turning process.
- 結構: 頭部使用合金鋼材, 經熱處理, 內、外研磨制成, 軸承採用重力型設計製成。  
Structure: Adopted alloy steel, hardened and ground on inner and outside, heavy duty bearing.
- 配件: Y型扳手  
Accessories: Y type spanner.



附Y型扳手  
With Y spanner

規格 / Specification 單位/UNIT: mm

型號/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$	軸承最高轉數 Max. RPM	軸承徑向力(載重) Max. radial load	軸承軸向力(推力) Max. axial thrust force
TSC-80-3"-4A	65	112	4	77	15	31.267(MT4)	216	60°	2,500 rpm	2,200 kg	2,500 kg
TSC-80-4"-4A	80	127	4	107	25	31.267(MT4)	231	60°	2,500 rpm	2,200 kg	2,500 kg
TSC-80-5"-4A	90	137	4	127	40	31.267(MT4)	241	60°	2,200 rpm	3,200 kg	3,800 kg
TSC-80-6"-4A	107	152	4	157	45	31.267(MT4)	256	60°	2,200 rpm	3,200 kg	3,800 kg
TSC-80-8"-4A	110	157	4	207	107	31.267(MT4)	261	60°	2,000 rpm	5,300 kg	5,600 kg
TSC-80-3"-5A	65	112	5	77	15	44.399(MT5)	243	60°	2,500 rpm	2,200 kg	2,500 kg
TSC-80-4"-5A	80	127	5	107	25	44.399(MT5)	258	60°	2,500 rpm	2,200 kg	2,500 kg
TSC-80-5"-5A	90	137	5	127	40	44.399(MT5)	268	60°	2,200 rpm	3,200 kg	3,800 kg
TSC-80-6"-5A	107	152	5	157	45	44.399(MT5)	283	60°	2,200 rpm	3,200 kg	3,800 kg
TSC-80-8"-5A	110	157	5	207	107	44.399(MT5)	288	60°	2,000 rpm	5,300 kg	5,600 kg
TSC-80-10"-5A	110	157	5	257	157	44.399(MT5)	288	60°	2,000 rpm	5,300 kg	5,600 kg
TSC-80-12"-5A	110	157	5	306	206	44.399(MT5)	288	60°	2,000 rpm	5,300 kg	5,600 kg
TSC-80-5"-6A	90	141	6	127	40	63.348(MT6)	327	60°	2,200 rpm	3,200 kg	3,800 kg
TSC-80-6"-6A	107	156	6	157	45	63.348(MT6)	342	60°	2,200 rpm	3,200 kg	3,800 kg
TSC-80-8"-6A	110	161	6	207	107	63.348(MT6)	347	60°	2,000 rpm	5,300 kg	5,600 kg
TSC-80-10"-6A	110	161	6	257	157	63.348(MT6)	347	60°	2,000 rpm	5,300 kg	5,600 kg
TSC-80-12"-6A	110	161	6	306	206	63.348(MT6)	347	60°	2,000 rpm	5,300 kg	5,600 kg

精準度: <0.002

## > TSC-96880 SERIES

### 替換式傘型固定頂針

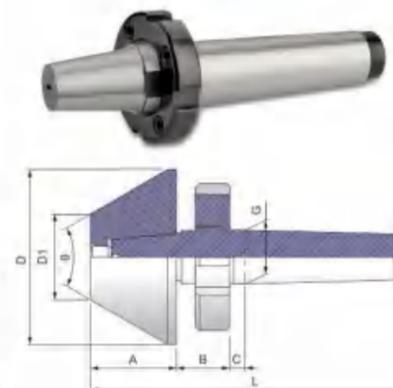
#### CHANGEABLE BULL NOSE DEAD CENTER

- 適用: CNC車床及其他機床。  
Application: CNC lathe and other machine tool.
- 用途: 適用大孔徑車削, 配合尾座回轉型結構設計使用。  
Working Usage: Applicable for big size inner diameter workpiece turning process.



TSC-880-3" TSC-880-4" TSC-880-5" TSC-880-6"

**替換式** Interchangeable  
**傘型系列** Bull nose centers



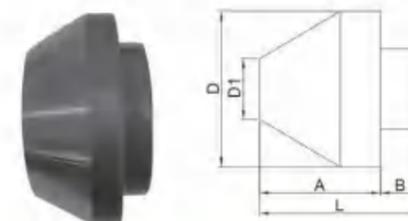
Y型扳手  
Y type spanner

規格 / Specification 單位/UNIT: mm

精準度: <0.005

型號/外表尺寸 Model/Spec	A	B	C	D	D1	G	L	$\theta$
TSC-96880-3"-3A	50	31	8	76.2	24.2	23.825(MT3)	168	60°
TSC-96880-4"-3A	50	31	8	101.6	49.6	23.825(MT3)	168	60°
TSC-96880-5"-3A	50	31	8	127	75	23.825(MT3)	168	60°
TSC-96880-6"-3A	50	31	8	152.4	100.4	23.825(MT3)	168	60°
TSC-96880-3"-4A	50	31	9	76.2	24.2	31.267(MT4)	189	60°
TSC-96880-4"-4A	50	31	9	101.6	49.6	31.267(MT4)	189	60°
TSC-96880-5"-4A	50	31	9	127	75	31.267(MT4)	189	60°
TSC-96880-6"-4A	50	31	9	152.4	100.4	31.267(MT4)	189	60°

## > TSC-96680 SERIES



規格 / Specification 單位/UNIT: mm

精準度: <0.005

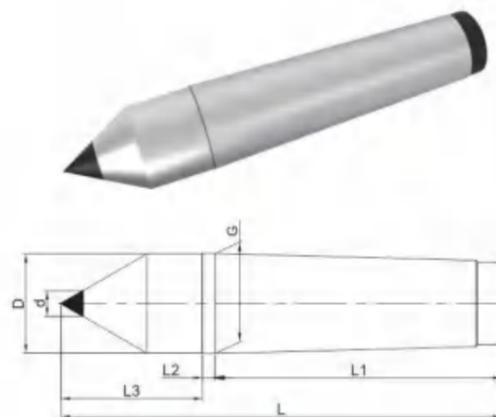
型號/外表尺寸 Model/Spec	A	B	D	D1	L
TSC96680-3"	60	20	77	30	80
TSC96680-4"	60	20	107	60	80
TSC96680-5"	60	20	127	80	80
TSC96680-6"	60	20	157	110	80
TSC96680-8"	60	20	207	160	80
TSC96680-10"	60	20	257	210	80
TSC96680-12"	60	20	306	259	80

## > GY SERIES

### 精密級固定頂針

#### PRECISION DEAD CENTER

- 頂尖主體材料為低淬透性滲碳鋼，經滲碳淬火處理，硬度HRC58-62  
The center body hardness can meet HRC58-62
- 頂尖軸頭部鑲嵌優質鈨鋼，硬度HRA89  
The center head with carbide tip which hardness can meet HRA 89
- 適用於高精度軸心研磨加工  
It's applicable for high precision shaft grinding process



規格 / Specification 單位/UNIT: mm

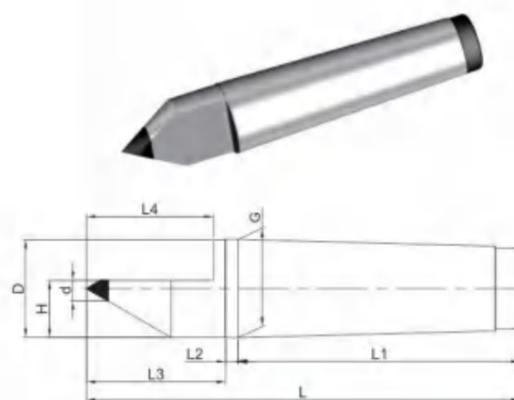
型式/外表尺寸 Model/Spec	d	D	L	L1	L2	L3	G	精度(mm)
GY-3	10	23.6	125	82	6	37	23.825(MT3)	0.003
GY-4	15	31	160	105	6.5	48.5	31.267(MT4)	0.003
GY-5	18	44.5	205	132	6.5	66.5	44.399(MT5)	0.003
GY-6	30	63.8	275	182	8	82	63.348(MT6)	0.005

## > GR SERIES

### 精密級固定頂針(半邊式)

#### PRECISION DEAD CENTER(HALF TYPE)

- 頂尖主體材料為低淬透性滲碳鋼，經滲碳淬火處理，硬度HRC58-62  
The center body hardness can meet HRC58-62
- 頂尖軸頭部鑲嵌優質鈨鋼，硬度HRA89  
The center head with carbide tip which hardness can meet HRA 89
- 適用於高精度軸心研磨加工  
It's applicable for high precision shaft grinding process



規格 / Specification 單位/UNIT: mm

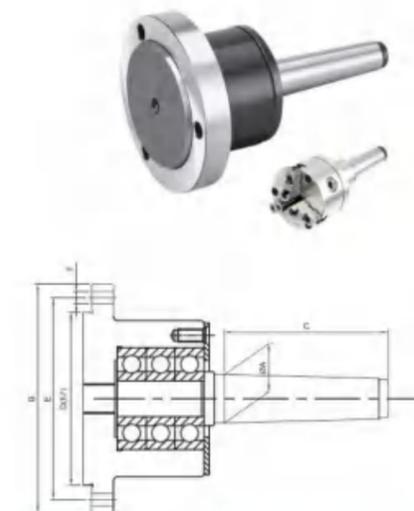
型式/外表尺寸 Model/Spec	d	D	H	L	L1	L2	L3	L4	G	精度(mm)
GR-3	10	23.6	15	125	82	6	37	36	23.825(MT3)	0.003
GR-4	15	31	20.5	160	105	6.5	48.5	48	31.267(MT4)	0.003
GR-5	18	44.5	29.2	205	132	6.5	66.5	63	44.399(MT5)	0.003

## > LCC SERIES

### 回轉式莫氏柄卡盤座

#### LIVE CENTER ADAPTER

- 該產品主要用於校正或加工中支撐工件，配合標準卡盤使用。  
This product is mainly used to calibrate or support workpiece during processing. It is used with standard chucks.
- 內部採用三枚精密深溝球軸承並列，適用於較高速度場合。  
The internal adopts three precise deep groove ball bearings. It is applicable to the high rotating speed processing.
  - 前端採用標準三爪自定心卡盤連接尺寸，亦可根據客戶需求定制。  
The adapter is suitable for mounting NTH SC and SK series manual chuck and it can be customized.
  - 主體和錐柄均採用優質碳鋼，整體淬火，具備良好的使用性能。  
The main body and the taper shank adopt quality carbon steel, with whole quenched, thus has good performance.



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	E	F	徑向載荷(KG) Max load	最高轉速 Max.rpm	精度 (mm) Accuracy
LCC-MT3	23.825	112	81	80	95	3-M8	800	2000rpm	0.005
LCC-MT4	31.267	132	102.5	100	115	3-M8	1000	1500rpm	0.01
LCC-MT5	44.399	167	129.5	130	147	3-M10	1500	800rpm	0.01
LCC-MT6	63.348	193	182	155	172	3-M10	1800	600rpm	0.01

## > DCC SERIES

### 固定式莫氏柄卡盤座

#### DEAD CENTER ADAPTER

- 該產品主要用於校正或加工中支撐工件，配合標準卡盤使用。  
This product is mainly used to calibrate or support workpiece during processing. It is used with standard chucks.
- 前端採用標準三爪自定心卡盤連接尺寸，亦可根據客戶需求定制。  
The adapter is suitable for mounting NTH SC and SK series manual chuck and it can be customized.
  - 主體和錐柄均採用優質碳鋼，整體淬火，具備良好的使用性能。  
The main body and the taper shank adopt quality carbon steel, with whole quenched, thus has good performance.



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	E	F	徑向載荷(KG) Max load	最高轉速 Max.rpm	精度 (mm) Accuracy
DCC-MT3	23.825	112	81	80	95	3-M8	800	2000rpm	0.005
DCC-MT4	31.267	132	102.5	100	115	3-M8	1000	1500rpm	0.01
DCC-MT5	44.399	167	129.5	130	147	3-M10	1500	800rpm	0.01
DCC-MT6	63.348	193	182	155	172	3-M10	1800	600rpm	0.01

可伸縮系列  
Retractable series

替換式  
Interchangeable

## > TSC-36465 SERIES

### 伸縮式彈簧頂尖

#### RETRACTABLE SPRING LIVE CENTER

● 適用: CNC車床, 磨床及其他機床  
Application: CNC lathe or grinder and other lathe

● 用途: 可因應工件長度在加工時因熱脹冷縮而變化的情形, 防止工件變形

Working Usage: The center which retractable feature can response the situation of workpiece length thermal expansion during turning process. So it can avoid deformation.

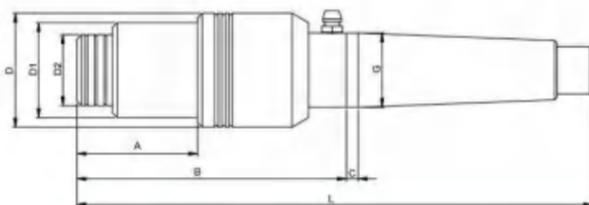
● 精準度: <0.01mm  
TIR <0.01mm

● 顏色刻度: 當顏色刻度線與頂針前端固定平面齊平時, 紅線頂力: 80Kgf 黃線頂力: 50Kgf 綠線頂力: 0Kgf

Color scale: When the color line reach the fixed end plan of the center, Red line: 80Kgf Yellow line: 50Kgf Green line: 0Kgf



65型大子  
65 type tips



規格 / Specification 單位/UNIT: mm

型式/外表尺寸 Model/Spec	A	B	C	D	D1	D2	G	L
TSC36465-4	51	110	9	48	40	30	31.267(MT4)	218
TSC36465-5	51	131	9	63	40	30	44.399(MT5)	266

配件區  
Centers accessories

▶ 48小子系列 48 type tips series



48-06 48-08 48-10 48-12.7 48-32

▶ 61中子系列 61 type tips series



61-06 61-08 61-10 61-15 61-35

▶ 內孔型頂針子 Inner bore type tips



61-10/14 61-25/30 65-12/16 65-25/30

內孔型頂針子皆提供多種尺寸, 可依需求選購

For inner bore type tips, many size can be provided according to your requirements.

▶ 一字型頂針子 Cross type tips



61-1-08 65-1-10

一字型頂針子皆提供多種尺寸, 可依需求選購

For cross type tips, many size can be provided according to your requirements.

頂針子  
Centers tips

配件區  
Centers accessories

▶ 65大子系列 65 type tips



65-06 65-08 65-10 65-15 65-35

▶ 加長型頂針子 Extended length tips



61-10A 65-10A

加長型頂針子皆提供多種尺寸, 可依需求選購

For extended length type tips, many size can be provided according to your requirements.

66系列-傳動齒  
66 Series-Driving pins

單位: mm



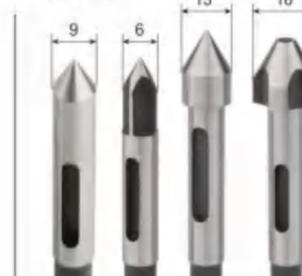
10-10 10-13 10-17

傳動齒每個型號4個/組

Driven pins 4pcs/unit

66系列-中心針  
66 Series-Centers pins

單位: mm



09-09 09-06 09-13 09-16

頂針專用油  
Designated lubricating oil



SKF-LGTM2  
注油式頂針可添加專用SKF潤滑油, 具防水性, 可延長頂針使用壽命。

For our live centers, it can fill into SKF lubricating oil, it is waterproof, so the service life can be extended.

套筒  
Sleeve



▶ MT3套筒(Sleeve)  
MT4套筒(Sleeve)  
MT5套筒(Sleeve)

注油式後蓋  
Back cover with oil nipple



固定鍵  
lock key



C型扳手  
C spanner



Y型扳手  
Y Spanner



沖子  
Pin punch



SC-TY-61



SC-TY-65



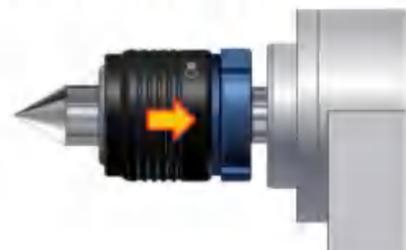
SC-TY-MT4/MT5

活動頂針(附鎖緊螺帽)使用方法 Manual For Live Center With Draw Off Nut

1. 插入尾座軸孔前先擦拭頂針錐柄，並將鎖緊螺帽旋緊頂心柄。  
Before inserting, please wipe the center's shaft and turn the draw-off nut tight with center's handle.



2. 請將頂針錐柄插入尾座軸孔。  
Please insert center's shaft into tailstock.



3. 再將鎖緊螺帽以手旋轉貼合尾座軸套端面。  
please turn the draw-off nut close up the face of tailstock.



4. 退出活動頂針時，以所附扳手旋轉螺帽。  
When take out the center, please turn the draw-off by attached spanner.

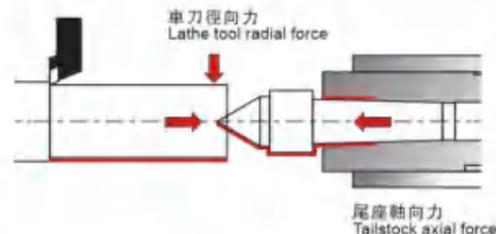


頂針附螺帽重要性 The importance of the centers with draw-off nut. Remarks: Red line is force area of radial force.

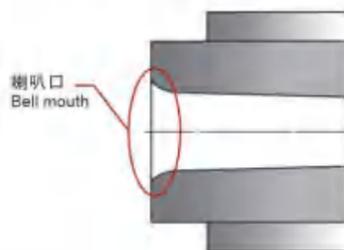
一般頂針受力圖

Common center without draw-off nut force graphic

1. 長時間使用後，尾座軸套內孔易成喇叭口。  
After long time using, the inner bore of tailstock sleeve is easy to be bell mouth.



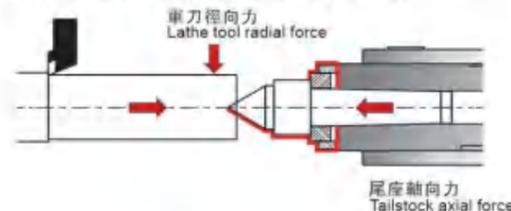
2. 熱影響內孔會隨着溫度上升擴大，冷機時頂針拔不出來。  
The inner bore will be impacted with temperature, the center is very hard to pulled out under normal temperature conditions.



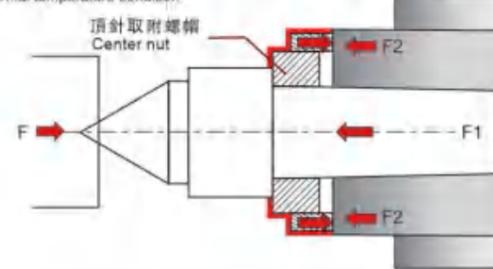
使用附螺帽頂針受力圖

The centers with draw-off nut force graphic

1. 頂針之螺帽加大接觸受力面積，減低尾座軸套受力，使軸套內孔不會變成喇叭口。  
The draw-off nut can increase the force area, reduce the force of sleeve of the tailstock, and avoid the sleeve of tailstock to be bell mouth.



2. 有效防止溫度上升後擴大使頂針插的更深，冷機時頂針容易取出。  
It can effectively avoid the center is deeply inserted into the tailstock caused by the hot temperature making the taper extended. it's easy to pull the center out under normal temperature condition.



頂針使用技術要點說明 Technical Instructions for Centers

Question&Answer



Q1 頂針主體剖半的作用 THE EFFECT OF CUTTING PLANE OF CENTER'S HANDLE BODY

ANS: 小徑車削加工時，刀座不易碰撞頂針(閃刀座作用)。  
When machining small diameter workpiece, the centers can avoid interfere the tools turret.

Q2 油嘴的優點(可舊油換新油, 延長頂針壽命) THE OIL NIPPLE'S ADVANTAGES—WHICH IS OUR PATENT.

ANS: 因頂針本身無動力，需靠頂針孔傳動，油封需緊配，無法緊配，導致無法百分之百防水，切削時切削液會滲入內部，導致堆林壽命減短，此時可以利用油嘴換油把切削液排出，則此頂針可延長4倍以上壽命。  
換油方式：頂針連續使用8小時或加工完後不使用時，讓頂針頂住工件慢速旋轉的100~200轉每分鐘，然後將頂住專用潤滑油注入油嘴，讓舊油與切削液從出油孔排出直到乾淨的油流出為止，然後將頂針外部切削液擦乾淨。  
• 本頂針指定使用SKF LGMF2專用油。  
The oil nipple can be used to fill into the grease and change the old grease in the center, it can prolong the centers working life. The oil changing method: after finished processing, please use the live center to prop up workpieces and turn slowly by around 100 -200 RPM, and fill the grease of SKF LGMF2 into the nipple, let the old oil and cutting fluid discharge from the oil outlet until the new oil flow out, and then stop filling into the new oil, wipe up the live center's surface, please maintain your live center like this which can prolong the live center's working life more 3 times.  
Notes: SKF LGMF2 grease is appointed to lubricate our live centers. This maintenance also can avoid bearing rusting, it can discharge the water or cutting fluid by changing old oil.

Q3 頂針附螺帽的優點 THE DRAW-OFF NUT ADVANTAGES

ANS: 附螺帽頂針與尾座套筒錐度結合後，將螺帽轉至套筒平面貼合，將會加強頂針與尾座套筒的剛性，使套筒錐度內孔不會造成喇叭口，能有效防止頂針錐度往內擠壓，可達到容易拆裝。  
When the draw-off nut is close to the tailstock sleeve, it will enhance the rigidity of the centers and tailstock sleeve, it can avoid that the tailstock sleeve become bell mouth. It also effectively avoid the center is shoved deeply, so it can be easy to take the center out.

Q4 新品頂針與尾座套筒無法緊密貼合問題 THE CENTER CAN'T CLOSELY MATCH THE TAILSTOCK SLEEVE

ANS: 此現象是新機臺才會有問題，請將頂針錐柄及尾座套筒內孔錐度上所積留油垢務必擦試乾淨再止，再重新安裝頂針，才不會導致無法貼合。  
For this issue, it usually occurred on the new CNC machines, please clean and wipe up the center's taper-shank and the tailstock sleeve, and then remount it.

Q5 頂針尖部容易磨損原因 THE REASON OF CENTER'S HEAD ABRASION

ANS: 頂針本身無動力，尾座壓力不穩，會導致工件與頂針無法同步轉動，造成頂針尖部容易磨損。  
The workpiece slipping caused by not enough pressure of the tailstock can cause the center's head abrasion or the workpiece center's moving, it will impact the turning work stability, the tailstock's pressure should be adjusted according to different processing requirements, if this situation, please adjust proper tailstock pressure and make the center's rotating speed and lathe machine spindle rotating speed synchronization, it will avoid this center's head abrasion issue.  
How to know the pressure of the tailstock enough or not?  
Please mark one line both the workpiece and center's head, after processed, if the mark line moved, it indicates the pressure of the tailstock is not enough, the pressure need increasing until the mark line never moved.

Q6 為什麼頂針會發燙, 甚至會冒烟 WHY DO NEW LIVE CENTERS GET HOT AND HAVE SMOKING PHENOMENON

ANS: 本公司所製造的每支活動頂針，軸承設計採用高預壓值緊密配製，加上使用時熱脹冷縮之原理，故在高速旋轉所產生的溫度達50度上下，加工時切削液噴在頂針上會有冒烟現象(屬於正常現象)，軸承經磨合期穩定後溫度就會下降，且不會有鬆動不穩定的情形產生，因此使用壽命更長。  
一般頂針不發燙的原因是因為軸承採用預壓值鬆配配製，其缺點是經使用一段時間，磨合期過後軸承就會產生鬆動導致車削尺寸不穩定會有鈍刀的情形，因此軸承易損壞壽命會減短。  
During the usage for new live centers, the center's temperature will reach 50-60 Celsius, it's normal situation, after the run-in period, the temperature will drop slowly, the live center will keep working stably. Because the live center's body temperature is high, it will come out water evaporation when the cutting fluid is sprayed on the centers, it's normal.

Q7 新品頂針剛使用時會有漏油現象 WHY DO NEW CENTER HAVE THE OIL LEAK PROBLEM

ANS: 頂針製造完成包裝前，會將頂針注滿潤滑油，所以新品使用時，軸承高速旋轉，會將多餘的油從油孔排出，才會有漏油，這是正常現象。  
The new center is fully filled the grease, during the usage, the excess oil will discharge from the oil outlet.

如頂針有故障後，請勿自行拆解，本公司製造頂針已有30餘年技術與經驗，可研發各類客製型特殊頂針，國內外任何廠牌均可維修。

If there is any issue on the centers, please don't disassemble it by yourself and contact with Omatei company for help.

### D 膜片-筒夾-漲套精密夾頭系列

IAPHRAGM CHUCK & COLLET CHUCK & EXPANSION CHUCK SERIES



#### JA回轉缸內藏氣壓膜片夾頭

##### 迴轉缸內藏氣壓膜片夾頭

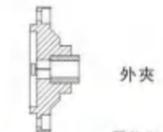
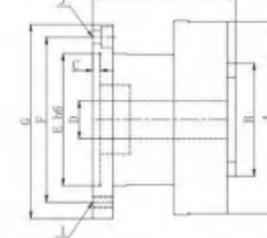
#### JA PNEUMATIC DIAPHRAGM CHUCK

- 精密膜片夾頭內藏高性能氣壓迴轉缸
- 夾頭具中心通孔，可配合自動送料或中心出水工作
- 夾頭高度密封設計，防塵防水防切削液
- 無滑動件磨損，超長精度壽命
- 高轉速工作條件需安裝於機台後校正動平衡
- 前置式安裝，無須安裝迴轉缸及夾頭拉管
- 夾持力可由工作氣壓精密微調，適合夾持薄形工件或脆弱工件，單邊厚度1.0mm薄件可以夾持
- 依據工件設計爪型，可進行外徑夾持或內徑反張

Repeatability is within 0.005mm.  
 Air cylinder is integrated: no rotary cylinder or draw tube is required.  
 Real front-mounting design allows easy installation.  
 Highly-sealed chuck body helps protect cutting chips, dust or coolant fluid from entering.  
 Gentle and precise clamping: suitable for fragile parts clamping.  
 O.D. chucking / I.D. expanding chuck possible by changing different jaw pads.



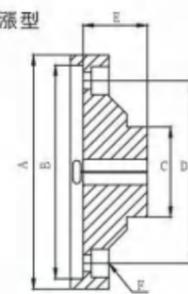
JA產品尺寸性能規格



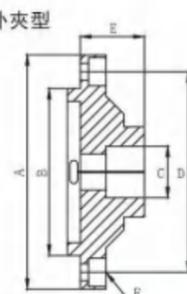
單位/Unit:mm

型號/Model 規格/Spec	夾持行程 Stroke mm	最高轉速 Max. RPM	使用壓力 Max. Pressure Kg/cm <sup>2</sup>	淨重 Nw. Kgs	使用夾爪型號 Use gripper model	A	B	C	D	E(H6)	F	G	H	I	J
JA4-60	0.1	4000	2-7	2.8	JD-60	100	60	4	10	70	82	97	76	-	4-M6沉頭孔
JA5-70	0.3	3200	2-7	7	JD-70	147	70	4	15	100	115	137	93	3-M8	3-M8沉頭孔
JA6-100	0.3	2500	2-7	11.5	JD-100	177	100	5	35	130	147	167	107	3-M10	3-M10沉頭孔
JA8-150	0.3	2000	2-7	15	JD-150	220	150	5	65	180	200	220	124	3-M10	3-M10沉頭孔

內漲型



外夾型



內漲

外夾

JD膜片夾爪尺寸表/JD diaphragm jaws spec

型號/Model 夾持方式 Clamping method	JD-60		JD-70		JD-100		JD-150	
	外夾型	內漲型	外夾型	內漲型	外夾型	內漲型	外夾型	內漲型
A	65	70	75	80	105	110	155	160
B	45	60	50	70	80	100	120	150
C(夾持範圍)	2-60	6-80	3-100	6-140	3-150	6-170	5-200	10-220
D	52	52	60	60	90	90	135	135
E	20	20	22	22	29	29	35	35
F	6-M4沉頭孔	6-M4沉頭孔	6-M5沉頭孔	6-M5沉頭孔	8-M5沉頭孔	8-M5沉頭孔	8-M6沉頭孔	8-M6沉頭孔

\* 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 \* 非標需求可訂做 Non-standard requirements can be made

## JDS 超精密膜片固定型夾頭

### JDS ULTRA-PRECISION DIAPHRAGM FIXED CHUCK

#### 產品特性

- 為固定式不可回轉，內置氣缸直接驅動。採用膜片彈性技術，重複精度 $3\mu$ 以下。
- 永久性精密壽命高密封性設計，防水防塵能力。
- 輕鬆控制兩端同心度、平行度。多段尺寸可分次加工、降低設備成本。
- 以單動研磨機、取代CNC多段同時加工。通過三點組合夾持力能精密微調。

#### 產品適用性

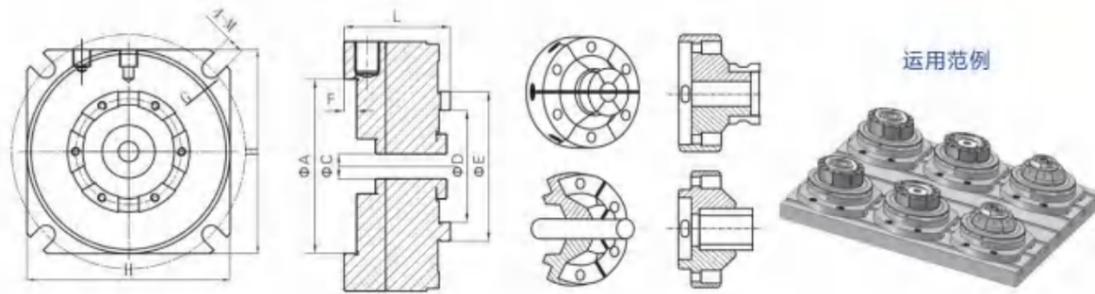
- 適用CNC 銑鑽床非標夾具等運用，可做聯排多工位夾具使用。
- 適用於微電子產品、光學零件、醫療零件、輕薄高精度度工件的機加工。
- 精密元件的檢測。

#### PRODUCT FEATURES

Fixed, non-rotating, directly driven by the built-in cylinder Employing diaphragm elasticity technology, with a repeatability of below  $3\mu$   
Permanent service life in precision; designed with high sealing performance and waterproof and dustproof capabilities  
Allowing easy control over the concentricity and parallelism at both ends Allowing separate size processing over multiple sections to reduce equipment costs  
Replacing CNC multi-section simultaneous processing with single-action grinding machine  
Allowing fine-tuning with three-point clamping force

#### APPLICATIONS

Suitable for non-standard fixtures for CNC milling and drilling machines; may be used as row-type multi-station fixtures  
Suitable for machining of microelectronics products, optical parts, medical parts, thin and high-precision workpieces  
Detection of precision components



#### 產品參數 PARAMETERS

產品型號 Model	A	B	D	E	F	G	H	L	M	驅動方式 Drive Mode	使用壓力 Working Pressure Kg/cm <sup>2</sup>	夾持行程 Opening/Closing Stroke mm	使用夾爪型號 Gripping Jaw Model
JDS4-60	70	10	45	60	5	120	100	42.7	7	空壓	2-7	0.1	JD-60
JDS5-70	100	15	50	70	5	170	150	49.2	9	空壓	2-7	0.3	JD-70
JDS6-100	150	35	80	100	5	195	177	54.3	11	空壓	2-7	0.3	JD-100
JDS8-150	180	65	120	150	5	245	220	59.8	13	空壓	2-7	0.3	JD-150

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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## JPD 被動型超精密膜片夾頭(後驅動型)

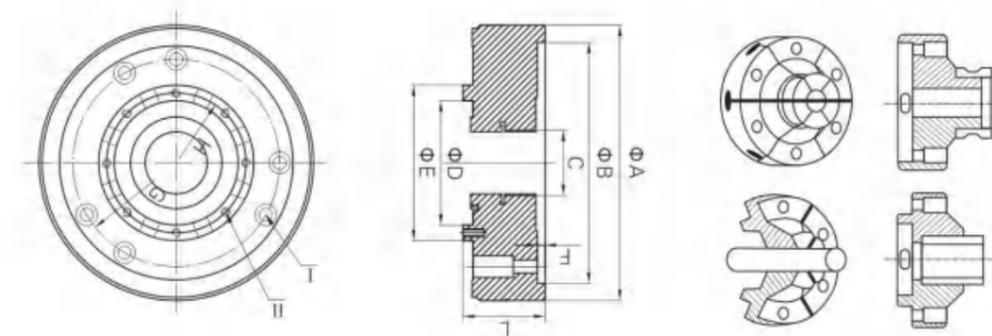
### JPD PASSIVE ULTRA-PRECISION DIAPHRAGM CHUCK (REAR DRIVE TYPE)

#### 產品特性

- 採用膜片彈性技術，重複精度 $3\mu$ 以下，永久性精密壽命。高密封性設計，防水防塵能力。
- 輕鬆控制兩端同心度、平行度，多段尺寸可分次加工、降低設備成本。
- 以單動研磨機、取代CNC多段同時加工，需配後置氣油缸拉桿驅動。

#### 產品適用性

- 微型軸承、馬達、精密套的精密加工，精密元件的檢測。
- 適用於微電子產品、光學零件、醫療零件、輕薄高精度度工件的車、磨加工。
- Employing diaphragm elasticity technology, with a repeatability of below  $3\mu$ . Permanent service life in precision. Designed with high sealing performance and waterproof and dustproof capabilities.
- Allowing easy control over the concentricity and parallelism at both ends. Allowing separate size processing over multiple sections to reduce equipment costs.
- Replacing CNC multi-section simultaneous processing with single-action grinding machine. Requiring the provision of rear pneumatic/hydraulic cylinder rod drive.
- Precision machining of micro bearings, motors and precision sleeves
- Suitable for turning and grinding of microelectronics products, optical parts, medical parts, thin and high-precision workpieces Detection of precision components



#### 產品參數 PARAMETERS

產品型號 Model	A	B	C	D	E	F	G	L	I	II	H	使用壓力 Working Pressure Kg/cm <sup>2</sup>	夾持行程 Opening/Closing Stroke mm	使用夾爪型號 Gripping Jaw Model
JPD4-60	116	72	M12*1.5	45	60	6	100	41	6-M5沉頭	6-M4牙孔	52	2-7	0.1	JD-60
JPD5-70	147	125	M28*1.5	50	70	5	106.4	57.2	6-M6沉頭	6-M5牙孔	60	2-7	0.3	JD-70
JPD6-100	177	155	M55*2	80	100	5	133.4	53	6-M8沉頭	8-M5牙孔	90	2-7	0.3	JD-100
JPD8-150	220	190	M82*1.5	120	150	5	170	56.8	8-M8沉頭	8-M6牙孔	135	2-7	0.3	JD-150

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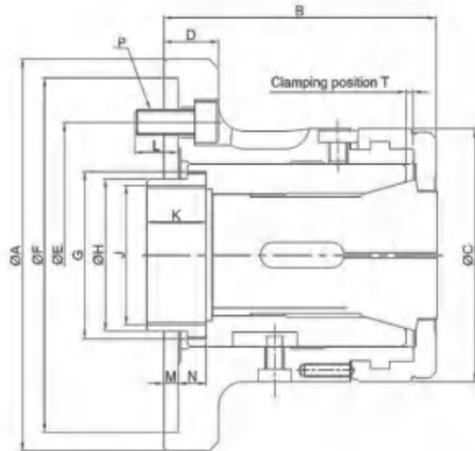
## > LL SERIES

### 筒夾夾頭一

COLLET CHUCK 1



- 1. 筒夾夾頭可快速拆卸止檔蓋，適用於NC/CNC車床加工棒材。
  - 2. 棒材能經由夾頭通孔進行送料作業。
  - 3. 可依工作形狀及尺寸來選擇適合筒夾。
1. It is mainly suitable for NC/CNC lathe for machining bar. and the cover is disassemble and the collet can be changed quickly.
2. The bar can be fed in by bar feeder and through the collet chuck hole which can improve the processing efficiency.
3. Customers can choose a suitable spring collet according to the bar shape(round, square, hexagonal) and size.



寸法 Size 型號 Model	適合連接板 Suitable for connecting plates	容許棒材直徑 Allowable bar diameter (mm)	套筒行程 Sleeve stroke (mm)	最大容許推力 Maximum allowable thrust KN(Kgf)	最大夾持力 Max clamping force KN(kgf)	最高轉速 Max r.p.m	重量(Kg) Weight	使用筒夾 Using collets
LL-26	110	26	4.5	17.8(1800)	37.9(3870)	8000	4.3	161E
LL-30	110	30	4.5	19.6(2000)	42.1(4300)	8000	4.2	163E
LL-42	140	42	7	25(2549)	55(5608)	6000	6.2	173E
LL-52	170	52	7	30(3059)	65(6628)	5000	12.5	177E
LL-60	170	60	7	30(3059)	65(6628)	5000	11.5	185E
LL-60	220	60	7	30(3059)	65(6628)	5000	15.5	185E
LL-80	220	80	7	35(3568)	73(7443)	4000	19.5	193E

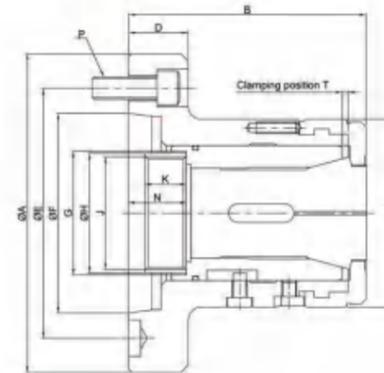
寸法 Size 型號 Model	A	B	C	D	E	F (H6)	G	H	J max.	K	L	M	N	P	T
LL-26	120	100	85	23	82.6	110	M50×P1.5	45	M40×1.5	15	16	4	10.2	3-M10	2.3
LL-30	120	100	85	23	82.6	110	M50×P1.5	45	M40×1.5	15	16	4	10.2	3-M10	2.3
LL-42	155	114	100	23	104.78	140	M66×P1.5	60	M55×P2.0	25	18	6	11.9	3-M10	3.1
LL-52	185	138	130	30	133.35	170	M90×P1.5	66.7	M60×P2.0	30	18	6	17.9	6-M12	3.1
LL-60	185	139	130	30	133.35	170	M90×P1.5	80	M74×P2.0	30	18	6	17.9	6-M12	3.1
LL-60	235	141	130	32	171.45	220	M90×P1.5	80	M74×P2.0	30	20	6	19.9	6-M16	3.1
LL-80	235	167	156	32	171.45	220	M114×P2.0	99	M90×P2.0	27.5	20	6	23.4	6-M16	6.1

\* 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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## > LL-A SERIES

### 筒夾夾頭二

COLLET CHUCK 2



- 1. 筒夾夾頭可快速拆卸止檔蓋，適用於NC/CNC車床加工棒材。
  - 2. 棒材能經由夾頭通孔進行送料作業。
  - 3. 可依工作形狀及尺寸來選擇適合筒夾。
1. It is mainly suitable for NC/CNC lathe for machining bar. and the cover is disassemble and the collet can be changed quickly.
2. The bar can be fed in by bar feeder and through the collet chuck hole which can improve the processing efficiency.
3. Customers can choose a suitable spring collet according to the bar shape (round, square, hexagonal) and size.

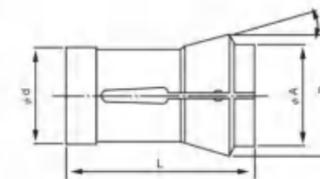
寸法 Size 型號 Model	適合主軸 Suitable for spindle	容許棒材直徑 Allowable bar diameter (mm)	套筒行程 Sleeve stroke (mm)	最大容許推力 Maximum allowable thrust KN(Kgf)	最大夾持力 Max clamping force KN(kgf)	最高轉速 Max r.p.m	重量(Kg) Weight	使用筒夾 Using collets
LL30A4	A2-4	30	5	20(2039)	44(4486)	7000	4.1	163E
LL36A5	A2-5	36	6	22.5(2300)	48.5(4950)	6000	6.3	171E
LL42A5	A2-5	42	7	25(2549)	55(5608)	6000	6.2	173E
LL42A6	A2-6	42	7	25(2549)	55(5608)	6000	8.2	173E
LL52A6	A2-6	52	7	30(3059)	65(6628)	5000	12.2	177E
LL60A6	A2-6	60	7	30(3059)	65(6628)	5000	13	185E
LL65A6	A2-6	67	7	30(3059)	65(6628)	5000	10.6	SAD-65
LL80A8	A2-8	80	7	35(3568)	73(7443)	4000	21	193E

寸法 Size 型號 Model	A	B	C	D	E	F	G	H	J max.	K	N	P	T
LL30A4	112	103.5	85	30	82.55	63.513	M50×P1.5	45	M40×P1.5	15	21.7	3-M10	2.3
LL36A5	135	130	100	27	104.78	82.563	M66×P1.5	60	M55×P2.0	17.5	30.9	4-M10	3.1
LL42A5	135	127	100	27	104.78	82.563	M66×P1.5	60	M55×P2.0	25	30.9	4-M10	3.1
LL42A6	170	127	100	32	133.35	106.375	M66×P1.5	66	M60×P2.0	22	30.9	4-M12	3.1
LL52A6	170	144	130	27	133.35	106.375	M90×P1.5	66.7	M60×P2.0	30	29.9	4-M12	3.1
LL60A6	170	145	130	27	133.35	106.375	M90×P1.5	80	M74×P2.0	30	29.9	4-M12	3.1
LL65A6	170	135	136	27	133.35	106.375	M95×P1.5	81	M75×P2.0	20	29.9	4-M12	3.1
LL80A8	220	170	156	35	171.45	139.719	M114×P2.0	99	M90×P2.0	27.5	32.4	6-M16	6.1

\* 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
\* 非標準需求可訂做 Non-standard requirements can be made

### 彈性筒夾

Collet



規格 / Specification

規格 Model	尺寸 Dim	A	B	d	L	Max Dia		
						○	□	□
161E	39	45	32	75	26	22	18	
163E	39	49	35	80	30	27	22	
171E	42	55	42	94	37	32	26	
173E	50	60	48	94	42	36	28	
177E	60	70	58	94	52	45	36	
185E	73	84	66	110	60	50	40	
SAD-65	79	93	75	100	67	58	47	
193E	92	107	90	130	80	69	56	

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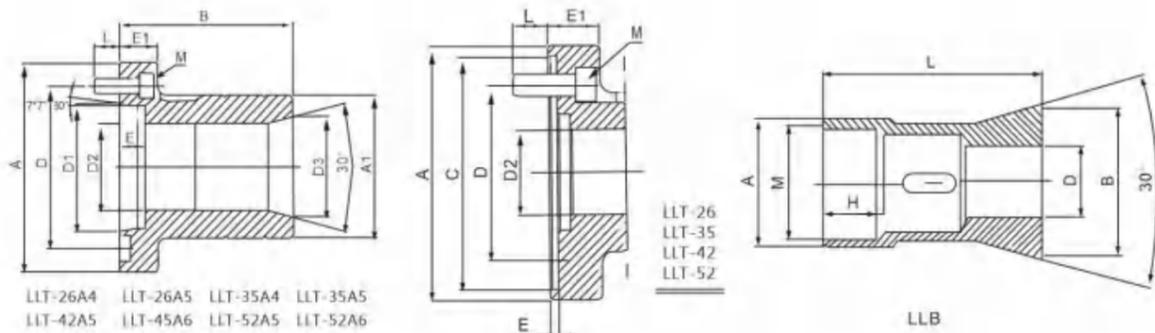
## > LLT SERIES

### LLT 後拉式筒夾夾頭

### LLT PULL BACK COLLET CHUCK



- 后拉式筒夾夾頭，適用於各種旋削機械及數控車床。
- 安裝方便，與中空夾頭相同，可相容互換。
- 可使棒料從夾頭的通孔進行送料作業。
- 不同尺寸及形狀的工件，可選用合適的彈簧夾頭。
- Pull back collet chuck
- It's applicable for various CNC machines.
- Easy installation, the installation size is compatible with the related hydraulic chucks.
- The bar workpiece can be input through the collet chuck hole.
- The collet is optional for different size and shape workpiece.



型號 Model	A	A1	B	C(H6)	D	D1	D2	D3	E	E1	L	M
LLT-26	120	120	110	110	82.6		40	48	4	25	17	3-M10*25
LLT-35	120	83	110	110	82.6		49	58	4	25	17	3-M10*25
LLT-42	155	90	115	140	104.8		56	65	5	25	17	4-M10*25
LLT-52	155	106	125	140	104.8		65	73	5	25	17	4-M10*25
LLT-26A4	112	73	110		82.6	63.51	40	48	17	25	17	3-M10*30
LLT-26A5	135	73	110		82.6	82.56	40	48	17	25	17	3-M10*30
LLT-35A4	112	83	110		82.6	63.51	49	58	17	25	17	3-M10*30
LLT-35A5	135	83	110		82.6	82.56	49	58	17	25	17	3-M10*30
LLT-42A5	135	90	115		104.8	82.56	56	65	17	25	17	4-M10*30
LLT-42A6	165	90	115		133.4	106.38	56	65	17	30	17	4-M12*30
LLT-52A5	135	106	125		104.8	82.56	65	73	17	25	17	4-M10*30
LLT-52A6	165	106	125		133.4	106.38	65	73	17	30	17	4-M12*30

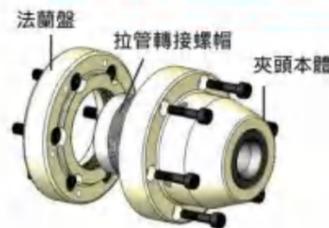
型號 Model	A (g6)	B	D max 圓棒 Round	D max 六角料 Hexagonal	D max 方料 Square	H	L	M
LLB-26	40	49	26	22	18	27	95	M33*1.5
LLB-35	49	59	35	32	26	27	95	M42*1.5
LLB-42	56	66	42	42	29	27	100	M50*2
LLB-52	65	74	52	52	36	27	100	M55*2

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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## 前推式筒夾夾頭-美規5C/16C

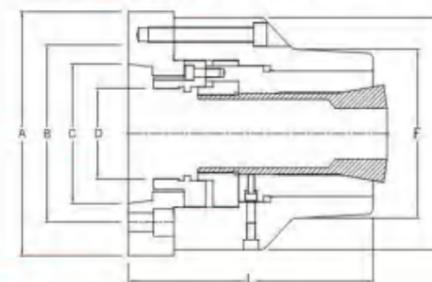
## 5C/16C CPD DEAD-LENGTH COLLET CHUCK FOR 5C/16C COLLET

- 搭配美規5C/16C筒夾工作
- 5C筒夾最大徑26mm
- 16C筒夾最大夾徑40mm
- 滑套前推夾緊，工件軸向不位移
- Adops 5C/16C collets.
- 5C Collet: max. capacity 26mm.
- 16C Collet: max. capacity 40mm.



CPD筒夾夾頭出廠時隨附一祇半加工的拉管轉接螺帽，客戶可以依照機床主軸現有的拉管尺寸加工拉管螺帽  
 NTH offers a blank drawnut when shipping the chuck. Customers could thread the drawnut according to the drawtube of the machine.

### CPD筒夾夾頭尺寸與規格



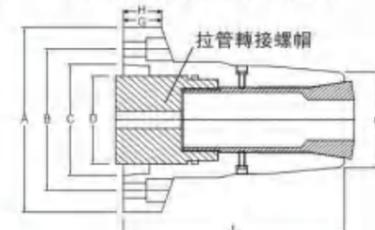
型號/Model	CPD-5CA5	CPD-5CA6	CPD-16CA5	CPD-16CA6
主軸鼻端 Spindle nose	A2-5	A2-6	A2-5	A2-6
A	138 (5.43")	158 (6.22")	138 (5.43")	158 (6.22")
B (P.C.D.)	104.8 (4.13")	133.4 (5.25")	104.8 (4.13")	133.4 (5.25")
C	82.6 (3.25")	106.4 (4.19")	82.6 (3.25")	106.4 (4.19")
D 轉接拉管 Draw tube thread	M73 x P1.5	M73 x P1.5	M91 x P1.5	M91 x P1.5
E	100 (3.94")	100 (3.94")	138 (5.43")	138 (5.43")
F	78 (3.07")	78 (3.07")	90 (3.54")	90 (3.54")
L	123 (4.84")	125 (4.92")	145 (5.71")	148 (5.83")
安裝螺絲 Screw	6H-M10	6H-M12	6H-M10	6H-M12
工作筒夾 Collet	5C筒夾 (最大夾26mm)	5C筒夾 (最大夾26mm)	16C筒夾 (最大夾40mm)	16C筒夾 (最大夾40mm)
拉管允許推力 Max. Pull force	1800kgf (3900lbf)	1800kgf (3900lbf)	2300kgf (5060lbf)	2300kgf (5060lbf)
最高轉速 Max RPM	6000	6000	5000	5000
產品淨重 N. W	8.0kgs (17.6lbs)	9.0kgs (19.8lbs)	10.0kgs (22lbs)	12.0kgs (26.4lbs)

## 後拉式筒夾夾頭-美規5C/16C

## CPB筒夾夾頭尺寸與規格

### 5C/16C CPB PULL BACK COLLET CHUCK

- 搭配美規5C/16C筒夾工作
- 5C筒夾最大徑26mm
- 16C筒夾最大夾徑40mm
- 滑套後拉夾緊，夾持精度高
- Adops 5C/16C collets.
- 5C Collet: max. capacity 26mm.
- 16C Collet: max. capacity 40mm.
- Pull back design. High accuracy.



CPB筒夾夾頭出廠時隨附一祇半加工的拉管轉接螺帽，客戶可以依照機床主軸現有的拉管尺寸加工拉管螺帽

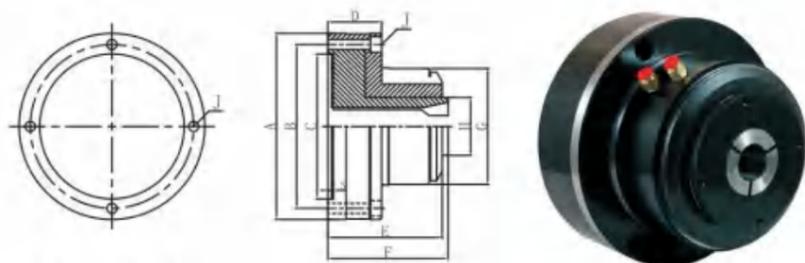
型號/Model	CPB-5CA5	CPB-5CA6	CPB-16CA5	CPB-16CA6
主軸鼻端 Spindle nose	A2-5	A2-6	A2-5	A2-6
A	137 (5.39")	166 (6.54")	137 (5.39")	166 (6.54")
B (P.C.D.)	104.8 (4.13")	133.4 (5.25")	104.8 (4.13")	133.4 (5.25")
C	82.6 (3.25")	106.4 (4.19")	82.6 (3.25")	106.4 (4.19")
D 轉接拉管 Draw tube thread	最大/Max. M58	最大/Max. M65	最大/Max. M58	最大/Max. M65
F	60 (2.36")	60 (2.36")	80 (3.15")	80 (3.15")
L	122 (4.80")	122 (4.80")	145 (5.71")	145 (5.71")
G	24.547	26.641	24.547	26.641
H	31	35	31	35
安裝螺絲 Screw	3H-M10	3H-M12	6H-M10	6H-M12
工作筒夾 Collet	5C筒夾(Collet)	5C筒夾(Collet)	16C筒夾(Collet)	16C筒夾(Collet)
拉管允許拉力	1800kgf (3900lbf)	1800kgf (3900lbf)	2300kgf (5060lbf)	2300kgf (5060lbf)
最高轉速 Max RPM	6000	6000	5000	5000
產品淨重 N. W	5.0kgs (11.0lbs)	7.5kgs (16.5lbs)	5.5kgs (12.1lbs)	10.0kgs (22.0lbs)

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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## JAB 回轉型空壓高速夾頭

### JAB BUILT-IN AIR CYLINDER COLLET CHUCK

- 此夾頭可使用內漲或外夾兩種配置
- 夾頭本體為熱處理鋼一體成型
- 軸承無負荷，轉速高，壽命長，溫度低
- 雙向作動力，強制開啓筒夾、決不卡料
- 壓力中斷時，夾頭呈夾持狀態
- 可由前端安裝，減小連接板厚度
- 筒夾不後縮，可正常控制工作長度
- 本體回轉精度小於0.01mm



適用於：NC車床、普車、研磨機、分度盤、第4軸、第5軸。

Applicable to CNC/lathe/grinder/rotary table/the 4th axis/the 5th axis.

The collet has two types of inside expansion and outside clamping.

No loading on bear, So high rotary speed, low temperature, long working service time.

Safety designation, when the air pressure is interrupted, the chuck still be clamping status.

It could be front mounting, So the adapter can be compacted.

The collet clamping type is pushing forward, So the workpiece length can be controlled.

The collet chuck's body accuracy is within 0.01mm.

型號/Model 規格/Spec	活塞行程 Piston Stroke mm	最大扭力 Max. Torque N·m	空壓壓力 Air Pressure Kgf/cm <sup>2</sup>	最高轉速 Max. RPM	適配筒夾 Collet type	最大夾持外徑 Max. Clamping Dia.	重量 Weight Kgs
JAB-15	4	3	3--8	4000	YB-15	15	3.2
JAB-25	4	3	3--8	4000	YB-25	25	9.5
JAB-40	4	4.5	3--8	4000	CC16	40	13.5
JAB-60	4	7.8	3--8	3000	CC20	60	20.35
JAB-80	4	35	3--8	1500	193E	80	32

單位/Unit:mm

型號/Model 規格/Spec	A	B	C(H6)	D	E	F	G	H	J
JAB-15	100	84	70	40	82	85	71	30	4*M6
JAB-25	167	147	130	48	103	108	104	52	4*M8
JAB-40	187	168	150	50	118	122	133	72	4*M8
JAB-60	220	203	170	55	125	130	168	100	4*M10
JAB-80	247	226	200	69	144.25	153	200	145	6*M10

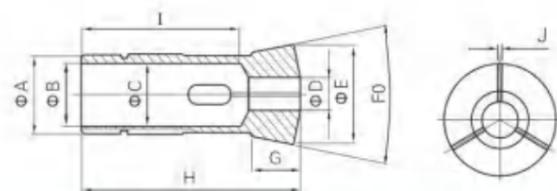
夾持扭力是以6kgf/cm<sup>2</sup>夾持20mm圓棒測得 The clamping torque is come by the testing of using 6kgf/cm<sup>2</sup> to clamp the dia. 20mm round bar

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information.

非標需求可訂做 Non-standard requirements can be made

## 彈性筒夾

### COMMONLY SPRING COLLETS



產品型號 MODEL	A	B	C	D(Max)	E	F	G	H	I	J
YB-15	M18.2*1.5	13.5	19	15	26.3	30°	16	76	62	3-1
YB-25	31.3*20牙	25.5	32	25	39.5	20°	23	104	75	3-1.2
CC16	M47.5*1.75	40.5	48	40	58.6	20°	20	112	65	4-1.5
CC20	M72*2	62	73	60	85	20°	30	125	80	3-2

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## JAH 精密高速空壓夾頭

### JAH PRECISION HIGH-SPEED PNEUMATIC CHUCK



- 熱處理鋼一體成型之結構體，軸承無負荷，轉速高、壽命長、溫升低。
- 雙向作動力，強制開啓筒夾、決不卡料。氣源中斷時，夾頭呈自鎖狀態。
- 直接法蘭連接于主軸，安裝方便快捷，通過三點組合氣閥可連接機床系統控制。
- 本體精度0.005mm以內，可調節夾持精度在0.005以內。

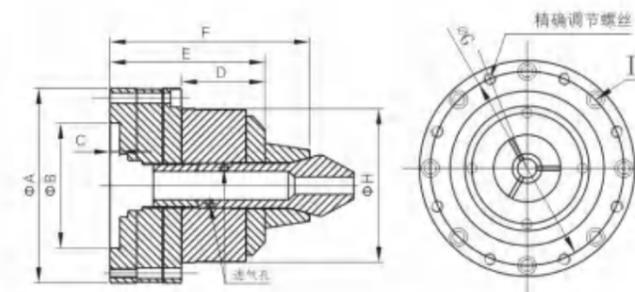
Having an integral structure made of heat-treated steel, no load at the bearing, high speed, long service life, low temperature rise.

With two-way acting force, allowing forcibly opening the collet, no material jamming; the chuck being self-locked in cases of air source failure.

Direct connection between flange and spindle, easy and quick installation, connecting the machine tool system control through the three-point air valve.

Allowing quick change of the collet to facilitate product replacement without backward movement of collet while the working length can be controlled normally.

With a body accuracy within 0.005mm and adjustable clamping accuracy within 0.005mm.



型式 Model	A	B	C	D	E	F	G	H	I	最高轉速 Maximum Speed rpm/min	活塞行程 Piston Stroke mm
JAH-20	109	70	5.5	47	87	112	98	86	8-M5沉頭	3000	3
JAH-25	109	70	5.5	47	87	112	98	86	8-M5沉頭	3000	3
JAH-32	140	100	5.5	53	93	107	126	98	6-M6沉頭	3000	3

型式 Model	夾持行程 Clamping Stroke mm	最大扭力 Maximum Torque N·m	驅動方式 Drive Mode	夾持範圍 Clamping Range kg/cm <sup>2</sup>	使用筒夾 Collet	重量 Weight kg	使用壓力 Working Pressure kg/cm <sup>2</sup>	夾緊方式 Clamping Method
JAH-20	0.2	12	空壓 Pneumatic	Φ3-14	W20	5.5	3-8	后拉 Pull
JAH-25	0.2	15	空壓 Pneumatic	Φ5-19	W25	6.5	3-8	后拉 Pull
JAH-32	0.2	20	空壓 Pneumatic	Φ5-25	W31.75	8.5	3-8	后拉 Pull

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## 油氣壓固定式夾頭-前推型

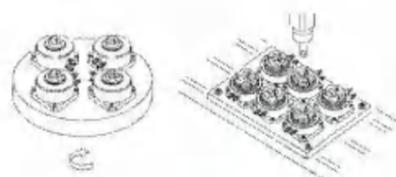
### JAS/JHS AIR/HYDRAULIC POWER STATIONARY CHUCK-PUSH FORWARD TYPE

#### 產品簡介

油氣壓固定型夾頭具備精簡的體積，讓您的工作平台能同時容納更多固定式夾頭，以提升工作效率。產品的高品質符合您對穩定性、高精度、防水防塵的要求，降低維修及人工成本，適合安裝於各式鑽銑工作機台。

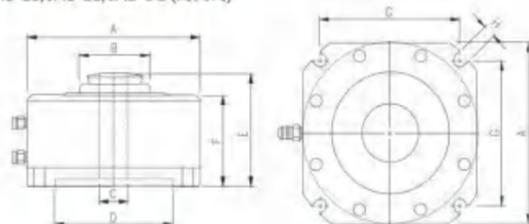
- 鋼製夾頭本體
- 高精度·高剛性·產品壽命長
- 防塵·防屑·防切削液
- 夾頭強制放料設計·不卡料
- 體積小·重量輕·工作速度快

Cost effective stationary collet chuck.  
Dead length design: no axial movement.  
High accuracy. High rigidity. Long product life.  
High resistant to cutting chips, fluid or dust.  
Chuck force-opening design ensures no workpieces jamming.

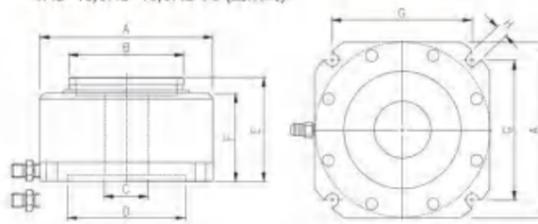


### JAS/JHS產品尺寸及性能規格

JAS-15/JAS-25/JAS-5C (筒夾式)



JAS-40/JHS-40/JHS-70 (副爪式)



型號/Model	JAS-15	JAS-25	JAS-5C	JAS-40	JHS-40	JHS-70
A	118 (4.65")	144 (5.67")	144 (5.67")	168 (6.61")	144 (5.67")	190 (7.48")
B	40 (1.57")	55 (2.17")	55 (2.17")	95 (3.74")	95 (3.74")	136 (5.35")
C	14 (0.55")	26 (1.02")	26 (1.02")	38 (1.50")	38 (1.50")	68 (2.68")
D	90 (3.54")	100 (3.94")	100 (3.94")	100 (3.94")	100 (3.94")	155 (6.10")
E	77 (3.03")	108 (4.25")	93 (3.66")	97 (3.82")	94 (3.70")	95 (3.73")
F	64 (2.52")	74 (2.91")	74 (2.91")	77 (3.03")	73 (2.87")	74 (2.91")
G	97 (3.82")	118 (4.65")	118 (4.65")	136.5 (5.37")	118 (4.65")	153.5 (6.04")
H	9 (0.35")	9 (0.35")	9 (0.35")	11 (0.43")	9 (0.35")	11 (0.43")
工作筒夾/副爪 Collet/Jaw Model	YB-15型筒夾 YB-15 Type Collet	YB-25型筒夾 YB-25 Type Collet	5C型筒夾 5C Type Collet	C-40型副爪 C-40 Type Jaw	C-40型副爪 C-40 Type Jaw	C-70型副爪 C-70 Type Jaw
氣壓/油壓驅動 Power source	氣壓/油壓 Air/Hydraulic	氣壓/油壓 Air/Hydraulic	氣壓/油壓 Air/Hydraulic	氣壓 Air	油壓 Hydraulic	油壓 Hydraulic
工作壓力 Working pressure	3-15kg/cm <sup>2</sup> (43-214psi)	3-15kg/cm <sup>2</sup> (43-214psi)	3-15kg/cm <sup>2</sup> (43-214psi)	3-8kg/cm <sup>2</sup> (43-114psi)	3-20kg/cm <sup>2</sup> (43-286psi)	3-20kg/cm <sup>2</sup> (43-286psi)
最大夾持徑(通孔) Max clamping dia. (Through hole)	14mm (0.56")	26mm(1.02")	26mm(1.02")	38mm(1.50")	38mm(1.50")	68mm(2.68")
最大夾持徑(不通孔) Max clamping dia. (Non thru)	18mm (0.71")	28mm (1.10")	28mm (1.10")	50mm (1.97")	50mm (1.97")	90mm (3.54")
活塞面積 Piston Area	79cm <sup>2</sup> (12.2in <sup>2</sup> )	112cm <sup>2</sup> (17.4in <sup>2</sup> )	112cm <sup>2</sup> (17.4in <sup>2</sup> )	240cm <sup>2</sup> (37.2in <sup>2</sup> )	86cm <sup>2</sup> (13.3in <sup>2</sup> )	110cm <sup>2</sup> (17.1in <sup>2</sup> )
夾持力 Clamping force	2850kgf@7kg/cm <sup>2</sup> (6260lbf@100psi)	3890kgf@7kg/cm <sup>2</sup> (8550lbf@100psi)	3890kgf@7kg/cm <sup>2</sup> (8550lbf@100psi)	5090kgf@7kg/cm <sup>2</sup> (11210lbf@100psi)	5250kgf@20kg/cm <sup>2</sup> (11550lbf@286psi)	6780kgf@20kg/cm <sup>2</sup> (14920lbf@286psi)
產品淨重 N. W	5.0kgs (11.0lbs)	9.0kgs (19.8lbs)	9.0kgs (19.8lbs)	12.5kgs (27.5lbs)	8.5kgs (18.7lbs)	13.5kgs (29.7lbs)

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
非標準需求可訂做 Non-standard requirements can be made

## 精密氣壓立式筒夾夾頭 (後拉式)

### JASP PRECISION AIR STATIONARY COLLET CHUCK-PULL BACK TYPE

#### 產品簡介

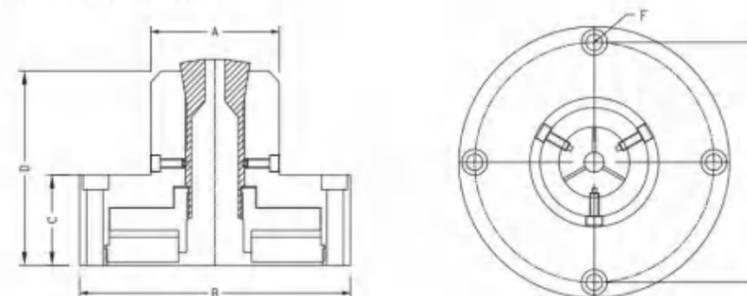
油氣壓固定型夾頭具備精簡的體積，讓您的工作平台能同時容納更多固定式夾頭，以提升工作效率。產品的高品質符合您對穩定性、高精度、防水防塵的要求，降低維修及人工成本，適合安裝於各式鑽銑工作機台。

- 鋼製夾頭本體
- 高精度·高剛性·產品壽命長
- 精密立式氣壓筒夾夾頭
- 後拉夾緊·精度高
- 搭配美規5C筒夾/16C筒夾
- 夾頭強制放料設計·不卡料
- 防塵·防屑·防切削液

Steel chuck body.  
Pull back to close: high precision.  
Adopting 5C / 16C collets.  
High resistant to chips, fluid and dust.  
High accuracy. High rigidity.



### 固定式夾頭尺寸及性能規格



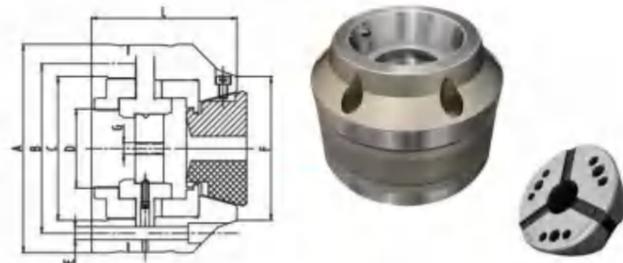
型號/Model	JASP-5C	JASP-16C
A	70 (2.76")	90 (3.54")
B	147 (5.79")	178 (7.00")
C	49 (1.93")	49 (1.93")
D	105 (4.13")	126 (4.96")
E	130 (5.12")	158 (6.22")
F (安裝螺絲孔 Mounting Bolts )	4H-M8	4H-M8
工作筒夾 Collet	美規5C型筒夾 ANSI 5C collet	美規16C型筒夾 ANSI 16C collet
工作壓力 Power source	3-8kg/cm <sup>2</sup> (43-114psi)	3-8kg/cm <sup>2</sup> (43-114psi)
最大夾徑 Max Clamping Dia	26mm (1.02")	40mm (1.57")
活塞面積 Piston Area	88cm <sup>2</sup> (13.7in <sup>2</sup> )	131cm <sup>2</sup> (20.3in <sup>2</sup> )
夾持力 Clamping Force	3175kgf@7kg/cm <sup>2</sup> (6985lbf@100psi)	4725kgf@7kg/cm <sup>2</sup> (10395lbf@100psi)
產品淨重 N. W	6.5kgs (14.3lbs)	12.5kgs (27.5lbs)

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## 精密後拉筒夾夾頭

## POWER COLLET CHUCK

- 快速更換筒夾設計，30秒以內快速更換工作尺寸
- 中心止檔設計，工件軸向位置穩定
- 油壓迴轉缸驅動工作，高夾持力
- 筒夾開口度0.5mm以上，適合機械手自動上料作業
- 夾頭本體合金鋼硬化精密研磨而成，精度壽命長
- 適合安裝於數控車床，研磨機，專業機等工作
- Fast collet change design less than 30 seconds
- Removable End-Stop to ensure axial accuracy.
- Large clamping range: 0.5mm opening.
- Adopting SZM Spannstar vulcanized Clamping Heads.
- (compatible with Hainbuch, Ortlieb, and other brands)



寸法 Size 型號 Model	容許棒材直徑 Allowable bar diameter (mm)	套筒行程 Sleeve stroke (mm)	拉桿軸向行程 Draw tube stroke (mm)	最大容許拉力 Maximum allowable thrust KN(Kgf)	最大夾持力 Max clamping force KN(kgf)	最高轉速 Max r.p.m	重量(Kg)	使用筒夾 Using collets
JPCA-42	42	1	5	31.5(3200)	70.5 ( 7200 )	6500	9.5	SK42
JPCA-52	52	1	5	31.5(3200)	70.5 ( 7200 )	6500	9.5	SK52
JPCA-65	65	1	5	39(4000)	93.5 ( 9500 )	5500	14	SK65
JPCA-80	80	1	5	39(4000)	93.5 ( 9500 )	5500	15	SK80
JPCA-100	100	1	5	39(4000)	93.5 ( 9500 )	5500	-	SK100

寸法 Size 型號 Model	A	B	C	D	E	F	G	L
JPCA-42	145	118	100	M55*2.0	6-M8	100	M8	101.5
JPCA-52	145	118	110	M55*2.0	6-M8	100	M8	101.5
JPCA-65	175	147	130	M75*2.0	6-M8	123	M8	110
JPCA-80	187	160	140	M95*2.0	6-M10	137	M8	114
JPCA-100	217	190	170	M125*2.0	6-M10	175	M8	131.5

## JHL橡膠筒夾固定型夾頭

## JHL RUBBER COLLET FIXED CHUCK

- 注膠柔性筒夾，平行夾持，夾持面更大抓力更強。●長久壽命，高防水防塵能力。●輕鬆控制兩端同心度、平行度。
- 多段尺寸可分次加工，降低設備成本。●以單動研磨機、取代CNC多段同時加工，需配置氣油缸拉桿驅動。
- 通用CNC銼鑽床、非標夾具等運用，可做聯排多工位夾具使用。●適用於精密工件的機加工。
- With a long service life, and good waterproof and dustproof capability. Allowing easy control over the concentricity and parallelism at both ends.
- Allowing separate size processing over multiple sections to reduce equipment costs.
- Replacing CNC multi-section simultaneous processing with single-action grinding machine.
- Requiring the provision of rear pneumatic/hydraulic cylinder rod drive.
- Suitable for non-standard fixtures for CNC milling and drilling machines; may be used as row-type multi-station fixtures.
- Suitable for machining of precision workpieces.



產品型號 Model	A	B	C	D	E	F	G	H	I	J	驅動方式 Drive Mode	使用壓力 Working Pressure Kg/cm <sup>2</sup>	夾持行程 Opening/Closing Stroke mm	使用夾爪型號 Gripping Jaw Model
JHL-42	185	150	45	110	5	38.5	100.5	164	4-M8	158	空/油壓 Air/oil pressure	20	0.5	SK42
JHL-52	185	150	55	110	5	38.5	100.5	164	4-M8	158	空/油壓 Air/oil pressure	20	0.5	SK52
JHL-65	185	150	65	130	5	38.5	100.5	164	4-M8	158	空/油壓 Air/oil pressure	18	0.5	SK65

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## JAP207-42BZI 回轉缸內藏氣壓筒夾夾頭

安裝於車床、磨床或四軸/五軸旋轉台

## JAP207-42BZI AIR COLLET CHUCK FOR RUBBER FLEX COLLETS

- 採用德國SZM原廠SpannStar精密筒夾
- 精密筒夾夾頭內藏高速氣壓迴轉缸
- 節省安裝迴轉缸、油箱、幫浦等設備成本
- 夾頭本體經精密研磨，精度超高
- 雙活塞設計，夾持力強大
- 先進軸承設計，高轉速低溫升
- 夾頭本體半密封設計，高度防水防塵  
(註：切削水不可直接沖向夾頭本體)



Adopts Hainbuch style clamping heads.  
Built-in rotary air cylinder.  
Precision pull-back collet chuck: 0.010mm repeatability.  
Chuck is with through hole for bar parts.  
Double piston: large gripping force.  
High resistance to coolant fluid and chips penetration.

## JAP207-42BZI

JAP207-42BZI迴轉缸內藏氣壓筒夾夾頭提供使用者安裝筒夾夾頭系統時極大的方便性。使用者只需要準備連接盤與壓縮空氣源，即可以快速的完成筒夾夾頭系統的安裝工作，並即刻展開加工作業。JAP207-42BZI精密氣壓筒夾夾頭採用德國原裝SpannStar精密筒夾，筒夾能透過一組筒夾更換板手快速交換。JAP207-42BZI氣壓筒夾內藏高速氣壓迴轉缸，不需額外安裝夾頭拉管與驅動裝置，適合應用於數控車床或加工專用機的工件夾持系統、傳統機床改裝夾持自動化，或是安裝於數控加工中心的四軸/五軸實現夾持自動化等應用。

## CHP206-SS42 回轉缸內藏油壓筒夾夾頭

分度盤、旋轉台等四軸/五軸自動夾持

## CHP206-SS42 HYDRAULIC COLLET CHUCK FOR ROTARY TABLES / INDEXING TABLES

- 採用德國SZM原廠SpannStar精密筒夾
- 精密筒夾夾頭內藏液壓迴轉缸
- 專為加工中心四軸/五軸夾持自動化設計
- 夾頭本體經精密研磨，精度超高
- 前置安裝於旋轉盤前方，旋轉盤擺動不干涉
- 液壓驅動夾持，夾持力大



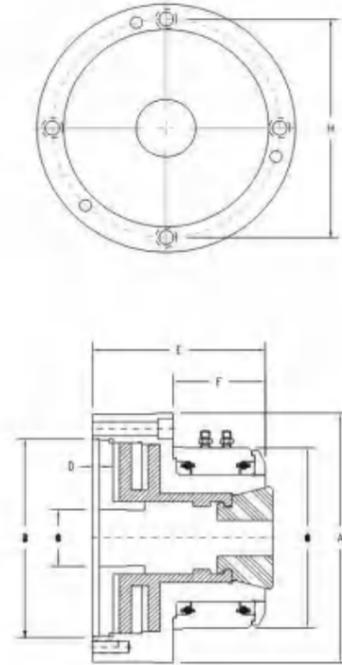
Adopts Hainbuch style clamping heads.  
Built-in rotary hydraulic cylinder.  
Precision pull-back collet chuck: 0.010mm repeatability.  
Special for rotary tables / indexing tables.  
Real front-mounting design allows easy installation.  
Hydraulic actuated: large gripping force.

## CHP206-SS42

CHP206-SS42油壓筒夾夾頭是專為數控加工中心四軸或五軸旋轉盤夾持自動化所設計的專用夾具。CHP206-SS42內藏液壓迴轉驅動機構，夾頭前置安裝於旋轉盤前方，無需在旋轉盤後方安裝迴轉缸與拉管，因此旋轉盤迴轉擺動時，機構後方無迴轉機構干涉旋轉盤的運動路徑。CHP206-SS42搭配德國原裝SpannStar精密筒夾工作，筒夾能以一組快換板手在30秒以內更換完成，提高工具機的工作效率。

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### 產品尺寸與性能規格

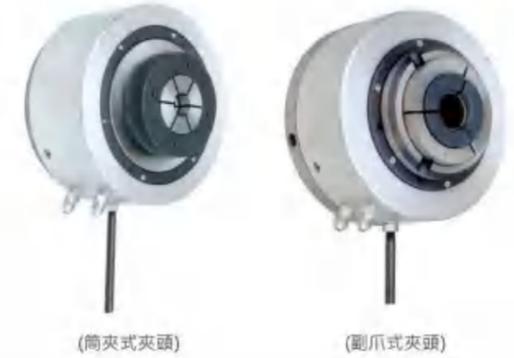


型號 / Model	JAP207-42BZI	CHP206-SS42
氣壓/油壓 Air/Hydraulic	氣壓 Air	油壓 Hydraulic
A	197 (7.75")	166 (6.54")
B	155 (6.10")	130 (5.12")
C	42 (1.65")	42 (1.65")
D	4.5 (0.18")	4.5 (0.18")
E	146 (5.75")	100 (3.94")
F	69 (2.72")	52 (2.05")
G	146 (5.75")	135 (5.31")
H(P.C.D.)	172 (6.77")	147 (5.79")
安裝螺絲孔 Mounting Bolts	3H-M10 (前鎖 Front) + 3H-M10 (後鎖 Rear)	4H-M10 (前鎖 Front)
工作筒夾 Collet	SZM SS42 筒夾 Collet	SZM SS42 筒夾 Collet
最高轉速 Max RPM	2500	100
工作壓力 Working Pressure	3-7kg/cm <sup>2</sup> (40-100psi)	10-30kg/cm <sup>2</sup> (143-500psi)
最大夾持徑 Max. Clamping Dia	42mm (1.65")	42mm (1.65")
活塞面積 Piston Area	256cm <sup>2</sup> (40.0in <sup>2</sup> )	66cm <sup>2</sup> (10.2in <sup>2</sup> )
夾持力 Clamping Force	5572kgf @7kg/cm <sup>2</sup> (12258lbf @100psi)	5669kgf @30kg/cm <sup>2</sup> (12472lbf @428psi)
產品淨重 N. W	20kgs (44lbs)	10kgs (22lbs)

### 油氣壓快速回轉夾頭

#### AIR/HYDRAULIC POWER ROTARY POWER CHUCK

- 快速夾頭內藏油壓/氣壓迴轉缸，免額外安裝迴轉缸
- 安裝簡易，快速建置工作夾持系統
- 氣壓型夾頭缸體加大，提升夾持力
- 筒夾/副爪快速更換設計，高工作彈性
- 夾頭具中心通孔設計，配合自動送料系統工作
- 夾持/放料週期短，生產速度快
- 可不停機上下料，產能高
- 適合傳統車床改裝自動化或半自動化
- 適合組裝各式專用加工機械
- 切削液不可直接沖向夾頭
- JA7-44/JH7-44採用增力2.0倍設計，提供增大夾持力
- JA7-44/JH7-44可以選購內張套件進行內張夾持作業 (內張套件參考P.13)



Self-Contained Power Chuck. No need for an extra rotary actuator. Aluminum alloy chuck body, light-weighted, good heat dispersion. Allows non-stop operation when loading/unloading parts. Widely applied to convert manual lathes into powered ones. Refer to the following figure.

### 產品簡介

快速精密迴轉夾頭系列產品即是高性能、高品質、安裝方便、使用容易的代名詞。

快速精密迴轉夾頭系列內藏油氣壓迴轉缸，使用者可以在極短的時間內完成工件夾持系統的設置，快速地展開各式加工作業。此外，快速精密迴轉夾頭的快速更換筒夾/副爪設計，能幫助客戶更彈性的面對各式少量多樣的加工作業，因此無論是自動化加工、半自動化加工、傳統機床改裝自動化、專用機組裝等各式應用，快速精密迴轉夾頭皆是客戶的指名首選。

快速精密迴轉夾頭是業界公認的領導品牌，我們堅持品質至上，選用進口軸承組與零件組，全線產品自金屬材料、加工、組裝、產品測試至產品包裝等作業，一律由本廠與長期合作的協力夥伴一貫完成，提供客戶高等級的品質承諾。

It used to be complex for users to convert a manual lathe into one with power workholding device since setting up a hydraulic system is quite troublesome.

NTH Rotary Power Chuck is specially designed to help users to set up a power chuck in a low cost and easy way. With its built-in rotary actuator, the Rotary Power Chuck can be installed and start working in less than 20 minutes.

Rotary Power Chuck comes with both air chuck and hydraulic chuck models that range from small sizes to large ones, giving users more options to choose from. Rotary Power Chuck now is widely applied to convert manual lathes to semi-auto ones with power workholding system, or is applied to build special purpose machines.

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### 回轉缸內藏式夾頭

#### ROTARY CYLINDER BUILT-IN TYPE COLLET CHUCK

迴轉缸內藏夾頭系列產品整合精密夾頭與迴轉驅動機構，能降低客戶安裝動力夾具系統的時間與成本。產品線完整：有大夾持力的油壓驅動夾頭與低設備需求的氣壓驅動夾頭，有應用於普通機床改裝的低成本夾頭至應用於高精密夾持的氣壓膜片夾頭。除了列於型錄的產品之外，我們每年為客戶訂製開發有數款的新型迴轉缸內藏夾頭，請與我們聯繫，取得最新的產品訊息。



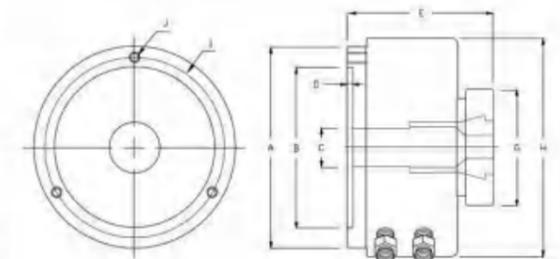
應用例：安裝於車床/磨床/專用機主軸



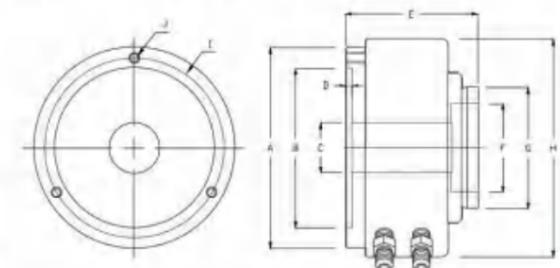
應用例：安裝於四軸/五軸旋轉盤

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#### 筒夾式快速迴轉夾頭



#### 副爪式快速迴轉夾頭



## 筒夾式快速迴轉夾頭 \*內張外夾兩用-詳見次頁

Collet Style Power Chuck

型號/Model	JA7-44	JH7-44
A	192 (7.56")	192 (7.56")
B	155 (6.10")	155 (6.10")
C	44 (1.73")	44 (1.73")
D	5 (0.20")	5 (0.20")
E	135 (5.31")	135 (5.31")
F	-	-
G	107 (4.21")	107 (4.21")
H	212 (8.35")	212 (8.35")
I (P.C.D)	172 (6.77")	172 (6.77")
J	3H-M10 (後鎖 Rear)	3H-M10 (後鎖 Rear)
工作筒夾/副爪 Working collet/Jaw	C-44筒夾 Collet C-44內張套件 Expanding parts	C-44筒夾 Collet C-44內張套件 Expanding parts
氣壓/油壓驅動 Power source	氣壓 Air	油壓 Hydraulic
工作壓力 Working pressure	2-20kg/cm <sup>2</sup> (28-286psi)	2-20kg/cm <sup>2</sup> (28-286psi)
最高轉速 Max RPM	1600	1600
最大夾徑 通孔/不通孔 Max Clamping dia. Thru/no thru	44mm (1.73")	44mm (1.73")
缸體活套面積 Piston Area	117cm <sup>2</sup> (18in <sup>2</sup> )	117cm <sup>2</sup> (18in <sup>2</sup> )
夾持力 Clamping force	5400kgf@16kg/cm <sup>2</sup> (12020lbf@229psi)	10800kgf@16kg/cm <sup>2</sup> (24040lbf@229psi)
產品淨重 N.W	17kgs (37.4lbs)	17kgs (37.4lbs)

## 氣壓式副爪快速回轉夾頭

Jaw Style Power Chuck-Air

型號/Model	JA5-25	JA7-40	JA7-70
A	135 (5.31")	192 (7.56")	192 (7.56")
B	100 (3.94")	155 (6.10")	155 (6.10")
C	25 (0.98")	45 (1.77")	68 (2.68")
D	4.0 (0.16")	4.5 (0.18")	5.0 (0.20")
E	102 (4.02")	126 (4.96")	141 (5.55")
F	45 (1.77")	65 (2.56")	105 (4.13")
G	68 (2.68")	94 (3.70")	136 (5.35")
H	170 (6.69")	212 (8.35")	265 (10.43")
I (P.C.D)	115 (4.53")	172 (6.77")	172 (6.77")
J	3H-M8 (後鎖 Rear)	3H-M10 (後鎖 Rear)	3H-M10 (後鎖 Rear)
工作筒夾/副爪 Working collet/Jaw	C-25型副爪 C-25 Type Jaw	C-40型副爪 C-40 Type Jaw	C-70型副爪 C-70 Type Jaw
氣壓/油壓驅動 Power source	氣壓 Air	氣壓 Air	氣壓 Air
工作壓力 Working pressure	2-9kg/cm <sup>2</sup> (28-130psi)	2-9kg/cm <sup>2</sup> (28-130psi)	2-9kg/cm <sup>2</sup> (28-130psi)
最高轉速 Max RPM	1800	1600	1400
最大夾徑 通孔/不通孔 Max Clamping dia. Thru/no thru	25mm/32mm (0.98"/1.26")	45mm/50mm (1.77"/1.97")	68mm/90mm (2.68"/3.54")
缸體活套面積 Piston Area	115cm <sup>2</sup> (17.8in <sup>2</sup> )	182cm <sup>2</sup> (28.2in <sup>2</sup> )	329cm <sup>2</sup> (50.8in <sup>2</sup> )
夾持力 Clamping force	2254kgf@7kg/cm <sup>2</sup> (4958lbf@100psi)	3567kgf@7kg/cm <sup>2</sup> (7847lbf@100psi)	6429kgf@7kg/cm <sup>2</sup> (14143lbf@100psi)
產品淨重 N.W	7.5kgs (16.5lbs)	15.0kgs (33.0lbs)	22.5kgs (49.5lbs)

## 油壓式副爪快速回轉夾頭

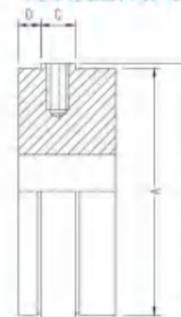
Jaw Style Power Chuck-Hydraulic

型號 /Model	JH5-25	JH7-40	JH7-70	JH9-90	JH9-120
A	135 (5.31")	192 (7.56")	192 (7.56")	230 (9.06")	229 (9.02")
B	100 (3.94")	155 (6.10")	155 (6.10")	190 (7.48")	190 (7.48")
C	25 (0.98")	45 (1.77")	68 (2.68")	88 (3.52")	118 (4.65")
D	4.0 (0.16")	4.5 (0.18")	5.0 (0.20")	5.5 (0.22")	5.5 (0.22")
E	102 (4.02")	126 (4.96")	141 (5.55")	150 (5.91")	157 (6.18")
F	45 (1.77")	65 (2.56")	105 (4.13")	105 (4.13")	140 (5.51")
G	68 (2.68")	94 (3.70")	136 (5.35")	136 (5.35")	168 (6.61")
H	138 (5.43")	190 (7.48")	211 (8.31")	232 (9.13")	275 (10.83")
I (P.C.D)	115 (4.53")	172 (6.77")	172 (6.77")	210 (8.27")	210 (8.27")
J	3H-M8 (後鎖 Rear)	3H-M10 (後鎖 Rear)	3H-M10 (後鎖 Rear)	3H-M12 (後鎖 Rear)	3H-M12 (後鎖 Rear)
工作副爪 Working Jaw	C-25型副爪 C-25TypeJaw	C-40型副爪 C-40TypeJaw	C-70型副爪 C-70TypeJaw	C-90型副爪 C-90TypeJaw	C-120型副爪 C-120TypeJaw
氣壓/油壓驅動 Power source	油壓 Hydraulic	油壓 Hydraulic	油壓 Hydraulic	油壓 Hydraulic	油壓 Hydraulic
工作壓力 Air Pressure	10-25kg/cm <sup>2</sup> (143-357psi)	10-20kg/cm <sup>2</sup> (143-286psi)	10-20kg/cm <sup>2</sup> (143-286psi)	10-15kg/cm <sup>2</sup> (143-214psi)	10-15kg/cm <sup>2</sup> (143-214psi)
最高轉速 Max RPM	1800	1600	1400	1100	900
最大夾徑 通孔/不通孔 Max Clamping dia. Thru/no thru	25mm/32mm (0.98"/1.26")	45mm/50mm (1.77"/1.97")	68mm/90mm (2.68"/3.54")	88mm/88mm (3.52"/3.52")	118mm/118mm (4.65"/4.65")
缸體活套面積 Piston Area	56cm <sup>2</sup> (8.68in <sup>2</sup> )	85cm <sup>2</sup> (13.1in <sup>2</sup> )	117cm <sup>2</sup> (18.1in <sup>2</sup> )	133cm <sup>2</sup> (20.7in <sup>2</sup> )	183cm <sup>2</sup> (28.4in <sup>2</sup> )
夾持力 Clamping force	2508kgf@16kg/cm <sup>2</sup> (5519lbf@228psi)	4032kgf@16kg/cm <sup>2</sup> (8870lbf@228psi)	5197kgf@16kg/cm <sup>2</sup> (11433lbf@228psi)	5913kgf@16kg/cm <sup>2</sup> (13009lbf@228psi)	6148kgf@12kg/cm <sup>2</sup> (13528lbf@171psi)
產品淨重 N.W	6.0kgs (13.2lbs)	13.0kgs (28.6lbs)	18.0kgs (39.6lbs)	24.0kgs (52.8lbs)	30.0kgs (66.0lbs)

## 快速回轉夾頭/固定型夾頭專用副爪

SPECIAL JAWS FOR HIGH SPEED ROTARY COLLET CHUCK/STATIONARY COLLET CHUCK

### 專用副爪尺寸與適用產品



型號/Model	A	B	C	D	安裝螺絲	適用夾頭型號 Application collet chuck
C-25	45mm (1.77")	47.5mm (1.87")	7mm (0.28")	5.0mm (0.20")	M5x10	JA5-25 / JH5-25
C-40	65mm (2.56")	67.5mm (2.66")	9mm (0.35")	6.0mm (0.24")	M6x12	JA7-40 / JH7-40 JAS-40 / JHS-40 / CAF-40
C-70	105mm (4.13")	107.5mm (4.23")	9mm (0.35")	6.0mm (0.24")	M6x12	JA7-70 / JH7-70 / JH9-90 JHS-70 / CAF-70
C-120	140mm (5.51")	143.5mm (5.65")	9mm (0.35")	6.0mm (0.24")	M6x14	JH9-120

### 根據工件外型與夾持需求所設計的專用夾爪



## 內張與外夾兩用的44型快速回轉夾頭

44 TYPE EXPANDING AND CLAMPING DOUBLE FUNCTION ROTARY COLLET CHUCK

### (JA7-44/JH7-44)



### 將筒夾式迴轉夾頭快速的轉換為內張夾頭

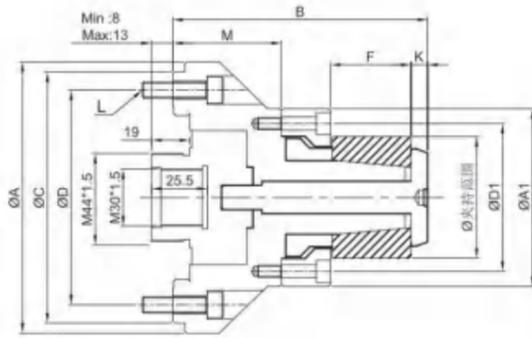
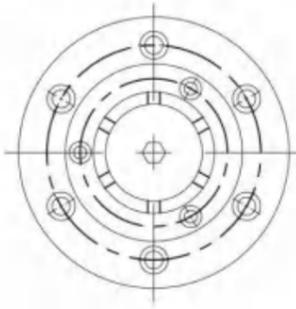
筒夾式快速迴轉夾頭(JA7-44 / JH7-44)除了可以安裝C-44型筒夾應用於外夾作業外，亦可以透過安裝一組內張套件，包含一只推桿座與彈性內徑夾，可以在非常短的時間內快速地將筒夾式快速迴轉夾頭轉換為快速迴轉內張夾頭。快速迴轉夾頭的彈性內徑夾(C-44I)是根據客戶的加工件所設計訂製的，我們的製作速度快，可以在訂單後一週內交貨，幫助您快速地展開您的內張夾持加工作業。

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 非標準需求可訂做 Non-standard requirements can be made

## NPT211 後拉式橡膠內漲夾頭

### PULL BACK EXPANSION RUBBER COLLET CHUCK

- NPT採用分片式筒夾，筒夾的錐面完全貼合與夾頭本體，因此形成一個組合式的實體夾具，使得加工剛性，機械穩定性，夾持精度都得到很大的提高。
- 適用與CNC車，專用機，或其它的旋削機械，主要用途為車削，磨，銑等加工。
- 高同心度和重複精度0.01mm以內。
- 可增加安裝氣密檢測裝置。
- 適合通孔夾持。
- NPT collet chuck adopts a rubber flex collet, the conical surface of the collet is completely fitted with the chuck body, thus forming a combined solid fixture, which greatly improves the processing rigidity, mechanical stability, and clamping accuracy.
- It's suitable for CNC lathes, special machines, or other turning machines, mainly used for turning, grinding, milling and other processing.
- Its concentricity and repeatability is within 0.01mm
- Airtight detection device can be installed
- It's suitable for through hole clamping



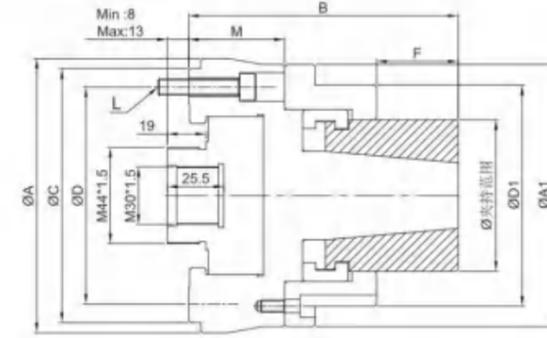
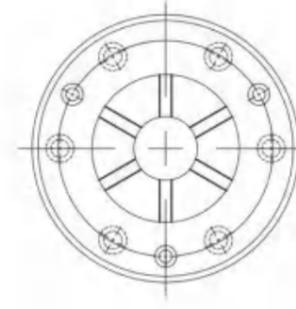
型號 Model	夾爪行程 mm	夾持範圍 mm	筒夾閉合量 mm	容許油壓缸推力 (kgf)	最高轉速 r.p.m	最大夾持力 kgf	重量 kg	使用筒夾
NPT211-100	5.5	22-28	-0.3~+0.4	816	7000	5712	5	HK-1000
NPT211-110	5.5	26-38	-0.3~+0.5	1020	6000	7140	6	HK-1100
NPT211-120	5.5	36-54	-0.4~+0.6	1836	5500	12852	7	HK-1200
NPT211-130	5.5	50-80	-0.4~+0.6	2244	5500	15708	8	HK-1300
NPT211-140	6	69-100	-0.4~+0.6	3060	5500	21420	10	HK-1400
NPT211-150	6	100-130	-0.5~+0.6	4080	5000	28560	30	HK-1500

型號 Model	A	A1	B	C (H6)	D	D1	E	F	M	L	K
NPT211-100	139	75	107	131	116	50(3-M6)	7	22	60	6-M8*35	10
NPT211-110	139	75	121	131	116	60(3-M6)	7	26	59	6-M8*35	10
NPT211-120	139	80	134	131	116	65(3-M5)	7	43	55	6-M8*35	11
NPT211-130	139	100	152	131	116	80(3-M6)	7	49	62	6-M8*35	-
NPT211-140	139	115	164	131	116	91(3-M6)	7	59	60	6-M8*35	15
NPT211-150	230	130	210	219	192	117(3-M8)	14	76	75	6-M10*50	-

## NPT212後拉式橡膠內漲夾頭

### PULL BACK EXPANSION RUBBER COLLET CHUCK

- NPT採用分片式筒夾，筒夾的錐面完全貼合與夾頭本體，因此形成一個組合式的實體夾具，使得加工剛性，機械穩定性，夾持精度都得到很大的提高。
- 適用與CNC車，專用機，或其它的旋削機械，主要用途為車削，磨，銑等加工。
- 高同心度和重複精度0.01mm以內。
- 可增加安裝氣密檢測裝置。
- 適合盲孔夾持。
- NPT collet chuck adopts a rubber flex collet, the conical surface of the collet is completely fitted with the chuck body, thus forming a combined solid fixture, which greatly improves the processing rigidity, mechanical stability, and clamping accuracy.
- It's suitable for CNC lathes, special machines, or other turning machines, mainly used for turning, grinding, milling and other processing.
- Its concentricity and repeatability is within 0.01mm
- Airtight detection device can be installed
- It's suitable for blind hole clamping



型號 Model	夾爪行程 mm	夾持範圍 mm	筒夾閉合量 mm	容許油壓缸推力 (kgf)	最高轉速 r.p.m	最大夾持力 kgf	重量 kg	使用筒夾
NPT-212-XX	5	13-18	-0.25~+0.25	816	7000	5712	5	HJ-XX
NPT-212-X	5	16-21	-0.25~+0.25	816	7000	5712	5	HJ-XX
NPT212-200	5.5	20-28	-0.3~+0.4	816	7000	5712	5	HJ-2000
NPT212-210	5.5	26-38	-0.3~+0.5	1020	6000	7140	6	HJ-2100
NPT212-220	5.5	36-54	-0.4~+0.6	1836	5500	12852	7	HJ-2200
NPT212-230	5.5	50-80	-0.4~+0.6	2244	5500	15708	8	HJ-2300
NPT212-240	6	69-100	-0.4~+0.6	3060	5500	21420	10	HJ-2400
NPT212-250	6	100-130	-0.4~+0.6	4080	5500	28560	30	HJ-2500

型號 Model	A	A1	B	C (H6)	D	D1	E	F	M	L
NPT-212-XX	139	114	95	131	116	53(3-M5)	7	14	45	6-M8*30
NPT-212-X	139	114	97	131	116	57(3-M5)	7	14	49.5	6-M8*30
NPT212-200	139	86	112	131	116	70(3-M6)	7	21	51.5	6-M8*40
NPT212-210	139	90	117	131	116	750(3-M6)	7	25	51.5	6-M8*30
NPT212-220	139	105	133	131	116	90(3-M5)	7	40	51.5	6-M8*40
NPT212-230	139	120	140	131	116	104(3-M6)	7	44.5	53	6-M8*40
NPT212-240	139	140	150	131	116	124(3-M6)	7	52.5	53	6-M8*40
NPT212-250	230	195	175	219	192	176(3-M8)	14	65	65	6-M10*40

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 \* 非標準需求可訂做 Non-standard requirements can be made

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# NTH



H 液壓卡盤系列  
HYDRAULIC CHUCK SERIES

## > B SERIES

### 中空動力夾頭(三爪高速中空型)

### 3-JAW THOUGH HOLE POWER CHUCK



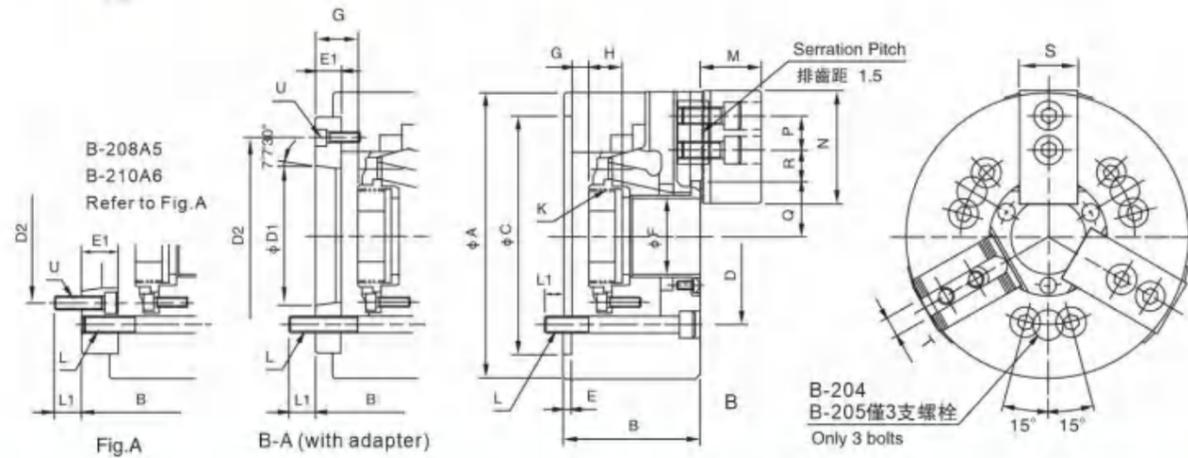
- 楔形三爪大貫通孔徑。
- 摺動面均經硬化及精密研磨，并直接潤滑。
- 高剛性結構及高夾持精度。
- It's a WEDGE-HOOK type 3-jaw with the large through-hole.
- Matching surfaces of all parts hardened, ground and lubricated directly
- Construction of high rigidity and high clamping accuracy.

規格 Spec 型號 Model	楔心行程(mm) Plunger stroke	爪行程(直徑) Jaw stroke (Dia.) (mm)	夾持直徑 chucking Dia.(mm)		容許油壓缸推力 Max.D.B.Pull (kgf)	最大夾持力 Max clamping force (kgf)	最高回轉速 max r.p.m	慣性矩 kg-m <sup>2</sup>	重量 (kg)		適合油壓缸 Matched cylinders
			最大Max	最小Min					Weight	Weight	
B-204	10	5.4	110	7	1400	2900	8000	0.01	4		H-0928
B-205 A4			135	12	1750	3650	7000	0.02	6.7	7.5	H-1036
B-206 A5	12	5.5	169	15	2200	5800	6000	0.06	11.9	13.7	H-1246
B-208 A5 A6	16	7.4	210	13	3450	8550	5000	0.18	25.4		H-1552
									23.6		
B-210 A6 A8	19	8.8	254	31	4350	11300	4200	0.33	34.5	41.5	H-1875
									40		
B-212 A8			304	34	5600	14650	3300	0.77	61	64	H-2091
B-215 A11	23	10.6	381	50	7240	18350	2500	2.39	120	127	H-2511
B-218 A11	23	10.6	450	50	7240	18355	2000	3.74	164	178	H-2511
B-220 A15	23	10.6	510	120	9177	23861	1800	6.91	223	234	ML2816
B-224 A20	26	12	610	150	9177	23861	1400	15.67	270	286	ML3320
B-232 A20	34	18	800	210	10197	24472	1200	43	546	580	ML3320

## > B SERIES

中空動力夾頭(三爪高速中空型)

3-JAW THOUGH HOLE POWER CHUCK



寸法 Size 型號 Model	A	B	C(H6)	D	D1	D2	E	E1	F	Gmax	Gmin	H			
B-204	110	59	85	70.6	-	-	4	-	26	3.5	-6.5	17.5			
B-205 A4	135	60	71	110	82.6	63.51	96	4	15	33	1	16	-9	6	20
B-206 A5	169	81	91	140	104.8	82.56	116	5	15	45	11	26	-1	14	19
B-208 A5	210	91	109	170	133.4	82.56	104.8	5	23	52	14.5	37.5	-1.5	21.5	20.5
B-208 A6	210	91	103	170	133.4	106.38	150	5	17	52	14.5	31.5	-1.5	15.5	20.5
B-210 A6	254	100	120	220	171.5	106.38	133.4	5	25	75	8.5	33.5	-10.5	14.5	25
B-210 A8	254	100	113	220	171.5	139.72	190	5	18	75	8.5	26.5	-10.5	7.5	25
B-212 A8	304	110	122	220	171.5	139.72	190	6	18	91	8	26	-15	3	28
B-215 A11	381	133	149	300	235	196.87	260	6	22	117.5	11	33	-12	10	39
B-218 A11	450	133	149	300	235	196.87	260	6	22	117.5	7	29	-16	6	43
B-220 A15	530	134	155	380	330.2	285.78	330.2	6	27	180	11	38	-12	15	38
B-224 A20	610	147	166	520	463.6	412.78	463.6	6	25	205	16	41	-10	15	38
B-232 A20	800	150	169	520	463.6	412.78	463.6	6	25	230	16	41	-18	7	38

寸法 Size 型號 Model	K max.	L	L1	M	N	P	Q max	Q min	R max	R min	S	T	U	
B-204	M32 x 1.5	3-M10	16	24	52	14	23	20.3	11.3	6.8	23	10	-	
B-205 A4	M40 x 1.5	3-M10	15	15	31	62	14	26.5	23.8	19.8	7.8	25	10	3-M6
B-206 A5	M55 x 2	6-M10	16	16	37	73	20	32	29.3	22.8	9.3	31	12	3-M6
B-208 A5	M60 x 2	6-M12	20	18	38	95	25	38.7	35	29.8	14.8	35	14	6-M10
B-208 A6	M60 x 2	6-M12	20	18	38	95	25	38.7	35	29.8	14.8	35	14	3-M6
B-210 A6	M85 x 2	6-M16	22	18	43	110	30	51	46.6	33.8	14.3	40	16	6-M12
B-210 A8	M85 x 2	6-M16	22	24	43	110	30	51	46.6	33.8	14.3	40	16	3-M8
B-212 A8	M100 x 2	6-M16	23	25	51	130	30	61.3	56	45.8	15.8	50	21	3-M8
B-215 A11	M130 x 2	6-M20	30	28	66	165	43	82	76.7	46.8	13.8	62	22	3-M10
B-218 A11	M130 x 2	6-M20	35	28	66	165	43	82	76.7	79.75	15.25	62	22	3-M10
B-220 A15	M190 x 3	6-M24	35	33	73	180	60	112.5	107.2	60.5	24.5	64	25	3-M12
B-224 A20	M215 x 3	6-M24	35	35	73	180	60	139.9	133.9	87.5	24.5	64	25	3-M10
B-232 A20	M250 x 3	6-M24	35	35	73	180	60	162	153	153.5	24.5	64	25	3-M10

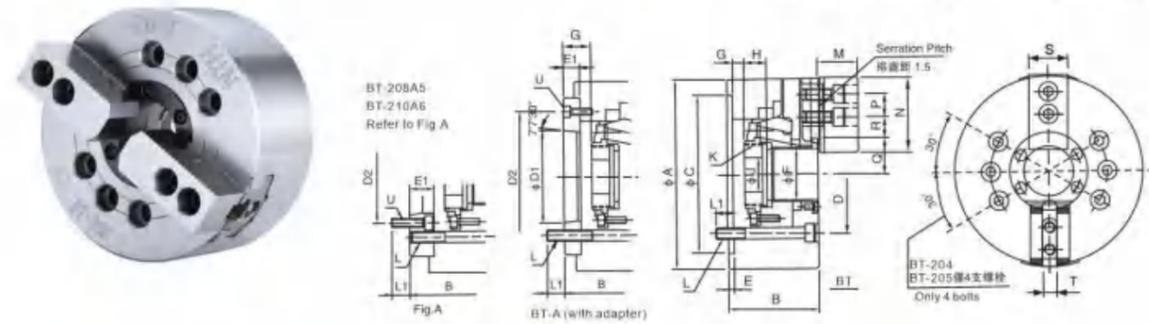
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## > BT SERIES

中空動力夾頭(二爪高速中空型)

2-JAW THOUGH HOLE POWER CHUCK

- 楔形二爪大貫通孔徑，特別適合异形物的夾持。
- 摺動面均經硬化及精密研磨，并直接潤滑。
- 高剛性結構及高夾持精度。
- It's a WEDGE-HOOK type 2-jaw with the large through-hole.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- Construction of high rigidity and high clamping accuracy.



規格 Spec 型號 Model	楔心行程(mm) Plunger stroke	爪行程(直徑) Jaw stroke (Dia.) (mm)	夾持直徑 chucking Dia. (mm)	容許油缸缸推力 Max. D.B. Pull (kgf)	最大夾持力 Max clamping force (kgf)	最高回轉速 max r.p.m	慣性矩 kg·m <sup>2</sup>	重量 (kg) Weight	適合油缸缸 Matched cylinders	
BT-204			110	7	940	1930	8000	0.01	3.8	H-0928
BT-205 A4	10	5.4	135	12	1190	2440	7000	0.02	6.5 7.3	H-1036
BT-206 A5	12	5.5	169	15	1470	3870	6000	0.06	11.5 13.3	H-1246
BT-208 A5			210	13	2360	5840	5000	0.17	21.3 24.2	H-1552
BT-208 A6			210	13	2360	5840	5000	0.17	21.3 22.4	H-1552
BT-210 A6			254	31	2900	7540	4200	0.31	33.5 40.5	H-1875
BT-210 A8			254	31	2900	7540	4200	0.31	33.5 39	H-1875
BT-212 A8			304	34	3740	9780	3300	0.70	59.7 62.7	H-2091
BT-215 A11			381	50	4790	12200	2500	2.23	115 122	H-2511
BT-218 A11			450	50	4823	12236	2000	3.31	122 133	H-2511

寸法 Size 型號 Model	A	B	C(H6)	D	D1	D2	E	E1	F	Gmax	Gmin	H	J			
BT-204	110	59	85	70.6	-	-	4	-	26	3.5	-6.5	17.5	12			
BT-205 A4	135	60	71	110	82.6	63.51	96	4	15	33	1	16	-9	6	20	12
BT-206 A5	169	81	91	140	104.8	82.56	116	5	15	45	11	26	-1	14	19	20
BT-208 A5	210	91	109	170	133.4	82.56	104.8	5	23	52	14.5	37.5	-1.5	21.5	20.5	30
BT-208 A6	210	91	103	170	133.4	106.38	150	5	17	52	14.5	31.5	-1.5	15.5	20.5	30
BT-210 A6	254	100	120	220	171.5	106.38	133.4	5	25	75	8.5	33.5	-10.5	14.5	25	45
BT-210 A8	254	100	113	220	171.5	139.72	190	5	18	75	8.5	26.5	-10.5	7.5	25	45
BT-212 A8	304	110	122	220	171.5	139.72	190	6	18	91	8	26	-15	3	28	50
BT-215 A11	381	133	149	300	235	196.87	260	6	22	117.5	11	33	-12	10	39	60
BT-218 A11	450	133	149	300	235	196.87	260	6	22	117.5	7	29	-16	6	43	-

寸法 Size 型號 Model	K max	L	L1	M	N	P	Q max	Q min	R max	R min	S	T	U	
BT-204	M32 x 1.5	3-M10	16	24	52	14	23	20.3	11.3	6.8	23	10	-	
BT-205 A4	M40 x 1.5	3-M10	15	15	31	62	14	26.5	23.8	19.8	7.8	25	10	3-M6
BT-206 A5	M55 x 2	6-M10	16	16	37	73	20	32	29.3	22.8	9.3	31	12	3-M6
BT-208 A5	M60 x 2	6-M12	20	18	38	95	25	38.7	35	29.8	14.8	35	14	6-M10
BT-208 A6	M60 x 2	6-M12	20	18	38	95	25	38.7	35	29.8	14.8	35	14	3-M6
BT-210 A6	M85 x 2	6-M16	22	18	43	110	30	51	46.6	33.8	14.3	40	16	6-M12
BT-210 A8	M85 x 2	6-M16	22	24	43	110	30	51	46.6	33.8	14.3	40	16	3-M8
BT-212 A8	M100 x 2	6-M16	23	25	51	130	30	61.3	56	45.8	15.8	50	21	3-M8
BT-215 A11	M130 x 2	6-M20	30	28	66	165	43	82	76.7	46.8	13.8	62	22	3-M10
BT-218 A11	M130 x 2	6-M20	35	28	66	165	43	82	76.7	79.75	15.25	62	22	3-M10

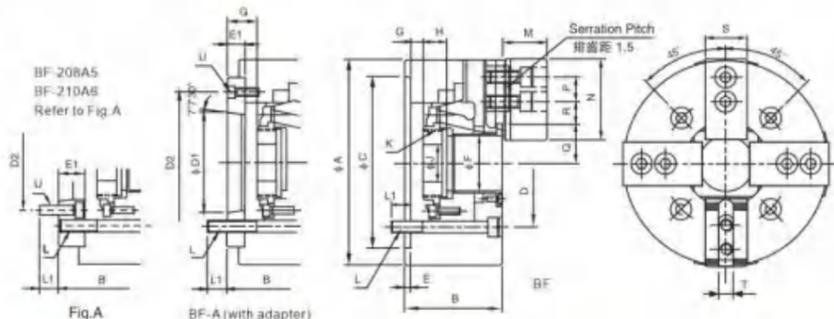
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 非標準需求可訂做 Non-standard requirements can be made

## > BF SERIES

### 中空動力夾頭(四爪高速中空型)

### 4-JAW THOUGH HOLE POWER CHUCK

- 楔形四爪大貫通孔徑，特別適合异形物的夾持。
- 摺動面均經硬化及精密研磨，并直接潤滑。
- 高剛性結構及高夾持精度。
- It's a WEDGE-HOOK type 4-jaw with the large through-hole.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- Construction of high rigidity and high clamping accuracy.



規格 Spec 型號 Model	楔心行程(mm) Plunger stroke	爪行程(直徑) Jaw stroke (Dia.) (mm)	夾持直徑 clamping Dia.(mm) 最大Max 最小Min	容許油壓缸推力 Max D.B.Pull (kgf)	最大夾持力 Max clamping force (kgf)	最高回轉速 max r.p.m	慣性矩 kg·m <sup>2</sup>	重量 (kg) Weight	適合油壓缸 Matched cylinders
BF-206 A5	12	5.5	169 15	2700	7000	6000	0.06	11.5 13.3	H-1246/HK-1246
BF-208 A5 A6	16	7.4	210 13	4430	10900	5000	0.19	23.5 24.3	H-1552/HK-1552
BF-210 A6 A8	19	8.8	254 31	5440	14100	4200	0.34	36.3 39.3	H-1875/HK-1875
BF-212 A8	23	10.6	304 34	7000	18300	3300	0.79	62 65.7	H-2091/HK-2091
BF-215 A11	23	10.6	381 50	9000	22900	2500	2.42	123.7 130.7	H-2511/HK-2511
BF-218 A11	23	10.6	450 50	7240	18355	1500	3.798	140 151	H-2511
BF-224 A20	26	12	610 150	9177	23861	1000	15.2	284 299	ML3320

寸法 Size 型號 Model	A	B	C(H6)	D	D1	D2	E	E1	F	Gmax	Gmin	H	J			
BF-206 A5	169	81	91	140	104.8	82.56	116	5	15	45	11	26	-1	14	19	20
BF-208 A5 A6	210	91	109	170	133.4	82.56	104.8	5	23	52	14.5	37.5	-1.5	21.5	20.5	30
BF-210 A6 A8	254	100	120	220	171.5	106.38	133.4	5	17	75	8.5	33.5	-10.5	14.5	25	45
BF-212 A8	304	110	122	300	235	139.72	190	6	18	91	8	26	-15	3	28	50
BF-215 A11	381	133	149	300	235	196.87	260	6	22	117.5	11	33	-12	10	39	60
BF-218 A11	450	133	149	300	235	196.869	260	6	22	117.5	7	29	-16	6	43	-
BF-224 A20	610	147	155	520	463.6	412.775	463.6	6	25	205	16	41	-10	15	38	-

寸法 Size 型號 Model	K max	L	L1	M	N	P	Q max	Q min	R max	R min	S	T	U	
BF-206 A5	M55×2	4-M10	16	16	37	73	20	32	29.3	22.8	9.3	31	12	3-M6
BF-208 A5 A6	M60×2	4-M12	20	17	38	95	25	38.7	35	29.8	14.8	35	14	6-M10 3-M6
BF-210 A6 A8	M85×2	4-M16	22	24	43	110	30	51	46.6	33.8	14.3	40	16	6-M12 3-M8
BF-212 A8	M100×2	4-M20	23	25	51	130	30	61.3	56	45.8	15.8	50	21	3-M8
BF-215 A11	M130×2	4-M20	30	28	66	165	43	82	76.7	46.8	13.8	62	22	4-M10
BF-218 A11	M130×2	4-M20*135	30	28	66	165	43	82	76.7	46.8	13.8	62	22	3-M10
BF-224 A20	M215×3	8-M24*150	35	35	73	180	60	139.9	133.9	87.5	24.5	65	25	3-M10

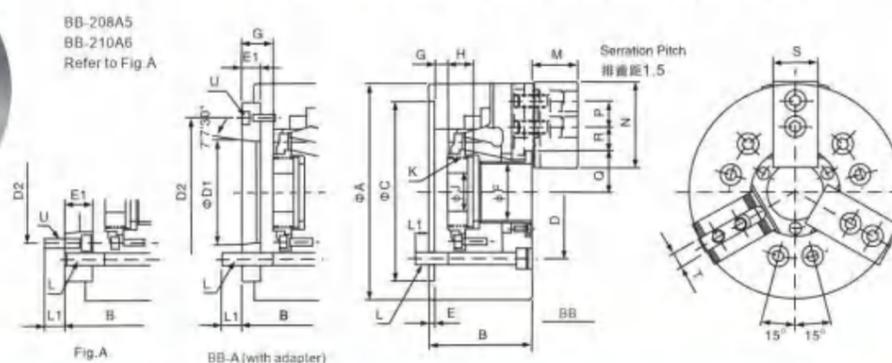
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## > BB SERIES

### 中空動力夾頭(三爪大孔徑中空型)

### 3-JAW EXTRA THOUGH HOLE POWER CHUCK

- 楔形三爪超大貫通孔徑。
- 摺動面均經硬化及精密研磨并直接潤滑。
- 高剛性結構及高夾持精度。
- It's a WEDGE-HOOK type 3-jaw with the extra large through-hole.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- Construction of high rigidity and high clamping accuracy.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke (Dia.) (mm)	夾持直徑 clamping Dia.(mm) 最大Max 最小Min	容許油壓缸推力 Max D.B.Pull (kgf)	最大夾持力 Max clamping force (kgf)	最高回轉速 max r.p.m	慣性矩 kg·m <sup>2</sup>	重量 (kg) Weight	適合油壓缸 Matched cylinders
BB-206 A5	12	5.5	170 18	2250	5800	5300	0.06	11 12.8	H-1552/HK-1552
BB-208 A5 A6	16	7.4	210 23	4020	8550	4600	0.15	23 24.1	H-1868/HK-1868
BB-210 A6 A8	19	8.8	254 46	5010	11300	4000	0.32	34 39.5	H-1878/HK-1878
BB-212 A11	23	10.6	315 47	6000	15600	3500	0.73	51 58	H-2051/HK-2051
BB-212   128   A11	23	10.6	315 47	6000	15600	3500	0.73	51 58	H-2051/HK-2051
BB-215 A15	23	10.6	405 60	7240	18355	2500	2.3	127.4 138.8	HK-2214
BB-218 A15	24.5	11.3	457 75	7240	18355	2000	4.77	161 172	ML2816

寸法 Size 型號 Model	A	B	C(H6)	D	D1	D2	E	E1	F	Gmax	Gmin	H	J			
BB-206 A5	170	81	91	140	104.8	82.56	116	5	15	52	11	26	-1	14	19	20
BB-208 A5 A6	220	91	109	170	133.4	104.8	104.8	5	23	66	14.5	37.5	-1.5	21.5	20.5	30
BB-210 A6 A8	266	100	120	220	171.5	106.38	133.4	5	17	75	8.5	33.5	-10.5	14.5	25	45
BB-212 A11	320	110	126	300	235	196.8	260	6	18	86	8.5	26.5	-15	15	28	50
BB-212   128   A11	320	110	126	300	235	196.8	260	6	22	120	8	30	-15	15	28	50
BB-215 A15	405	133	154	380	330.2	285.775	330.2	6	22	141	11	38	-12	22	39	60
BB-218 A15	457	133	161	380	330.2	285.775	330.2	6	27	166.5	34	61	-11	38	38	-

寸法 Size 型號 Model	K max	L	L1	M	N	P	Q max	Q min	R max	R min	S	T	U	
BB-206 A5	M60×2	6-M10	16	16	37	73	20	35.5	32.8	22.8	9.3	31	12	3-M6
BB-208 A5 A6	M75×2	6-M12	20	17	38	95	25	45.7	42	23.8	11.3	35	14	6-M10 3-M6
BB-210 A6 A8	M95×2	6-M16	22	24	43	110	30	52	47.6	32.3	14.3	40	16	6-M12 3-M8
BB-212 A11	M130×2	6-M20	30	28	51	130	30	74.2	63.5	45.75	15.75	50	21	3-M10
BB-212   128   A11	M135×2	6-M20	30	28	51	130	30	74.2	63.5	45.75	15.75	50	21	3-M10
BB-215 A15	M155×2	6-M24	35	38	63	165	43	93.5	85.7	43.75	18.25	62	22	3-M12
BB-218 A15	M180×3	6-M24	30	33	66	185	43	96.7	85.2	43.75	18.25	62	22	3-M12

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## > BL SERIES

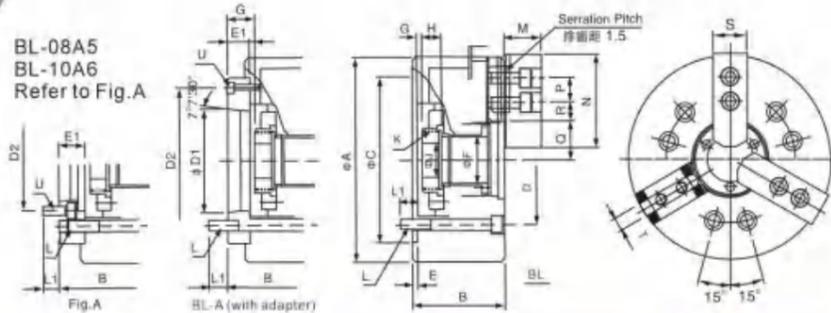
### 超長爪行程動力夾頭(三爪高速中空型)

### 3-JAW EXTRA LONG JAW STROKE THOUGH HOLE POWER CHUCK



- 曲柄型三爪超大貫通孔徑，超長爪行程。
- 摺動面均經硬化及精密研磨，并直接潤滑。
- 安裝連結方式與中空夾頭一樣，且可與之相容互換，不必更改拉杆。
- 高剛性結構及高夾持精度。
- It's a CRANK type 3-jaw with the large through-hole, and extra long jaw stroke.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- Construction of high rigidity and high clamping accuracy.
- The installation is the same as "Through-hole power chuck" and they are replaceable with each other. No need to change the "Draw tube".

BL-08A5  
BL-10A6  
Refer to Fig.A



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke (Dia.) (mm)	夾持直徑 chucking Dia.(mm)		容許油壓缸推力 Max.D.B.Pull KN(kgf)	最大夾持力 Max clamping force KN(kgf)	最高回轉速 max r.p.m	慣性矩 kg·m <sup>2</sup>	重量 (kg)		適合油壓缸 Matched cylinders
			最大Max	最小Min							
BL-05 A4	12	18	135	6	15.6(1590)	17.2(1750)	4200	0.019	7.2	8.0	H-1036
BL-06 A5	15	24	170	18	23.5(2400)	26.0(2650)	3600	0.063	13	14.8	H-1246
BL-08 A5	20	32	215	25	34.3(3500)	35.0(4150)	3000	0.175	23	24.1	H-1552
BL-08 A6			25	29	25.9	24.1					
BL-10 A6	25	37.5	260	47	47.7(4870)	61.0(5700)	2400	0.347	38	45	H-1875
BL-10 A8			43	43.5	43.5						
BL-12 A8	30	45	315	54	64.7(6600)	68.0(7650)	2100	0.827	62	67.5	H-2091
BL-15 A11	35	52	385	50	84.3(8600)	68.0(6930)	1600	2.58	136	143	H-2511

寸法 Size 型號 Model	A	B	C(H6)	D	D1	D2	E	E1	F	Gmax	Gmin	H	J			
														BL-05 A4	135	65
BL-06 A5	168	84	97	140	104.8	82.56	116	5	18	42	6.5	24.5	-8.5	9.5	19	20
BL-08 A5	210	96	118	170	133.4	104.8	150	5	23	52	7	34	-13	14	20	30
BL-08 A6																
BL-10 A6	254	110	130	220	171.5	133.4	190	5	25	70	8	33	-17	8	25	45
BL-10 A8																
BL-12 A8	304	127	140	220	171.5	190	190	5	18	91	15	33	-15	3	28	50
BL-15 A11	385	150	166	300	235	196.87	260	6	22	120	12.5	34.5	-22.5	-0.5	39	60

寸法 Size 型號 Model	K max	L	L1	M	N	P	Q max	Q min	R max	R min	S	T	U	
														BL-05 A4
BL-06 A5	M55x2	6-M10	18	15	37	73	20	25.7	13.75	39	27	31	12	3-M6
BL-08 A5	M60x2	6-M12	18	19	38	95	25	28.25	16.25	49.25	33.25	35	14	6-M10
BL-08 A6			20	38	95	25	28.25	16.25	49.25	33.25	35	14	3-M6	
BL-10 A6	M85x2	6-M16	22	20	43	110	30	35.25	17.25	64.25	45.25	40	16	6-M12
BL-10 A8			25	43	110	30	35.25	17.25	64.25	45.25	40	16	6-M8	
BL-12 A8	M100x2	6-M16	20	19	51	130	30	46.25	19.25	77	54.5	50	21	6-M8
BL-15 A11	M130x2	6-M20	33	31	63	165	43	51.25	27.25	94.25	68.25	62	22	3-M10

● 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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## > BLT SERIES

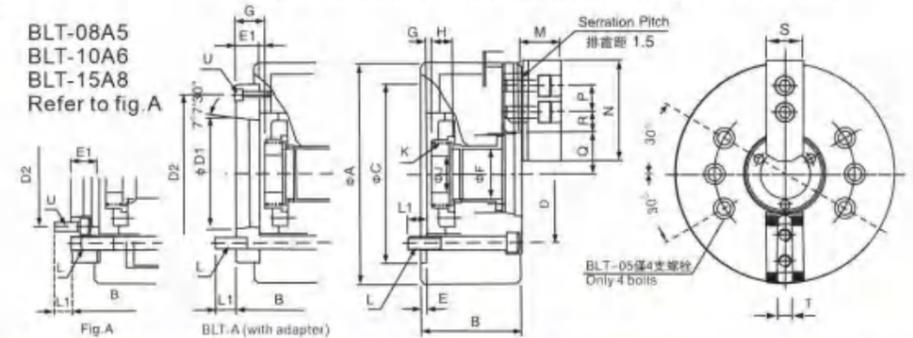
### 超長爪行程動力夾頭

### 2-JAW EXTRA LONG JAW STROKE THOUGH HOLEPOWER CHUCK



- 曲柄型二爪超大貫通孔徑，超長爪行程。
- 摺動面均經硬化及精密研磨，并直接潤滑。
- 高剛性結構及高夾持精度。
- 安裝連結方式與中空夾頭一樣，且可與之相容互換，不必更改拉杆。
- It's a CRANK type 2-jaw with the large through-hole, and extra long jaw stroke.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- Construction of high rigidity and high clamping accuracy.
- The installation is the same as "Through-hole power chuck" and they are replaceable with each other. No need to change the "Draw tube".

BLT-08A5  
BLT-10A6  
BLT-15A8  
Refer to fig.A



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke (Dia.) (mm)	夾持直徑 chucking Dia.(mm)		容許油壓缸推力 Max.D.B.Pull KN(kgf)	最大夾持力 Max clamping force KN(kgf)	最高回轉速 max r.p.m	慣性矩 kg·m <sup>2</sup>	重量 (kg)		適合油壓缸 Matched cylinders	最大使用壓力 Max. pressure Mpa(kgf/cm <sup>2</sup> )
			最大Max	最小Min								
BLT-05 A4	12	18	135	6	10.4 (1060)	11.4(1165)	4200	0.018	6.9	7.7	H-1036	1.6(16)
BLT-06 A5	15	24	168	10	15.7 (1600)	17.2(1760)	3600	0.016	12.0	14.4	H-1246	1.8(18)
BLT-08 A5	20	32	210	10	22.8 (2330)	27(2750)	3000	0.167	22	23.1	H-1552	1.7(17)
BLT-08 A6			25	24.9	23.1							
BLT-10 A6	25	37.5	254	18	31.8 (3240)	37.2(3800)	2400	0.338	37	44	H-1875	1.8(18)
BLT-10 A8			42.5	42.5								
BLT-12 A8	30	45	304	30	43.1 (4400)	50(5100)	2100	0.8	60	65.5	H-2091	1.9(19)
BLT-15 A8	35	52	381	50	56.2 (5370)	60.6(6180)	1600	2.52	133	147	H-2511	1.7(17)
BLT-15 A11			140	140								

寸法 Size 型號 Model	A	B	C(H6)	D	D1	D2	E	E1	F	Gmax	Gmin	H	J			
														BLT-05 A4	135	65
BLT-06 A5	168	84	97	140	104.8	82.56	116	5	18	42	6.5	24.5	-8.5	9.5	19	20
BLT-08 A5	210	96	118	170	133.4	106.38	150	5	23	52	7	34	-13	14	20	30
BLT-08 A6																
BLT-10 A6	254	110	130	220	171.4	133.4	190	5	25	70	8	33	-17	8	25	45
BLT-10 A8																
BLT-12 A8	304	127	140	220	171.4	139.72	190	5	18	91	15	33	-15	3	28	50
BLT-15 A8	381	150	177	300	235	196.87	260	6	33	120	12.5	45.5	-22.5	10.5	39	60
BLT-15 A11																

寸法 Size 型號 Model	K max	L	L1	M	N	P	Q max	Q min	R max	R min	S	T	U	
														BLT-05 A4
BLT-06 A5	M55x2	6-M10	15	15	37	73	20	25.75	16.25	39	27	31	12	3-M6
BLT-08 A5	M60x2	6-M12	17	18	38	95	25	28.25	16.25	49.25	33.25	35	14	6-M10
BLT-08 A6			20	38	95	25	28.25	16.25	49.25	33.25	35	14	3-M6	
BLT-10 A6	M85x2	6-M16	22	18.5	43	110	30	35.25	17.25	64.25	45.25	40	16	6-M12
BLT-10 A8			24	43	110	30	35.25	17.25	64.25	45.25	40	16	6-M12	
BLT-12 A8	M100x2	6-M16	20	17	51	130	30	46.25	19.25	77	54.5	50	21	3-M8
BLT-15 A8	M130x2	6-M20	33	31	63	165	43	51.25	27.25	94.25	68.25	62	22	6-M16
BLT-15 A11			30	63	165	43	51.25	27.25	94.25	68.25	62	22	3-M10	

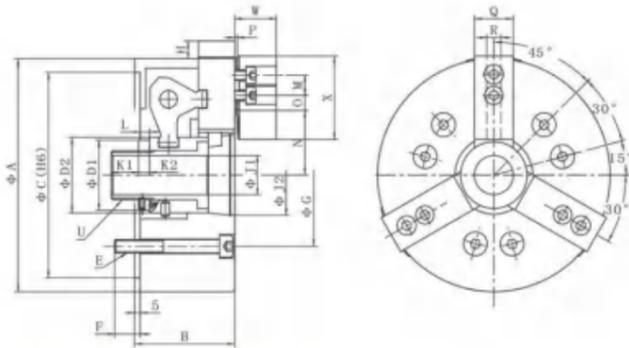
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● 非標準要求可訂做 Non-standard requirements can be made

## > KBL SERIES

### 超大行程三爪卡盤

SUPER LONG STROKE 3 JAW POWER CHUCK

- 此為曲柄型卡盤
- 夾持力大，適用強力車削加工
- It's crank type chuck
- The clamping force is very strong, it's applicable for heavy machining process



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke (Dia.) (mm)	最大夾持直徑 Max. clamping dia. (mm)	最小夾持直徑 Max. clamping dia. (mm)	最大容許油缸推力 Max. D.B. pull KN	最大夾持力 Max. clamping force (KN)	最高回轉速 max r.p.m	最高使用壓力 Max Pressure (Mpa)	重量 Weight (kg)	適用油缸 Matching Cylinder
KBL-206	20	32	165	10	22.6	19.6	3600	2.5	11.5	S-100
KBL-208	25	40	210	28	31.4	27.5	3000	2.5	23.6	S-125
KBL-210	28	42	254	42	37.3	34.3	2400	2.8	34.5	S-125
KBL-212	35	50	304	54	49	48	2100	2.8	60.8	S-150

規格 Spec 型號 Model	A	B	C(H7)	D1	D2	E	F	G	H max	J1	J2(H9)	K1
KBL-206	165	80	140	45	54	6-M10	16	104.8	10	21	60	20
KBL-208	215	93	170	65	74	6-M12	20	133.4	11.5	36	80	25
KBL-210	254	111	220	82	96	6-M12	17	171.4	13	55	105	25
KBL-212	304	130	220	92	102	6-M16	22	171.4	15	62	110	30

規格 Spec 型號 Model	K2	L	M	N	O	P	Q	R	T	U	W	X
KBL-206	10	-2--18	20	23.8--39.8	9--30	3	31	12	43	M30*2	37	73
KBL-208	10	-4--21	25	33.8--53.8	10--35	5	35	14	55	M45*2	40	95
KBL-210	12	-2--26	30	46.3--67.3	13.5--37.5	5	40	16	62	M65*2	45	110
KBL-212	14	-3.5--31.5	30	48.3--73.3	14--52	5	50	21	77	M72*2	53	130

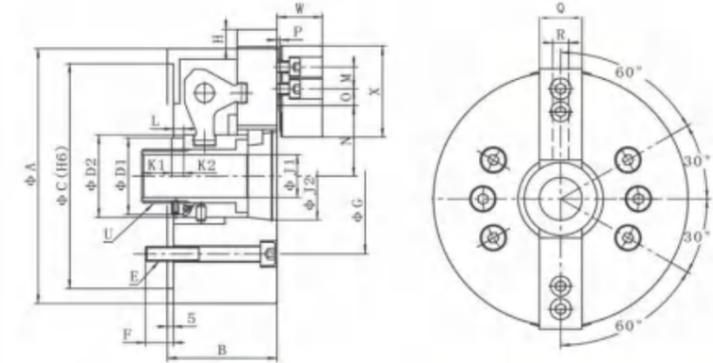
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非標準需求可訂做 Non-standard requirements can be made

## > KBLT SERIES

### 超大行程二爪卡盤

SUPER LONG STROKE 2 JAW POWER CHUCK

- 此為曲柄型卡盤
- 夾持力大，適用強力車削加工
- It's crank type chuck
- The clamping force is very strong, it's applicable for heavy machining process



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke (Dia.) (mm)	最大夾持直徑 Max. clamping dia. (mm)	最小夾持直徑 Max. clamping dia. (mm)	最大容許油缸推力 Max. D.B. pull KN	最大夾持力 Max. clamping force (KN)	最高回轉速 max r.p.m	最高使用壓力 Max Pressure (Mpa)	重量 Weight (kg)	適用油缸 Matching Cylinder
KBLT-206	20	32	165	10	18.1	12.6	3600	1.9	11.8	S-100
KBLT-208	25	40	210	28	20.1	18.5	3000	1.6	23.3	S-125
KBLT-210	28	42	254	42	29.5	26.3	2400	1.9	34	S-125
KBLT-212	35	50	304	54	36	35	2100	1.8	60.2	S-150

規格 Spec 型號 Model	A	B	C(H7)	D1	D2	E	F	G	H Max	J1	J2(H9)	K1
KBLT-206	165	80	140	45	54	6-M10	16	104.8	10	21	60	20
KBLT-208	215	93	170	65	74	6-M12	20	133.4	11.5	36	80	25
KBLT-210	254	111	220	82	96	6-M12	17	171.4	13	55	105	25
KBLT-212	304	130	220	92	102	6-M16	22	171.4	15	62	110	30

規格 Spec 型號 Model	K2	L	M	N	O	P	Q	R	T	U	W	X
KBLT-206	10	-2--18	20	23.8--39.8	9--30	3	31	12	43	M30*2	37	73
KBLT-208	10	-4--21	25	33.8--53.8	10--35	5	35	14	55	M45*2	40	95
KBLT-210	12	-2--26	30	46.3--67.3	13.5--37.5	5	40	16	62	M65*2	45	110
KBLT-212	14	-3.5--31.5	30	48.3--73.3	14--52	5	50	21	77	M72*2	53	130

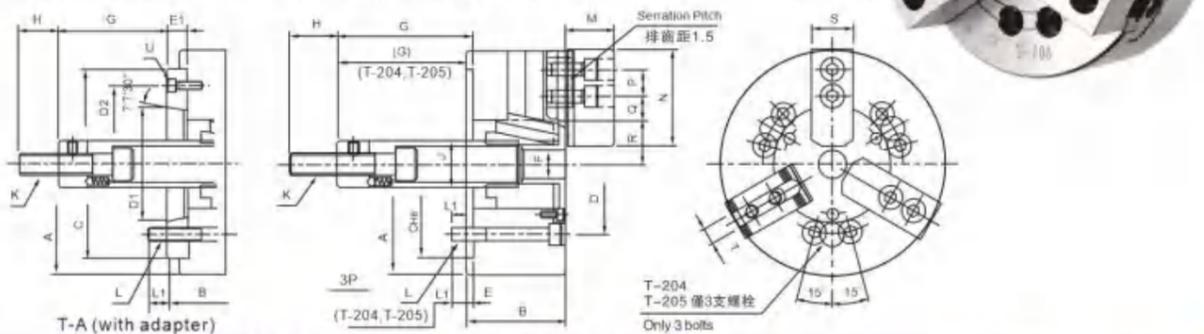
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## > T SERIES

### 中實動力夾頭(三爪高速中實型)

### 3-JAW NON THRU POWER CHUCK

- 楔形三爪中實夾頭。
- 折動面均經硬化及精密研磨，并直接潤滑。
- 高剛性結構及高夾持精度。
- It's a WEDGE-HOOK type 3-jaw power chuck.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- Construction of high rigidity and high clamping accuracy.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke (Dia.) (mm)	夾持直徑 chucking Dia.(mm)		容許油壓缸推力 Max.D.B.Pull (kgf)	最大夾持力 Max clamping force (kgf)	最高回轉速 max r.p.m.	慣性矩 kg·m <sup>2</sup>	重量 (kg)	適合油壓缸 Matched cylinders
			最大Max	最小Min						
T-204	15	6.9	110	5	830	2300	6000	0.01	3.8	S-85
T-205	15	6.9	135	14	830	2550	5500	0.02	6.5 7.3	S-80
T-206 A5	20	9.2	165	14	1830	5350	5250	0.06	11.5 13.3	S-100
T-208 A5	21	9.7	210	17	2550	7600	4750	0.17	21.3 24.2	S-125
T-208 A6	21	9.7	210	17	2550	7600	4750	0.17	21.3 22.4	S-125
T-210 A6	25	8.8	254	22	2950	11000	4000	0.31	33.5 40.5	S-125
T-210 A8	25	8.8	254	22	2950	11000	4000	0.31	33.5 39	S-125
T-212 A8	30	10.5	304	34	4180	15900	3360	0.70	59.7 62.7	S-150
T-215 A11	35	16	381	50	8360	25350	3000	2.23	115 122	S-200

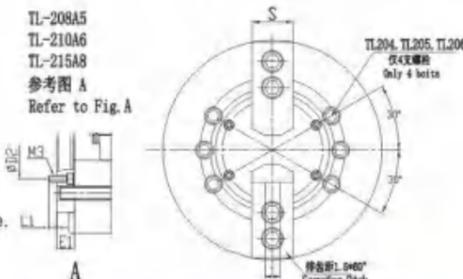
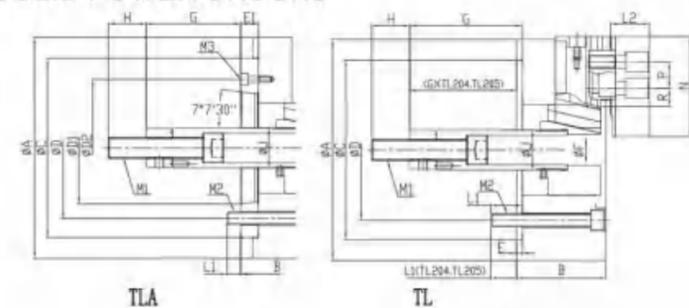
寸法 Size 型號 Model	A	B	C(H6)	D	D1	D2	E	E1	F	G		H	J	
										max	min			
T-204	110	52	60	80	-	-	6	-	-	18	3	25	26	
T-205	135	55	80	100	-	-	7	-	-	9	-6	35	28	
T-206 A5	165	74	84	140	104.8	82.56	116	5	15	21	101.5	86.5	81.5	66.6
T-208 A5	210	85	103	170	133.4	82.56	104.8	5	23	25	127	104	106	83
T-208 A6	210	85	97	170	133.4	106.38	150	5	17	25	127	110	106	89
T-210 A6	254	89	109	220	171.5	106.38	133.4	5	25	34	158	133	133	108
T-210 A8	254	89	102	220	171.5	139.72	190	5	18	34	158	140	133	115
T-212 A8	304	106	118	220	171.5	139.72	190	6	18	34	163	145	133	115
T-215 A11	381	114	130	300	235	196.87	260	6	22	34	104	82	69	47

寸法 Size 型號 Model	K max	L	L1	M	N	P	Q max	Q min	R max	R min	S	T	U
T-205	M12×1.75	3-M8	14	-	31	62	14	13.5	6	30.4	27.2	25	10
T-206 A5	M16×2	6-M10	14	14	39	73	20	18	7.5	37.8	33.5	31	12
T-208 A5	M20×2.5	6-M12	20	18	41	95	25	22.3	11.8	46.3	41.9	35	14
T-208 A6	M20×2.5	6-M12	20	18	41	95	25	22.3	11.8	46.3	41.9	35	14
T-210 A6	M20×2.5	6-M12	18	18	46	110	30	30.8	11.3	51.1	46.7	40	16
T-210 A8	M20×2.5	6-M16	18	25	46	110	30	30.8	11.3	51.1	46.7	40	16
T-212 A8	M20×2.5	6-M16	18	25	54	130	43	48.8	12.3	61	55.8	50	18
T-215 A11	M30×2.5	6-M20	30	33	63	165	43	48.8	23.3	77.5	69.5	62	25.5

● 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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## > TL SERIES 2-JAW SOLID POWER CHUCKS

### 二爪中實油壓夾頭



- 二爪楔形中實動力夾頭，適用於夾持不規則工件。
- 夾頭滑動面經硬化處理及精密研磨，并直接潤滑。
- 高剛性、高精度及高轉速。
- It's wedge-hook type 2 jaw closed center power chuck. Suitable for irregular workpiece.
- Matching surfaces of all parts are hardened, ground and lubricated directly.
- Construction of high rigidity and high clamping accuracy and high rotary speed.

規格 Spec 型號 Model	A	B	C(H6)	D	D1	D2	E	E1	F	G		H	J	
										Max	Min			
TL-204	110	52	60	80	-	-	6	-	-	18	3	25	26	
TL-205	135	55	80	100	-	-	7	-	-	9	-6	35	28	
TL-208 A5	165	74	84	140	104.8	82.56	116	5	15	21	101.5	86.5	81.5	66.6
TL-208 A5	210	85	103	170	133.4	82.56	104.8	5	23	25	127	104	106	83
TL-208 A6	210	85	97	170	133.4	106.38	150	5	17	25	127	110	106	89
TL-210 A6	254	89	109	220	171.4	106.38	133.4	5	25	34	158	133	133	108
TL-210 A8	254	89	102	220	171.4	139.72	190	5	18	34	158	140	133	115
TL-212 A8	304	106	118	220	171.4	139.72	190	6	18	34	163	145	133	115
TL-215 A8	381	114	141	300	235	139.72	171.4	6	33	-	104	71	69	36
TL-215 A11	381	114	130	300	235	196.87	260	6	22	-	104	82	69	47

規格 Spec 型號 Model	L1	L2	M1	M2	M3	N	P	R		S	T
								max	min		
TL-204	12	25	M10×1.5	4-M8	-	52	14	11.3	8.3	25	10
TL-205	14	32	M12×1.75	4-M8	-	62	14	13.5	6	25	10
TL-206 A5	14	14	M16×2	4-M10	4-M6	73	20	18	7.5	31	12
TL-208 A5	20	17	M20×2.5	6-M12	6-M10	95	25	22.3	11.8	35	14
TL-208 A6	20	18	M20×2.5	6-M12	4-M6	95	25	22.3	11.8	35	14
TL-210 A6	18	18	M20×2.5	6-M16	6-M12	110	30	30.8	11.3	40	16
TL-210 A8	18	25	M20×2.5	6-M16	4-M8	110	30	30.8	11.3	40	16
TL-212 A8	22	25	M20×2.5	6-M16	4-M8	130	30	48.8	12.3	50	18
TL-215 A8	30	29	M30×3.5	6-M20	6-M16	165	43	48.8	23.3	62	25.5
TL-215 A11	30	33	M30×3.5	6-M20	4-M10	165	43	48.8	23.3	62	25.5

規格 Spec 型號 Model	楔心行程 Plunger stroke mm	爪行程(直徑) Jaw stroke (Dia.) mm	容許推力 Max pull force KN(kgf)	最大夾持力 Max. Gripping force KN(kgf)	極限轉速 Max. Speed r/min	夾持範圍 Gripping range mm	慣量 Moment of inertial Kg·m <sup>2</sup>	重量 Weight Kg	適用油缸 Matching cylinder	最大使用壓力 Max pressure Mpa(kg/cm <sup>2</sup> )
TL-205	15	6.9	5.3(540)	16.7(1700)	5500	14-135	0.02	6.2	S-80	1.9 (19)
TL-206 A5	20	9.2	12(1220)	35(3570)	5250	14-165	0.05	13 14	S-100	1.7 (17)
TL-208 A5	21	9.7	16.5(1680)	50(5100)	4750	17-210	0.14	24 28	S-125	1.5 (15)
TL-208 A6	21	9.7	16.5(1680)	50(5100)	4750	17-210	0.14	24 27	S-125	1.5 (15)
TL-210 A6	25	8.8	19.4(1980)	71.5(7300)	4000	22-254	0.30	35 42	S-125	1.8 (18)
TL-210 A8	25	8.8	19.4(1980)	71.5(7300)	4000	22-254	0.73	35 40	S-125	1.8 (18)
TL-212 A8	30	10.5	27.4(2800)	103.0(10600)	3360	22-304	0.73	59 63	S-150	1.8 (18)
TL-215 A8	35	16	54.9(5600)	164.6(16800)	3000	50-381	1.95	100 114	S-200	1.9 (19)
TL-215 A11	35	16	54.9(5600)	164.6(16800)	3000	50-381	1.95	100 107	S-200	1.9 (19)

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## > 4T SERIES

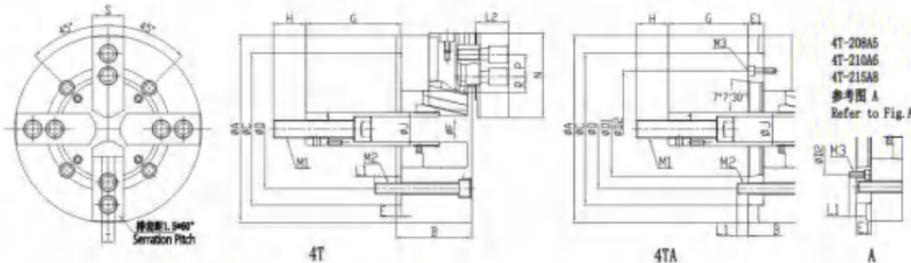
### 中實動力夾頭(四爪高速中實型)

### 4-JAW NON THROUGH HOLE POWER CHUCK



It's applicable for clamping irregular shape parts

- 模形四爪中實卡盤，特別適合异形物的夾持。
- 摺動面均經硬化及精密研磨，并直接潤滑。
- 高剛性結構及高夾持精度。
- It's a wedge four claws solid chuck.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- Construction of high rigidity and high clamping accuracy.



規格 Spec 型號 Model	A	B	C(h6)	D	D1	D2	E	E1	F	G				H	J		
										Max	Min						
4T-06	A5	165	74	84	140	104.8	82.56	116	5	15	21	101.5	86.5	81.5	66.5	36	34
4T-08	A5	210	85	103	170	133.4	82.56	104.8	5	23	25	127	104	106	83	36	38
4T-08	A6	210	85	97	170	133.4	106.38	150	5	17	25	127	110	106	89	36	38
4T-10	A6	254	89	109	220	171.4	106.38	133.4	5	25	34	158	133	133	108	36	45
4T-10	A8	254	89	102	220	171.4	139.72	190	5	18	34	158	140	133	115	36	45
4T-12	A8	304	106	118	220	171.4	139.72	190	6	18	34	163	145	133	115	36	50
4T-15	A8	381	114	141	300	235	139.72	171.4	6	33	-	104	71	69	36	55	60
4T-15	A11	381	114	130	300	235	196.87	260	6	22	-	104	82	69	47	55	60

規格 Spec 型號 Model	L1	L2	M1	M2	M3	N	P	R		S	T		
								max	min				
4T-06	A5	14	14	39	M16×2	4-M10	4-M6	73	20	18	7.5	31	12
4T-08	A5	20	17	41	M20×2.5	4-M12	4-M10	95	25	22.3	11.8	35	14
4T-08	A6	20	18	41	M20×2.5	4-M12	4-M6	95	25	22.3	11.8	35	14
4T-10	A6	18	18	46	M20×2.5	4-M16	4-M12	110	30	30.8	11.3	40	16
4T-10	A8	18	25	46	M20×2.5	4-M16	4-M8	110	30	30.8	11.3	40	16
4T-12	A8	22	25	54	M20×2.5	4-M16	4-M8	130	30	48.8	12.3	50	18
4T-15	A8	30	29	63	M30×3.5	4-M20	4-M16	165	43	48.8	23.3	62	25.5
4T-15	A11	30	33	63	M30×3.5	4-M20	4-M10	165	43	48.8	23.3	62	25.5

規格 Spec 型號 Model	楔心行程 Plunger stroke mm	卡爪行程(直徑) Jaw stroke(Dia.) mm	許用推力 Max. pull force KN(kgf)	最大夾緊力 Max. Gripping force KN(kgf)	極限轉速 Max. Speed r/min	夾緊範圍 Gripping range mm	慣量 Moment of inertial Kg.m <sup>2</sup>	重量 Weight Kg	適用油缸 Matching cylinder	最大使用壓力 Max. pressure Mpa(kgf/cm <sup>2</sup> )
4T-06	A5	20	9.2	17.9(1830)	52.4(5350)	14-165	0.05	13 14	S-100	2.5 ( 25 )
4T-08	A5	21	9.7	25(2550)	74.5(7600)	17-210	0.14	24 28	S-125	2.3 ( 23 )
4T-08	A6	21	9.7	25(2550)	74.5(7600)	17-210	0.14	24 27	S-125	2.6 ( 26 )
4T-10	A6	25	8.8	28.9(2950)	107.8(11000)	22-254	0.30	35 42	S-125	2.6 ( 26 )
4T-10	A8	25	8.8	28.9(2950)	107.8(11000)	22-254	0.30	35 40	S-125	2.6 ( 26 )
4T-12	A8	30	10.5	41(4180)	155.8(15900)	22-304	0.73	59 63	S-125	2.6 ( 26 )
4T-15	A8	35	16	82(8360)	248.4(25350)	3000	1.95	100 114	S-200	3.2 ( 32 )
4T-15	A11	35	16	82(8360)	248.4(25350)	3000	1.95	100 107	S-200	3.2 ( 32 )

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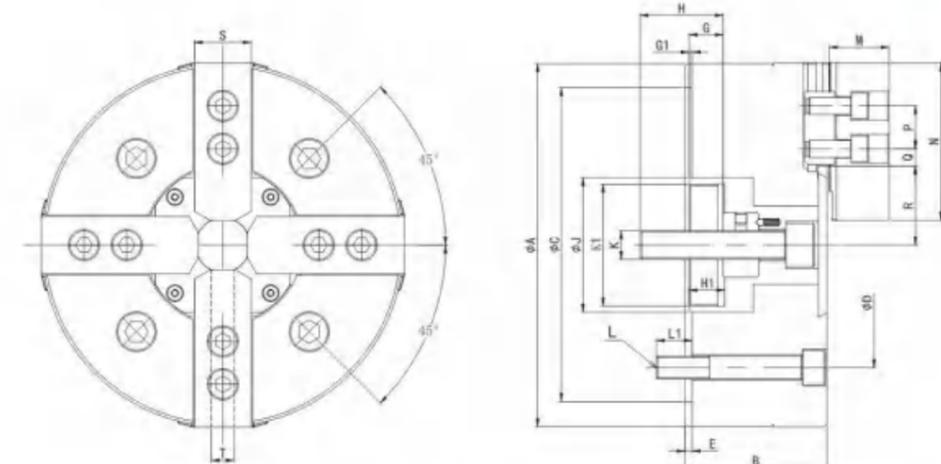
## > 4TT SERIES

### 四爪雙動夾頭

### 4-JAW TWO-TWO MOTION POWER CHUCK

- 曲柄型兩兩動作夾頭
- 適用於方形或异形工件

It's a crank type chuck with independent motion of each two jaws.  
It's applicable for clamping square bar or other special shape workpiece.



型號/Model	楔心行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke (dia.) (mm)	最大夾持直徑 Max clamping dia. (mm)	最小夾持直徑 Min. clamping dia. (mm)	最大容許油壓缸推力 Max. D.B. pull KN	最大夾持力 Max. clamping force KN	最高回轉數 Max RPM	最高使用壓力 Max Pressure (Mpa)	重量 Weight (kg)	適用油缸 Matching Cylinder
4TT-08	17	13.6	210	24	16.0	54.3	3000	1.7	23.2	SRD-120N
4TT-10	20	16	254	50	21.6	79.4	2100	2.2	44.3	SRD-125N
4TT-12	20	16	304	50	21.6	79.4	1500	2.2	57.6	SRD-125N
4TT-15	25	19.6	381	60	27.2	105.3	1200	2.7	118.3	SRD-125N

型號/Model	A	B	C(H6)	D	E	G Max.	G Min.	G1 Max.	G1 Min.	H	H1	J	K
4TT-08	210	91	170	133.4	5	32	15	2.5	-14.5	29	20	61	M14*2
4TT-10	254	110	220	171.4	5	36.5	16.5	10	-10	36	23	90	M16*2
4TT-12	304	110	220	171.4	5	36.5	16.5	10	-10	36	23	90	M16*2
4TT-15	381	135	300	235	6	44.5	19.5	5	-20	45	28	125	M20*2.5

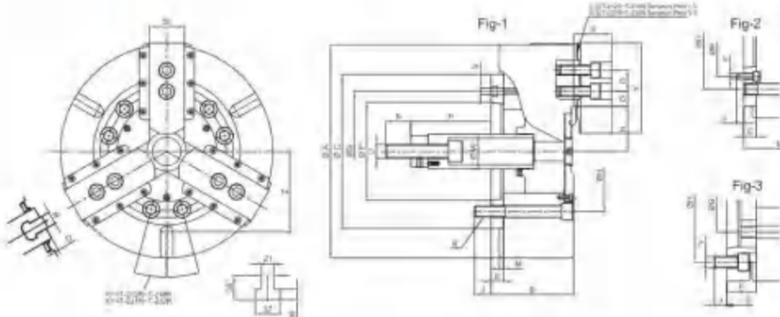
型號/Model	K1	L	L1	M	N	P	Q Max.	Q Min.	R Max.	R Min.	S	T
4TT-08	M34*1.5	4-M12	20	38	95	25	25.25	13.25	46.1	39.3	35	14
4TT-10	M45*1.5	4-M16	25	43	110	30	32.25	12.75	59	51	40	16
4TT-12	M45*1.5	4-M16	25	43	110	30	54.75	15.75	59	51	40	16
4TT-15	M55*2	4-M20	30	51	130	30	66.5	12.5	78.9	69.1	50	21

\* 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
\* 非標需求可訂做 Non-standard requirements can be made

## > T-R SERIES

### 三爪中實油壓夾頭

### 3-JAW SOLID POWER CHUCKS



- T-R系列立式車卡盤適用於立式車床，盤體端面有密封，可防止鐵屑、切削水進入卡盤內部，延長卡盤的使用壽命，還可根據用戶特殊要求進行三、四、六爪的設計。法蘭盤也有密封，防止切削水進入機床主軸內，並可根據要求配各種形式的法蘭。
- The T-R series vertical lathe chuck is suitable for vertical lathes. The end face of the chuck body is sealed to prevent iron chips and cutting water from entering the chuck interior, extending the service life of the chuck. Three, four, and six claw designs can also be made according to user specific requirements. The flange also has a seal to prevent cutting water from entering the machine tool spindle, and can be adjusted according to requirements. Equipped with various forms of flanges.

規格 Spec 型號 Model	爪數	拉桿行程 (mm)	爪行程直徑 (mm)	最大容許拉力 (Kgf)	最大夾持力 (Kgf)	最大使用壓力 (kgf/cm <sup>2</sup> )	最高轉速 (r.p.m.)	重量 (kg)	慣性矩 kg·m <sup>2</sup>	適合油壓缸	外徑夾持範圍 (mm)
T-212RA6	3	30	16	5302	14276	35.7	3000	67.7	0.774	S150	Φ32-Φ304
T-212RA8	3	30	16	5302	14276	35.7	3000	65.6	0.764	S150	Φ32-Φ304
T-212RA11	3	30	16	5302	14276	35.7	3000	74.1	0.902	S150	Φ32-Φ304
T-215RA8	3	35	18.7	9585	25798	35.7	2800	120.4	2.146	S200	Φ68-Φ381
T-215RA11	3	35	18.7	9585	25798	35.7	2800	113.4	2.016	S200	Φ68-Φ381
T-215RA15	3	35	18.7	9585	25798	35.7	2800	133	2.572	S200	Φ68-Φ381
T-218RA8	3	35	18.7	9585	25798	35.7	2300	144.5	3.507	S200	Φ78-Φ450
T-218RA11	3	35	18.7	9585	25798	35.7	2300	137.5	3.43	S200	Φ78-Φ450
T-218RA15	3	35	18.7	9585	25798	35.7	2300	157.5	3.945	S200	Φ78-Φ450
T-221RA8	3	35	16	9075	28450	33.7	1940	198	6.46	S200	Φ65-Φ530
T-221RA11	3	35	16	9075	28450	33.7	1940	190	6.35	S200	Φ65-Φ530
T-221RA15	3	35	16	9075	28450	33.7	1940	184	6.28	S200	Φ65-Φ530
T-224RA8	3	35	16	9075	28450	33.7	1760	240	10.54	S200	Φ152-Φ610
T-224RA11	3	35	16	9075	28450	33.7	1760	233	10.44	S200	Φ152-Φ610
T-224RA15	3	35	16	9075	28450	33.7	1760	227	10.36	S200	Φ152-Φ610
T-232RA11(41)	3	35	18.7	9585	25798	35.7	1060	399	31.6	S200	Φ100-Φ810
T-232RA15	3	35	18.7	9585	25798	35.7	1060	383	30.82	S200	Φ100-Φ810
T-232RA20	3	35	18.7	9585	25798	35.7	1060	419	32.69	S200	Φ100-Φ810

規格 Spec 型號 Model	A	B	C	D	E	F	G	H	J	K	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Z1	參考圖		
T-212RA6	304	125	220	30	25	106.375	171.45	133.35	18	6-M16	6	64	45.75	12.75	138	108	5.5	18	36	50	M20x2.5	6-M12	50	54.5	130	-	Fig2	
T-212RA8	304	118	220	30	18	139.719	190	171.45	24	6-M16	6	64	45.75	12.75	113	83	5.5	18	36	50	M20x2.5	3-M8	50	54.5	130	-	Fig1	
T-212RA11	304	150	220	30	50	196.869	171.45	235	28	6-M16	6	64	45.75	12.75	113	83	5.5	18	36	50	M20x2.5	6-M20	50	54.5	130	-	Fig3	
T-215RA8	381	141	300	43	33	139.719	235	171.45	24	6-M20	6	78	49.75	24.25	71	38	5.5	25.5	55	62	M30x3.5	6-M18	60	66.5	165	-	Fig2	
T-215RA11	381	130	300	43	22	196.869	260	235	32	6-M20	6	78	49.75	24.25	82	47	5.5	25.5	55	62	M30x3.5	3-M10	60	66.5	165	-	Fig1	
T-215RA15	381	165	300	43	57	285.775	235	330.2	20	6-M20	6	78	49.75	24.25	47	12	5.5	25.5	55	62	M30x3.5	6-M24	60	66.5	165	-	Fig3	
T-218RA8	450	141	300	43	33	139.719	235	171.45	24	6-M20	6	92	70.75	24.25	59	24	5.5	25.5	55	62	M30x3.5	6-M18	60	66.5	165	158	22	Fig2
T-218RA11	450	130	300	43	22	196.869	260	235	32	6-M20	6	92	70.75	24.25	70	35	5.5	25.5	55	62	M30x3.5	3-M10	60	66.5	165	158	22	Fig1
T-218RA15	450	165	300	43	57	285.775	235	330.2	20	6-M20	6	92	70.75	24.25	35	0	5.5	25.5	55	62	M30x3.5	6-M24	60	66.5	165	158	22	Fig3
T-221RA8	530	154	380	60	33	139.719	330.2	171.45	24	6-M24	6	87	93.5	27.5	64	29	9	25	55	64	M30x3.5	9-M18	60	77	180	155	22	Fig2
T-221RA11	530	148	380	60	27	196.869	330.2	235	30	6-M24	6	87	93.5	27.5	70	35	9	25	55	64	M30x3.5	6-M20	60	77	180	155	22	Fig2
T-221RA15	530	148	380	60	27	285.775	330.2	330.2	33	6-M24	6	87	93.5	27.5	70	35	9	25	55	64	M30x3.5	3-M12	60	77	180	155	22	Fig1
T-224RA8	610	154	380	60	33	139.719	330.2	171.45	24	6-M24	6	128.5	93.5	27.5	64	29	9	25	55	64	M30x3.5	9-M18	60	77	180	165.1	22	Fig2
T-224RA11	610	148	380	60	27	196.869	330.2	235	30	6-M24	6	128.5	93.5	27.5	70	35	9	25	55	64	M30x3.5	6-M20	60	77	180	165.1	22	Fig2
T-224RA15	610	148	380	60	27	285.775	330.2	330.2	33	6-M24	6	128.5	93.5	27.5	70	35	9	25	55	64	M30x3.5	3-M12	60	77	180	165.1	22	Fig1
T-232RA11(41)	810	170	380	80	41	196.869	330.2	235	30	6-M24	6	104.8	196.5	25.5	47	12	5	25	56	74	M30x3.5	6-M20	60	93	210	165.1	22	Fig2
T-232RA15	810	156	380	80	27	285.775	330.2	330.2	33	6-M24	6	104.8	196.5	25.5	47	12	5	25	56	74	M30x3.5	3-M12	60	93	210	165.1	22	Fig1
T-232RA20	810	187	520	80	28	412.775	330.2	463.6	35	6-M24	6	104.8	196.5	25.5	16	-19	5	25	55	74	M30x3.5	6-M24	60	93	210	165.1	22	Fig3

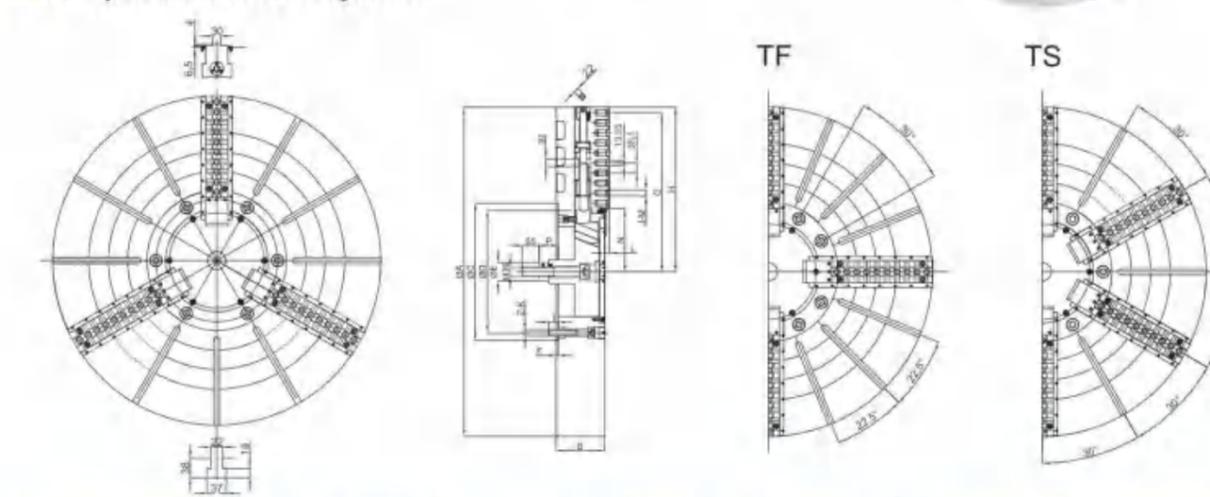
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## > T-R SERIES

### T-R大型中實可調油壓夾頭

### LARGE WEDGE TYPE NON THROUGH-HOLE POWER CHUCK (ADAPTER EXCLUDED)

- 適用於超大型工件，徑或外徑之夾持。
- 夾頭正面滑道處加裝防護裝置，適合立車上使用。
- 具有單動調整底爪行程功能，可夾持大型不規則工件。
- Chucking operations of very large components external internal clamping.
- Suitable for vertical lathe, due to the front protection of internal clamping.
- Master jaw with manual radial setting function.



型號/規格	爪數	根心行程 (mm)	卡爪半行程+ (單動調整) (mm)	最大推拉力 (kgf)	最大夾緊力 (kgf)	最高轉速 r.p.m	卡爪形式	配用油缸
T-240R	3	57	15.2+30	18300	32600	500	十字鍵	S-250R
TF-240R	4	57	15.2+30	18300	32600	400	十字鍵	S-250R
TS-240R	6	57	15.2+30	18300	32600	350	十字鍵	S-250R
T-250R	3	57	15.2+30	18300	32600	400	十字鍵	S-250R
TF-250R	4	57	15.2+30	18300	32600	350	十字鍵	S-250R
TS-250R	6	57	15.2+30	18300	32600	300	十字鍵	S-250R
T-255R	3	57	15.2+30	18300	32600	250	十字鍵	S-250R
T-263R	3	60	16+30	20400	32700	200	十字鍵	S-250R
TF-263R	4	60	16+30	20400	32700	180	十字鍵	S-250R
TS-263R	6	60	16+30	20400	32700	120	十字鍵	S-250R
T-279R	3	60	16+30	20400	32700	100	十字鍵	S-250R
T-298R	3	60	16+30	20400	32700	50	十字鍵	S-250R

型號/規格	A	B	C	D	E	F	G MAX	H MAX	I	Z-K	L	N MAX MIN		P	J-M
T-240R	1000	217	520	463.6	70	8	479	500	42	6-M24	20	230	184.8	41	7-M24
TF-240R	1000	217	520	463.6	70	8	479	500	42	6-M24	20	230	184.8	41	7-M24
TS-240R	1000	217	520	463.6	70	8	479	500	42	6-M24	20	230	184.8	41	7-M24
T-250R	1250	217	520	463.6	70	8	599	625	35	6-M24	20	230	184.8	41	10-M24
TF-250R	1250	217	520	463.6	70	8	599	625	35	6-M24	20	230	184.8	41	10-M24
TS-250R	1250	217	520	463.6	70	8	599	625	35	6-M24	20	230	184.8	41	106-M24
T-255R	1400	220	720	647.6	70	8	674	700	43	6-M30	20	208.5	163.3	41	12-M24
T-263R	1600	220	720	647.6	70	8	772	800	44	6-M30	20	249	203	33	14-M24
TF-263R	1600	220	720	647.6	70	8	772	800	44	6-M30	20	249	203	33	14-M24
TS-263R	1600	220	720	647.6	70	8	772	800	44	6-M30	20	249	203	33	14-M24
T-279R	2000	238	720	647.6	70	8	965	1000	48	6-M30	20	249	203	40	19-M24
T-298R	2500	260	1020	956	70	8	1191	1250	50	12-M30	20	249	203	40	26-M24

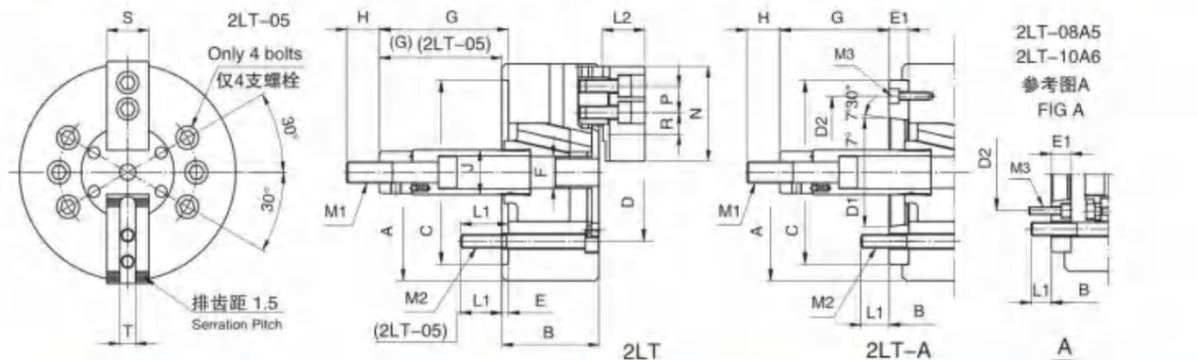
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## > 2LT SERIES

### 二爪長行程中實油壓卡盤

#### 2 JAW LONG STROKE CLOSED CENTER POWER CHUCK

- 1 二爪超大行程動力夾頭
- 2 夾頭滑動面經硬化處理及精密研磨，并直接潤滑。
- 3 高剛性、高精度及高轉速。
- 4 2 jaw very long stroke closed center power chuck
- 5 Matching surfaces of all parts are hardened, ground and lubricated directly
- 6 Construction of high rigidity and high clamping accuracy and high rotary speed.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	直徑夾持範圍 Clamping Range Dia (mm)	容許油壓缸推力 Max. D.B. pull KN (Kgf)	最大夾持力 Max. clamping force KN (Kgf)	最高轉速 Max RPM	慣性矩 I Kg·m <sup>2</sup>	重量 Weight (Kg)	適合油缸 Matching Cylinder	最大使用壓力 Max. pressure Mpa (Kg/cm <sup>2</sup> )
2LT-05	15	10.9	14-135	6.5(660)	11(1120)	4500	0.02	6.5	S-80	1.6(16)
2LT-06A5	20	14.5	14-165	14.3(1460)	24(2450)	4000	0.05	14	S-100	2.0(20)
2LT-08A5	23	16.7	17-210	19.6(2000)	36.6(3730)	3500	0.14	28	S-125	1.9(19)
2LT-08A6	23	16.7	17-210	19.6(2000)	36.6(3730)	3500	0.14	27	S-125	1.9(19)
2LT-10A6	27	19.6	22-254	26.1(2660)	49.3(5030)	3000	0.30	42	S-150	1.9(19)
2LT-10A8	27	19.6	22-254	26.1(2660)	49.3(5030)	3000	0.30	40	S-150	1.9(19)
2LT-12A8	30	21.8	26-304	36(3670)	66(6730)	2500	0.73	63	S-150	2.4(24)

規格 Spec 型號 Model	A	B	B(Ap)	C(H6)	D	D1	D2	E	E1	F	G max	G max(Ap)	G min	G min(Ap)	H
2LT-05	135	55	55	80	100	-	-	7	-	-	9	9	-6	-6	35
2LT-06A5	165	74	84	140	104.8	82.56	116	5	15	21	101.5	86.5	81.5	66.5	36
2LT-08A5	210	85	103	170	133.4	82.56	104.8	5	23	25	127	104	-104	81	36
2LT-08A6	210	85	97	170	133.4	106.38	150	5	17	25	127	110	-104	87	36
2LT-10A6	254	89	109	220	171.4	106.38	133.4	5	25	34	160	133	133	106	36
2LT-10A8	254	89	102	220	171.4	139.72	190	5	18	34	160	142	133	115	36
2LT-12A8	304	106	118	220	171.4	139.72	190	6	18	34	163	145	133	115	36

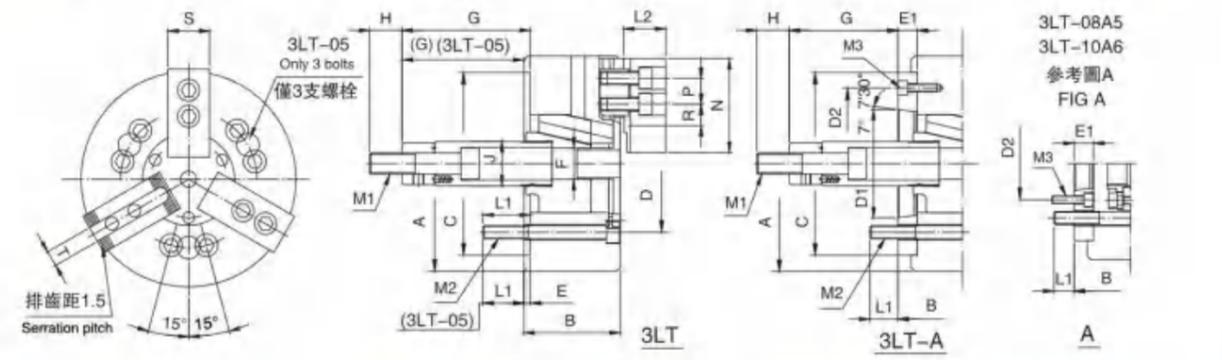
規格 Spec 型號 Model	J	L1	L1(Ap)	L2	M1	M2	M3	N	P	R max	R min	S	T
2LT-05	28	14	14	32	M12X1.75	3-M8	-	62	14	13.5	6	25	10
2LT-06A5	34	14	14	39	M16X2	4-M10	4-M6	73	20	18	7.5	31	12
2LT-08A5	38	20	17	41	M20X2.5	6-M12	6-M10	95	25	22.3	11.8	35	14
2LT-08A6	38	20	18	41	M20X2.5	6-M12	4-M6	95	25	22.3	11.8	35	14
2LT-10A6	45	18	18	46	M20X2.5	6-M16	6-M12	110	30	30.8	11.3	40	16
2LT-10A8	45	18	25	46	M20X2.5	6-M16	4-M8	110	30	30.8	11.3	40	16
2LT-12A8	50	22	25	54	M20X2.5	6-M16	4-M8	130	30	48.8	12.3	50	18

## > 3LT SERIES

### 三爪長行程中實油壓卡盤

#### 3 JAW LONG STROKE CLOSED CENTER POWER CHUCK

- 1 三爪超大行程中實動力夾頭
- 2 夾頭滑動面經硬化處理及精密研磨，并直接潤滑。
- 3 高剛性、高精度及高轉速。
- 4 3 jaw very long stroke closed center power chuck
- 5 Matching surfaces of all parts are hardened, ground and lubricated directly
- 6 Construction of high rigidity and high clamping accuracy and high rotary speed.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	直徑夾持範圍 Clamping Range Dia. (mm)	容許油壓缸推力 Max. D.B. pull KN (Kgf)	最大夾持力 Max. clamping force KN (Kgf)	最高轉速 Max RPM	慣性矩 I Kg·m <sup>2</sup>	重量 Weight (Kg)	適合油缸 Matching Cylinder	最大使用壓力 Max. pressure Mpa (Kg/cm <sup>2</sup> )
3LT-05	15	10.9	14-135	9.8(1000)	16.4(2550)	4500	0.02	6.5	S-80	2.3(23)
3LT-06A5	20	14.5	14-165	21.6(2200)	36(3680)	4000	0.05	14	S-100	3.0(30)
3LT-08A5	23	16.7	17-210	29.4(3000)	54.9(5600)	3500	0.14	28	S-125	2.9(29)
3LT-08A6	23	16.7	17-210	29.4(3000)	54.9(5600)	3500	0.14	27	S-125	2.9(29)
3LT-10A6	27	19.6	22-254	39.2(4000)	74(7550)	3000	0.30	42	S-150	2.8(28)
3LT-10A8	27	19.6	22-254	39.2(4000)	74(7550)	3000	0.30	40	S-150	2.8(28)
3LT-12A8	30	21.8	26-304	54(5500)	99(10100)	2500	0.73	63	S-150	3.6(36)

規格 Spec 型號 Model	A	B	B(Ap)	C(H6)	D	D1	D2	E	E1	F	G max	G max(Ap)	G min	G min(Ap)	H
3LT-05	135	55	55	80	100	-	-	7	-	-	9	9	-6	-6	35
3LT-06A5	165	74	84	140	104.8	82.56	116	5	15	22	101.5	86.5	81.5	66.5	36
3LT-08A5	210	85	103	170	133.4	82.56	104.8	5	23	24	127	104	-104	81	36
3LT-08A6	210	85	97	170	133.4	106.38	150	5	17	24	127	110	-104	81	36
3LT-10A6	254	89	109	220	171.4	106.38	133.4	5	25	32	160	133	133	106	36
3LT-10A8	254	89	102	220	171.4	139.72	190	5	18	32	160	142	133	115	36
3LT-12A8	304	106	118	220	171.4	139.72	190	6	18	32	163	145	133	115	36

規格 Spec 型號 Model	J	L1	L1(Ap)	L2	M1	M2	M3	N	P	R max	R min	S	T
3LT-05	28	14	14	32	M12X1.75	3-M8	-	62	14	13.5	6	25	10
3LT-06A5	34	14	14	39	M16X2	6-M10	3-M6	73	20	18	7.5	31	12
3LT-08A5	34	20	17	41	M20X2.5	6-M12	6-M10	95	25	22.3	11.8	35	14
3LT-08A6	38	20	18	41	M20X2.5	6-M12	3-M6	95	25	22.3	11.8	35	14
3LT-10A6	38	18	18	46	M20X2.5	6-M16	6-M12	110	30	30.8	11.3	40	16
3LT-10A8	45	18	25	46	M20X2.5	6-M16	3-M8	110	30	30.8	11.3	40	16
3LT-12A8	45	22	25	54	M20X2.5	6-M16	3-M8	130	30	48.8	12.3	50	18

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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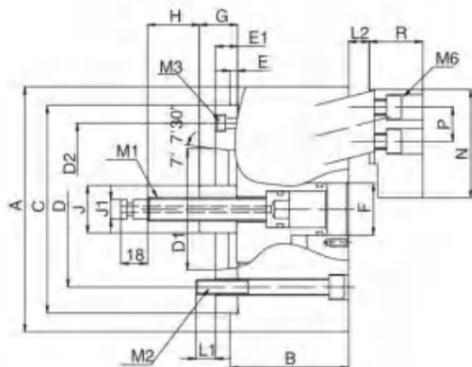
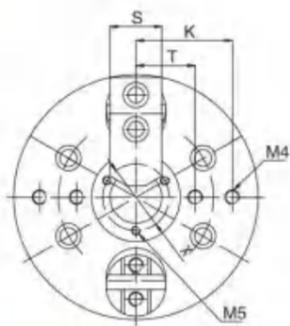
## > DPT SERIES

### 二爪後拉式油壓卡盤

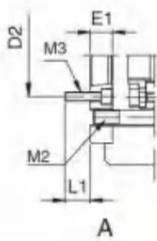
### 2 JAW PULL BACK POWER CHUCK

- 1 DPT後拉式油壓夾頭，在徑向夾持工件的同時向後斜拉。
- 2 工件緊貼定位端面，不會上浮，適合對鑄件及鍛件的重切削加工。
- 3 夾頭採用圓柱滑動結構，重複夾持精度與定長精度高。
- 4 可搭配氣密檢測裝置。

- 5 DPT 2 jaw pull back power chuck, it pulls back while radial clamping the workpiece.
- 6 When the workpiece is clamped onto the basic position end, it can't move up, it's suitable for processing casting and forgings parts.
- 7 The cylindrical sliding structure is adopted, the repeating clamping accuracy and length fixing accuracy is excellent.
- 8 It can go with air detection device to check if the clamping is OK or not.



DPT-08A5  
DPT-10A6  
參考圖A FIG A



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	直徑夾持範圍 Clamping Range Dia. (mm)	容許油壓缸推力 Max. D.B. pull KN (Kgf)	最大夾持力 Max. clamping force KN (Kgf)	最高轉速 Max RPM	慣性矩 I Kg·m <sup>2</sup>	重量 Weight (Kg)	適合油缸 Matching Cylinder	最大使用壓力 Max. pressure Mpa (Kgf/cm <sup>2</sup> )
DPT-06A5	15	7.8	22-165	6(610)	16.7(1700)	3500	0.05	14	SLA-100	1.7(17)
DPT-08A5	20	10.3	28-210	10.7(1090)	30.0(3060)	3000	0.14	26	SLA-125	1.5(15)
DPT-08A6	20	10.3	28-210	10.7(1090)	30.0(3060)	3000	0.14	24	SLA-125	1.5(15)
DPT-10A6	20	10.3	35-254	14(1430)	40.0(4080)	2500	0.36	50	SLA-125	1.3(13)
DPT-10A8	20	10.3	35-254	14(1430)	40.0(4080)	2500	0.36	49	SLA-125	1.3(13)

規格 Spec 型號 Model	A	B	C(H6)	D	D1	D2	E	E1	F	G max	G min	H	J	J1	K	L1
DPT-06A5	165	88	140	104.8	82.56	116	5	15	35	30	15	35	32	13	55	13
DPT-08A5	210	100	170	133.4	82.56	104.8	5	23	45	27	7	38	37	16	75	17
DPT-08A6	210	100	170	133.4	106.38	150	5	17	45	27	7	38	37	16	75	17
DPT-10A6	254	110	220	171.4	106.38	133.4	5	25	55	31	11	41	48	20	85	19
DPT-10A8	254	110	220	171.4	139.72	190	5	18	55	31	11	41	48	20	85	19

規格 Spec 型號 Model	L2 min	M1	M2	M3	M4	M5	M6	N	P	R	S	T	X
DPT-06A5	8	M16	6-M10	4-M6	4-M6	3-M5	6-M10	73	23	35	35	35	45
DPT-08A5	9	M20	6-M12	6-M10	4-M10	3-M6	6-M12	82	26	40	40	50	60
DPT-08A6	9	M20	6-M12	4-M6	4-M10	3-M6	6-M12	82	26	40	40	50	60
DPT-10A6	9	M24	6-M16	6-M12	4-M10	3-M6	6-M14	100	32	46	50	55	70
DPT-10A8	9	M24	6-M16	4-M8	4-M10	3-M6	6-M14	100	32	46	50	55	70

● 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
● 非標需求可訂貨 Non-standard requirements can be made

## > DPR SERIES

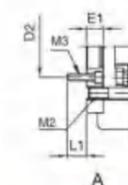
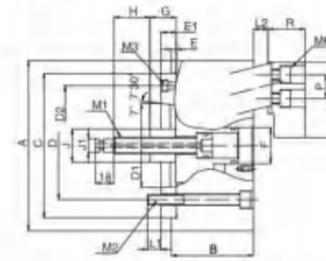
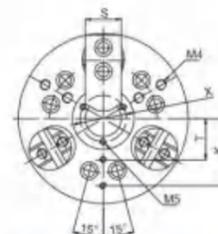
### 三爪後拉式油壓卡盤

### 3 JAW PULL BACK POWER CHUCK

- 1 DPR後拉式油壓夾頭，在徑向夾持工件的同時向後斜拉。
- 2 工件緊貼定位端面，不會上浮，適合對鑄件及鍛件的重切削加工。
- 3 夾頭採用圓柱滑動結構，重複夾持精度與定長精度高。
- 4 可搭配氣密檢測裝置。
- 5 DPR 3 jaw pull back power chuck, it pulls back while radial clamping the workpiece.
- 6 When the workpiece is clamped onto the basic position end, it can't move up, it's suitable for processing casting and forgings parts.
- 7 The cylindrical sliding structure is adopted, the repeating clamping accuracy and length fixing accuracy is excellent.
- 8 It can go with air detection device to check if the clamping is OK or not.



DPR-08A5  
DPR-10A6  
參考圖A FIG A



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	直徑夾持範圍 Clamping Range Dia. (mm)	容許油壓缸推力 Max. D.B. pull KN (Kgf)	最大夾持力 Max. clamping force KN (Kgf)	最高轉速 Max RPM	慣性矩 I Kg·m <sup>2</sup>	重量 Weight (Kg)	適合油缸 Matching Cylinder	最大使用壓力 Max. pressure Mpa (Kgf/cm <sup>2</sup> )
DPR-06A5	15	7.8	22-165	9(910)	25.0(2550)	3500	0.05	17	SLA-100	2.5(25)
DPR-08A5	20	10.3	28-210	16(1630)	45.0(4590)	3000	0.14	29	SLA-125	2.2(22)
DPR-08A6	20	10.3	28-210	16(1630)	45.0(4590)	3000	0.14	27.5	SLA-125	2.2(22)
DPR-10A6	20	10.3	35-254	21(2140)	60.0(6120)	2500	0.36	52	SLA-125	1.9(19)
DPR-10A8	20	10.3	35-254	21(2140)	60.0(6120)	2500	0.36	52	SLA-125	1.9(19)
DPR-12A8	20	10.3	50-304	45(4590)	112.5(11470)	2100	0.79	73	SLA-150	2.9(29)
DPR-15A11	20	10.3	60-381	53.9(5500)	134.7(13750)	1800	2.05	137	SLA-200	2.0(20)
DPR-18A11	20	10.3	80-457	53.9(5500)	134.7(13750)	1500	2.67	180	SLA-200	2.0(20)
DPR-21A11	28	20	100-510	89.2(9100)	151.6(15470)	1200	5.1	230	SLA-200	3.1(31)
DPR-24A11	28	20	160-610	89.2(9100)	151.6(15470)	1000	7.3	330	SLA-200	3.1(31)
DPR-32	20	7	200-800	89.2(9100)	151.6(15470)	600	-	-	SLA-200	3.1(31)

規格 Spec 型號 Model	A	B	C(H6)	D	D1	D2	E	E1	F	G max	G min	H	J	J1	K	L1
DPR-06A5	165	88	140	104.8	82.56	116	5	15	35	30	15	35	32	13	55	13
DPR-08A5	210	100	170	133.4	82.56	104.8	5	23	45	27	7	38	37	16	75	17
DPR-08A6	210	100	170	133.4	106.38	150	5	17	45	27	7	38	37	16	75	17
DPR-10A6	254	110	220	171.4	106.38	133.4	5	25	55	31	11	41	48	20	85	19
DPR-10A8	254	110	220	171.4	139.72	190	5	18	55	31	11	41	48	20	85	19
DPR-12A8	304	125	220	171.4	139.72	190	5	18	65	50	30	50	55	22	105	20
DPR-15A11	381	140	300	235	196.87	260	5	22	80	60	40	55	60	25	140	25
DPR-18A11	457	140	300	235	196.87	260	5	22	80	60	40	55	60	25	165	25
DPR-21A11	510	150	380	330.2	196.87	235	5	40	108	90	62	55	60	25	180	32
DPR-24A11	610	150	520	463.6	196.87	235	5	40	108	90	62	55	60	25	240	32
DPR-32	800	150	520	463.6	-	-	8	-	250	49	29	-	100	-	360	34

規格 Spec 型號 Model	L2 min	M1	M2	M3	M4	M5	M6	N	P	R	S	T	X
DPR-06A5	8	M16	6-M10	3-M6	6-M6	3-M5	6-M10	73	23	35	35	35	45
DPR-08A5	9	M20	6-M12	6-M10	6-M10	3-M6	6-M12	82	26	40	40	50	60
DPR-08A6	9	M20	6-M12	3-M6	6-M10	3-M6	6-M12	82	26	40	40	50	60
DPR-10A6	9	M24	6-M16	6-M12	6-M10	3-M6	6-M14	100	32	46	50	55	70
DPR-10A8	9	M24	6-M16	3-M8	6-M10	3-M6	6-M14	100	32	46	50	55	70
DPR-12A8	8	M27	6-M16	3-M8	6-M10	3-M6	6-M16	120	36	51	60	70	76
DPR-15A11	8	M30	6-M20	3-M10	6-M12	3-M8	6-M16	165	40	55	70	95	100
DPR-18A11	8	M30	6-M20	3-M10	6-M12	3-M8	6-M16	165	40	55	70	105	100
DPR-21A11	7	M30	6-M24	6-M20	9-M12	3-M8	6-M16	130	44	77.5	120	120	125
DPR-24A11	7	M30	6-M24	6-M20	12-M12	3-M8	6-M16	130	44	77.5	120	120	125
DPR-32	6	M80*2.0	6-M27	-	18-M12	3-M10	6-M20	200	50	76	90	200	220

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## > DPF SERIES

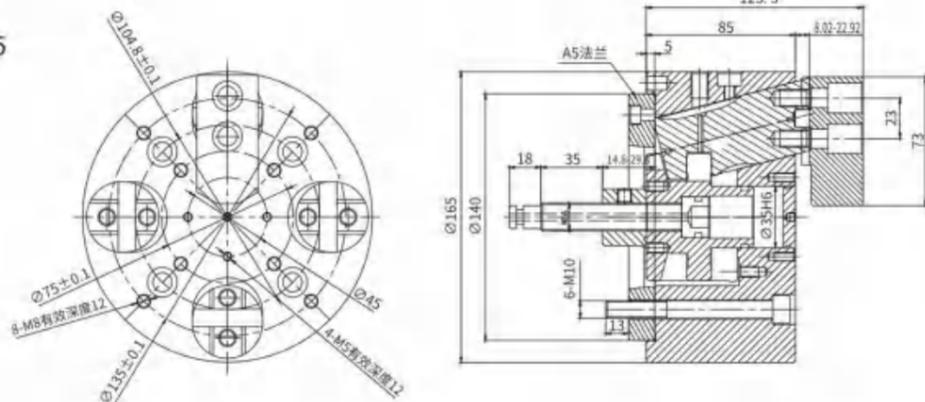
### 四爪後拉式油壓夾頭

#### 4 JAW PULL BACK POWER CHUCK

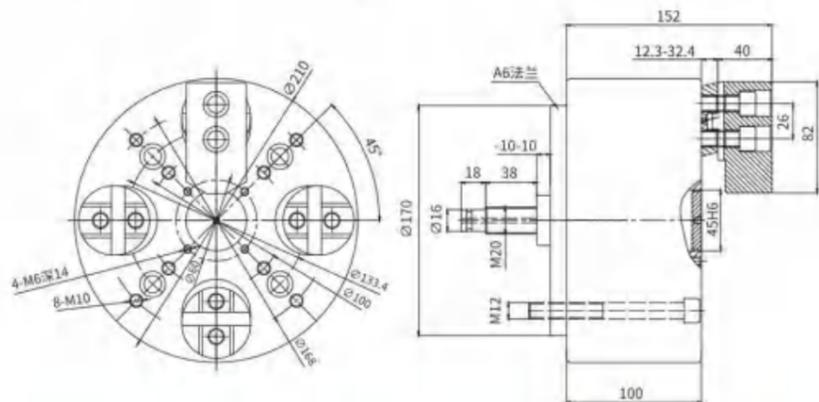
- DPF後拉式油壓夾頭，在徑向夾持工件的同時向後斜拉。
- 工件緊貼定位端面，不會上浮，適合對鑄件及鍛件的重切削加工。
- 夾頭採用圓柱滑動結構，重複夾持精度與定長精度高。
- 可搭配氣密檢測裝置。
- DPF 4 jaw pull back power chuck, it pulls back while radial clamping the workpiece.
- When the workpiece is clamped onto the basic position end, it can't move up, it's suitable for processing casting and forgings parts.
- The cylindrical sliding structure is adopted, the repeating clamping accuracy and length fixing accuracy is excellent.
- It can go with air detection device to check if the clamping is OK or not.



DPF-06A5



DPF-08A6



規格 Spec 型號 Model	模心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	直徑夾持範圍 Clamping Range Dia. (mm)	容許油壓缸推力 Max. Pull force KN (Kgf)	最大夾持力 Max. clamping force KN (Kgf)	最高轉速 Max RPM	慣性矩 I Kg·m <sup>2</sup>	重量 Weight (Kg)	適合油缸 Matching Cylinder	最大使用壓力 Max. pressure Mpa (kgf/cm <sup>2</sup> )
DPF-06A5	15	7.8	22-165	9(910)	25(2550)	3500	0.05	15	SLA-100	2.5(25)
DPF-08A6	20	10.3	28-210	16(1630)	45(4590)	3000	0.15	26	SLA-125	1.2(22)

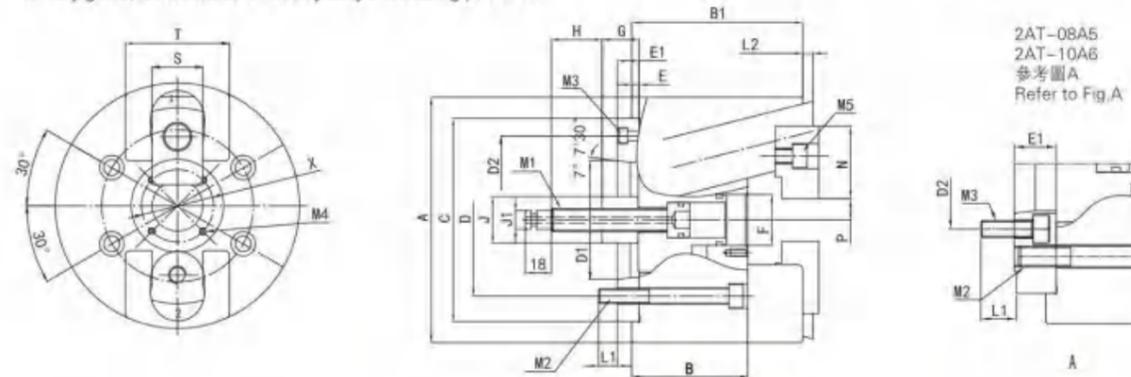
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## > 2AT SERIES

### 二爪強力後拉固鎖式動力夾頭

#### 2 JAW PULL LOCK POWER CHUCK

- 可同時將工件作徑向夾持與軸向後拉，使工件緊貼定位基準面不上浮。
- 可配合氣密檢測，進行軸向位置確認，適合對長度的進行高精度加工。
- 此夾頭為圓柱滑動結構及高剛性硬化處理的本體，並經過軸孔精磨，確保高夾持精度與耐用度，適合使用於重切削的場合。
- To do radial clamp and axial pull down simultaneously, it can keep the workpiece attaching close to the base surface of the chuck. During clamping process, there is almost no workpiece uplifting movement.
- It can go with Air-tight pressure and detect to inspect the axial position, it's suitable for high precision length machining work.
- This chuck is Pin arbor pull-down mechanism, the chuck body is heat-treated and fine bored, the clamping precision and durability is very good, it's suitable for heavy duty machining process.



2AT-08A5  
2AT-10A6  
參考圖A  
Refer to Fig.A

規格 Spec 型號 Model	模心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	直徑夾持範圍 Clamping Range Dia. (mm)	容許油壓缸推力 Max. D.B. pull KN (Kgf)	最大夾持力 Max. clamping force KN (Kgf)	最高轉速 Max RPM	慣性矩 I Kg·m <sup>2</sup>	重量 Weight (Kg)	適合油缸 Matching Cylinder	最大使用壓力 Max. pressure Mpa (kgf/cm <sup>2</sup> )
2AT-05A4	10	5.2	16-48	8.1(830)	25.0(2550)	6000	0.02	7.1	SLA-75/S-80	2.3(23)
2AT-06A5	15	7.8	22-60	16.7(1700)	52.4(5350)	6000	0.05	13.8	SLA-100/S-100	2.4(24)
2AT-08A5	20	10.3	32-90	23.7(2420)	74.5(7600)	5000	0.14	25.9	SLA-100/S-100	3.4(34)
2AT-08A6	20	10.3	32-90	23.7(2420)	74.5(7600)	5000	0.14	24	SLA-100/S-100	3.4(34)
2AT-10A6	20	10.3	45-120	34.3(3500)	107.8(11100)	4000	0.36	50	SLA-125/S-125	3.2(32)
2AT-10A8	20	10.3	45-120	34.3(3500)	107.8(11100)	4000	0.36	48.5	SLA-125/S-125	3.2(32)

規格 Spec 型號 Model	A	B	B1	C(H6)	D	D1	D2	E	E1	F	G max	G min	H
2AT-05A4	135	70	100	110	82.6	63.51	96	4	15	30	29	19	32
2AT-06A5	168	88	128	140	104.8	82.56	116	5	15	35	39	24	32
2AT-08A5	210	100	145	170	133.4	82.56	104.8	5	23	45	44	24	38
2AT-08A6	210	100	145	170	133.4	106.38	150	5	17	45	44	24	38
2AT-10A6	254	110	160	220	171.4	106.38	133.4	5	25	55	44	24	38
2AT-10A8	254	110	160	220	171.4	139.72	190	5	18	55	44	24	38

規格 Spec 型號 Model	J1	L1	L2 min	M1	M2	M3(Ad.)	M4	M5	N	P min	S	T	X
2AT-05A4	11	13	±5	M14	4-M10	4-M6	4-M5	2-M10	45	8	28	60	40
2AT-06A5	13	16	±7.5	M16	4-M10	4-M6	4-M5	2-M12	50	10	35	72	50
2AT-08A5	17	18	±10	M20	4-M12	4-M10	4-M6	2-M12	63	12.5	40	85	60
2AT-08A6	17	18	±10	M20	4-M12	4-M6	4-M6	2-M12	63	12.5	40	85	60
2AT-10A6	17	20	±10	M20	4-M16	4-M12	4-M6	2-M14	74	15	50	100	70
2AT-10A8	17	20	±10	M20	4-M16	4-M8	4-M6	2-M14	74	15	50	100	70

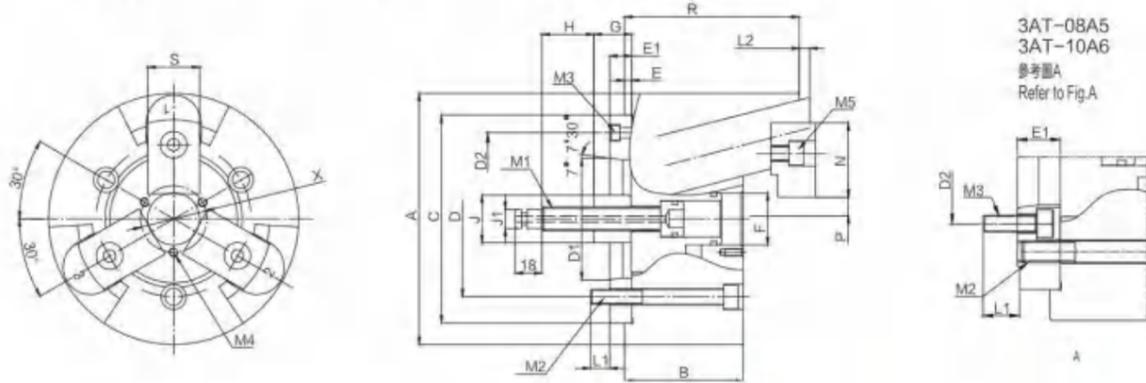
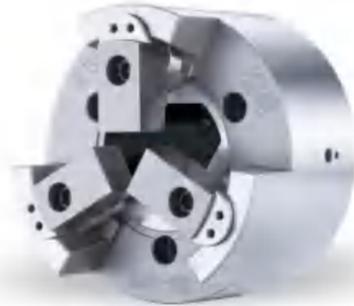
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## > 3AT SERIES

### 三爪強力後拉固鎖式動力夾頭

#### 3 JAW PULL LOCK POWER CHUCK

- 可同時將工件徑向夾持與軸向後拉，使工件緊貼定位基準面上浮。
- 可配合氣密檢測，進行軸向位置確認，適合對長度的進行高精度加工。
- 此夾頭為圓柱滑動結構及高剛性硬化處理的本體，並經過軸孔精磨，確保高夾持精度與耐用度，適合使用于重切削的場合。
- To do radial clamp and axial pull down simultaneously, it can keep the workpiece attaching close to the base surface of the chuck. During clamping process, there is almost no workpiece uplifting movement.
- It can go with Air-tight pressure and detect to inspect the axial position, it's suitable for high precision length machining work.
- This chuck is Pin arbor pull-down mechanism, the chuck body is heat-treated and fine bored, the clamping precision and durability is very good, it's suitable for heavy duty machining process.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	最大夾持直徑 Max clamping dia (mm)	最小夾持直徑 Min clamping dia (mm)	容許油壓缸推力 Max. D.B. pull KN (Kgf)	最大夾持力 Max. clamping force KN (Kgf)	最高轉速 Max RPM	慣性矩 J Kg·m <sup>2</sup>	重量 Weight (Kg)	適合油缸 Matching Cylinder	最大使用壓力 Max pressure Mpa (Kgf/cm <sup>2</sup> )
3AT-06A5	15	7.8	100	25	18.0(1835)	58.0(5910)	6000	0.05	17	SLN-100/SLAN-100	2.0(20)
3AT-08A5	20	10.3	130	25	25.0(2550)	80.0(8150)	5000	0.14	29	SLN-125/SLAN-125	2.5(25)
3AT-08A6	20	10.3	130	25	25.0(2550)	80.0(8150)	5000	0.14	27.5	SLN-125/SLAN-125	2.2(22)
3AT-10A6	20	10.3	160	35	35.0(3570)	100.0(10100)	4000	0.36	53.5	SLN-125/SLAN-125	3.1(31)
3AT-10A8	20	10.3	160	35	35.0(3570)	100.0(10100)	4000	0.36	51.5	SLN-125/SLAN-125	3.1(31)

規格 Spec 型號 Model	A	B	B1	G(H6)	D	D1	D2	E	E1	F	G max	G min	H
3AT-06A5	168	88	128	140	104.8	82.56	116	5	15	35	30	15	35
3AT-08A5	210	100	145	170	133.4	82.56	104.8	5	23	45	27	7	38
3AT-08A6	210	100	145	170	133.4	106.38	150	5	17	45	27	7	38
3AT-10A6	254	110	160	220	171.4	106.38	133.4	5	25	55	31	11	41
3AT-10A8	254	110	160	220	171.4	139.72	190	5	18	55	31	11	41

規格 Spec 型號 Model	J1	J2	L1	L2 min	M1	M2	M3(Ad.)	M4	M5	N	P min	S	X
3AT-06A5	32	13	13	8	M16	3-M10	3-M6	3-M5	3-M10	50	12.5	30	50
3AT-08A5	37	16	17	9	M20	3-M12	6-M10	3-M6	3-M12	63	12.5	35	60
3AT-08A6	37	16	17	9	M20	3-M12	3-M6	3-M6	3-M12	63	12.5	35	60
3AT-10A6	48	20	19	9	M24	3-M16	6-M12	3-M6	3-M14	74	17.5	40	70
3AT-10A8	48	20	19	9	M24	3-M16	3-M6	3-M6	3-M14	74	17.5	40	70

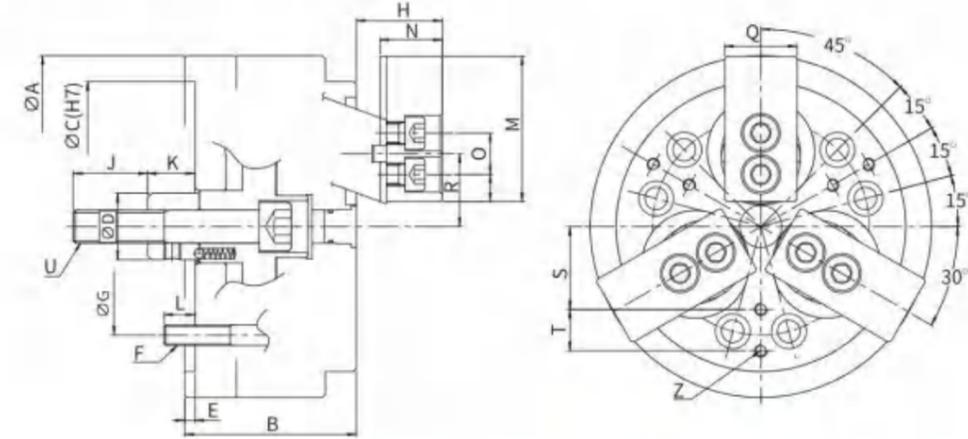
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## > PBE SERIES

### 三爪內撐式後拉中實動力夾頭

#### 3 JAW INSIDE DRAW DOWN POWER CHUCK

- 內撐後拉式動力夾頭，適用於內徑夾持。
- 可同時將工件做徑向夾持與軸向後拉，使工件不上浮并緊貼定位基準面。
- 適用於高精度制程加工。
- 3 Jaw Expansible Pull Lock Power Chuck, It's suitable for internal gripping
- Radial clamping and axial pulling down at the same time, to keep the workpiece tightly close to the base surface of the chuck, to avoid workpiece from uplifting.
- It's suitable for high accuracy processing.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	直徑夾持範圍 Clamping Range Dia. (mm)	容許油壓缸推力 Max. Pull force KN (Kgf)	最大夾持力 Max. clamping force KN (Kgf)	最高轉速 Max RPM	重量 Weight (Kg)	適合油缸 Matching Cylinder	最大使用壓力 Max pressure Mpa (kgf/cm <sup>2</sup> )
PBE-05	8	5.8	25-110	11.7(1193)	22.5(2295)	5000	8	S-100R	2.2(22)
PBE-06	8	5.8	40-140	14.7(1499)	24.5(2499)	5000	13	S-100R	3.4(33)
PBE-08	10	7.2	48-180	24.5(2499)	44.1(4498)	4500	26	S-125R	3.5(34)
PBE-10	15	10.8	65-220	34.3(3499)	58.8(5998)	4000	43.5	S-125R	3.1(30)
PBE-12	15	10.8	80-270	44.1(4498)	73.5(7497)	3500	68	S-150R	3.1(30)

規格 Spec 型號 Model	A	B	C(H7)	D	E	F	G	H	J	K
PBE-05	135	75	110	28	5	3-M10	82.6	28-36	26	14-22
PBE-06	165	80	140	32	5	6-M10	104.8	34-42	36	23-31
PBE-08	210	95	170	38	5	6-M10	133.4	45-55	36	25-35
PBE-10	254	110	220	50	5	6-M10	171.4	50-65	46	32-47
PBE-12	304	125	220	50	5	6-M10	171.4	55-70	46	32-47

規格 Spec 型號 Model	L	M	N	O	P	Q	R	S	T	U	Z
PBE-05	15	56	24.5		20	30	24.6-27.5	25		M12*1.75	3-M6
PBE-06	15	70	30	20	13	35	35-37.9	40	20	M16*2	6-M6
PBE-08	15	84	41	26	18	40	43-46.6	50	25	M20*2.5	6-M8
PBE-10	22	100	46	32	22	50	28-36	50	30	M24*3	6-M8
PBE-12	22	120	51	36	24	60	28-36	70	40	M24*3	6-M10

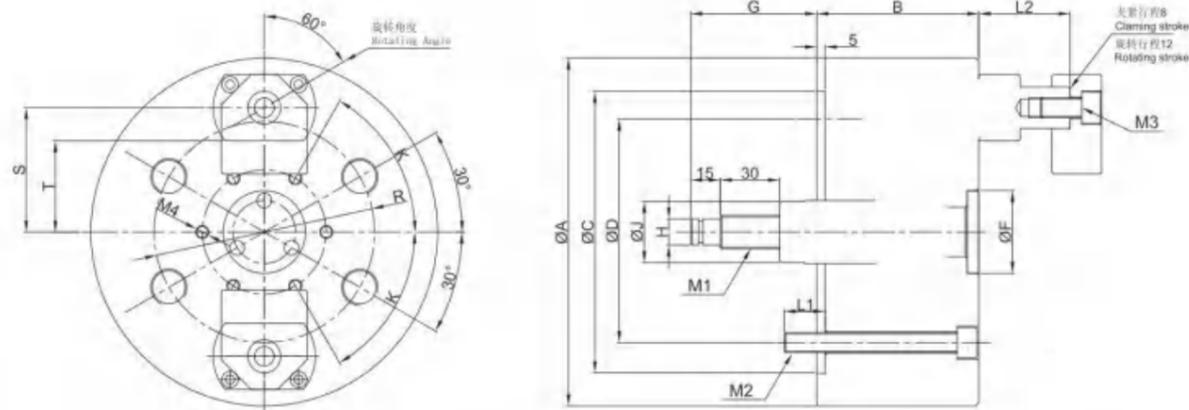
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## > 2F SERIES

### 二爪中實型指形動力夾頭

#### 2 JAW FINGER POWER CHUCK

- 夾持工件端面，防止工件夾持變形，適合薄壁工件加工。
- 夾持補償機構，可夾持不規則斷面之工件。
- 夾頭中心可裝設工件密著確認裝置。
- Prevent deformation of workpiece for gripping the terminal surface, suitable for thin workpiece process.
- The compensating mechanism of gripping that can grasp the workpieces of the irregular surface.
- Additional check device able to install in the center of chuck.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	許用推拉力 Max. Pull force KN(kgf)	最大夾緊力 Max. Gripping force KN(kgf)	極限轉速 Max. Speed r/min	夾緊範圍 Gripping range(mm)	慣量 Moment of inertial Kg.m <sup>2</sup>	重量 Weight kg	適用油缸 Matching cylinder	最大使用壓力 Max. Pressure Mpa (Kgf/cm <sup>2</sup> )
2F-06			6 ( 610 )	5 ( 510 )	4000	55-79	0.04	9.8		0.8 ( 8 )
2F-08	12	8				75-106	0.12	20.3	S-100	
2F-10			12 ( 1224 )	11 ( 1120 )	3500	119-150	0.28	30.7		1.7 ( 17 )

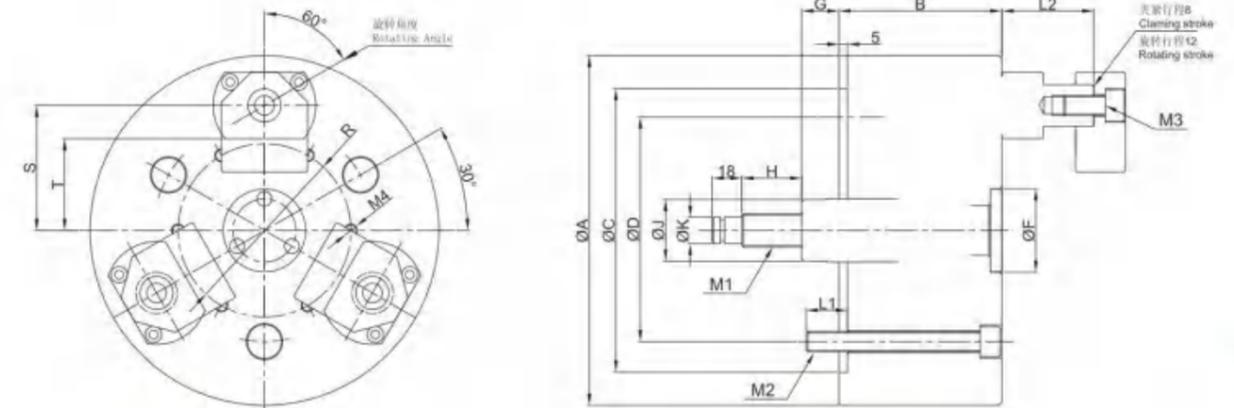
規格 Spec 型號 Model	A	B	C (H6)	D	F	G		H	J	K	L1	L2	M1	M2	M3	M4	R	S	T
						max	min												
2F-06	165	86	140	104.8	45	70	50	14	28	30°	15	36-56	M16	M10	M10	4-M6	64	57.5	37.5
2F-08	210	90	170	133.4		75	55				18			M12		4-M8	104	75	55
2F-10	254	95	220	171.4	56	70	50	16	38	50°	24	50-70	M20	M12	M12	4-M8	140	95	72.5

## > 3F SERIES

### 三爪中實型指形動力夾頭

#### 3 JAW FINGER POWER CHUCK

- 夾持工件端面，防止工件夾持變形，適合薄壁工件加工。
- 夾持補償機構，可夾持不規則斷面之工件。
- 夾頭中心可裝設工件密著確認裝置。
- Prevent deformation of workpiece for gripping the terminal surface, suitable for thin workpiece process.
- The compensating mechanism of gripping that can grasp the workpieces of the irregular surface.
- Additional check device able to install in the center of chuck.



規格 Spec 型號 Model	旋轉行程 Rotating stroke (mm)	夾緊行程 (直徑) Clamping stroke (Dia.)mm	許用推拉力 Max. Pull force KN(kgf)	最大夾緊力 Max. Gripping force KN(kgf)	極限轉速 Max. Speed r/min	夾緊範圍 Gripping range(mm)	慣量 Moment of inertial Kg.m <sup>2</sup>	重量 Weight kg	適用油缸 Matching cylinder	最大使用壓力 Max. Pressure Mpa (Kgf/cm <sup>2</sup> )
3F-05	12	8	14.7(1500)	11.9(1200)	4000	25-50	0.03	11	S-100	2.1(21)
3F-06	12	8	17.7(1800)	13.7(1400)	3500	35-73	0.05	12	S-100	2.5(25)
3F-08	12	8	26.5(2700)	20.6(2100)	3000	70-108	0.14	23	S-125	2.4(24)
3F-10	12	8	35.3(3600)	27.5(2100)	2500	90-143	0.31	33	S-150	2.3(23)
3F-12	12	8	35.3(3600)	27.5(2800)	2100	140-193	0.76	45	S-150	2.3(23)
3F-15	17	8	44.1(4500)	35.3(3600)	1800	174-256	1.97	88	S-150	2.8(28)
3F-18	17	8	44.1(4500)	35.3(3600)	1600	248-330	2.69	126	S-150	2.8(28)
3F-21	17	8	44.1(4500)	35.3(3600)	1200	324-406	5.1	179	S-150	2.8(28)

規格 Spec 型號 Model	A	B	C (H6)	D	F	G		H	J	K	L1	L2	M1	M2	M3	M4	R	S	T
						max	min												
3F-05	135	89	110	82.6	32	47	27	36	34	13	14	36-56	M16	M10	M10	3-M6	58	42.5	26
3F-06	165	98	140	104.8	36	51	31	36	40	16	15	40-60	M20	M10	M12	3-M8	70	57.5	37.5
3F-08	210	98	170	133.4	36	51	31	36	40	16	19	40-60	M20	M12	M12	6-M8	104	75	55
3F-10	254	102	220	171.4	36	47	27	36	40	16	23	50-70	M20	M16	M14	6-M8	140	95	72.5
3F-12	304	102	220	171.4	36	47	27	36	40	16	23	50-70	M20	M16	M14	6-M8	180	120	97.5
3F-15	381	120	300	235	55	62	37	45	60	20	26	60-85	M24	M20	M16	6-M10	235	155	129
3F-18	457	125	300	235	55	57	32	45	60	20	31	60-85	M24	M20	M16	6-M10	300	192	166
3F-21	533	125	380	330.2	55	57	32	45	60	20	31	60-85	M24	M24	M16	6-M12	380	230	204

\*保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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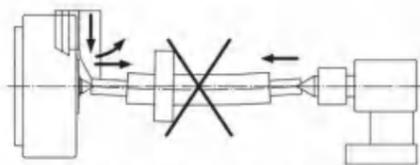
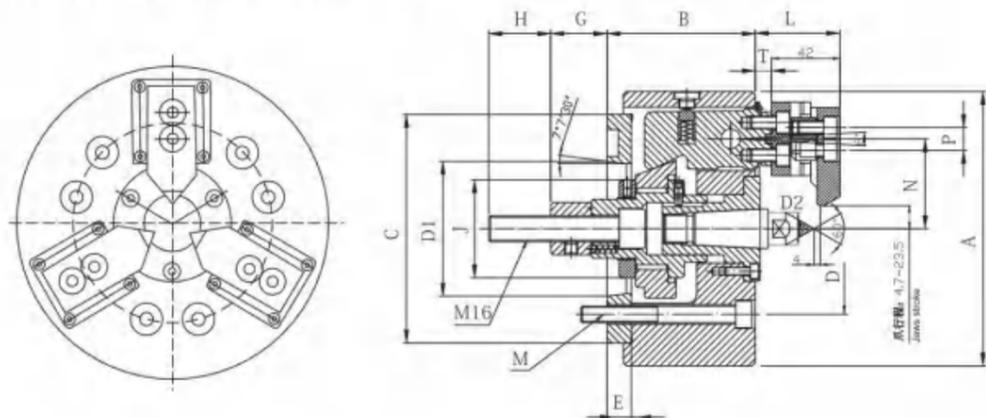
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## > FWD SERIES

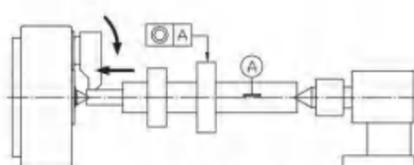
### 三爪補償型帶頂心動力卡盤

#### 3 JAW COMPENSATION WITH CENTER POWER CHUCK

- 適用於軸類工件加工，卡盤具有補償式夾緊和後拉的功能，對中心的補償量為5mm。
- 尾座支撐工件，卡盤補償夾緊後，把工件拉向中心頂尖，依此加工後同軸度會非常好。
- It's suitable for shaft machining, the chuck have the function of compensation clamping and pulling back, the compensation size is 5mm.
- The tailstock support the shaft, after compensation clamping, the chuck pull the shaft back to center, better concentricity can be made.



不帶補償夾持的效果,易導致工件彎曲  
Without pull back and compensation function, the work bar easy to be bend.



FWD卡盤的夾持效果,所加工的同軸度非常好  
FWD chuck clamping effect, the work bar's concentricity can be better.

規格 Spec 型號 Model	頂心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	直徑夾持範圍 Clamping Range Dia. (mm)	容許油壓缸推力 Max. D.B. pull KN (Kgf)	最大夾持力 Max. clamping force KN (Kgf)	補償量 Compensation (mm)	最高轉速 Max RPM	慣性矩 I Kg·m <sup>2</sup>	重量 Weight (Kg)	適合油缸 Matching Cylinder	最大使用壓力 Max. pressure Mpa (Kgf/cm <sup>2</sup> )
FWD-06A5	16	13	6-35	14.7(1500)	25.0(2550)	5	3500	0.2	13	SNK-100	2.1(21)
FWD-08A6	20	18	16-65	19.6(2000)	34.3(3500)	6	3000	0.5	22	SNK-100	2.8(28)

規格 Spec 型號 Model	A	B	C(H6)	D	D1	D2	E	G	H	J	L	M	N	P	T
FWD-06A5	168	116	140	104.8	82.56	24	15	4-20	38	50	52	M10x120	55	14	34
FWD-08A6	210	127	170	133.4	106.38	32	17	9-29	38	58	61	M12x125	67	20	41.5

**備註:**  
\* FWD-06為彈性頂尖,在夾持工件時,以中心為基準補正,同時可使工件接觸到端面,便于軸向定位。  
**REMARK:**  
\* FWD-06 chuck's center is spring type, when clamping, it's based on the center, the workpiece could be pulled onto the position base, so as to make axial position.

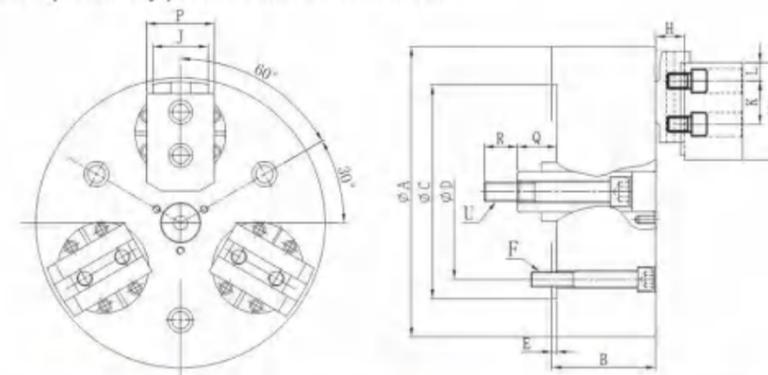
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## > FW SERIES

### FW三爪強力浮動油壓卡盤

#### 3 JAW SWING LOCK CHUCK

- 適用於鑄造和鍛造工件的自定心車削加工
- 工件夾緊并後拉,能夾持10度的錐體,卡爪可左右搖擺5度。
- 重複定位精度可達0.03mm
- Suitable for self centering turning process for casting and forging workpiece
- Clamping and drawing back the workpiece, it can clamp the parts with 10 degree taper, and the chuck jaws can swing 5 degree.
- The accuracy for repeatability position can meet 0.03mm



型號 Model 規格 Spec	夾持外徑 Clamping out dia (mm)	夾持內徑 Clamping inner dia (mm)	柱塞行程 Plunger Stroke (mm)	爪行程(直徑) Jaw stroke (Dia.) (mm)	最高回轉數 Max RPM	最大容許油壓缸推力 Max. D.B. pull kN	最大靜夾持力 Max. clamping force kN	適用油缸 Matching Cylinder	重量 Weight (kg)
FW-06	12.7-120	70-152	11.4	7.9	4000	23	70	S-125R	14.8
FW-08	16-152	76-203	14.2	9.5	3500	32	96	S-125R	23.7
FW-10	50-203	85-235	17.5	12.7	3200	40	123	S-150R	39.5
FW-12	63-241	127-305	17.5	12.7	2500	40	123	S-150R	58.5
FW-15	78-310	170-380	22.4	15.8	1800	54	165	S-200R	95.2
FW-18	90-390	245-455	22.4	15.8	1500	55	166	S-200R	145
FW-21	165-470	320-530	22.4	15.8	1000	56	167	S-200R	180

型號 Model 規格 Spec	A	B	C H6	D	E	F	H
FW-06	162	77	140	104.8	5	3-M10	19.3
FW-08	200	88	170	133.4	5	3-M12	23.3
FW-10	254	105	220	171.4	5	3-M16	29.1
FW-12	300	105	220	171.4	5	6-M16	29.1
FW-15	381	120	300	235	6	6-M20	32.4
FW-18	457	126.5	380	260	6	6-M24	32.4
FW-21	533	126.5	380	330.2	6	6-M24	32.4

型號 Model 規格 Spec	J	K	L	M	P	Qmin	QMax	R	U
FW-06	38	30	15	67.5	51	17.6	29	30	M16
FW-08	44.5	34	15	74	57	20	34	30	M18
FW-10	57	45	19	89.5	70	23.5	41	35	M22
FW-12	57	45	19	108.5	70	20	37.5	38	M22
FW-15	66.7	54	24	140	76	29.6	52	40	M24
FW-18	66.7	54	24	140	76	16.4	38.7	41	M30
FW-21	66.7	54	24	140	76	16.4	38.7	41	M30

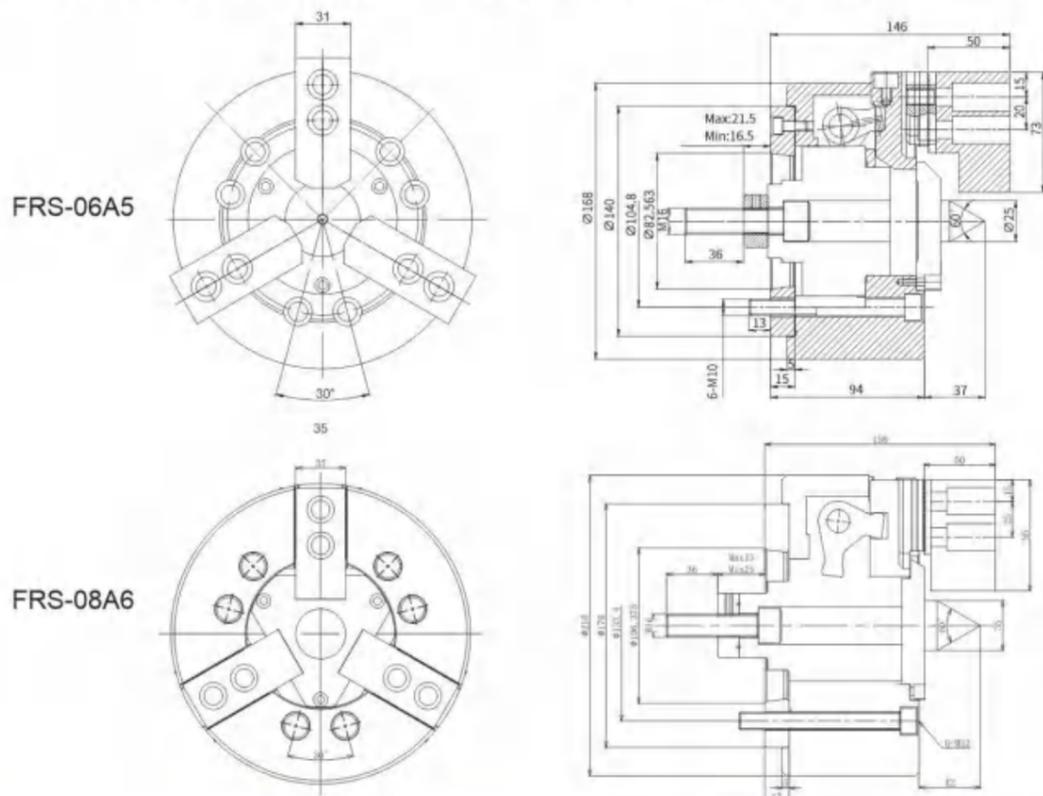
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## > FRS SERIES

### 三爪齒式帶頂尖浮動卡盤

#### 3 JAW SERRATION MODEL WITH CENTER FLOATING CHUCK

- FRS 3爪浮動卡盤的卡爪為齒式連接，便于調節卡爪夾持範圍。
- 適合對軸類工件，需兩端頂尖夾持的加工。
- 工件通過頂尖定心，重複夾持精度高。
- FRS 3 jaw with center floating power chuck, its jaws are serration connecting type, it's easy to adjust the jaws clamping range.
- It's suitable for shaft workpieces which need be held by center from both two ends
- The workpiece center can be positioned by the center, so the repeating clamping accuracy is high.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	最大夾持直徑 Max clamping dia (mm)	最小夾持直徑 Min clamping dia (mm)	容許油壓缸推力 Max Pull force KN (Kgf)	最大夾持力 Max clamping force KN (Kgf)
FRS-06A5	5	6	160	25	23.5(2400)	26(2650)
FRS-08A6	8	12.8	200	25	34.3(3500)	35(4150)

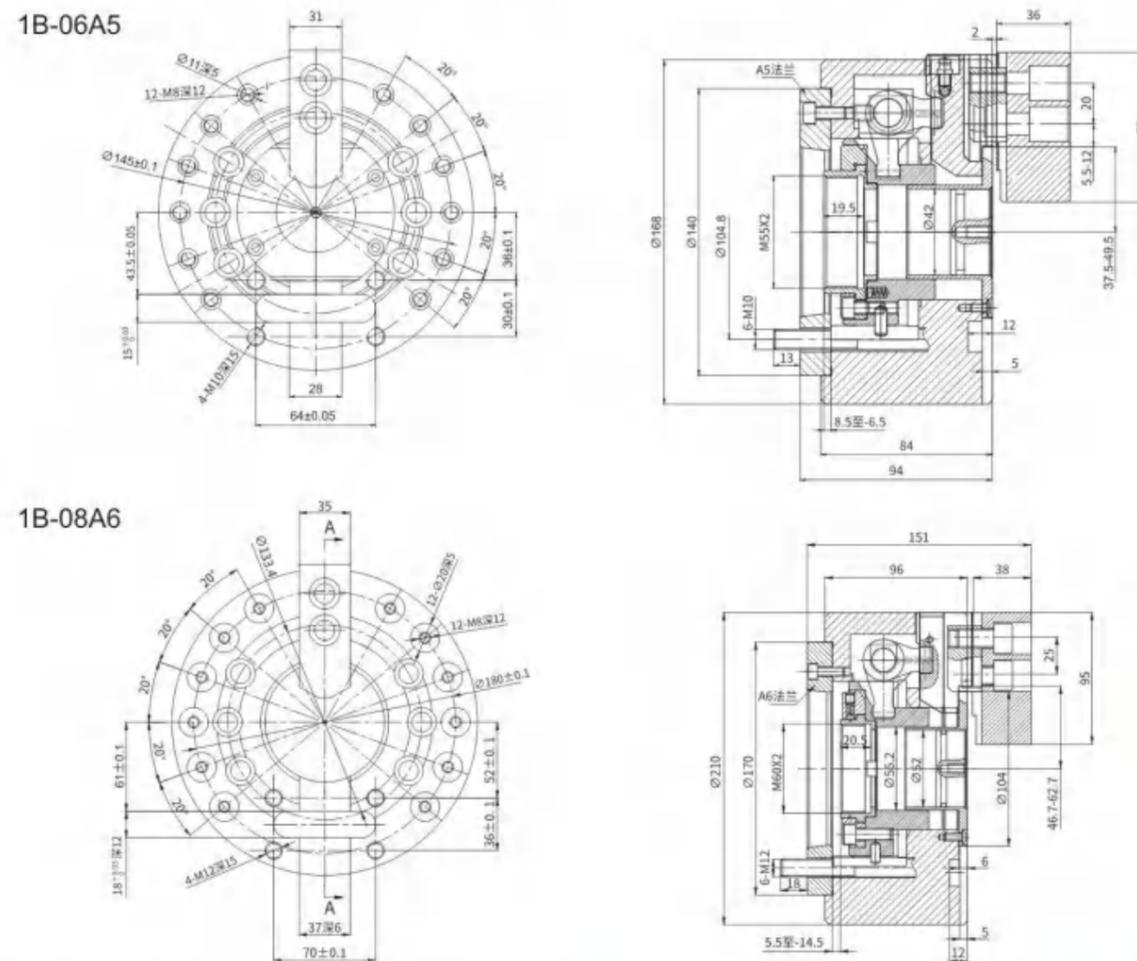
規格 Spec 型號 Model	補償量 Compensation (mm)	最高轉速 Max RPM	慣性矩 I kg*m <sup>2</sup>	重量 Weight (Kg)	適合油壓缸 Matched cylinders	最大使用壓力 Max pressure Mpa (Kgf/cm <sup>2</sup> )
FRS-06A5	2	3500	0.063	15	S-100	2.1(21)
FRS-08A6	3	3000	0.175	24.5	S-125	2.8(28)

## > 1B SERIES

### 單爪中空超長行程動力夾頭

#### SINGLE JAW THROUGH HOLE POWER CHUCK

- 中空單爪夾頭，超長爪行程。
- 適用於治具夾持。
- 高剛性結構及高精度夾持。
- Single jaw through hole power chuck, super long jaw stroke.
- Suitable for clamping the jig.
- Construction of high rigidity and high clamping accuracy.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	直徑夾持範圍 Clamping Range Dia. (mm)	容許油壓缸推力 Max Pull force KN (Kgf)	最大夾持力 Max clamping force KN (Kgf)	最高轉速 Max RPM	慣性矩 I Kg·m <sup>2</sup>	重量 Weight (Kg)	適合油壓缸 Matching Cylinder	最大使用壓力 Max pressure Mpa (Kgf/cm <sup>2</sup> )
1B-06A5	15	12	10-169	15.7(1600)	17.2(1760)	3600	0.05	15	H-1246HK-1246	1.7(17)
1B-08A6	20	32	10-210	22.8(2330)	27(2750)	3000	0.15	26	H-1552HK-1552	1.5(15)

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## > BTS SERIES

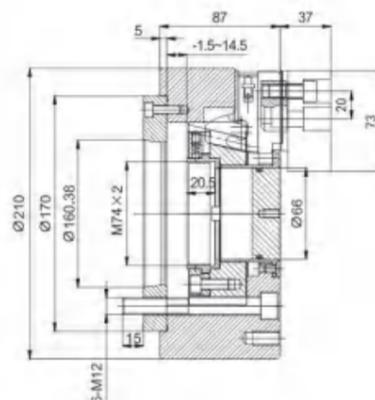
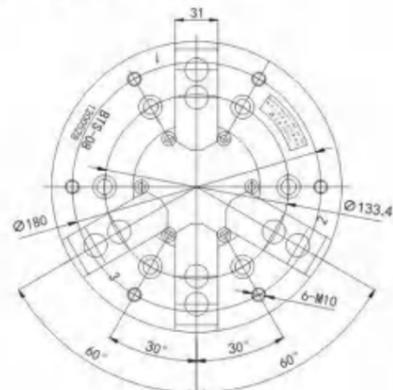
### 二爪三爪共用中空卡盤

#### 2 JAW AND 3 JAW COMPATIBLE POWER CHUCK

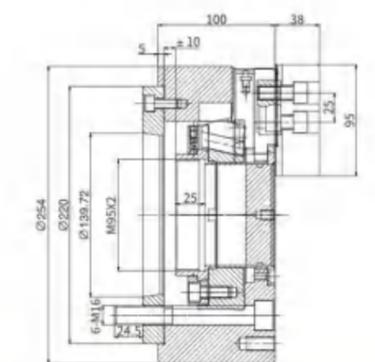
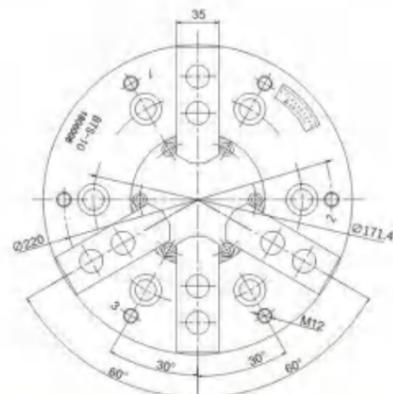
- 同一個卡盤，可實現兩爪卡盤及三爪卡盤的功能。
- 在夾持圓形工件切換為异形工件時，祇須調整卡爪，無需更換卡盤。
- 卡盤所有滑動面均經過表面硬化及研磨處理，以提高回轉精度與使用壽命。
- The function of 2 jaw chuck and 3 jaw chuck can be used in one same chuck.
- When the round workpiece need change to irregular type, just change the chuck jaws, no need to change the chuck.
- All chuck's sliding surfaces are hardened and ground to increase rotary accuracy and longer service life.



BTS-08A6



BTS-10A8



規格 Spec 型號 Model	通孔直徑 Through hole dia. (mm)	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	最大夾持直徑 Max clamping dia Kg·m <sup>2</sup>	最小夾持直徑 Min clamping dia (mm)	容許油壓缸推力(兩爪) Max D.B Pull KN(Kgf)	容許油壓缸推力(三爪) Max D.B Pull KN(Kgf)
BTS-08A6	66	16	7.4	210	23	14.7(1470)	21.5(2200)
BTS-10A8	75	20	9.2	254	31	23.1(2360)	34.3(3500)

規格 Spec 型號 Model	最大夾持力(兩爪) Max clamping force KN(Kgf)	最大夾持力(三爪) Max clamping force KN(Kgf)	最高轉速 Max RPM	重量 Weight Kg	適合油壓缸 Matched cylinders	最大使用壓力(兩爪) Max.pressure Mpa(Kgf/cm <sup>2</sup> )	最大使用壓力(三爪) Max.pressure Mpa(Kgf/cm <sup>2</sup> )
BTS-08A6	37.9(3870)	56.8(5800)	4200	25	H-1552	1.2(12)	1.8(18)
BTS-10A8	57.2(5840)	85.8(8750)	3300	35	H-1875	1.4(14)	2.1(21)

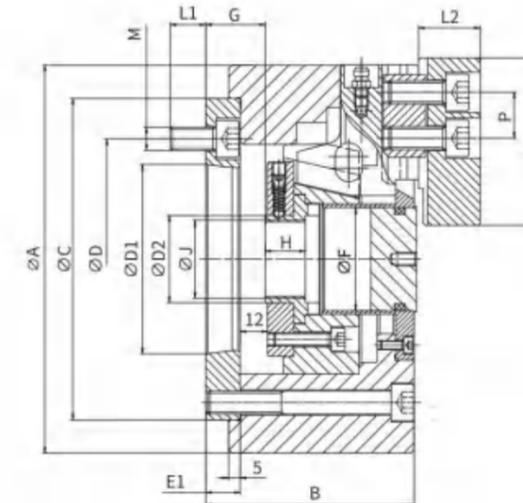
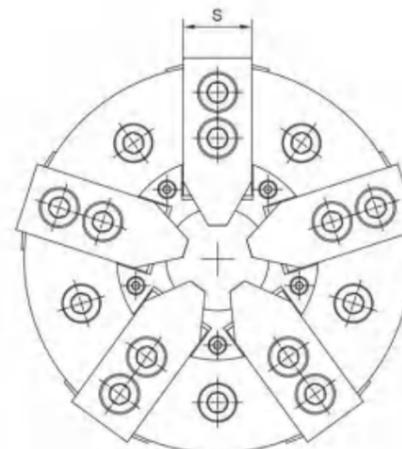
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 非標需求可訂做 Non-standard requirements can be made

## > BW SERIES

### 五爪中空動力卡盤

#### 5 JAW THROUGH HOLE POWER CHUCK

- 多點夾持，針對薄壁管形，環形工件，可改善工件夾持過程中的變形問題。
- 另有五爪中實卡盤可選。
- More contact point clamping, it can improve the deformation issue during clamping process for thin wall pipe or ring like workpiece.
- 5 jaw closed center power chuck is optional.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	直徑夾持範圍 Clamping Range Dia. (mm)	容許油壓缸推力 Max. D.B. pull KN (Kgf)	最大夾持力 Max. clamping force KN (Kgf)	最高轉速 Max RPM	重量 Weight (Kg)	適合油缸 Matching Cylinder	最大使用壓力 Max.pressure Mpa (Kgf/cm <sup>2</sup> )
BW-06A5	12	5.5	15-168	17.1(2200)	35.8(5500)	5000	15.5	H-1246/HK-1246	2.74(20)
BW-08A6	16.5	7.6	13-210	34.3(3500)	85.8(8750)	5000	25.5	H-1552/HK-1552	2.8(28)
BW-10A8	21	8.9	46-254	34.3(3000)	85.8(7000)	2500	43.5	H-1875/HK-1875	2.1(21)

規格 Spec 型號 Model	A	B	C(H6)	D	D1	E1	G max	G min	H
BW-06A5	169	97	140	104.8	82.563	21	26	14	17.5
BW-08A6	210	103	170	133.4	106.375	17	39	22.5	19.5
BW-10A8	254	120	220	171.4	139.719	25	28.5	7.5	25

規格 Spec 型號 Model	F	L1	L2	J	D2	M	N	P	S
BW-06A5	45	15.5	37	M55*2.0	60	10	73	20	31
BW-08A6	52	19	37	M60*2.0	66	12	73	20	31
BW-10A8	81	24	43	M85*2.0	97	16	110	30	40

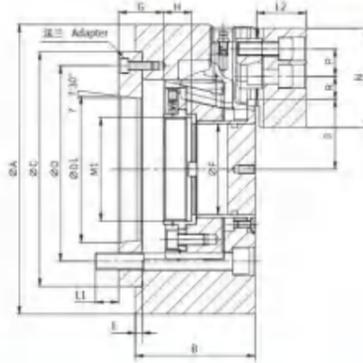
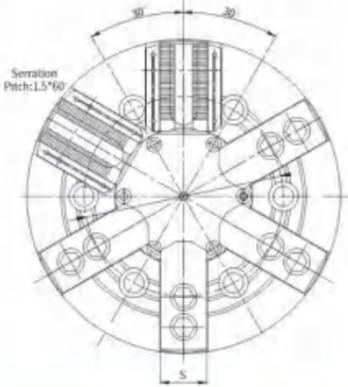
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## > BS SERIES

### 六爪中空動力卡盤

#### BS 6 JAW THROUGH HOLE POWER CHUCK

- 卡盤多點夾持，針對薄壁管形，環形工件，可改善工件夾持過程中的變形問題。
- More contact point clamping, it can improve the deformation issue during clamping process for thin wall pipe or ring like workpiece.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	最大夾持直徑 Max. clamping dia (mm)	最小夾持直徑 Min clamping dia (mm)	容許油壓缸推力 Max. O.B. Pull (KN/kgf)
BS-206 A5	12	5.6	168	15	17.1(1750)
BS-208 A6	16	7.4	210	13	34.3(3500)
BS-210 A8	19	8.8	254	46	34.3(3500)
BS-212 A8	30	22	315	37	42.6(4380)

規格 Spec 型號 Model	最大夾持力 Max. clamping force (mm)	最高轉速 Max RPM	慣性矩 I kg·m <sup>2</sup>	重量 Weight kg	適合油壓缸 Matched cylinders	最大使用壓力 Max. pressure Mpa(kgf/cm <sup>2</sup> )
BS-206 A5	35.8(3650)	6000	0.06	15	H-1246	2.0(20)
BS-208 A6	85.8(8750)	5000	0.19	25	H-1552	2.8(28)
BS-210 A8	85.8(8750)	4200	0.35	42	H-1875	2.1(21)
BS-212 A8	80.7(8241)	3300	0.95	66	H-2091	2.1(21)

規格 Spec 型號 Model	A	B	C(H6)	D	D1	E	F	G max	G min
BS-206 A5	169	81	140	104.78	82.56	5	45	26	14
BS-208 A6	210	87	170	133.35	106.38	5.5	66	31.5	15.5
BS-210 A8	254	100	220	171.45	139.72	5.5	86	26.5	7.5
BS-212 A8	320	113	300	235	196.869	6	91	37	7

規格 Spec 型號 Model	H	L1	L2	M1	N	P	O max	O min	R max	R min	S
BS-206 A5	19	18	30	M55*2.0	62	14	42.2	39.4	19.8	7.8	25
BS-208 A6	20.5	17	36	M75*2.0	73	20	50.6	46.9	22.8	9.3	31
BS-210 A8	25	24.5	37	M95*2.0	95	25	59.2	54.8	29.8	14.8	35
BS-212 A8	28	22	42	M130*2.0	110	30	79	68	29.8	14.3	40

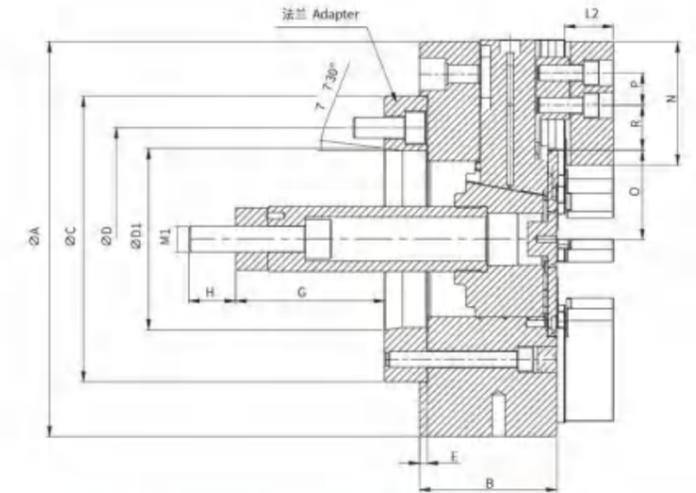
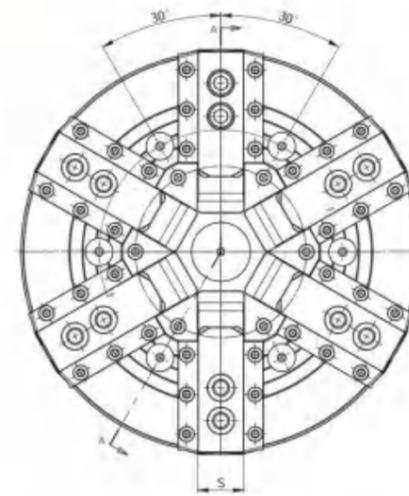
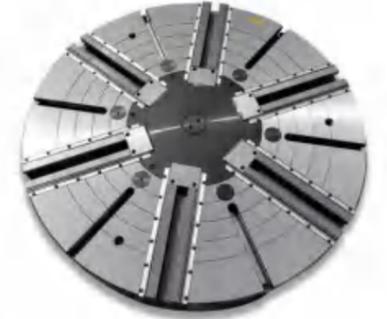
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## > TS-R SERIES

### 六爪中實動力卡盤

#### TS-R 6 JAW CLOSED CENTER POWER CHUCK

- 卡盤多點夾持，針對薄壁管形，環形工件，可改善工件夾持過程中的變形問題。
- 卡盤具有防塵功能。
- More contact point clamping, it can improve the deformation issue during clamping process for thin wall pipe or ring like workpiece.
- Chips proof function.



規格 Spec 型號 Model	楔心行程 Plunger stroke (mm)	爪行程直徑 Jaw stroke (Dia) (mm)	最大夾持直徑 Max. clamping dia (mm)	最小夾持直徑 Min clamping dia (mm)	容許油壓缸推力 Max. O.B. Pull (KN/kgf)
TS-212R A8	30	10.5	304	32	53(5448)
TS-215R A11	35	12.3	381	50	82(8429)

規格 Spec 型號 Model	最大夾持力 Max. clamping force (mm)	最高轉速 Max RPM	慣性矩 I kg·m <sup>2</sup>	重量 Weight kg	適合油壓缸 Matched cylinders	最大使用壓力 Max. pressure Mpa(kgf/cm <sup>2</sup> )
TS-212R A8	142(14597)	3000	0.95	67	S-150	2.1(21)
TS-215R A11	248(25495)	3000	1.95	116	S-200	2.1(21)

規格 Spec 型號 Model	A	B	C(H6)	D	D1	E	G max	G min
TS-212R A8	304	106	220	185	139.719	6	145	115
TS-215R A11	381	116	300	235	196.869	6	82	47

規格 Spec 型號 Model	H	L2	M1	N	P	O max	O min	R max	R min	S
TS-212R A8	36	38	M20*2.5	95	25	74.3	69	46	9	35
TS-215R A11	35	50	M30*3.5	129	30	93	87	56	12	50

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## JP系列 高速精密膜片夾頭

## JP SERIES HIGH SPEED DIAPHRAGM CHUCK

- 高精度三爪油壓膜片夾頭
- 夾頭本體密封，防塵防水防腐，低潤滑低保養需求
- 夾頭本體無滑動磨損，精度壽命長
- 適合高精度工件夾持加工
- 夾持力可以透過油缸出力精密微調
- 適合薄環件、薄管件、脆弱件夾持加工
- 搭配數控車床或精密研磨床工作

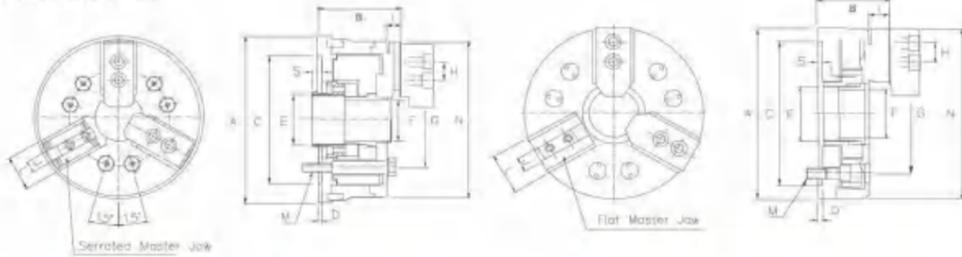
0.005mm repeatability.  
Anti centrifugal force design. Clamping force remains high in high R.P.M.  
Integrated dynamic-balancing-weights for fine balance adjustment.  
No sliding parts to wear out.  
Clamping force/stroke is proportional to actuating force. Ideal for fragile parts, or thin-wall parts clamping.



### 應用範例

- 軸承薄環件
- 數位相機零件
- 氣動手工具組的零件加工
- 微小引擎的缸套與活塞加工
- 超薄環形零件，超薄鋁管零件
- 陶瓷零件加工

### 產品尺寸及性能規格



型號/Model	JP-05	JP-06	JP-08	JP-10	JP-06L	JP-08L
A	147mm (5.79")	182mm (7.17")	232mm (9.13")	267mm (10.51")	167mm (6.57")	217mm (8.54")
B	68mm (2.68")	87mm (3.42")	98mm (3.86")	105mm (4.13")	65.5mm (2.58")	71.5mm (2.82")
C (H6)	110mm (4.33")	140mm (5.51")	170mm (6.69")	220mm (8.66")	140mm (5.51")	170mm (6.69")
D	4mm (0.16")	4.5mm (0.16")	4.5mm (0.16")	5mm (0.20")	5mm (0.20")	5mm (0.20")
E	M40 x P1.5	M55 x P2.0	M60 x P2.0	M85 x P2.0	M55 x P2.0	M60 x P2.0
F	33mm (1.30")	44mm (1.73")	50mm (1.97")	75mm (2.95")	44mm (1.73")	52mm (2.05")
G (P. C. D.)	82.6mm (3.25")	104.8mm (4.13")	133.4mm (5.25")	171.4mm (6.75")	104.8mm (4.13")	133.4mm (5.25")
H	14mm (0.55")	20mm (0.79")	25mm (0.98")	30mm (1.18")	20mm (0.79")	25mm (0.98")
I	13mm (0.51")	15mm (0.60")	17mm (0.67")	17mm (0.67")	17.5mm (0.69")	18.5mm (0.73")
J	10mm (0.39")	12mm (0.47")	14mm (0.55")	16mm (0.63")	12mm (0.47")	14mm (0.55")
L	30mm (1.18")	38mm (1.50")	42mm (1.65")	47mm (1.85")	38mm (1.50")	42mm (1.65")
M	M10 x 3	M10 x 6	M12 x 6	M16 x 6	M10 x 6	M12 x 6
N	136mm (5.35")	170mm (6.70")	217mm (8.54")	256mm (10.08")	165mm (6.50")	220mm (8.66")
S	14mm (0.55")	11mm (0.43")	11mm (0.43")			
最高轉速 Max RPM	8000	7500	6500	5500	600	600
回轉缸最大推力 Max. Axial Force	1750kgf (3850lbf)	2250kgf (4950lbf)	3500kgf (7700lbf)	4750kgf (10450lbf)	2250kgf (4950lbf)	3500kgf (7700lbf)
適用夾頭 Matching Chuck	5" 夾頭	6" 夾頭	8" 夾頭	10" 夾頭	6" 夾頭	8" 夾頭
安裝法蘭 Adapter plate	平背110mm A2-4	平背140mm A2-5	平背170mm A2-6	平背220mm A2-6/A2-8	平背140mm A2-4/A2-5/A2-6	平背170mm A2-6
產品淨重 N. W.	5.5kgs (12.1lbs)	11.0kgs (24.2lbs)	20.0kgs (44.0lbs)	30.5kgs (67.1lbf)	5.5kgs (12.1lbs)	8.0kgs (17.6lbs)

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## JPS系列 高速精密膜片夾頭

## JPS SERIES HIGH SPEED DIAPHRAGM CHUCK

- 高精度六爪油壓膜片夾頭
- 夾頭本體密封，防塵防水防腐，低潤滑低保養需求
- 夾頭本體無滑動磨損，精度壽命長
- 適合高精度工件夾持加工
- 夾持力可以透過油缸出力精密微調
- 適合薄環件、薄管件、脆弱件夾持加工
- 搭配數控車床或精密研磨床工作

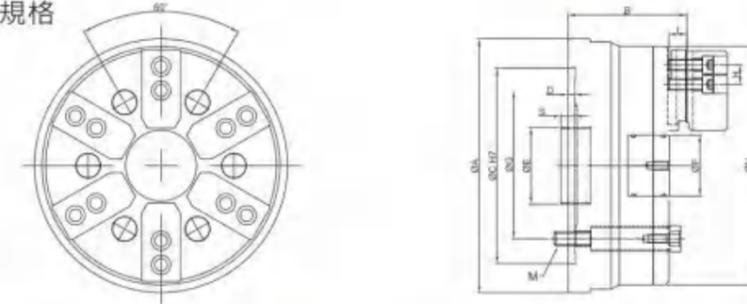
0.005mm repeatability.  
Anti centrifugal force design. Clamping force remains high in high R.P.M.  
Integrated dynamic-balancing-weights for fine balance adjustment.  
No sliding parts to wear out.  
Clamping force/stroke is proportional to actuating force. Ideal for fragile parts, or thin-wall parts clamping.



### 應用範例

- 軸承薄環件
- 數位相機零件
- 氣動手工具組的零件加工
- 微小引擎的缸套與活塞加工
- 超薄環形零件，超薄鋁管零件
- 陶瓷零件加工

### 產品尺寸及性能規格



型號 Model	JPS-06	JPS-08	JPS-10	JPS-12
A	182	233	267	315
B	86	98	107	107
C(H6)	14	170	220	220
D	5	5	5	5
E	M55XP2.0	M60XP2.0	M85XP2.0	M100XP2.0
F	44	55	83	91
G(P.C.D)	104.8	133.4	171.4	171.4
H	14	20	25	30
I	13	17	17	19
M	M10X6	M12X6	M16X6	M16X6
N	171	220	256	300
S	0-2	0-2	0-2	0-2
最高轉速 Max rpm	7500	6500	5500	3500
最大推力 Max. Axial Force	2250KGF(4950IBF)	3500KGF(7700IBF)	4750KGF(10450IBF)	3500KGF(7700IBF)
適合夾頭 Matching Chuck	5"夾頭 chuck	6"夾頭 chuck	8"夾頭 chuck	10"夾頭 chuck
安裝法蘭 Adapter Plate	平背140mm(A2-5)	平背170mm(A2-6)	平背220mm(A2-8)	平背170mm(A2-8)
產品淨重 N.W.	12KG	20KG	30.5KG	40KG

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## > RTS SERIES

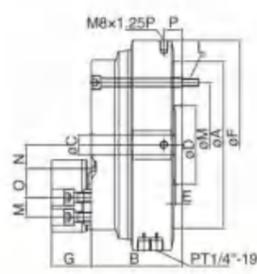
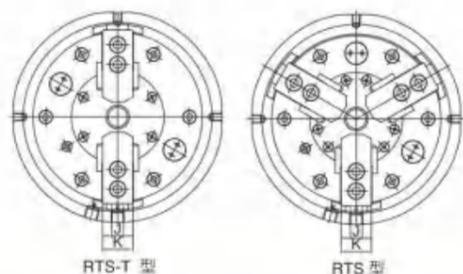
### 回轉氣壓夾盤

ROTARY AIR CHUCK  
MOUNTING ADAPTERS ON SHORT  
TAPER SPINDLE NOSES DIN 55026

- 防塵裝置: 使用迷宮環設計, 工作中鐵屑及切削液不易進入夾盤內部, 使夾盤延長使用壽命與精度保持。
- 內藏式止逆裝置: 內藏式止逆閥設計, 夾持狀態下不需持續供氣也能保持夾持力, 并且大幅降低工作扭矩減少負載。
- 前置式氣缸: 氣缸與夾盤直結設計, 確保夾持的穩定性, 更方便於組裝及操作。
- 氣缸防銹處理: 在潮濕及工作環境較差的情況, 氣缸內部經防銹處理, 不會生銹或卡死。



Dust and water proof cover:  
Design with Labyrinth Seal Rings, prevent the metal chips and coolant into the internal cylinder to guarantee chuck's performance and service life.  
Built in check Valve:  
Design with built in Check Valve. It's doesn't need to supply the air continuously and remain low working torque also reduce the air consumption.  
Higher Rotation Speed:  
Integral pneumatic cylinder:  
Connect chuck and built-in cylinder to each other directly; thus enables operation stability. Moreover, it is more convenient for installation and operation since the use of draw tube and draw bar are no longer necessary.  
Rustproof treated cylinder:  
The cylinder won't get rusty and seized even in wet or high moisture working environment.



使用範例/Operation Example

規格 Spec 型號 Model	A	B	C	D	E	F	G	H	I	J	K	L
RTS-05	140	85	16	60	6	182	33.6	62	14	10	25	6-M8x1.25P
RTS-06	170	93	20	80	7	215	40.4	73	20	12	31	6-M8x1.25P
RTS-08	215	112	30	110	8	255	42.4	95	25	14	35	6-M10x1.5P
RTS-10	255	120	43	140	8	300	46.4	110	30	16	40	6-M10x1.5P
RTS-05T	140	85	16	60	6	182	33.6	62	14	10	25	6-M8x1.25P
RTS-06T	170	93	20	80	7	215	40.4	73	20	12	31	6-M8x1.25P

規格 Spec 型號 Model	M	P	N max	N min	O max	O min	通孔直徑 (mm) Thru-Hole (Diameter)	活塞面積 Piston Area (cm <sup>2</sup> )	柱塞行程 (mm) Plunger Stroke	爪行程 (直徑) (mm) Jaw Stroke (Diameter)
RTS-05	PCDØ118	18.5	26.93	24.62	20.05	6.55	16	74	10	4.6
RTS-06	PCDØ147	18.5	36.46	33.69	21.55	15.55	20	120	13	5.5
RTS-08	PCDØ185	19.5	44.92	41.52	29.55	17.55	30	190	16	6.8
RTS-10	PCDØ220	21.5	53.63	49.59	36.55	17.05	43	280	19	8.0
RTS-05T	PCDØ118	18.5	26.93	24.62	20.05	6.55	16	74	10	4.6
RTS-06T	PCDØ147	18.5	36.46	33.69	21.55	15.55	20	120	13	5.5

規格 Spec 型號 Model	淨重 Weight Kg	最高回轉速 Max R.P.M	最大設定壓力 Max Pressure kgf/cm <sup>2</sup> (Mpa)	氣壓夾持力 Gripping Force At Air Pressure 7kgf/cm <sup>2</sup> (0.7Mpa) kgf (KN)	夾持範圍 Gripping Range (mm)
RTS-05	10	450	7	1340	(13.1) Ø4-Ø136
RTS-06	16.8	350	7	2330	(22.8) Ø25-Ø166
RTS-08	30.6	300	7	3730	(36.5) Ø33-Ø215
RTS-10	45.1	250	7	5480	(53.7) Ø43-Ø255
RTS-05T	9.7	450	7	1340	(13.1) Ø4-Ø136
RTS-06T	16.3	350	7	2330	(22.8) Ø25-Ø166

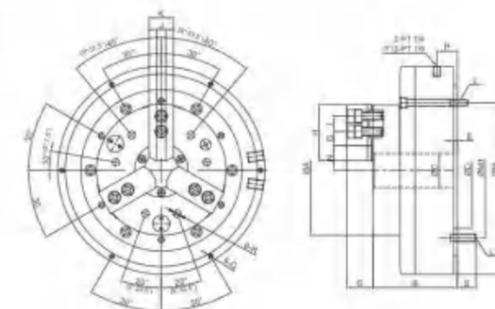
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## > HRT SERIES

### 回轉氣壓卡盤

ROTARY AIR CHUCK  
MOUNTING ADAPTERS ON SHORT  
TAPER SPINDLE NOSES DIN 55026

- 高轉速: 採用低損耗且耐磨材質, 提高回轉速度。
- 立臥兩用: 採用特殊結構設計, 立式及臥式機臺皆可使用。
- 加大氣缸: 提高夾持力, 防止高速運轉時工件飛散。
- 內藏式止逆裝置: 內藏式止逆閥設計, 夾持狀態下不需持續供氣也能保持夾持力。
- 防塵排水專利結構可以防止工作中鐵屑及切削液進入夾頭內部。
- High High rotary speed: With low-loss and wear-resistant materials to increase rotation speed.
- Twin usage for Horizontal or Vertical: Special design for multi-condition in Horizontal or Vertical direction.
- Enlarged piston: Improve clamping force to prevent workpieces from flying apart during high rotation.
- Built-in Check Valve: Design with built in check valve, the air-pressure will be lock inside the cylinder, the air-supplying is unnecessary when clamping the workpiece.
- Patented Dust-proof & Liquiproof structure sealed the cylinder to prevent chips and coolant intrude into chuck.



單位/Unit:mm

型號/Model 規格/Spec	通孔直徑 Thru-Hole (Diameter) mm	活塞面積 Piston Area cm <sup>2</sup>	柱塞行程 Plunger Stroke mm	爪行程 (直徑) Jaw Stroke (Diameter) mm	最高轉速 Max.Speed r.p.m. (min <sup>-1</sup> )	最大設定壓力 Max. Pressure (Mpa) kgf/cm <sup>2</sup>	氣壓夾持力 Gripping Force At Air Pressure 7kgf/cm <sup>2</sup> (0.7Mpa) kgf / KN	夾持範圍 Gripping Range
HRT-05	26	135.8	11	4.6	3200	7 (0.7)	2500 (24.5)	Ø4-Ø135
HRT-06	38	198.74	15	5.3	3000	7 (0.7)	4500 (44.1)	Ø13-Ø169
HRT-08	52	302.2	16	6.8	2500	7 (0.7)	5600 (55)	Ø16-Ø200

型號/Model 規格/Spec	A	B	C	D	E	F	G	H	I	J	K	L	L1
HRT-05	135	104	26	120	6.5	213	31.6	62	14	10	25	6-M8x1.25P	6-M8x1.25P
HRT-06	169	127	38	160	6.5	255	37.6	73	20	12	31	6-M8x1.25P	6-M10x1.5P
HRT-08	200	136	52	185	8	295	39.5	95	25	14	35	6-M10x1.25P	6-M10x1.5P

型號/Model 規格/Spec	M	M1	N max.	N min.	O max.	O min.	P	Q	R	S
HRT-05	PCD Ø155	PCD Ø137	28.72	26.36	18.55	8.05	36.1	6-M6x1P(PCD Ø92)	6-M6x1P(PCD Ø92)	27
HRT-06	PCD Ø185	PCD Ø180	32.33	29.72	24.05	9.05	44.1	6-M8x1.25P(PCD Ø120)	6-M8x1.25P(PCD Ø120)	31
HRT-08	PCD Ø227	PCD Ø210	41.07	37.72	22.05	11.55	46.6	6-M10x1.5P(PCD Ø155)	6-M10x1.5P(PCD Ø155)	31

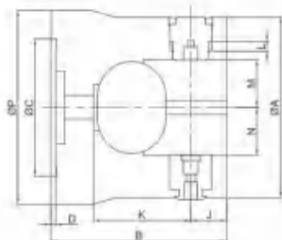
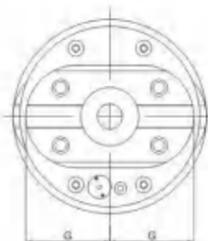
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非標準需求可訂做 Non-standard requirements can be made

### > IAC SERIES

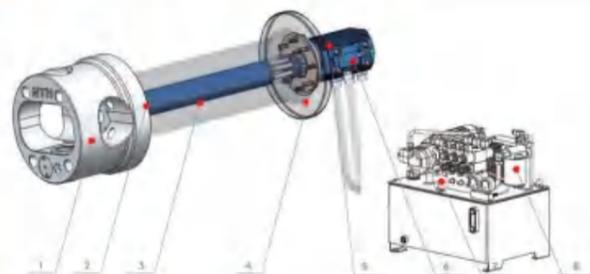
#### 自動分度卡盤

AUTO-INDEXING CHUCK

- 角度定制：非標角度可以定制
- 多面加工：同一本體一次裝夾實現8x45° 或6x60° 多個面加工
- 快速換模：插撥式夾具固定方案，1分鐘內實現夾具更換
- 浮動靠山：疊加專利技術浮動靠山，定位時伸出，轉位時縮回
- 高精度：角度分度精度<1' 重複定位<0.01mm
- Non-standard angles can be customized
- One time gripping can do multi-face processing by 8x45° or 6x60° turning
- Plug-in fixture fixing solution, fixture changing can be completed within 1 minute
- Floating position backer patented, after positioning, the backer will be retracted.
- Angle indexing accuracy is less than 1', Repeating position accuracy is less than 0.01mm.



#### 系統組成 SYSTEM COMPOSITION



序號	名稱	功能介紹
1	分度卡盤	實現工件的夾持、分度
2	前端法蘭	用以連接主軸鼻頭和分度卡盤
3	可伸縮連接杆	用以連接卡盤及分油器的油路
4	尾端法蘭	用以連接分油器和機床尾端
5	分油器	實現旋轉狀態下油路的分配和供給
6	卡死報警機構	提供卡盤45度以及90度頂料的到位檢測信號
7	油管總成	用以連接分油器及液壓站的油路
8	液壓站(選配)	給卡盤提供夾持和分度壓力

型號/規格 Spec/Model	ΦA	B	ΦC(H7)	D	G	J	K	M	N	P
IAC-168A/C	168	142	140	3.5	68	35	70	37.9	37.5	190
IAC-203A/C	203	158	140	5	82	36	82	48.3	43.5	216
IAC-225A/C	225	170	170	5	95	37	95	59.3	54.5	240
IAC-256A/C	256	187	220	5	105	42	105	61.5	60	276
IAC-305A/C	305	212	220	5	130	58	130	86	84.5	330
IAC-400A/C	400	278	300	8	175	58	175	118.8	114.5	416
IAC-460A/C	460	308	300	8	205	58	205	137	133	490

型號/規格 Spec/Model	夾緊力 KN	主軸孔徑 mm	最高轉速 rpm	重量 kg	適配主軸 No.	最大工件尺寸 mm	夾持行程 mm
IAC-168A/C	10.6	45	3500	15	A2-5	136	9
IAC-203A/C	11.3	45	3000	24	A2-5	164	15.2
IAC-225A/C	11.3	45	2800	30	A2-6	190	15.2
IAC-256A/C	14.5	45	2500	42	A2-8	210	19.1
IAC-305A/C	14.5	45	2200	61	A2-8	260	19.1
IAC-400A/C	31.4	45	1800	120	A2-11	350	30
IAC-460A/C	31.4	45	1500	161	A2-11	410	30

● 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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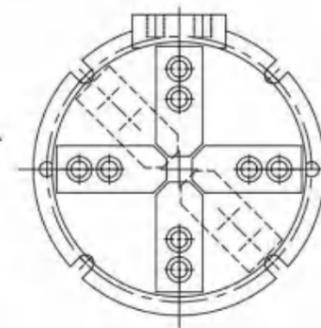
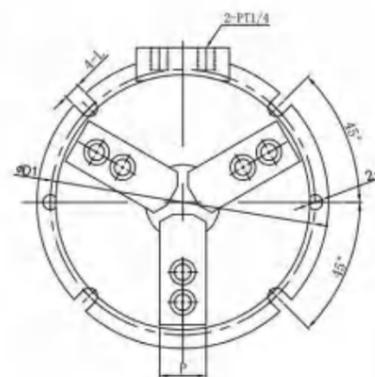
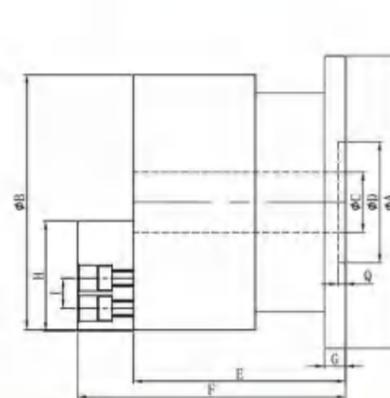
### > VH SERIES

#### 中空立式夾頭

STATIONARY CHUCK WITH THROUGH-HOLE



- 立式中空動力夾頭，適合鑽床，銑床或切削中心機使用。
- 此規格表為VH3-xx, 如需其他規格，請另行確認。
- 選擇卡盤與底座不同連接方式及不同爪數的產品時，下單時需按如下方式注明：  
一體形式：VH2-XX (二爪)、VH3-XX (三爪)、VH4-XX (四爪)。  
分體形式：VH-2XX (二爪)、VH-3XX (三爪)、VH-4XX (四爪)。
- Vertical hollow power chuck, suitable for drilling, milling, or cutting center machines.
- This specification table just shows VH3-XX models' data, please confirm with us when you need other models. Please remark the model name with jaw number when order by the rules. For integrated type chuck and base, please write the model name as following. VH2-XX (2 jaw), VH3-XX (3 jaw), VH4-XX (4 jaw). For separable type chuck and base, please write the model name as following. VH-2XX (2 jaw), VH-3XX (3 jaw), VH-4XX (4 jaw).



規格 Spec 型號 Model	活塞面積cm <sup>2</sup> Eff. piston area	活塞行程mm piston stroke	爪行程(直徑)mm Jaw stroke(Dia.)	最大夾緊力 KN(kgf) Max. clamping force	最大使用壓力 Mpa(kgf/cm <sup>2</sup> ) Max. pressure	夾緊範圍mm Chucking Range	重量kg Weight
VH3-05	46.7	10	5.4	35.8(3650)	3.7(37)	7-135	12
VH3-06	60.4	12	5.5	56.8(5800)	3.6(36)	12-168	20
VH3-08	98	16	7.4	85.8(8750)	3.6(36)	15-210	34
VH3-10	128.6	19	8.8	110.7(11300)	3.4(34)	31-254	56
VH3-12	155.3	23	10.6	143.6(14650)	3.6(36)	34-304	80
VH3-15	192.8	23	10.6	183.5(18350)	3.6(36)	50-381	150

● 注：二爪立式夾頭的最大油壓力應為三爪同規格所標最大油壓力的三分之二。  
 ● The maximum oil pressure of the two-claw vertical chuck should be two thirds of the maximum oil pressure of the three claws.

單位：mm

規格 Spec 型號 Model	A	B	C	D (H7)	D1	E	F	G	H	I	Q	L	N (H7)	P
VH3-05	158	135	28	50	140	111	142	12	62	14	5	9	10	25
VH3-06	178	169	40	60	160	138	175	14	73	20	5	11	10	31
VH3-08	210	210	45	80	190	158	196	16	95	25	5	13	10	35
VH3-10	250	254	70	90	230	186	229	18	100	30	6	13	12	40
VH3-12	266	304	82	90	246	200	251	18	130	30	6	13	12	50
VH3-15	400	381	120	130	326	236	302	25	165	43	12.5	22	-	62

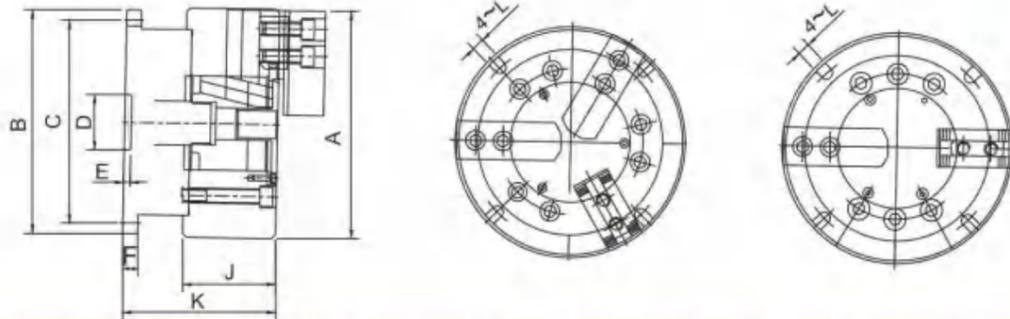
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## > VP SERIES

### 中實立式夾頭

NON-THRU-HOLE STATIONARY 2/3-JAW POWER CHUCK

- 立置式中實動力夾頭，適合鑽床、銑床或切削中心機使用，有二爪及三爪兩種形式。
- VP-200型式所配對之夾頭規格及寸法與TL型式相同。
- VP-300型式所配對之夾頭規格及寸法與T型式相同。
- It's STATIONARY CHUCKS with two or three jaws for drilling, milling and other machines.
- Specification and size of matching chuck for model VP-200 is the same as model TL.
- Specification and size of matching chuck for model VP-300 is the same as model T.



規格 Spec 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>		爪行程 (直徑) (mm) Jaw stroke	最高使用壓力 Mpa(kgf/cm <sup>2</sup> )	重量(kg) Weight
	伸側 Extend	拉側 Retract			
VP-204				2.1(21)	7.1
VP-205	28.0	24.9	6.4	3.1(31.5)	7.9
VP-305				2.3(23.3)	10.2
VP-206	63.1	53.5	8.5	3.5(35)	10.6
VP-306				2.4(24)	18.3
VP-208	103.4	90.8		3.6(36)	19.3
VP-308				2.0 (20)	31.6
VP-210	153.1	133.5	8.8	3.0(30)	33.6
VP-310				1.6(16)	52.8
VP-212	177	153	10.6	2.3(23)	54.5
VP-312				2.0(20)	117
VP-215	292	275	16	2.8(28)	119
VP-315				2.6(26)	160
				3.1(31)	165

規格 Spec 型號 Model	A	B	C	D H7	E	F	G	H	J	K	L	M
VP-204	110								23	92		
VP-205	135	146	130	30	4.5			26	52	95	9	PT1/4
VP-206	165	178	160						74	125		
VP-208	210	205	186	40					85	140		
VP-210	254	248	225	50	5			30	89	176	13	
VP-212	304	375	340	110					106	206	18	PT3/8
VP-215	381	400	376	130	10				114	228	22	
VP-315												

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## > MO MOT SERIES

### MO MOT內藏式中空(氣)油壓夾頭

BUILT IN CYLINDER POWER CHUCK

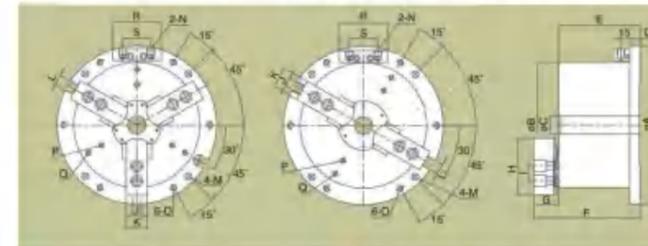


With built in type cylinder, it is ideal for machining application on working table.

#### L:加長行程 Long stroke

內藏式中空油壓夾頭適用於工作臺面的鑽銑加工作業。

- 氣缸防銹處理：在潮濕及工作環境較差的情況，氣缸內部經防銹處理，不會生銹或卡死。
- 防塵裝置：在工作臺上的鑽銑工作、切屑及冷卻液不易進入夾頭的內部，確保夾頭的使用壽命及精度。
- 內藏式油缸特性：把油缸直接裝置於夾頭內部，更能確保連接的穩定性，提升夾持力，適用於重切削及夾持精度的保持，提高加工效率。



- Rust-proof for pneumatic cylinder: inside wall of the cylinder being rustproof treated; the cylinder can work under the condition of wet and high moisture circumstances, and without rusty and stucked.
- Dusts-proof and water proof: the structure can prevent work chips and coolant water from entering into chuck cylinder, so its accuracy can be maintained, the service life will be longer.
- Benefits of built in cylinder: The cylinder is connected to chuck body directly for obtaining better stability, high clamping force, it's applicable for heavy turning and high accuracy and high efficiency demand.

#### 應用範例：Operation example

氣壓切換閥連接方式及可選配件  
 Examples of attaching pneumatic manual switch and optional accessories.



外接氣壓手動切換閥  
Split type hand control valve



連體氣壓手動切換閥  
Adherent type hand control valve

型號/Model 規格/Spec	活塞面積 Piston Area (cm <sup>2</sup> )	柱行程 Plunger Stroke (mm)	爪行程(直徑) Jaw stroke (Dia.) (mm)	最大夾持力 Max. clamping force KN	最大油壓力 Max. oil pressure Kgf/cm <sup>2</sup>	空壓夾持力(KN) Gripping force at 0.7MPa	淨重(Kg) N.W	夾持範圍 Gripping Range
MO-04	57	9	3.8	23.5	15	10.8	7.05	9-115
MO-05	74	10	5.4	32.2	20	12.7	11.2	12-135
MO-06	97	12	5.5	49.4	20	19.6	21	15-169
MO-08	156	16	7.4	79.4	20	32.3	36.8	20-210
MO-10	235	19	8.8	119.7	20	47	56.4	33-254
MO-12	292	23	10.6	142.1	20	50	88.5	40-304
ML-08	156	16.5	12	51	20	18	37.6	20-210
MOT-04	57	9	3.8	18.6	12	10.8	6.9	9-115
MOT-05	74	10	5.4	25.6	16	12.7	11.2	12-135
MOT-06	97	12	5.5	39.5	16	19.6	21	15-169
MOT-08	156	16	7.4	63.5	16	32.3	36.8	20-210
MOT-10	235	19	8.8	95.6	16	47	56.4	33-254

型號/Model 規格/Spec	A	B	C	D	E	F	G	H	I
MO-04	157	115		15	77.5	104	26	49.5	14
MO-05	185	135		15	95	128	33	62	14
MO-06	224	169	25	16	118	158	40	73	20
MO-08	265	210	30	20	138	180	42	95	25
MO-10	315	254	52	23	150	196	46	110	30
MO-12	375	304	80	23	165	219	54	129	30
ML-08	265	210	30	20	138	180	42	95	25
MOT-04	157	115		15	77.5	104	26	49.5	14
MOT-05	185	135		15	95	128	33	62	14
MOT-06	224	169	25	16	118	158	40	73	20
MOT-08	265	210	30	20	138	180	42	95	25
MOT-10	315	254	52	23	150	196	46	110	30

型號/Model 規格/Spec	J	K	L	M	N	O	P	Q	R	S
MO-04	10	23	13	9(PCD 135)	PT1/8	M8	3-M8(PCD 90)		64	47
MO-05	10	25	13	9(PCD 165)	PT1/4	M8	3-M8(PCD 100)		80	47
MO-06	12	31	18	11(PCD 202)	PT1/4	M10	3-M8(PCD 134)		80	47
MO-08	14	35	18	11(PCD 243)	PT1/4	M10	3-M10(PCD 136)	3-M10(PCD 186)	80	47
MO-10	16	40	18	13(PCD 285)	PT1/4	M12	3-M12(PCD 170)	3-M12(PCD 230)	80	47
MO-12	21	50	18	17(PCD 340)	PT3/8	M16	3-M12(PCD 200)	3-M12(PCD 260)	80	55
ML-08	14	35	18	11(PCD 243)	PT1/4	M10	3-M10(PCD 136)	3-M10(PCD 186)	80	47
MOT-04	10	23	13	9(PCD 135)	PT1/8	M8	2-M8(PCD 90)		64	47
MOT-05	10	25	13	9(PCD 165)	PT1/4	M8	2-M8(PCD 100)		80	47
MOT-06	12	31	18	11(PCD 202)	PT1/4	M10	2-M8(PCD 134)		80	47
MOT-08	14	35	18	11(PCD 243)	PT1/4	M10	2-M10(PCD 136)	2-M10(PCD 186)	80	47
MOT-10	16	40	18	13(PCD 285)	PT1/4	M12	2-M12(PCD 170)	2-M12(PCD 230)	80	47

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# NTH



P 氣, 油壓缸系列  
NEUMATIC AND HYDRAULIC  
CYLINDER SERIES

## > H SERIES

### 高速中空回轉油壓缸

### HIGH SPEED THROUGH-HOLE ROTARY HYDRAULIC CYLINDER



- 小型輕量：比起傳統的制品，實現小型（MAX 95mm 短縮），輕量（MAX 4.5kg 減輕化）。高速回轉時的性能更穩定，更減輕機械的負擔。
- 更大的貫通孔：比起以往的制品約有提高20%的貫通孔，可使機械的能力充分的活用。
- 安全構造：籍止回閥的內藏保持能力的構造。

- Compact and light weight : Comparing with the regular product, it is compact (reduced to MAX 95mm) and lighter (weighted MAX 4.5kg).
- It's more stable to reduce the burden of the machinery at high speed turning. The largest bore : Comparing with the regular product, it has about 20% larger bore diameter for utilizing the capacity of machinery.
- The safety structure : It can retain the gripping force by check valve.

型號 Model	活塞直徑 Piston Dia (mm)	活塞面積推側/拉側 Piston Area (cm <sup>2</sup> ) Push Side / Pull Side	最大拉杆拉力推側/拉側 Max. Draw Bar Force KN(kgf) Push Side / Pull Side	活塞行程 Piston Stroke (mm)	最大使用壓力 Max. Operating Pressure MPa(kgf / cm <sup>2</sup> )	最高回轉速 max r.p.m	慣性矩 kg·m <sup>2</sup>	重量 Weight (kg)	總流量 Total Leakage L/min
H-0928	90	53.2 / 48.3	19.9(2029) / 18(1835)	10	4.0 ( 40.8 )	8000	0.006	5.5	3
H-1036	105	71 / 68.5	26(2651) / 25(2549)	15	4.0 ( 40.8 )	8000	0.011	8.6	3
H-1038	105	71 / 66	26(2651) / 24.5(2498)	15	4.0 ( 40.8 )	8000	0.011	8.5	3
H-1236	125	100 / 89	38(3875) / 33(3365)	15	4.0 ( 40.8 )	7000	0.019	13	3
H-1246	125	100 / 89	38(3875) / 33(3365)	15	4.0 ( 40.8 )	7000	0.019	12	3
H-1546	155	161 / 154	60(6118) / 57.8(5894)	22	4.0 ( 40.8 )	6200	0.056	18	3.9
H-1552	155	161 / 150	60(6118) / 56(5710)	22	4.0 ( 40.8 )	6200	0.052	16.8	3.9
H-1868	180	198 / 197	74(7546) / 73.5(7495)	25	4.0 ( 40.8 )	4700	0.098	28	4.2
H-1870	180	198 / 183	74(7546) / 69(7036)	25	4.0 ( 40.8 )	4700	0.095	26.5	4.2
H-1875	180	198 / 183	74(7546) / 69(7036)	25	4.0 ( 40.8 )	4700	0.095	26	4.2
H-1878	180	198 / 183	74(7546) / 69(7036)	25	4.0 ( 40.8 )	4700	0.095	25.5	4.2
H-2078	205	262 / 234	98(9993) / 88(8973)	23	4.0 ( 40.8 )	3800	0.15	36.5	4.5
H-2085	205	252 / 234	94(9585) / 88(8973)	30	4.0 ( 40.8 )	3800	0.15	37.5	4.5
H-2091	205	252 / 234	94(9585) / 88(8973)	30	4.0 ( 40.8 )	3800	0.15	37	4.5
H-2511	250	348 / 336	124(12644) / 120(12236)	23	4.0 ( 40.8 )	2800	0.45	57	7
H-2511S	250	348 / 336	124(12644) / 120(12236)	23	4.0 ( 40.8 )	2800	0.41	53	7
H-2416	290	418.4/375.4	110.6(11286)/99.2(10125)	35	3.0 ( 30 )	2000	1.12	78	9

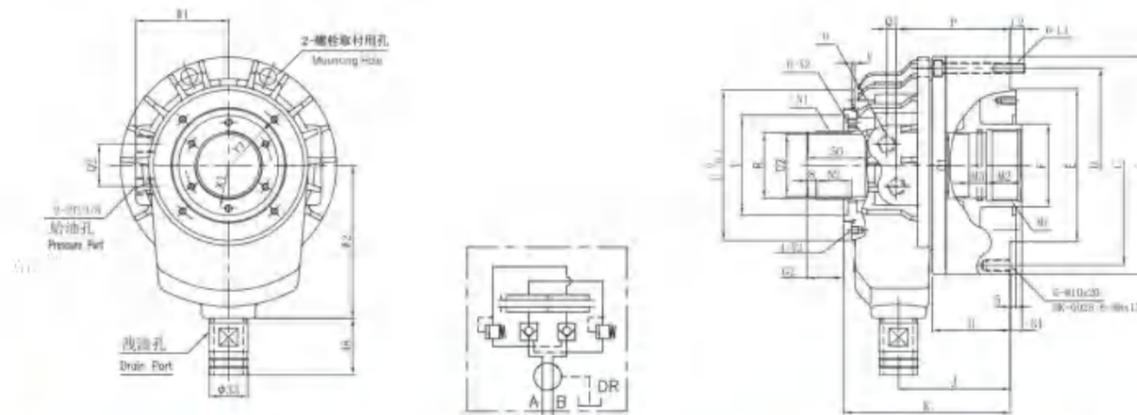
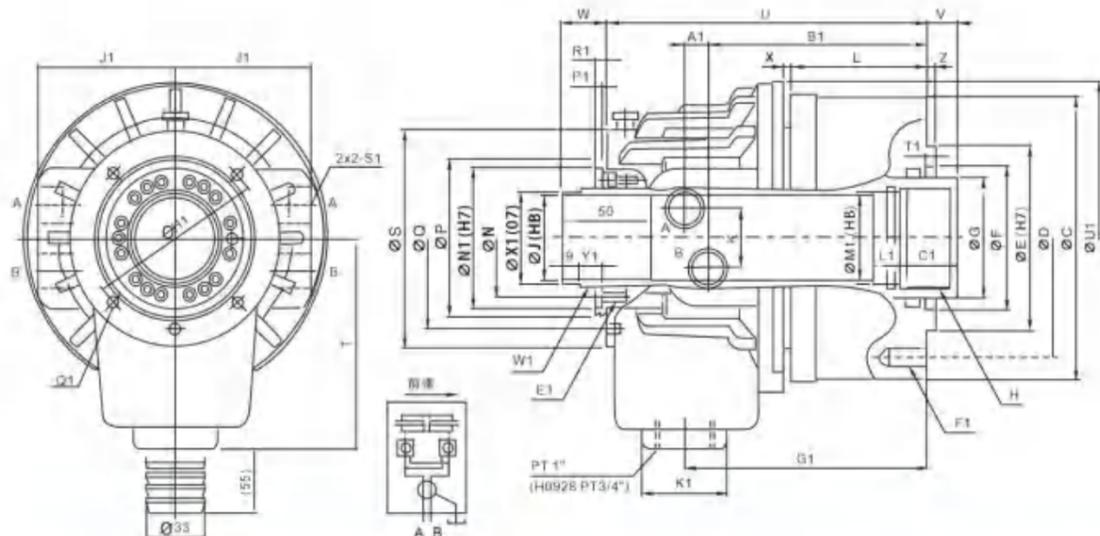
● 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
● 非標需求可訂做 Non-standard requirements can be made

## > HK SERIES

### 超短型中空回轉油壓缸(一)

SHORT TYPE ROTATING HYDRAULIC CYLINDER WITH THROUGH-HOLE AND SAFETY DEVICE

- 超短, 大孔徑型回轉油壓缸, 全長僅為從來型的2/3。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- 安裝時可前後選擇固定。
- Super short form, light weight large Through-Hole, just as 2/3 of typical model length.
- Built-in safety check valves and pressure relief valves.
- Forward and backward choose a fixed installation.



型號 Model	A1	B1	C1	E1	F1	G1	H1	J1	K1	L1	M1	N1	P1	Q1	R1	S1	T1	U1	W1	X1	Y1
H-0928	9	108	25	8-M6x10	6-M6x15	110	76	58	44	15	34	53	4	4-M4x17	5	PT 1/4"	6	116	M34x1.5	32	15
H-1036	11	120.5	25	6-M5x10	6-M10x17	126	83/88	68	53	15	38	64	4	6-M5x12	5	PT 3/8"	6	136	M44x1.5	42	14
H-1038	11	120.5	25	6-M5x10	6-M10x17	126	88	68	53	15	40	64	4	6-M5x12	5	PT 3/8"	6	136	M44x1.5	42	14
H-1236	11	126.5	25	6-M6x12	12-M10x20	135	98	76	47	15	38	76	4	4-M5x12	6	PT 1/2"	6	169	M52x1.5	50	14
H-1246	11	126.5	30	6-M6x12	12-M10x20	135	98	76	47	15	50	76	4	4-M5x12	6	PT 1/2"	6	169	M52x1.5	50	14
H-1546	11	133.5	30	6-M6x12	12-M10x20	145	110	86	47	15	50	85	4	4-M6x12	7	PT 1/2"	6	188	M58x1.5	56	13.5
H-1552	11	133.5	30	6-M6x12	12-M10x20	145	110	86	47	15	55	85	4	4-M6x12	7	PT 1/2"	6	188	M58x1.5	56	13.5
H-1868	17.5	152.5	35	6-M6x12	12-M10x20	166.5	155	101	47	15	70	108	4	4-M6x12	7.5	PT 1/2"	6	215	M84x2	81	12.5
H-1870	17.5	152.5	35	6-M6x12	12-M10x20	166.5	155	101	47	15	75	108	4	4-M6x12	7.5	PT 1/2"	6	215	M84x2	81	12.5
H-1875	17.5	152.5	35	6-M6x12	12-M10x20	166.5	145/155	101	47	15	80	108	4	4-M6x12	7.5	PT 1/2"	6	215	M84x2	81	12.5
H-1878	17.5	152.5	35	6-M6x12	12-M10x20	166.5	155	101	47	20	82	108	4	4-M6x12	7.5	PT 1/2"	6	215	M84x2	81	12.5
H-2078	21	166.5	35	6-M6x12	12-M12x24	182	165	110	47	20	84	120	4	4-M6x12	7	PT 1/2"	6	240	M99x2	96	20
H-2085	21	166.5	35	6-M6x12	12-M12x24	182	165	110	47	20	89	120	4	4-M6x12	7	PT 1/2"	6	240	M99x2	96	13
H-2091	21	166.5	35	6-M6x12	12-M12x24	182	165	110	47	15	95	120	4	4-M6x12	7	PT 1/2"	6	240	M99x2	96	13
H-2511	27	184.5	45	6-M6x12	12-M16x32	197	206/215	129	55	20	123	160	5	4-M6x12	7	PT 1/2"	6	294	-	134.6	-
H-2511S	21	169.5	45	6-M6x12	12-M16x32	192	206	132	55	20	123	160	5	4-M6x12	7	PT 1/2"	6	294	-	134.6	-
H-2416	20	202.5	45	6-M6x12	6-M16x32	210.5	-	160.5	46	20	170	240	2	4-M6x12	5.5	PT 1/2"	6	345	M74x2	171	44

型號 Model	C	D	E	F	G	H	J	K	L	N	P	Q	S	T	U	V max.	V min.	W max.	W min.	X	Z
H-0928	120	100	80	65	44	M38x1.5	28	25	63	44	59	76	90	105	151	14	4	35	25	3	5
H-1036	136	115	100	65	48	M42x1.5	36	32	71	55	73	88	104	115	174.5	15	0	39	24	2.5	5
H-1038	136	115	100	65	50	M44x1.5	38	32	71	55	73	88	104	115	174.5	15	0	39	24	2.5	5
H-1236	155	130	100	80	65	M42x1.5	36	36	76	64	85	98	118	114	179	15	0	40	25	4	5
H-1246	155	130	100	80	65	M55x2	46	36	76	64	85	98	118	114	179	15	0	40	25	4	5
H-1546	190	170	130	85	65	M55x2	46	36	84	73	96	114	137	130	190.5	22	0	47.5	25.5	3.5	5
H-1552	190	170	130	85	70	M60x2	52	36	84	73	96	114	137	130	190.5	22	0	47.5	25.5	3.5	5
H-1868	215	190	160	120	85	M75x2	68	36	95	98	121	140	165	159	225	25	0	50	25	3	5
H-1870	215	190	160	120	95	M78x2	70	36	95	98	121	140	165	159	225	25	0	50	25	3	5
H-1875	215	190	160	120	95	M85x2	75	36	95	98	121	140	165	159	225	25	0	50	25	3	5
H-1878	215	190	160	120	95	M87x2	78	36	95	98	121	140	165	159	225	25	0	50	25	3	5
H-2078	240	215	180	140	110	M90x2	78	36	104	108	138	158	182	177	248	23	0	55	32	3	5
H-2085	240	215	180	140	110	M93x2	85	36	104	108	138	158	182	177	248	30	0	55	25	3	5
H-2091	240	215	180	140	110	M100x2	91	36	104	108	138	158	182	177	248	30	0	55	25	3	5
H-2511	310	275	230	166	140	M130x2	117.5	36	101	148	178	190	232	215	290	24	1	38	15	3	6
H-2511S	310	275	230	166	140	M130x2	117.5	36	101	148	178	190	232	215	258	24	1	38	15	3	6
H-2416	340	300	260	-	190	M180x2	166	50	129	188	200	260	300	235	299.5	35	0	65	25	1.5	5

保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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規格 Spec	活葉面積 Eff. piston area cm <sup>2</sup>		最高回轉速 max r.p.m	最大使用壓力 Max. Operating Pressure MPa(kg/cm <sup>2</sup> )	GD <sup>2</sup> kg.m <sup>2</sup>	總曳油量 Lit./min	重量(kg) Weight
型號 Model	伸側 Extend	拉側 Retract					
HK-0928	53.2	50.5	8000	3.5(35)	0.03	2.0	5
HK-1036	70.7	62.8	8000				
HK-1246	99.1	88.0	7000	4.0(40)	0.06	3.0	9.7
HK-1246(S)	99.1	88.0	7000				
HK-1552	135.3	125.0	6500	0.11	3.9	11.8	
HK-1875	179.5	163.5	5000				
HK-1875(S)	179.5	163.5	5000	0.24	4.2	21.5	

寸法 Size	A	B	C	D	E	F	G1		G2		H	J	K	L1	L2	M1	M2	M3
型號 Model					h7		max	min	max	min								
HK-0928	90	126	100	108	80	40	10		23	13	53	88	131	M8x60	14	M33x1.5	25	
HK-1036	105	142	115	125	100	48	15		25	10	65	94	150	M8x70	14	M42x1.5	25	
HK-1246	125	165	140	120	65	15			38	23	68	96	153	M8x75	15	M55x2	25	
HK-1246(S)	125	165	130	147	100	65	15	0	38	23	68	96	153	M8x75	15	M55x2	30	15
HK-1552	150	185	170	165	130	70	20		37	17	73	110	164	M8x75	15	M60x2	30	
HK-1875	175	215	190	190	160	95	25		46	21	84	131	181	M10x90	20	M85x2	35	
HK-1875(S)	175	215	190	195	160	95	25		46	21	84	131	181	M10x90	20	M85x2	35	

寸法 Size	N1	N2	O	O1	O2	P	Q1	Q2	R	T	U	V	W1	W2	X1	X2	Y1	Y2
型號 Model				H8	H8				g7									
HK-0928	M34x1.5	25	PT1/4	30	28	89	7	28	32	65	86	63	80	43	M4x8	76	M4x7	
HK-1036	M44x1.5	28	PT1/4	38	36	104	7	34	42	73	98	66	106	54	M5x8	83	M5x6	
HK-1246	M52x1.5	24	PT3/8	50	46	106	7	36	50	90	116	79	119	63	M6x8	98	M5x6	
HK-1246(S)	M52x1.5	24	PT3/8	50	46	106	7	36	50	90	116	2	79	119	63	M6x8	98	M5x6
HK-1552	M58x1.5	25	PT1/2	55	52	113	8	40	56	97	128	82	133	72	M6x8	110	M5x6	
HK-1875	M84x2	30	PT1/2	80	75	126	10	46	81	125	163	98	160	98	M6x8	155	M6x8	
HK-1875(S)	M84x2	30	PT1/2	80	75	126	10	46	81	125	163	98	160	98	M6x8	155	M6x8	

保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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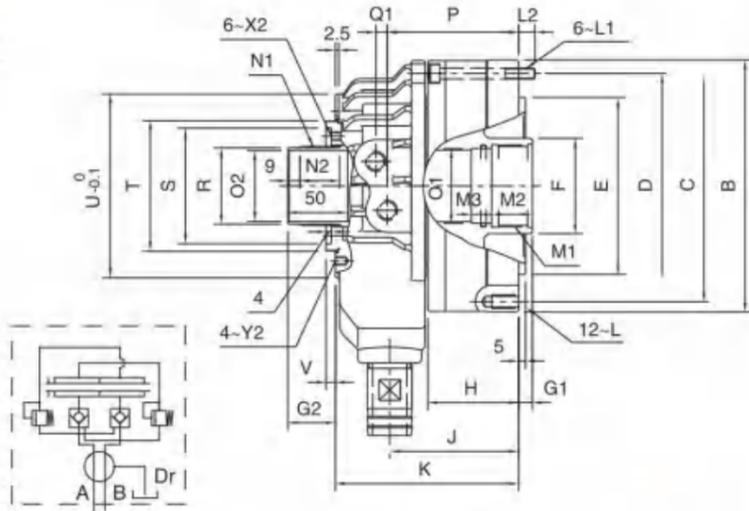
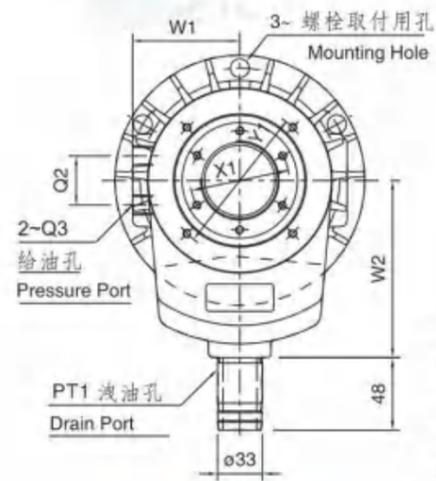
## > HK SERIES

### 超短型中空回轉油壓缸(二)

SHORT TYPE ROTATING HYDRAULIC CYLINDER WITH THROUGH-HOLE AND SAFETY DEVICE



- 超短, 大孔徑型回轉油壓缸, 全長僅為從來型的2/3。
- 內附逆止閥自鎖機構及壓力洩壓閥。
- 安裝時可前後選擇固定。
- Super short form, light weight large Through-Hole, just as 2/3 of typical model length.
- Built-in safety check valves and pressure relief valves.
- Forward and backward choose a fixed installation.



寸法 Size 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 max r.p.m	最高使用壓力 (kgf/cm <sup>2</sup> ) Mpa Max. pressure	慣性矩 kg·m	重量 (kg) Weight	總流量 Total Leakage L/min
	伸側 Extend	拉側 Retract						
HK-2091	234.0	217.5	30	3800	4.0(40)	0.092	24.8	4.5
HK-2511	356.5	335.3	35	3000	3.5(35)	0.38	49.5	7.0
HK-2114	373.2	336.1	51	2500	3.5(35)	0.54	58.2	8.0
HK-2820	526.2	472.6	1600	3.0(30)	2.4	134	10.0	

寸法 Size 型號 Model	A 內徑ID	B	C	D	E h7	F	G1		H	J	K	L	L1	L2	M1	M2	M3
							max	min									
HK-2091	200	245	215	225	180	110	30	55	87	127	185	M12x24	M10x95	18.5	M100x2	35	15
HK-2511	250	305	275	280	230	140	0	60	100	154	224	M16x32	M12X110	22.5	M130x2		
HK-2114	265	320	295	295	240	165	35	25	115	173.5	247.5	M16x32	M12X120	17.5	M155x2	45	20
HK-2820	340	395	365	--	320	235	51	51	141	213	305	M20x40	--	--	M220x3	45	20

寸法 Size 型號 Model	N1	N2	O1 H8	O2 H8	P	Q1	Q2	Q3	R g7	S H7	T	U	V	W1	W2	X1	X2	Y1	X2
HK-2511	M130x2.0	38	125	120	152	17	50		126	150	170	227	7	134	210	138			210
HK-2114	M150x2.0		145	140	170	17	50	PT1/2	146	170	190	250		145		160			230
HK-2820	M218x2.0	62	210	205	202	26	50		215	262	285	360	10	195	300	240			320

● 保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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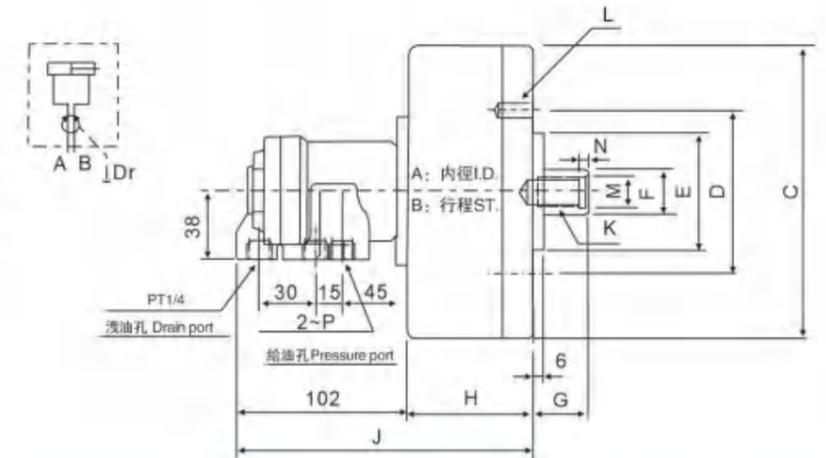
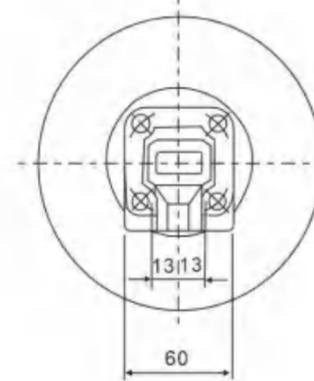
## > S SERIES

### 中實回轉油壓缸

ROTARY HYDRAULIC CYLINDER



- 回轉閥體與缸體皆採用特殊輕合金製造而成, 重量輕。
- 回轉閥經特殊設計, 使得內部的軸承能充分的潤滑及冷卻, 而能耐高速回轉, 增長壽命。
- The rotary valve and cylinder body, all made of special light alloy, light-weight.
- Through unique design, the rotary valve enables the inside bearing to get sufficient lubricating and cooling and endure high-speed rotary for longer service life.
- 洩油孔配管務必單獨接回油壓槽, 以避免產生背壓。
- The drain port should be independently connected to oil tank to avoid back pressure.



規格 Spec 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 max r.p.m	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	慣性矩 kg·m	重量 (kg) Weight
	伸側 Extend	拉側 Retract					
S-65	31.0	27.9	15	6000		0.01	2.9
S-80	47.7	42.8	15	6000	3.5(35)	0.01	3.4
S-100	75.4	70.5	20	5500		0.04	4.9
S-125	119.6	112.5	25	5500		0.08	6.8
S-150	173.6	157.7	30	4000		0.18	11.5
S-200	310.0	286.3	35	4000	4.0(40)	0.38	20.4

規格 Spec 型號 Model	A	B	C	D	E h7	F	G		H	J	K	L	M H8	N	2-P
							max	min							
S-65	65	15	98	80	60	22	45	30	74	175	M12x1.75x30	6~M8x16	-	PT3/8	
S-80	80	15	112	90	65	25	45	30	74	175	M16x2.0x30	6~M8x16	-	PT3/8	
S-100	100	20	135	100	80	25	45	25	89	190	M20x2.5x35	6~M10x20	-	PT3/8	
S-125	125	25	160	130	110	30	50	25	96	197	M24x3.0x44	6~M12x20	-	PT3/8	
S-150	150	30	190	130	110	45	55	25	105	206	M30x3.5x45	12~M12x24	31	5	PT3/8
S-200	200	35	245	145	120	55	70	35	130	231	M36x4.0x60	12~M16x30	37	5	PT3/8

● 保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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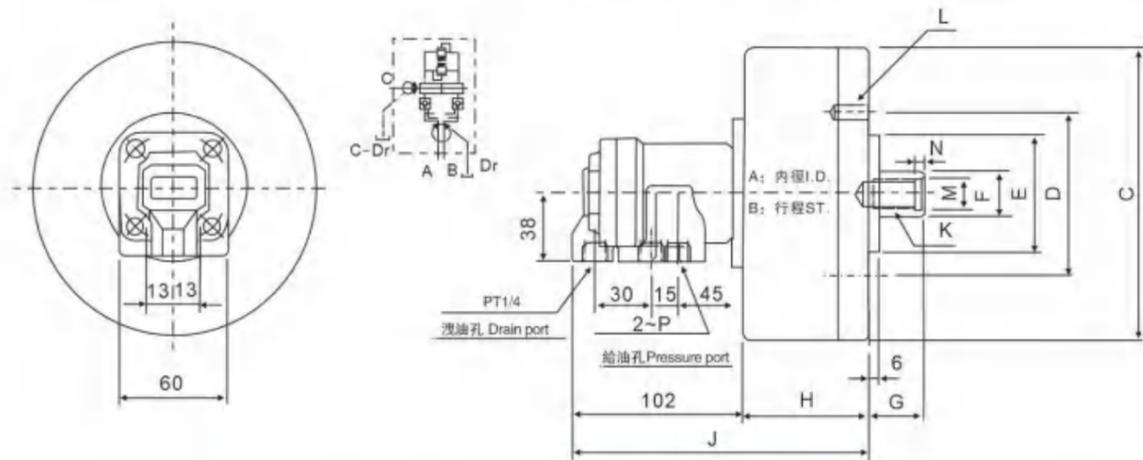
## > S-R SERIES

### 中實回轉油壓缸附逆止閥

### ROTARY HYDRAULIC CYLINDER WITH SAFETY DEVICE



- 回轉閥體與缸體皆採用特殊輕合金製造而成，重量輕。
- 回轉閥經特殊設計，使得內部的軸承能充分的潤滑及冷卻，而能耐高速回轉，增長壽命。
- The rotary valve and cylinder body ,all made of special light alloy, light-weight.
- Through unique design,the rotary valve enables the inside bearing to get sufficient lubricating and cooling and endure high-speed rotary for longer service life.
- 內建逆止閥自鎖機構及壓力洩壓閥。
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓。
- The drain port should be independently connected to oil tank to avoid back pressure.
- Built-in safety check valves and pressure relief valves.



規格 Spec 型號 Model	活塞面積 Eff.piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 max r.p.m	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量(kg) Weight
	伸側 Extend	拉側 Retract					
S-65R	31.0	27.9	15	6000	3.5(35)	0.01	2.9
S-80R	47.7	42.8	15	6000		0.01	3.4
S-100R	75.4	70.5	20	5500		0.04	4.9
S-125R	119.6	112.5	25	5500	4.0(40)	0.08	6.8
S-150R	173.6	157.7	30	4000		0.18	11.5
S-200R	310.0	286.3	35	4000		0.38	20.4

規格 Spec 型號 Model	A	B	C	D	E h7	F	G		H	J	K	L	M H8	N	2-P
							max	min							
S-65R	65	15	98	80	60	22	45	30	74	175	M12x1.75x30	6~M8x16	-	-	PT3/8
S-80R	80	15	112	90	65	25	45	30	74	175	M16x2.0x30	6~M8x16	-	-	PT3/8
S-100R	100	20	135	100	80	25	45	25	89	190	M20x2.5x35	6~M10x20	-	-	PT3/8
S-125R	125	25	160	130	110	30	50	25	96	197	M24x3.0x44	6~M12x20	-	-	PT3/8
S-150R	150	30	190	130	110	45	55	25	105	206	M30x3.5x45	12~M12x24	31	5	PT3/8
S-200R	200	35	245	145	120	55	70	35	130	231	M36x4.0x60	12~M16x30	37	5	PT3/8

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 非標準需求可訂做 Non-standard requirements can be made

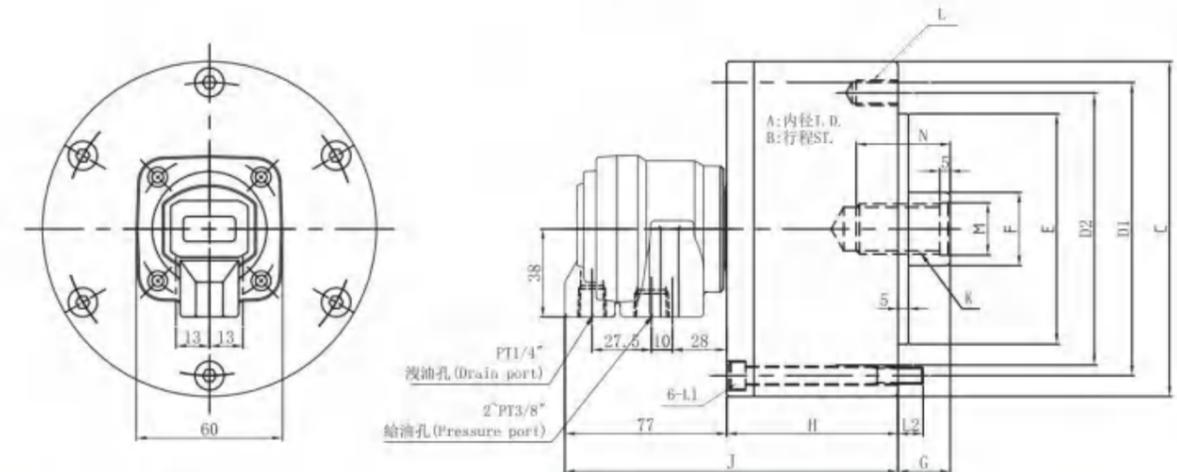
## > SNK SERIES

### 短型中實回轉油壓缸

### ROTARY HYDRAULIC CYLINDER



- 短型,高速,輕量型回轉油壓缸。
- 安裝時可由後端鎖固之。
- For short form ,light weight and high speed rotary cylinder.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓。
- The drain port should be independently connected to oil tank to avoid back pressure.



規格 Spec 型號 Model	活塞面積 Eff.piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 max r.p.m	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量(kg) Weight
	伸側 Extend	拉側 Retract					
SNK-75	44.2	37.1	15	6000	4.0(40)	0.01	2.8
SNK-100	78.5	71.5	20			0.03	4.3
SNK-125	122.7	113.1	25			0.05	6.8
SNK-150	176.7	160.8	30	5500	5.0(50)	0.09	9.4
SNK-200	314.1	290.4	35			0.28	15.3
SNK-250	469.1	436.0	60			0.40	45.2

規格 Spec 型號 Model	A	B	C	D1	D2	E h7	F	G		H	J	K	L	L1	L2	M
								max	min							
SNK-75	75	15	107	90	65	30	45	30	57	134	M20x2.5	6~M8x16	M8x60	-	-	21
SNK-100	100	20	132	115	100	80	50	72	149	199	6~M10x20	M8x75	12	-	-	
SNK-125	125	25	160	140	130	110	35	82	159	224	M24x3.0	6~M12x20	M8x85	-	-	25
SNK-150	150	30	190	170	140	120	45	95	172	250	M30x3.5	12~M12x24	M10x100	16	-	31
SNK-200	200	35	245	220	145	120	55	70	35	115	192	M36x4.0	12~M16x30	M10x125	21	37
SNK-250	245	60	307	275	220	160	65	85	25	165	255	M42x3.0	12~M20x35	M16x175	28	45

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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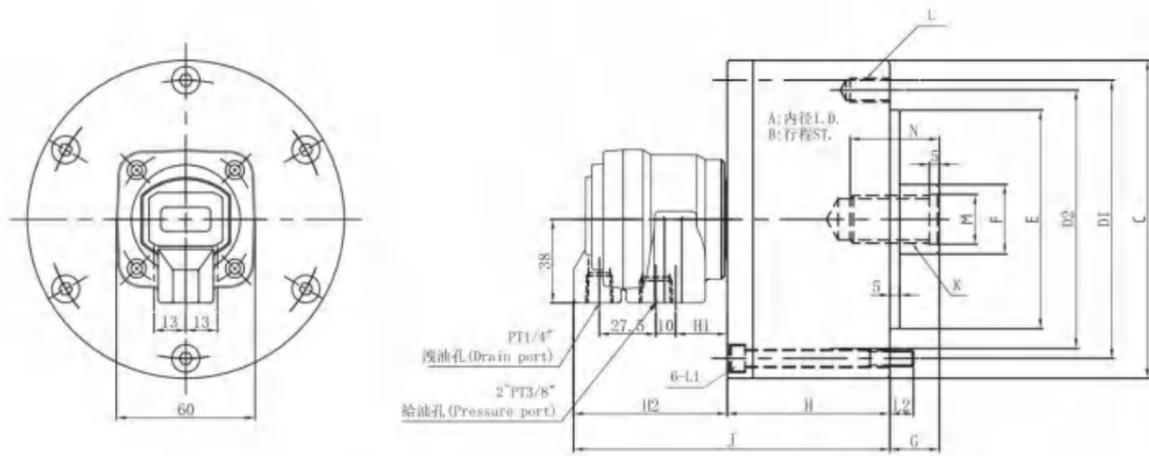
## > SNK-R SERIES

### 短型中實回轉油壓缸

ROTARY HYDRAULIC CYLINDER



- 短型, 高速, 輕量型回轉油壓缸。
- 安裝時可由後端鎖固之。
- 洩油孔配管務必單獨接回油壓槽, 以避免產生背壓。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- For short form, light weight and high speed rotary cylinder.
- Can screw it from the rear end of the cylinder when mounting.
- The drain port should be independently connected to oil tank to avoid back pressure.
- Built-in safety check valves and pressure relief valves.



規格 Spec 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 max r.p.m	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量(kg) Weight
	伸側 Extend	拉側 Retract					
SNK-75R	44.2	37.1	15	6000	4.0(40)	0.01	2.8
SNK-100R	78.5	71.5	20				
SNK-125R	122.7	113.1	25	5500	0.05	6.8	
SNK-150R	176.7	160.8	30				
SNK-200R	314.1	290.4	35	2000	0.28	15.3	
SNK-250R	469.1	436.0	60				

規格 Spec 型號 Model	A	B	C	D1	D2	E h7	F	G		H	H1	H2	J	K	L	L1	L2	M	
								max	min										
SNK-75R	75	15	107	90	65	30	45	30	57	42	91	148		M20x2.5	6~M8x16	M8x60			
SNK-100R	100	20	132	115	100	80			72	42	91	163			6~M10x20	M8x75	12	21	
SNK-125R	125	25	160	140	130	110	35	50	25	82	41	90	172	M24x3.0	6~M12x20	M8x85		25	
SNK-150R	150	30	190	170		45	55		95	39	89	184	M30x3.5	12~M12x24	M10x100	16	31		
SNK-200R	200	35	245	220	145	120	55	70	35	115	36	86	201	M36x4.0	12~M16x30	M10x125	21	37	
SNK-250R	245	60	307	275	220	160	65	85	25	165	33	90	255	M42x3.0	12~M20x35	M16x175	28	45	

● 保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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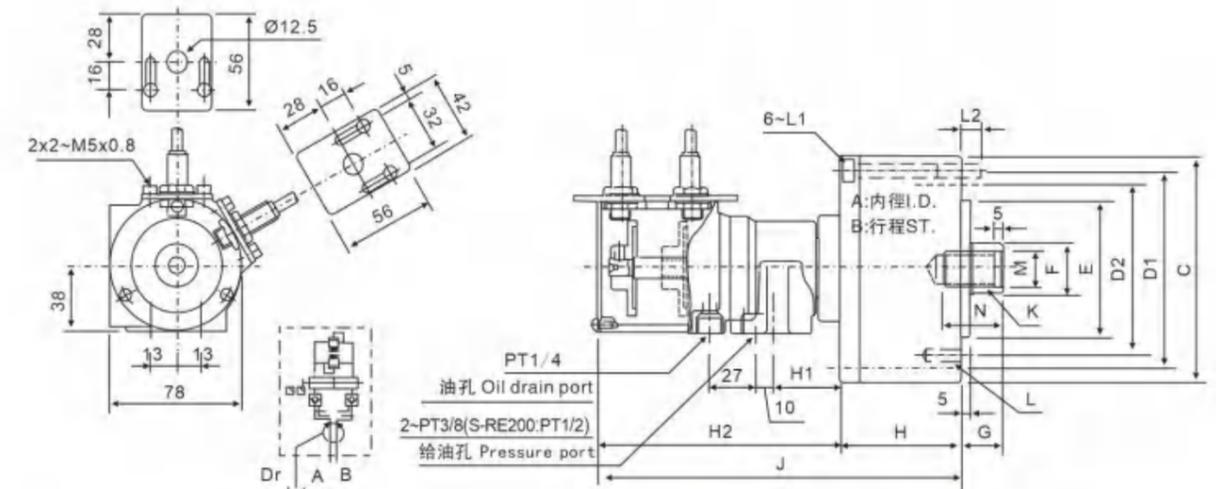
## > S-RE SERIES

### 中實回轉油壓缸附安全及檢測

ROTARY HYDRAULIC CYLINDER WITH SAFETY AND DETECTION



- 短型, 高速, 行程控制型回轉油壓缸。
- 感應式近接開關, 行程調整容易, 可確認油壓缸正確作動。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- 安裝時可由後端鎖固之。
- For short form, high speed and stroke control.
- To ensure safe power chuck operations by conforming movement of the piston in the cylinder.
- Built-in safety check valves and pressure relief valves.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽, 以避免產生背壓。
- The drain port should be independently connected to oil tank to avoid back pressure.



規格 Spec 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 max r.p.m	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量(kg) Weight
	伸側 Extend	拉側 Retract					
S-75RE	43.0	37.1	15	6000	4.0(40)	0.01	3.4
S-100RE	77.4	71.5	20				
S-125RE	121.6	113.1	25	5500	0.05	7.4	
S-150RE	175.6	160.8	30				
S-200RE	313.0	290.4	35	0.29	15.9		

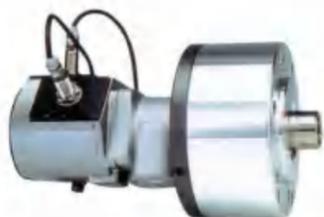
規格 Spec 型號 Model	A	B	C	D1	D2	E h7	F	G		H	H1	H2	J	K	L	L1	L2	M	N
								max	min										
S-75RE	75	15	107	90	65	30	45	30	57	42	137	194		M20x2.5	6~M8x16	M8x60			
S-100RE	100	20	132	115	100	80			72	42	137	209			6~M10x20	M8x75	12	21	35
S-125RE	125	25	160	140	130	110	35	50	25	82	41	136	218	M24x3.0	6~M12x20	M8x85		25	
S-150RE	150	30	190	170		45	55		95	39	134	230	M30x3.5	12~M12x24	M10x100	16	31		
S-200RE	200	35	245	220	145	120	55	70	35	115	36	132	248	M36x4.0	12~M16x30	M10x125	21	37	60

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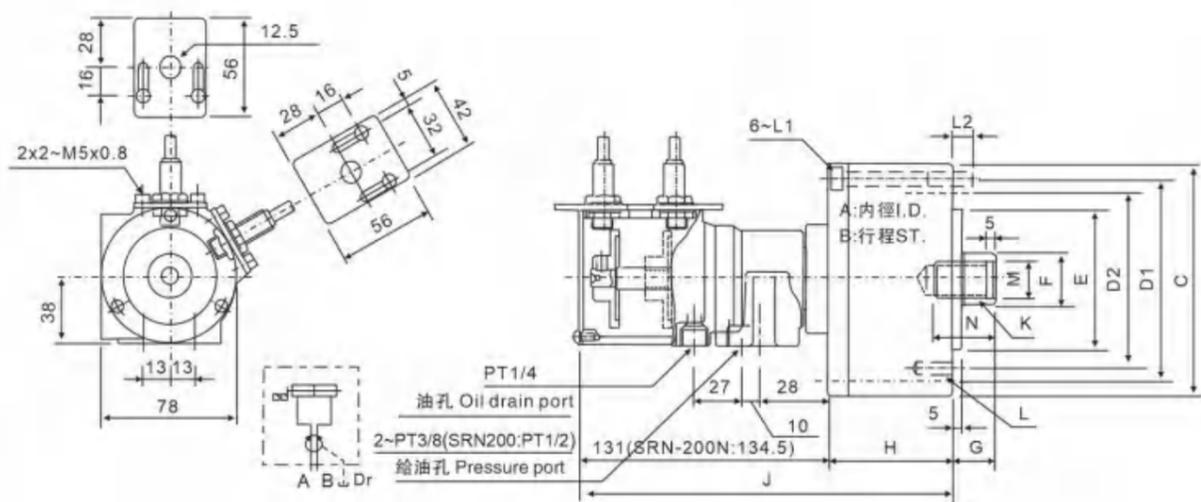
## > SRN SERIES

### 中實回轉油壓缸附確認裝置

HYDRAULIC ROTARY CYLINDER WITH STROKE CONTROL



- 短型, 高速, 行程控制型回轉油壓缸。
- 感應式近接開關, 行程調整容易, 可確認油壓缸正確作動。
- 安裝時可由後端鎖固之。
- For short form, high speed and stroke control.
- To ensure safe power chuck operations by conforming movement of the piston in the cylinder.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽, 以避免產生背壓。
- The drain port should be independently connected to oil tank to avoid back pressure.



規格 Spec 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 max r.p.m	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量(kg) Weight
	伸側 Extend	拉側 Retract					
SRN-75	43.0	37.1	15	6000	4.0(40)	0.01	3.4
SRN-100	77.4	71.5	20			0.04	4.9
SRN-125	121.6	113.1	25			0.05	7.4
SRN-150	175.6	160.8	30	5500		0.10	10.7
SRN-200	313.0	290.4	35			0.29	15.9

規格 Spec 型號 Model	A	B	C	D1	D2	E h7	F	G		H	H1	H2	J	K	L	L1	L2	M	N
								max	min										
SRN-75	75	15	107	90	90	65	30	45	30	57	42	137	194	M20x2.5	6-M8x16	M8x60	12	21	35
SRN-100	100	20	132	115	100	80	35	50	25	72	42	137	209	M24x3.0	6-M10x20	M8x75	12	21	35
SRN-125	125	25	160	140	130	110	35	50	25	82	41	136	218	M24x3.0	6-M12x20	M8x85	12	21	35
SRN-150	150	30	190	170	150	110	45	55		95	39	134	230	M30x3.5	12-M12x24	M10x100	16	31	45
SRN-200	200	35	245	220	145	120	55	70	35	115	36	132	248	M36x4.0	12-M16x30	M10x125	21	37	60

● 保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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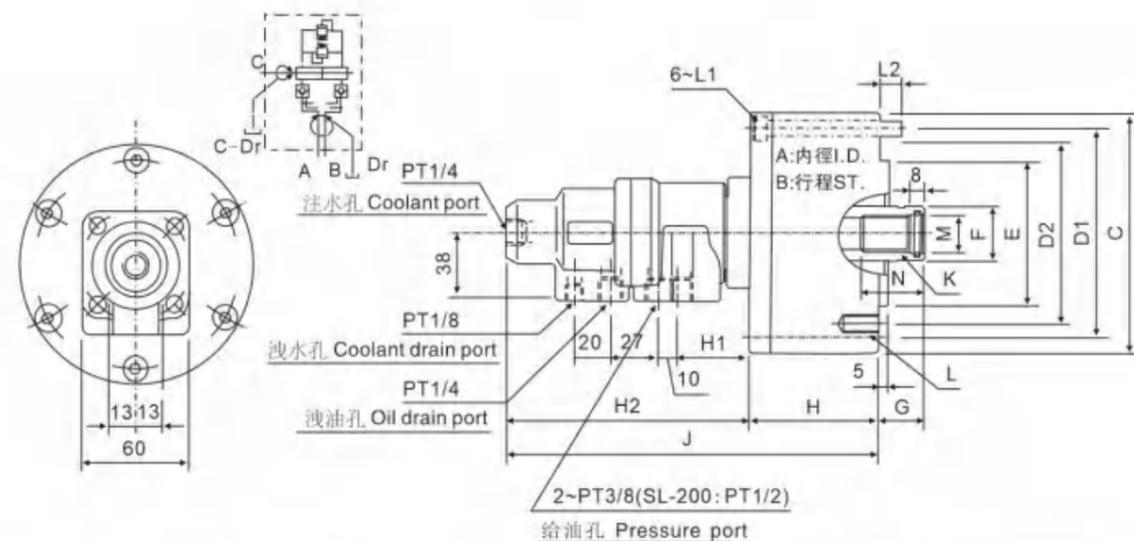
## > SL SERIES

### 中實回轉油壓缸附安全及注水裝置

ROTARY HYDRAULIC CYLINDER WITH COOLANT CONNECTION AND SAFETY DEVICE



- 高速, 注水型回轉油壓缸。可經由後端回轉聯手供給切削水。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- To allow coolant to be feed from the rear end of the distributor through the rotating union.
- Built-in safety check valves and pressure relief valves.
- 洩油孔配管務必單獨接回油壓槽, 以避免產生背壓。
- The drain port should be independently connected to oil tank to avoid back pressure.



規格 Spec 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 max r.p.m	最高使用壓力 Mpa Max. pressure (kgf/cm <sup>2</sup> )	注水部最高使用壓力 (kgf/cm <sup>2</sup> ) Mpa Coolant connection Max. pressure	慣性矩 kg·m <sup>2</sup>	重量(kg) Weight
	伸側 Extend	拉側 Retract						
SL-75	42.6	37.1	15	6000	4.0(40)	3.5(35)	0.01	3.1
SL-100	77.0	71.5	20				0.04	4.6
SL-125	121.2	113.1	25				0.06	7.1
SL-150	175.2	160.8	30	5500			0.10	9.7
SL-200	312.5	290.4	35				0.30	15.6

規格 Spec 型號 Model	A	B	C	D1	D2	E h7	F	G		H	H1	H2	J	K	L	L1	L2	M H8	N
								max	min										
SL-75	75	15	107	90	90	65	30	45	30	57	42	137	194	M20x2.5	6-M8x16	M8x60	12	21	35
SL-100	100	20	132	115	100	80	35	50	25	72	42	137	209	M24x3.0	6-M10x20	M8x75	12	21	35
SL-125	125	25	160	140	130	110	35	50	25	82	41	136	218	M24x3.0	6-M12x20	M8x85	12	21	35
SL-150	150	30	190	170	150	110	45	55		95	39	134	230	M30x3.5	12-M12x24	M10x100	16	31	45
SL-200	200	35	245	220	145	120	55	70	35	115	36	132	248	M36x4.0	12-M16x30	M10x125	21	37	60

● 保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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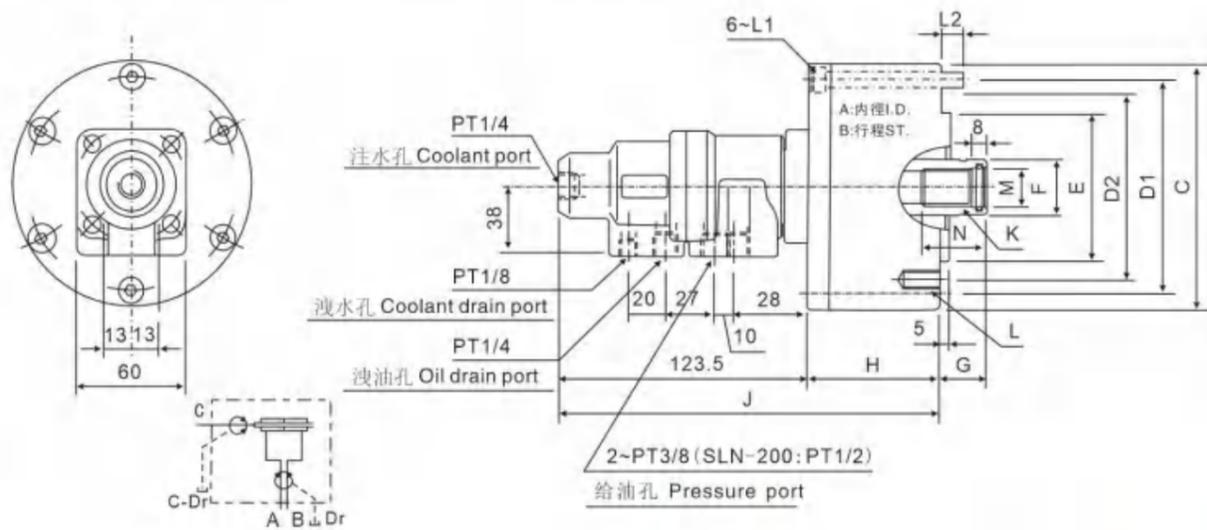
## > SLN SERIES

### 中實回轉油壓缸附注水裝置

ROTARY HYDRAULIC CYLINDER WITH COOLANT CONNECTION



- 高速, 注水型回轉油壓缸, 可經由後端回轉聯手供給切削水。
- 安裝時可由後端鎖固之。
- To allow coolant to be feed from the rear end of the distributor through the rotating union.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽, 以避免產生背壓。
- The drain port should be independently connected to oil tank to avoid back pressure.



規格 Spec 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup> 伸側 Extend	拉側 Retract	行程 (mm) Piston stroke	最高回轉速 max r.p.m	最高使用壓力 Mpa Max. pressure (kgf/cm <sup>2</sup> )	注水部最高使用壓力 Mpa Coolant connection Max. pressure	慣性矩 kg·m <sup>2</sup>	重量 Weight (kg)
SLN-75	42.6	37.1	15	6000	4.0(40)	3.5(35)	0.01	3.0
SLN-100	77.0	71.5	20					
SLN-125	121.2	113.1	25					
SLN-150	175.2	160.8	30					
SLN-200	312.5	290.4	35	5500			0.29	15.5

規格 Spec 型號 Model	A	B	C	D1	D2	E h7	F	G max min		H	J	K	L	L1	L2	M H8	N
SLN-75	75	15	107	90	65	30	45	30	57	180		M20x2.5	6~M8x16	M8x60		21	35
SLN-100	100	20	132	115	100	80	30	45	72	195		M20x2.5	6~M10x20	M8x75	12	21	35
SLN-125	125	25	160	140	130	110	35	50	82	205		M24x3.0	6~M12x20	M8x85		25	45
SLN-150	150	30	190	170		120	45	55	95	218		M30x3.5	12~M12x24	M10x100	16	31	45
SLN-200	200	35	245	220	145	120	55	70	115	240		M36x4.0	12~M16x30	M10x125	21	37	60

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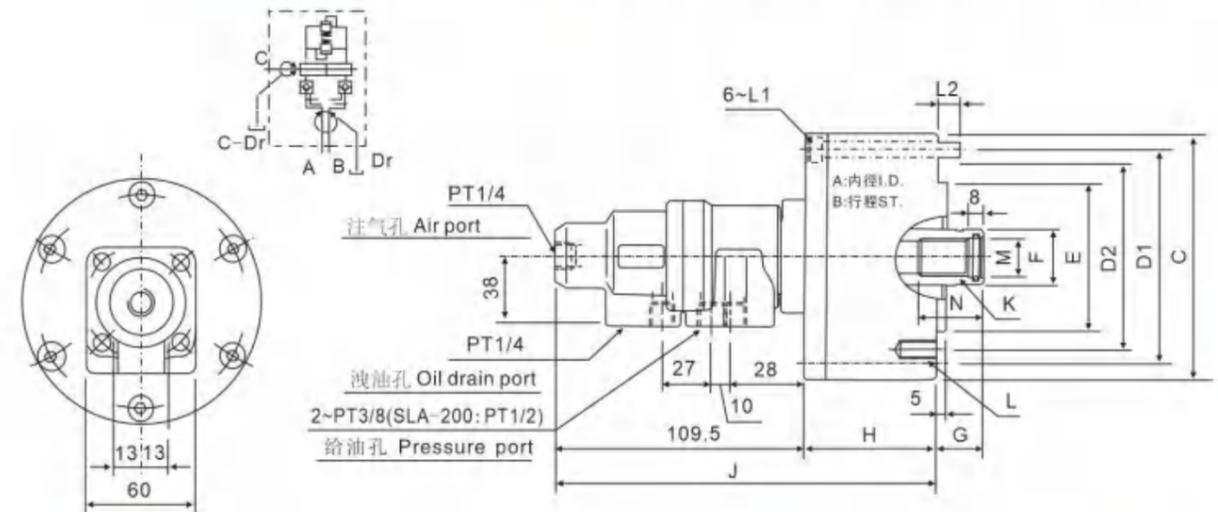
## > SLA SERIES

### 注氣型回轉油壓缸

ROTATING HYDRAULIC CYLINDER WITH AIR CONNECTION



- 高速, 注氣型回轉油壓缸, 可經由後端回轉聯手供給空氣。
- 安裝時可由後端鎖固之。
- 內建逆止閥自鎖機構及壓力洩壓閥
- 使用時, 請混入微量的油霧。
- To allow compressed air to be feed from the rear end of the distributor through the rotating union.
- Can screw it from the rear end of the cylinder when mounting.
- When used, a little oil mist should be contained.
- Built-in safety check valves and pressure relief valves.



規格 Spec 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup> 伸側 Extend	拉側 Retract	行程 (mm) Piston stroke	最高回轉速 max r.p.m	最高使用壓力 Mpa Max. pressure (kgf/cm <sup>2</sup> )	注氣部最高使用壓力 Mpa Air connection Max. pressure(kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量 Weight (kg)
SLA-75	42.6	37.1	15	6000	4.0(40)	0.8(8)	0.01	3.0
SLA-100	77.0	71.5	20					
SLA-125	121.2	113.1	25					
SLA-150	175.2	160.8	30					
SLA-200	312.5	290.4	35	5500			0.29	15.5

規格 Spec 型號 Model	A	B	C	D1	D2	E h7	F	G max min		H	J	K	L	L1	L2	M H8	N
SLA-75	75	15	107	90	65	30	45	30	57	166		M20x2.5	6~M8x16	M8x60		21	35
SLA-100	100	20	132	115	100	80	30	45	72	181		M20x2.5	6~M10x20	M8x75	12	21	35
SLA-125	125	25	160	140	130	110	35	50	82	191		M24x3.0	6~M12x20	M8x85		25	45
SLA-150	150	30	190	170		120	45	55	95	204		M30x3.5	12~M12x24	M10x100	16	31	45
SLA-200	200	35	245	220	145	120	55	70	115	225		M36x4.0	12~M16x30	M10x125	21	37	60

● 保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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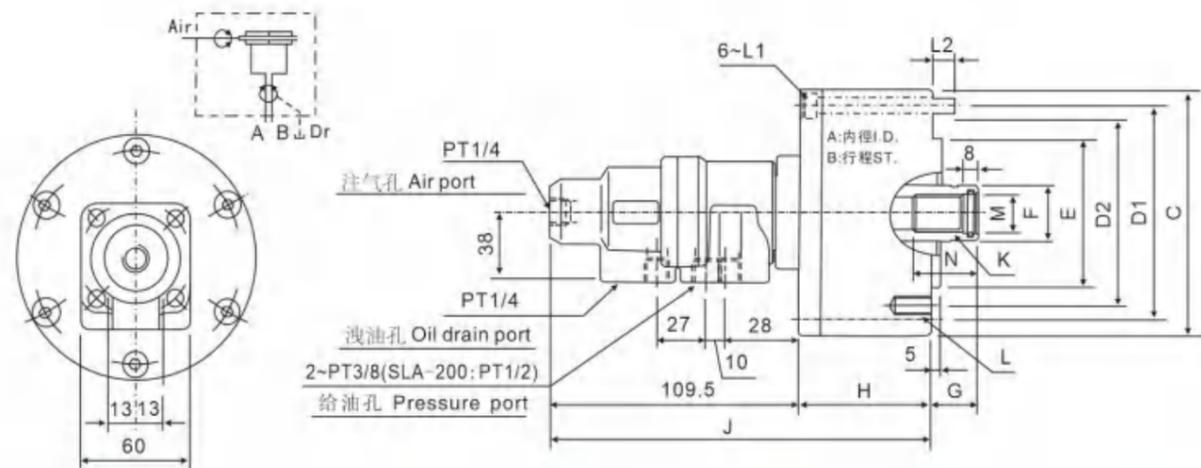
## > SLAN SERIES

### 注氣型回轉油壓缸

ROTATING HYDRAULIC CYLINDER WITH AIR CONNECTION



- 高速, 注氣型回轉油壓缸, 可經由後端回轉聯手供給空氣。
- 安裝時可由後端鎖固之。
- To allow compressed air to be feed from the rear end of the distributor through the rotating union.
- Can screw it from the rear end of the cylinder when mounting.
- 使用時, 請混入微量的油霧。
- When used, a little oil mist should be contained.



規格 Spec 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 max. r.p.m	最高使用壓力 Mpa Max. pressure (kgf/cm <sup>2</sup> )	注氣部最高使用壓力 Mpa Air connection Max. pressure (kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量 Weight (kg)
	伸側 Extend	拉側 Retract						
SLAN-75	42.6	37.1	15				0.01	3.0
SLAN-100	77.0	71.5	20	6000			0.04	4.5
SLAN-125	121.2	113.1	25		4.0(40)	0.8(8)	0.06	7.0
SLAN-150	175.2	160.8	30				0.10	9.6
SLAN-200	312.5	290.4	35	5500			0.29	15.5

規格 Spec 型號 Model	A	B	C	D1	D2	E h7	F	G		H	J	K	L	L1	L2	M H8	N
								max	min								
SLAN-75	75	15	107	90	65	30	45	30		57	166		6~M8x16	M8x60			
SLAN-100	100	20	132	115	100	80				72	181		6~M10x20	M8x75	12	21	35
SLAN-125	125	25	160	140	130	110	35	50	25	82	191	M24x3.0	6~M12x20	M8x85		25	45
SLAN-150	150	30	190	170			45	55		95	204	M30x3.5	12~M12x24	M10x100	16	31	
SLAN-200	200	35	245	220	145	120	55	70	35	115	225	M36x4.0	12~M16x30	M10x125	21	37	60

● 保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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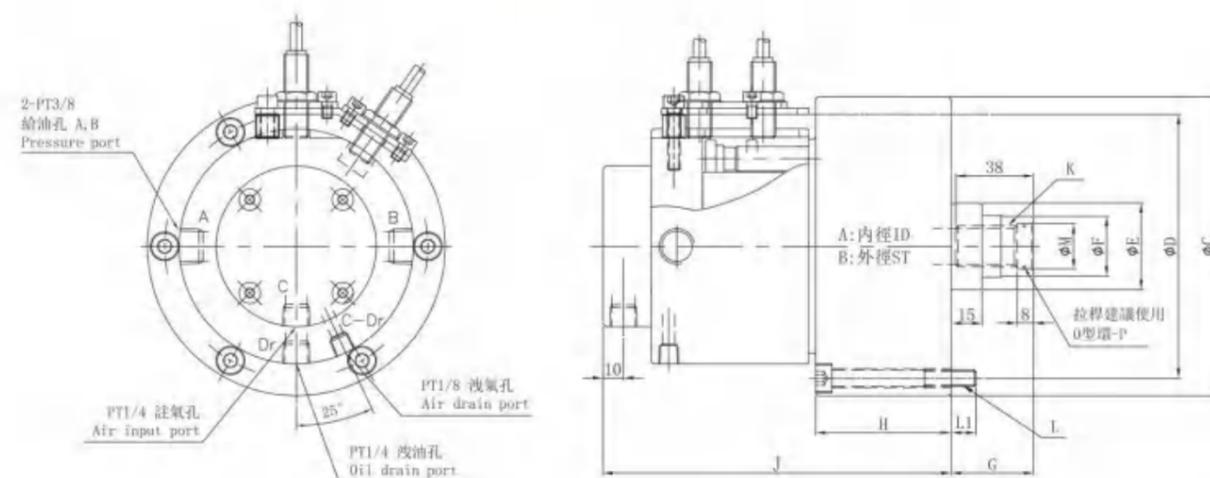
## > SLANE SERIES

### 精短整合型注氣回轉油壓缸(一)

COMPACT STYLE HYDRAULIC CYLINDER WITH AIR CONNECTION AND SAFETY DEVICE



- 高速, 輕量整合型注氣回轉油壓缸, 可經由後端回轉聯手供給空氣內建逆止閥自鎖機構, 泄壓閥及行程控制近接開關。
- 安裝時可由後端鎖固之。
- 泄油孔配管務必單獨接回油壓槽, 以避免產生背壓。
- 使用時, 請混入微量的油霧。
- For short form, light weight and high speed rotary cylinder. To allow compressed air to be feed from the rear end of the distributor through the rotating union.
- Built-in safety check valves, pressure relief valves and proximity sensor.
- Can screw it from the rear end of the cylinder when mounting.
- The drain port should be independently connected to oil tank to avoid back pressure.
- When used, a little oil mist should be contained.



型號 Model	活塞面積壓側 Eff. piston area cm <sup>2</sup> Extend	活塞面積拉側 Eff. piston area cm <sup>2</sup> Retract	行程 (mm) Piston stroke	最高回轉速 max. r.p.m	最大使用壓力 Max. Operating Pressure MPa (kgf / cm <sup>2</sup> )	注氣部最高使用壓力 Air connection max. pressure Mpa (kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量 Weight (kg)
SLAN-E110	91.2	87.9	20	6000	4.0(40)	0.8(8)	0.02	6.9
SLAN-E120	109.3	106	21	6000	4.0(40)	0.8(8)	0.02	8.8
SLAN-E130	128.9	123.1	30	6000	4.0(40)	0.8(8)	0.03	9.1

型號 Model	A	B	Ch7	D	E	F	G max	G min	H	J	K	L	L1	MH8	N	P
SLAN-E110	110	20	145	128	42	29	60	40	66	146	M20x2.5	6~M8x70	12	22	38	S20
SLAN-E120	120	21	168	145	42	29	60	39	69.5	148	M20x2.5	6~M10x75	17	22	38	S20
SLAN-E130	130	30	168	150	50	33	60	30	79.5	158	M24x3.0	6~M10x85	17	27	43	S24

● 保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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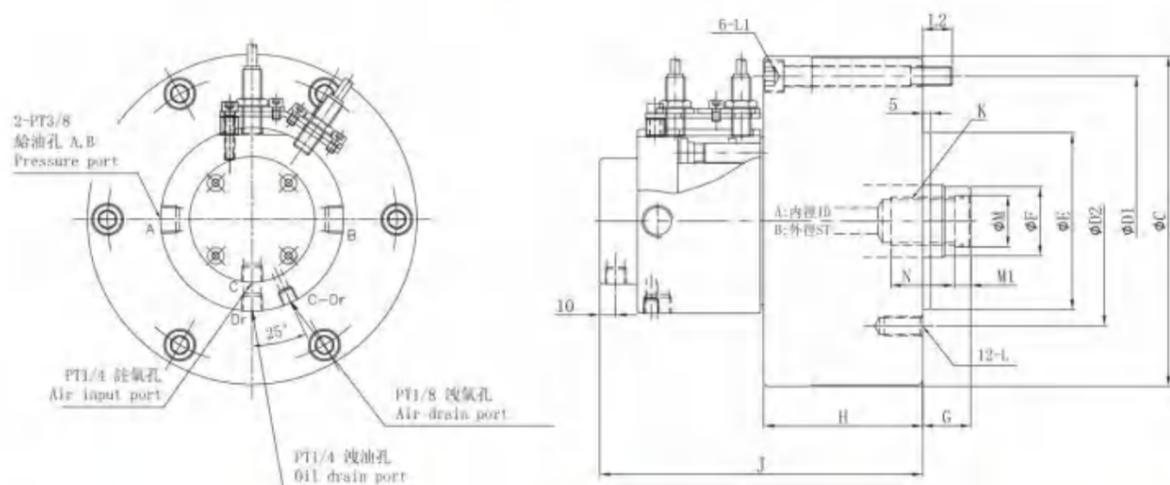
### > SLANE SERIES

#### 精短整合型注氣回轉油壓缸(二)

COMPACT STYLE HYDRAULIC CYLINDER WITH AIR CONNECTION AND SAFETY DEVICE



- 高速, 輕量整合型注氣回轉油壓缸, 可經由後端回轉聯手供給空氣, 特別適合使用于立式車床
- 內建逆止閥自鎖機構, 泄壓閥及行程控制近接開關。
- 安裝時可由後端鎖固之。
- 泄油孔配管務必單獨接回油壓槽, 以避免產生背壓。
- 使用時, 請混入微量的油霧。
- For short form, light weight and high speed rotary cylinder. To allow compressed air to be feed from the rear end of the distributor through the rotating union, suitable for vertical lathe.
- Built-in safety check valves, pressure relief valves and proximity sensor.
- Can screw it from the rear end of the cylinder when mounting.
- The drain port should be independently connected to oil tank to avoid back pressure.
- When used, a little oil mist should be contained.



型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 max r.p.m	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	注氣部最高使用壓力 Mpa Air connection Max.pressure(kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量 Weight (kg)
	伸側 Extend A	拉側 Retract B						
SLAN-E150	174.4	160.8	30	5500	4.0(40)	0.8(8)	0.06	14.9
SLAN-E200K	292.4	274.9	35	4000	4.0(40)	0.8(8)	0.19	29.1
SLAN-E200L	292.4	265.4	50	4000	5.0(50)	0.8(8)	0.21	30.4
SLAN-E250	465.2	438.2	60	2000	5.0(50)	0.8(8)	0.43	47.2

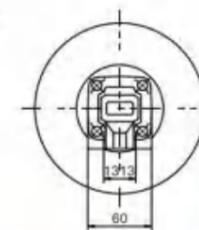
型號 Model	A	B	C	D1	D2	E h7	F	G max	G min	H	J	K	L	L1	L2	M H8	M1	N	P	Q
SLAN-E150	150	30	205	180	130	110	45	60	30	99	177.5	M30x3.5	M12x24	M12x105	18.5	31	10	50	12.5	114
SLAN-E200K	195	35	257	225	145	120	55	73	38	120	239	M36x4.0	M16x30	M16x130	27	37	12	65	15	150
SLAN-E200L	195	50	257	225	170	125	65	80	30	135	254	M42x3.0	M16x30	M16x145	27	45	12	65	15	150
SLAN-E250	245	60	307	275	220	160	65	85	25	165	280	M42x3.0	M20x35	M16x175	28	45	12	65	15	150

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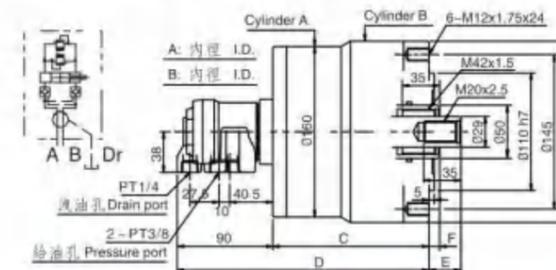
### > SRD SERIES

#### 附逆止閥雙杆型回轉油壓缸

DOUBLE ROD ROTATING CYLINDER WITH SAFELY DEVICE



- 短型, 輕量, 雙杆型回轉油壓缸。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- For short form, light weight, double rod rotary cylinder.
- Built-in safety check valves and pressure relief valves.
- 洩油孔配管務必單獨接回油壓槽, 以避免產生背壓。
- The drain port should be independently connected to oil tank to avoid back pressure.



規格 Spec. 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>				行程 (mm) Piston stroke	最高回轉速 max r.p.m	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量 Weight (kg)
	伸側 Extend A	拉側 Retract B	伸側 Extend A	拉側 Retract B					
SRD-120	122.7	126.1	116.1	113.1	20	5000	3.0(30)	0.14	11.3
SRD-125					25			0.15	11.5

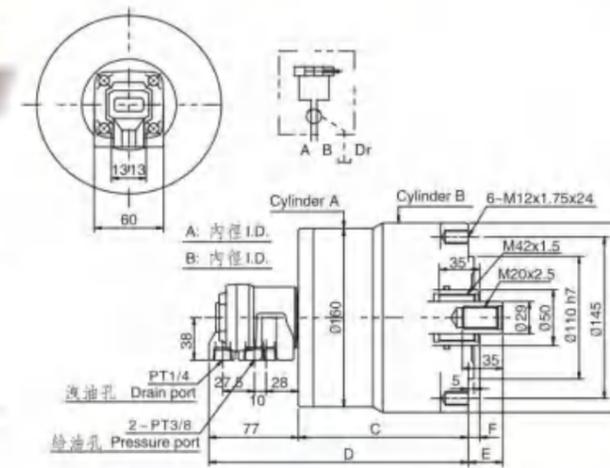
寸法 Size 型號 Model	A	B	C	D	E		F	
					max.	min.	max.	min.
SRD-120	130	125	137	227	60	40	35	15
SRD-125			147	237	55	30		10

### > SRD-N SERIES

#### 雙杆式回轉油壓缸

DOUBLE ROD ROTATING CYLINDER

- 短型, 輕量, 雙杆型回轉油壓缸。
- For short form, light weight, double rod rotary cylinder.
- 洩油孔配管務必單獨接回油壓槽, 以避免產生背壓。
- The drain port should be independently connected to oil tank to avoid back pressure.



規格 Spec. 型號 Model	活塞面積 Eff. piston area cm <sup>2</sup>				行程 (mm) Piston stroke	最高回轉速 Max R.P.M	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量 Weight (kg)
	伸側 Extend A	拉側 Retract B	伸側 Extend A	拉側 Retract B					
SRD-120N	122.7	126.1	116.1	113.1	20	5000	3.0(30)	0.14	11.2
SRD-125N					25			0.15	11.4

寸法 Size 型號 Model	A	B	C	D	E		F	
					max.	min.	max.	min.
SRD-120N	130	125	137	215	60	40	35	15
SRD-125N			147	224	55	30		10

● 保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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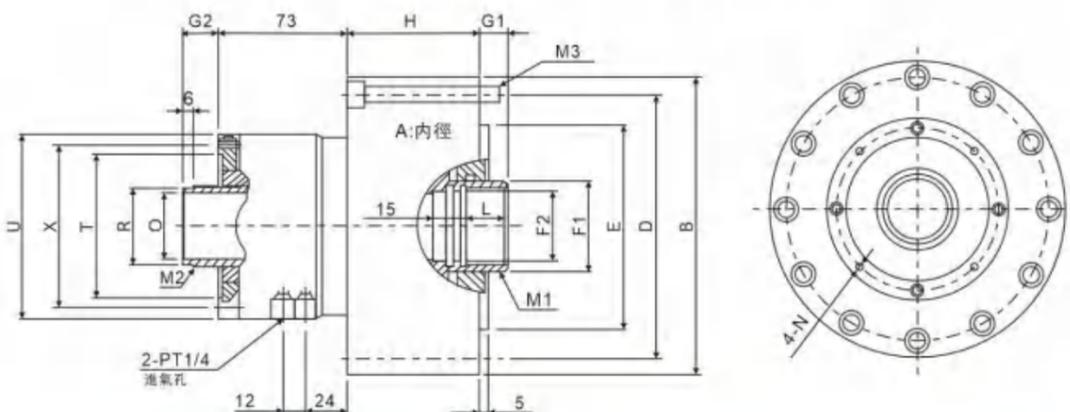
## > RQ SERIES

### 單活塞中空回轉氣壓缸

#### SINGLE ROD PISTON THROUGH HOLE ROTATING AIR CYLINDER



- 大通孔設計, 通孔貫穿, 可加工長軸類零件。
  - 輕量型, 高轉速, 閥體經特殊設計, 能使壓縮空氣的消耗量節減, 充分發揮高效經濟效益。
  - 內部零部件皆採用進口原件, 運轉平衡, 高壽命。
  - 特大通孔可根據客戶需求定制。
  - 使用時請注入微量油霧。
- Large through hole for long workpiece turning.
  - Light weight and high rotating speed, special designed valve which economize air consumption, the cost is saved.
  - The components of cylinder is imported and high quality, equilibrium running and long service life.
  - For special large through hole can be customized according to your requirements.
  - During using, a little oil mist should be contained.



規格 Spec. 型號 Model	活塞面積 Eff.piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 Max R.P.M	最大使用壓力 Max. Operating Pressure MPa(kgf / cm <sup>2</sup> )	最大推拉力kgf (KN)		慣性矩 kg·m <sup>2</sup>	重量(kg) Weight
	伸側 Extend	拉側 Retract				推側 Push	拉側 Pull		
RQ-130	116.8	116.8	15	5000	0.8(8)	933(9.14)	933(9.14)	0.04	8.4
RQ-150	153	143.5	15	4500	0.8(8)	1224(12)	1148(11.25)	0.06	9.5
RQ-170	198.7	188.5	15	4500	0.8(8)	1589.6(15.58)	1508(14.78)	0.09	11.6

規格 Spec. 型號 Model	A	B	D	E (h7)	F1	F2 (h7)	G1		G2		H	L
							max	min	max	min		
RQ-130	130	160	143	110	45	36.5	15	0	35	20	60	25
RQ-150	150	180	163	110	65	50	15	0	35	20	63	25
RQ-170	170	200	182	110	65	50	15	0	35	20	63	25

規格 Spec. 型號 Model	M1	M2	M3	O H7	N	R	T	U	X
RQ-130	M38x1.5	M44x1.5	6-M8x65	34	M5x10	42	74	104	90
RQ-150	M55x2	M52x1.5	6-M8x70	46	M6x10	50	86	123	110
RQ-170	M55x2	M52x1.5	6-M8x70	46	M6x10	50	86	123	110

保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
 非標需求可訂做 Non-standard requirements can be made

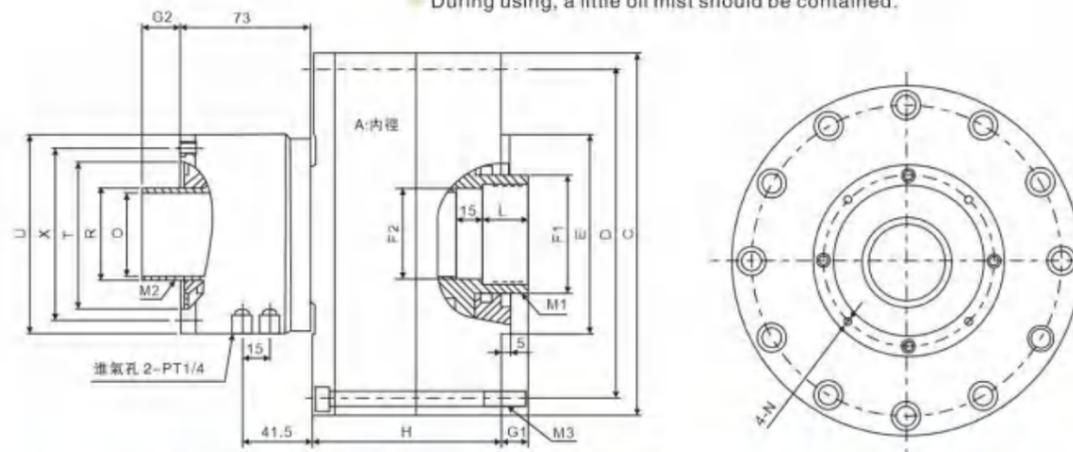
## > RQ-B SERIES

### 雙活塞中空回轉氣壓缸

#### DOUBLE ROD PISTON THROUGH HOLE ROTATING AIR CYLINDER



- 大通孔設計, 雙活塞設計, 拉力能加大1倍。通孔貫穿可加工長軸類零件。
  - 輕量型, 高轉速, 閥體經特殊設計, 能使壓縮空氣的消耗量節減, 充分發揮高效經濟效益。
  - 內部零部件皆採用進口原件, 運轉平衡, 高壽命。
  - 特大通孔可根據客戶需求定制。
  - 使用時請注入微量油霧。
- Large through hole for long workpiece working, and double piston design, the pull force doubled.
  - Light weight and high rotating speed, special designed valve which economize air consumption, the cost is saved.
  - The components of cylinder is imported and high quality, equilibrium running and long service life.
  - For special large through hole can be customized according to your requirements.
  - During using, a little oil mist should be contained.



規格 Spec. 型號 Model	活塞面積 Eff.piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 Max R.P.M	最大使用壓力 Max. Operating Pressure MPa(kgf / cm <sup>2</sup> )	最大推拉力kgf (KN)		慣性矩 kg·m <sup>2</sup>	重量(kg) Weight
	伸側 Extend	拉側 Retract				推側 Push	拉側 Pull		
RQ-130B	223.03	219.3	15	5000	0.8(8)	1784.24(17.5)	1754.4(17.2)	0.04	12
RQ-150B	291.19	281.76	15	4500	0.8(8)	2329(22.83)	2254.1(22.09)	0.06	10.3
RQ-170B	381.52	371.3	15	4500	0.8(8)	3052.1(29.91)	2970.4(29.11)	0.09	12.5

規格 Spec. 型號 Model	A	C	D	E (h7)	F1	F2	G1		G2		H	L
							max	min	max	min		
RQ-130B	130	160	143	110	50	36.5	15	0	38	23	105	25
RQ-150B	150	180	163	110	65	50	15	0	35	20	105	25
RQ-170B	170	200	182	110	65	50	15	0	34	19	107	25

規格 Spec. 型號 Model	M1	M2	M3	O H7	N	R	T	U	X
RQ-130B	M38x1.5	M44x1.5	6-M8x115	34	M5x10	42	74	104	90
RQ-150B	M55x2	M52x1.5	6-M8x115	46	M6x10	50	86	123	110
RQ-170B	M55x2	M52x1.5	6-M8x120	46	M6x10	50	86	123	110

保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
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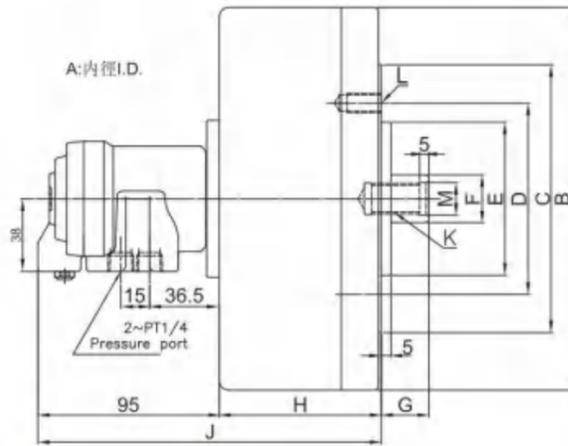
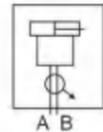
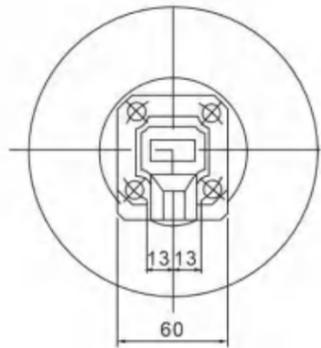
## > RA SERIES

### 中實單活塞回轉氣壓缸

SINGLE ROD PISTON ROTATING AIR CYLINDER



- 回轉閥體經特殊設計，能使壓縮空氣的消耗量節減，充分發揮高效經濟效益。
- 特殊經鋁合金製造而成，內部零部件採用進口原件，能高速旋轉，運動平衡，高壽命，低慣量。
- 使用時請混入微量油霧。
- 可根據客戶需求定制。
- The rotary valve and cylinder body, all made of special light alloy, are light-weight.
- Through unique design, the rotary valve can considerably reduce the waste in compressing air and efficiently increase its utilization.



規格 Spec. 型號 Model	活塞面積 Eff.piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 Max R.P.M	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	慣性矩 kg·m <sup>2</sup>	重量(kg) Weight	空氣洩漏量(ml/sec) (使用壓力6kgf/cm <sup>2</sup> )
	伸側 Extend	拉側 Retract						
RA-100	77.0	74.4	15	6000	0.8(8)	0.03	4.5	400
RA-130	131.2	124.7	15	5000	0.8(8)	0.05	5.2	400
RA-170	225.4	219.0	20	5000	0.8(8)	0.18	8.5	400
RA-220	378.6	369.3	25	4000	0.8(8)	0.36	14.5	400
RA-270	571.0	562.9	30	3000	0.8(8)	0.75	18.4	400

規格 Spec. 型號 Model	A	B	C	D	E (h7)	F	G		H	J	K	L	M (H8)	N	適用卡盤
							max	min							
RA-100	100	130	-	80	60	22	50	35	65	160	M12x1.75	6-M8x16	13	25	3"
RA-130	130	160	120	90	65	25	45	30	70	165	M16x2.0	6-M8x16	17	30	4" 5"
RA-170	170	200	140	100	80	25	45	25	85	180	M16x2.0	6-M10x18	17	30	6"
RA-220	220	255	170	130	110	30	50	25	91	186	M20x2.5	6-M12x20	21	35	8" 10"
RA-270	270	305	190	130	110	35	55	25	105	200	M24x3.0	6-M12x20	25	40	12"

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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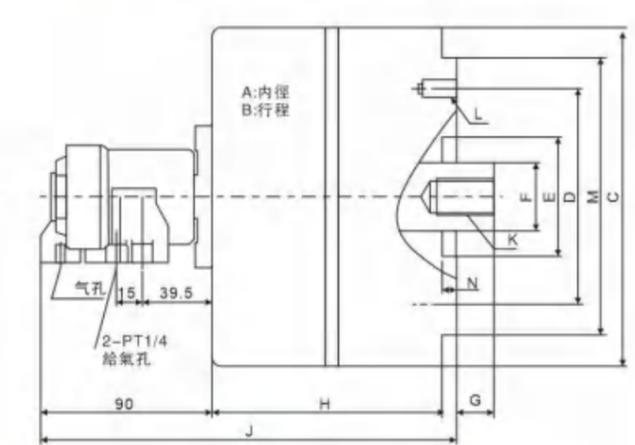
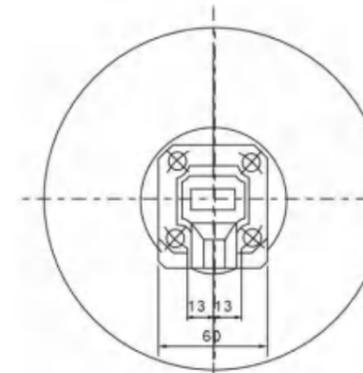
## > RA-B SERIES

### 中實雙活塞氣壓缸

DOUBLE ROD PISTON ROTATING AIR CYLINDER



- 雙活塞設計，拉力能加大1倍。
- 輕量型，高速型，運轉平衡，回轉閥體採用特殊鋁合金製造而成，內部零部件皆採用進口原件，高壽命，低慣量。
- 使用時請注入微量油霧。
- 可根據客戶需求定制。
- Light weight and high rotating speed, special designed valve which economize air consumption, the cost is saved.
- The components of cylinder is imported and high quality, equilibrium running and long service life.
- For special large through hole can be customized according to your requirements.
- During using, a little oil mist should be contained.



規格 Spec. 型號 Model	活塞面積 Eff.piston area cm <sup>2</sup>		行程 (mm) Piston stroke	最高回轉速 Max R.P.M	最大使用壓力 Max. Operating Pressure MPa(kgf/cm <sup>2</sup> )	推薦動力卡盤	重量 Weight (kg)
	伸側 Extend	拉側 Retract					
RA-130B	251.2	247.9	12	4000	0.8(8)	5" 6"	8
RA-160B	380.8	369.7	25	4000	0.8(8)	6" 8"	12
RA-200B	606.8	595.8	30	3500	0.8(8)	10"	17
RA-250B	960	949	35	3000	0.8(8)	12"	16

規格 Spec. 型號 Model	A	B	C	D	E (h7)	F	G		H	J	K	L	M	N
							max	min						
RA-130B	130	12	160	90	65	25	27	15	113	221	M16x25	6-M10x20	100	4
RA-160B	160	25	195	125	100	40	40	15	135	243	M20x35	6-M10x20	160	5
RA-200B	200	30	232	160	125	40	44	14	147	255	M20x35	6-M12x20	192	6
RA-250B	250	35	285	200	160	40	42	7	158	266	M20x35	12-M12x20	235	10

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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# NTH

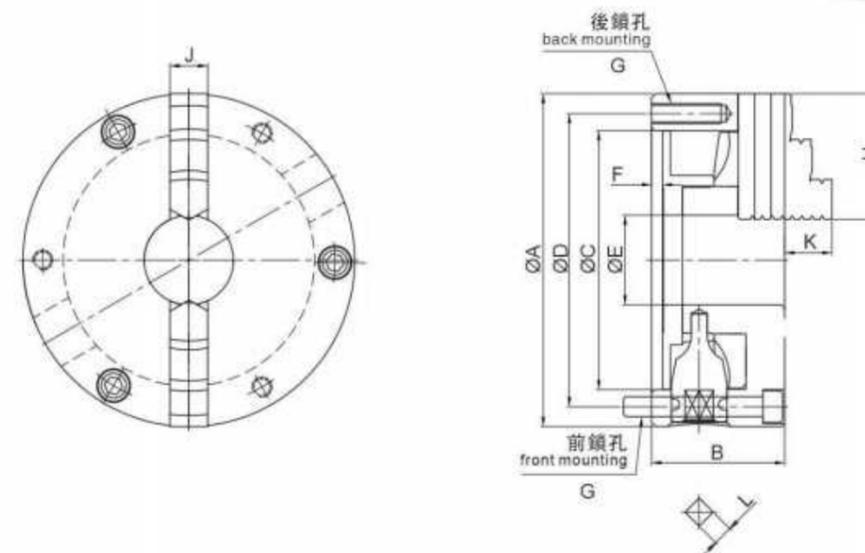


## M 手動卡盤系列 ANUAL CHUCK SERIES

### 二爪自定心卡盤(前後鎖通用)

#### SCT 2 JAW SCROLL CHUCK (FRONT AND BACK MOUNTING)

- |                |   |
|----------------|---|
| 1. 直口連接        | 1. Plain back   |
| 2. 標配一體式正反爪各一組 | 2. Standard accessories: 1 set outside solid jaws and 1 set inside solid jaws |
| 3. 高精度重複夾持     | 3. High accuracy on repeating clamping  |



規格 / Specification

型式/規格 Model/Spec	最大容許扭矩 Max. Allowable Torque N*m	最大靜夾持力 Max. Gripping Force KN	淨重 Weight Kg	最高轉速 RPM	夾持範圍外徑 O.D. Clamping Range mm	夾持範圍內徑 I.D. Clamping Range mm
SCT-04*	44	12	3.1	2500	3-90	32-84
SCT-05*	63	15	4.4	2500	3-110	35-100
SCT-06	88	31	11.4	2000	3-160	48-150
SCT-07	107	31	12.2	2000	4-180	56-170
SCT-08	128	33	16.2	2000	4-180	56-170
SCT-09	147	37	21.2	2000	5-220	62-210
SCT-10	176	46	28	1800	6-260	70-250

單位 / UNIT:mm

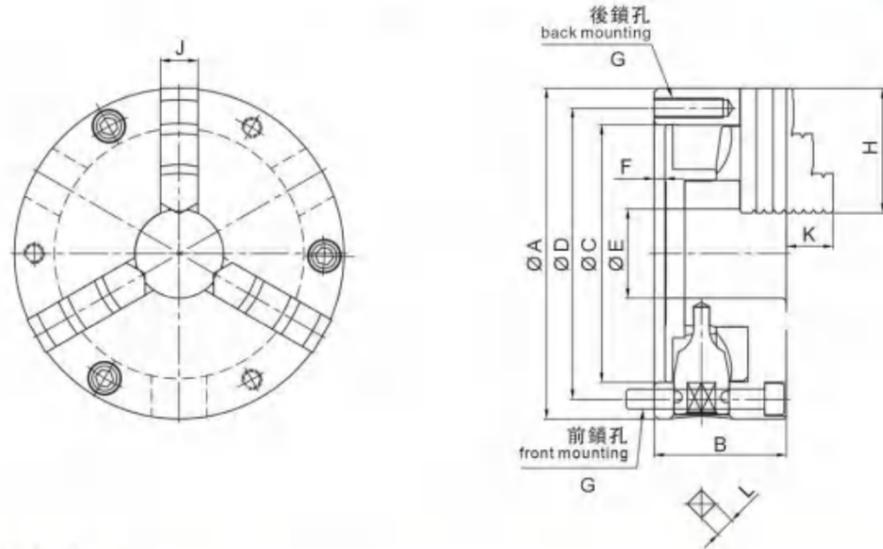
型式/規格 Model/Spec	A	B	C	D	E	F	G	H	J	K	L
SCT-04*	112	58	80	95	24	4.5	3(4)-M8x1.25P	42	15	16	9
SCT-05*	132	60	100	115	32	4.5	3(4)-M8x1.25P	50	20	20	9
SCT-06	167	66	130	147	45	5	3-M10x1.5P	70	20	32	11
SCT-07	193	76	155	172	58	5	3-M10x1.5P	84	25	29	11
SCT-08	203	76	160	176	58	5	3-M10x1.5P	84	25	29	11
SCT-09	233	84	190	210	70	5.5	3-M12x1.75P	84	25	29	14
SCT-10	273	86	230	250	89	5.5	3-M12x1.75P	105	28	34	14

\*注: 前端連接螺絲為4個; Note: The front mounting bolts are 4pcs  
 \*保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
 \*非標需求可訂做 Non-standard requirements can be made

## 三爪自定心卡盤(前後鎖通用)

### SC 3 JAW SCROLL CHUCK(FRONT AND BACK MOUNTING)

- |               |  |
|---------------|--|
| 1.直口連接        | 1.Plain back   |
| 2.標配一體式正反爪各一組 | 2.Standard accessories: 1 set outside solid jaws and 1 set inside solid jaws |
| 3.高精度重複夾持     | 3.High accuracy on repeating clamping  |



規格 / Specification

型式/規格 Model/Spec	最大容許扭矩 Max. Allowable Torque N*m	最大靜夾持力 Max. Gripping Force KN	淨重 Weight Kg	最高轉速 RPM	夾持範圍外徑 O.D Clamping Range mm	夾持範圍內徑 I.D. Clamping Range mm
SC-03	29	9	1.5	2500	2-70	24-64
SC-04	44	12	3.1	2500	3-90	32-84
SC-05	63	15	4.4	2500	3-110	35-100
SC-06	88	31	11.4	2000	3-160	48-150
SC-07	107	31	12.2	2000	4-180	56-170
SC-08	128	33	16.2	2000	4-180	56-170
SC-09	147	37	21.2	2000	5-220	62-210
SC-10	176	46	28	1800	6-260	70-250
SC-12	206	55	41	1800	10-300	86-290
SC-14	225	55	54	1500	12-350	94-330
SC-16	245	60	74	1500	14-400	100-380

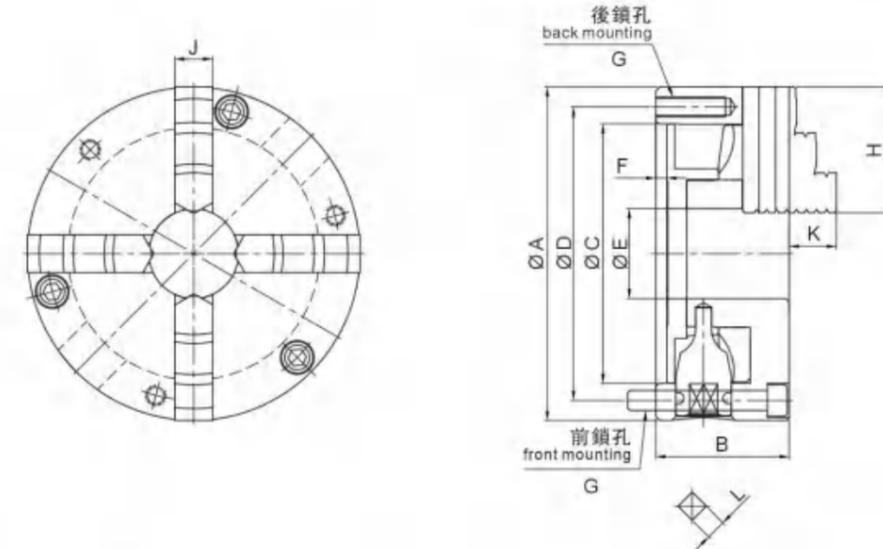
型式/規格 Model/Spec	A	B	C	D	E	F	G	H	J	K	L
SC-03	85	45	60	73	16	3.5	3-M6x1P	32	11	13	6
SC-04	112	58	80	95	24	4.5	3-M8x1.25P	42	15	16	9
SC-05	132	60	100	115	32	4.5	3-M8x1.25P	50	20	20	9
SC-06	167	66	130	147	45	5	3-M10x1.5P	70	20	32	11
SC-07	193	76	155	172	58	5	3-M10x1.5P	84	25	29	11
SC-08	203	76	160	176	58	5	3-M10x1.5P	84	25	29	11
SC-09	233	84	190	210	70	5.5	3-M12x1.75P	84	25	29	14
SC-10	273	86	230	250	89	5.5	3-M12x1.75P	105	28	34	14
SC-12	310	96	260	285	105	7	3-M12x1.75P	125	32	41	14
SC-14	355	112	300	328	127	7	6-M12x1.75P	125	32	41	15
SC-16	405	122	345	375	160	8	6-M14x2P	145	36	56	15

\*保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
\*非標需求可訂做 Non-standard requirements can be made

## 四爪自定心卡盤(前後鎖通用)

### SCF 4 JAW SCROLL CHUCK(FRONT AND BACK MOUNTING)

- |               |  |
|---------------|--|
| 1.直口連接        | 1.Plain back   |
| 2.標配一體式正反爪各一組 | 2.Standard accessories: 1 set outside solid jaws and 1 set inside solid jaws |
| 3.高精度重複夾持     | 3.High accuracy on repeating clamping  |



規格 / Specification

型式/規格 Model/Spec	最大容許扭矩 Max. Allowable Torque N*m	最大靜夾持力 Max. Gripping Force KN	淨重 Weight Kg	最高轉速 RPM	夾持範圍外徑 O.D Clamping Range mm	夾持範圍內徑 I.D. Clamping Range mm
SCF-04*	44	12	3.1	2500	3-90	32-84
SCF-05*	63	15	4.4	2500	3-110	35-100
SCF-06	88	31	11.4	2000	3-160	48-150
SCF-07	107	31	12.2	2000	4-180	56-170
SCF-08	128	33	16.2	2000	4-180	56-170
SCF-09	147	37	21.2	2000	5-220	62-210
SCF-10	176	46	28	1800	6-260	70-250

型式/規格 Model/Spec	A	B	C	D	E	F	G	H	J	K	L
SCF-04*	112	58	80	95	24	4.5	3(4)-M8x1.25P	42	15	16	9
SCF-05*	132	60	100	115	32	4.5	3(4)-M8x1.25P	50	20	20	9
SCF-06	167	66	130	147	45	5	3-M10x1.5P	70	20	32	11
SCF-07	193	76	155	172	58	5	3-M10x1.5P	84	25	29	11
SCF-08	203	76	160	176	58	5	3-M10x1.5P	84	25	29	11
SCF-09	233	84	190	210	70	5.5	3-M12x1.75P	84	25	29	14
SCF-10	273	86	230	250	89	5.5	3-M12x1.75P	105	28	34	14

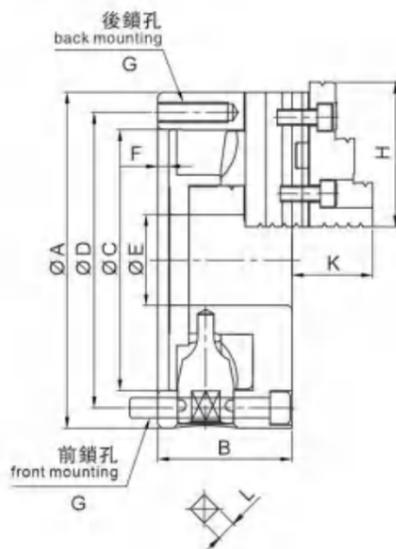
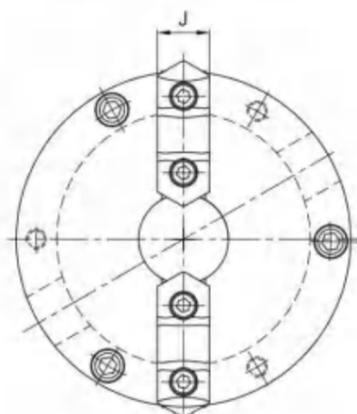
\*注：前端連接螺絲為4個；Note: The front mounting bolts are 4pcs  
\*保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
\*非標需求可訂做 Non-standard requirements can be made

## 二爪強力式自定心卡盤(前後鎖通用)

### SKT 2 JAW UNIVERSAL SCROLL CHUCK(FRONT AND BACK MOUNTING)

- 1. 直口連接
- 2. 標配分離式硬爪一組
- 3. 高精度重複夾持

- 1. Plain back
- 2. Standard accessories: 1 set two-piece hard jaws
- 3. High accuracy on repeating clamping



#### 規格 / Specification

型式/規格 Model/Spec	最大容許扭矩 Max. Allowable Torque N*m	最大靜夾持力 Max. Gripping Force KN	淨重 Weight Kg	最高轉速 RPM	夾持範圍外徑 O.D. Clamping Range mm	夾持範圍內徑 I.D. Clamping Range mm
SKT-04*	44	12	3.1	2500	3-90	32-84
SKT-05*	63	15	4.4	2500	3-110	35-100
SKT-06	88	31	11.4	2000	8-160	55-150
SKT-07	107	31	12.2	2000	8-180	62-170
SKT-08	128	33	16.2	2000	8-180	62-170
SKT-09	147	37	21.2	2000	11-220	70-210
SKT-10	176	46	28	1800	12-260	80-250

型式/規格 Model/Spec	A	B	C	D	E	F	G	H	J	K	L
SKT-04*	112	58	80	95	24	4.5	3(4)-M8x1.25P	46.5	19	32	9
SKT-05*	132	60	100	115	32	4.5	3(4)-M8x1.25P	56	22	40	9
SKT-06	167	66	130	147	45	5	3-M10x1.5P	67	25	43	11
SKT-07	193	76	155	172	58	5	3-M10x1.5P	80	30	47	11
SKT-08	203	76	160	176	58	5	3-M10x1.5P	80	30	47	11
SKT-09	233	84	190	210	70	5.5	3-M12x1.75P	92	30	46	14
SKT-10	273	86	230	250	89	5.5	3-M12x1.75P	92	36	54	14

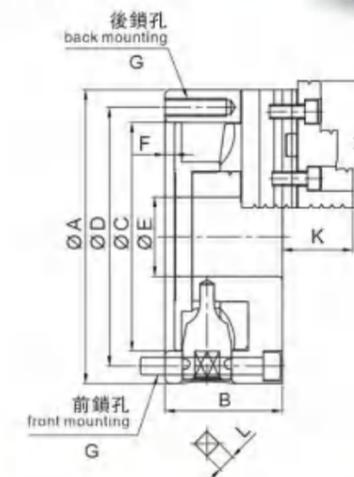
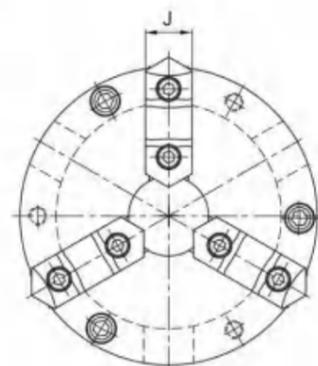
\*注：前端連接螺絲為4個；Note: The front mounting bolts are 4pcs  
 \*保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 \*非標需求可訂做 Non-standard requirements can be made

## 三爪強力式自定心卡盤(前後鎖通用)

### SK 3 JAW UNIVERSAL SCROLL CHUCK(FRONT AND BACK MOUNTING)

- 1. 直口連接
- 2. 標配分離式硬爪一組
- 3. 高精度重複夾持

- 1. Plain back
- 2. Standard accessories: 1 set two-piece hard jaws
- 3. High accuracy on repeating clamping



#### 規格 / Specification

型式/規格 Model/Spec	最大容許扭矩 Max. Allowable Torque N*m	最大靜夾持力 Max. Gripping Force KN	淨重 Weight Kg	最高轉速 RPM	夾持範圍外徑 O.D. Clamping Range mm	夾持範圍內徑 I.D. Clamping Range mm
SK-04	44	12	3.1	2500	3-90	32-84
SK-05	63	15	4.4	2500	3-110	35-100
SK-06	88	31	11.4	2000	8-160	55-150
SK-07	107	31	12.2	2000	8-180	62-170
SK-08	128	33	16.2	2000	8-180	62-170
SK-09	147	37	21.2	2000	11-220	70-210
SK-10	176	46	28	1800	12-260	80-250
SK-12	206	55	41	1800	15-300	90-290
SK-14	225	55	54	1500	15-350	100-330
SK-16	245	60	74	1500	30-400	110-380
SK-20	320	68	140	700	30-500	152-480
SK-25	420	78	235	850	80-630	198-601
SKB-25	420	78	208.5	850	160-630	274-646
SK-32	460	88	442	500	150-800	240-750
SK-40	500	115	590	400	250-1000	425-950
SK-50	500	125	850	300	320-1250	490-1200

型式/規格 Model/Spec	A	B	C	D	E	F	G	H	J	K	L
SK-04	112	58	80	95	24	4.5	3-M8x1.25P	46.5	19	32	9
SK-05	132	60	100	115	32	4.5	3-M8x1.25P	56	22	40	9
SK-06	167	66	130	147	45	5	3-M10x1.5P	67	25	43	11
SK-07	193	76	155	172	58	5	3-M10x1.5P	80	30	47	11
SK-08	203	76	160	176	58	5	3-M10x1.5P	80	30	47	11
SK-09	233	84	190	210	70	5.5	3-M12x1.75P	92	30	46	14
SK-10	273	86	230	250	89	5.5	3-M12x1.75P	92	36	54	14
SK-12	310	96	260	285	105	7	3-M12x1.75P	110	42	63	14
SK-14	355	122	300	328	127	7	6-M12x1.75P	110	42	63	14
SK-16	405	122	345	375	160	8	6-M14x2P	130	45	72	17
SK-20	500	140	420	458	205	5.5	6-M16x2P	166	50	92	19
SK-25	630	140	545	586	252	6.5	6-M16x2P	210	52	92	19
SKB-25	630	140	545	586	320	6.5	6-M16x2P	210	52	92	19
SK-32	800	159	450	368.3	320	20	6-M24x3P	225	52	92	19
SK-40	1000	190	910	950	460	10	6-M24x3P	329	85	115	24
SK-50	1250	195	1000	1100	560	10	6-M30x3.5P	367	85	100	24

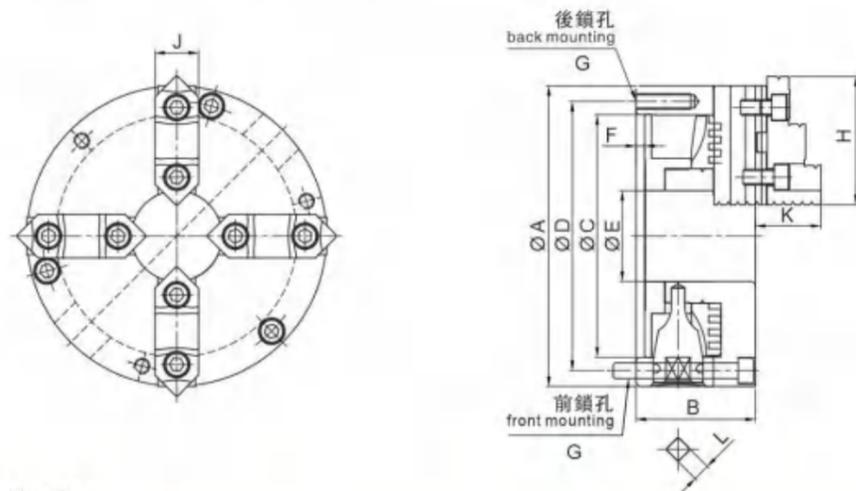
\*保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 \*非標需求可訂做 Non-standard requirements can be made

## 四爪強力式自定心卡盤(前後鎖通用)

### SKF 4 JAW UNIVERSAL SCROLL CHUCK (FRONT AND BACK MOUNTING)

- 1. 直口連接
- 2. 標配分離式硬爪一組
- 3. 高精度重複夾持

- 1. Plain back
- 2. Standard accessories: 1 set two-piece hard jaws
- 3. High accuracy on repeating clamping



規格 / Specification

型式/規格 Model/Spec	最大容許扭矩 Max. Allowable Torque N*m	最大靜夾持力 Max. Gripping Force KN	淨重 Weight Kg	最高轉速 RPM	夾持範圍外徑 O.D. Clamping Range mm	夾持範圍內徑 I.D. Clamping Range mm
SKF-04*	44	12	3.1	2500	3-90	32-84
SKF-05*	63	15	4.4	2500	3-110	35-100
SKF-06	88	31	11.4	2000	8-160	55-150
SKF-07	107	31	12.2	2000	8-180	62-170
SKF-08	128	33	16.2	2000	8-180	62-170
SKF-09	147	37	21.2	2000	11-220	70-210
SKF-10	176	46	28	1800	12-260	80-250
SKF-12	206	55	41	1800	15-300	90-290
SKF-14	225	55	54	1500	15-350	100-330
SKF-16	245	60	74	1500	30-400	110-380

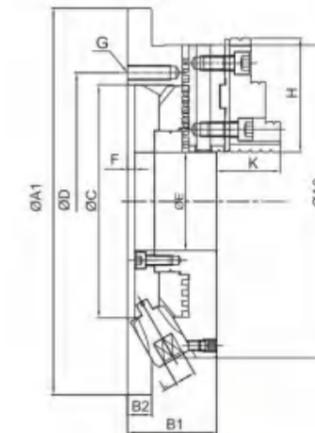
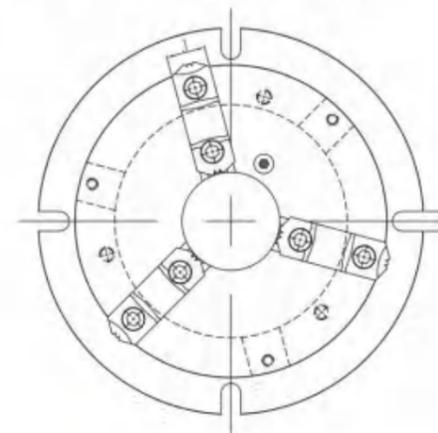
型式/規格 Model/Spec	A	B	C	D	E	F	G	H	J	K	L
SKF-04*	112	58	80	95	24	4.5	3(4)-M8x1.25P	46.5	19	32	9
SKF-05*	132	60	100	115	32	4.5	3(4)-M8x1.25P	56	22	40	9
SKF-06	167	66	130	147	45	5	3-M10x1.5P	67	25	43	11
SKF-07	193	76	155	172	58	5	3-M10x1.5P	80	30	47	11
SKF-08	203	76	160	176	58	5	3-M10x1.5P	80	30	47	11
SKF-09	233	84	190	210	70	6	3-M12x1.75P	80	30	46	14
SKF-10	273	86	230	250	89	5.5	3-M12x1.75P	95	36	54	14
SKF-12	310	96	260	285	105	7	3-M12x1.75P	110	42	63	14
SKF-14	355	122	300	328	127	7	6-M12x1.75P	110	42	63	14
SKF-16	405	122	345	375	160	8.5	6-M14x2P	130	45	72	17

\*注：前鎖連接螺絲為4個；Note: The front mounting bolts are 4pcs  
 \*保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 \*非標需求可訂做 Non-standard requirements can be made

## 強力超薄型夾盤

### POWERFUL TYPE SUPER THIN SCROLL CHUCK

- ◎ 把手和盤面成30°角，旋轉操作更便利。
- ◎ 薄型設計，可增加機械加工紙容許長度。
- ◎ 外徑成凸緣設計，裝卸容易。
- ◎ 強力型設計可共用生爪。
- ◎ The handle designed with an angle of 30 degrees is much convenient for operations.
- ◎ The "super thin thickness" design of the chucks increases the "allowable distance" of machining of operations.
- ◎ Chuck flange makes the loading and unloading operations simpler and more convenient.
- ◎ Hard jaws and soft jaws can be used alternatively.



規格 Spec 型號 Model	A1	A2	B1	B2	C	D
FCK-06	220	170	58	18	130	147
FCK-08	270	210	66	20	155	172
FCK-10	315	255	73	20	190	210
FCK-12	370	305	80	22	250	285

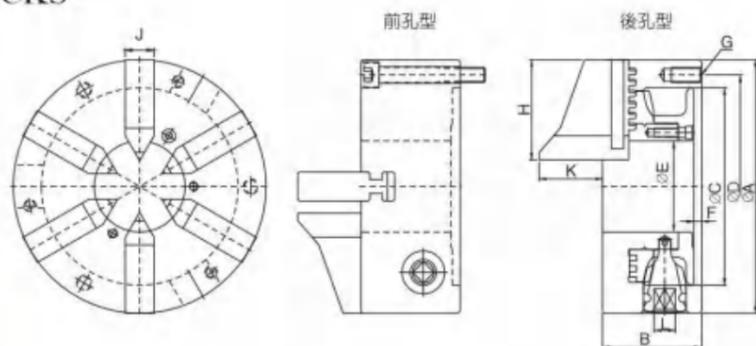
規格 Spec 型號 Model	E	F	G	H	J	K
FCK-06	45	6	3-M10 x 1.5P	67	25	43.4
FCK-08	60	6	3-M10 x 1.5P	80	30	50
FCK-10	80	6	3-M12 x 1.75P	95	36	53.8
FCK-12	105	6	3-M12 x 1.75P	108	42	63.3

規格 Spec 型號 Model	L	M	把桿範圍 Max. Gripping Diameter		淨重 Weight(kg)
			外徑把桿 O.D. Clamping(mm)	內徑把桿 I.D. Clamping(mm)	
FCK-06	11	13	Ø6-Ø160	Ø48-Ø150	10.6
FCK-08	11	13	Ø11-Ø200	Ø62-Ø190	18.1
FCK-10	14	16	Ø12-Ø250	Ø72-Ø240	27.9
FCK-12	14	16	Ø15-Ø300	Ø66-Ø290	42.9

\*保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 \*非標需求可訂做 Non-standard requirements can be made

## 錐型六爪夾頭

### AS 6-JAW AWL TYPE CHUCKS



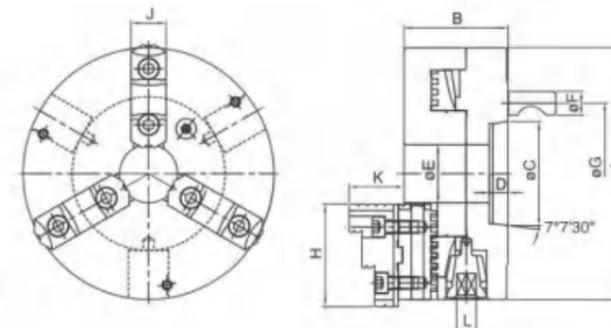
規格 / Specification

單位/UNIT:mm

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	最高迴轉速 Max.Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max. Gripping Diameter		淨重 Weight (kg)
													外徑把握 O.D.Clamping	內徑把握 I.D.Clamping	
AS-04	112	58	80	95	32	4.5	3-M8x1.25P	45	14	46	8	1200	ø2-ø32		3.8
AS-06	167	65	130	147	60	5.0	3-M10x1.5P	66	19	43	10	1200	ø3-ø60		8.2

## 直裝型三爪夾頭

### D1 3-JAW D1 TYPE CHUCKS



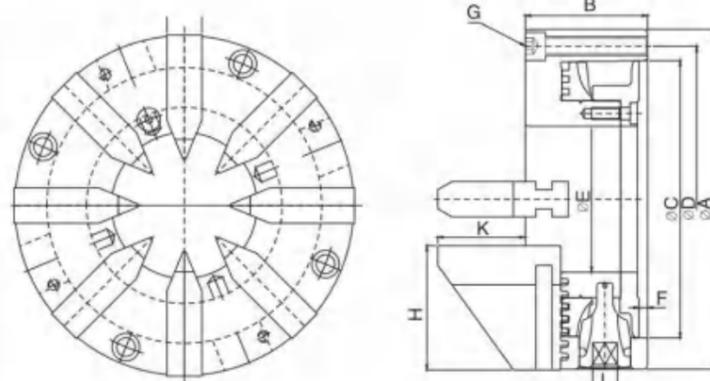
規格 / Specification

單位/UNIT:mm

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	最高迴轉速 Max.Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max. Gripping Diameter		淨重 Weight (kg)
													外徑把握 O.D.Clamping	內徑把握 I.D.Clamping	
D,5-08"	200	83	82.563	15	46	19	104.8	82	28	43	11	2000	ø8-ø180	ø62-ø170	17.8
D,6-08"	200	83	106.375	16	58	22.2	133.4	82	28	43	11	2000	ø8-ø180	ø62-ø170	17.3
D,6-10"	255	94	106.375	16	76	22.2	133.4	93	32	50	12	1800	ø11-ø240	ø70-ø230	31.3
D,8-10"	255	94	139.719	18	76	25.4	171.4	93	32	50	12	1800	ø11-ø240	ø70-ø230	30.9
D,8-12"	310	105	139.719	18	103	25.4	171.4	118	40	56	14	1800	ø15-ø300	ø90-ø290	51.1
D,11-20"	500	135	196.869	-	190.5	30.2	235	140	55	84	19	1000	ø25-ø480	ø125-ø460	165.5

## 錐型八爪夾頭

### AE 8-JAW AWL TYPE CHUCKS



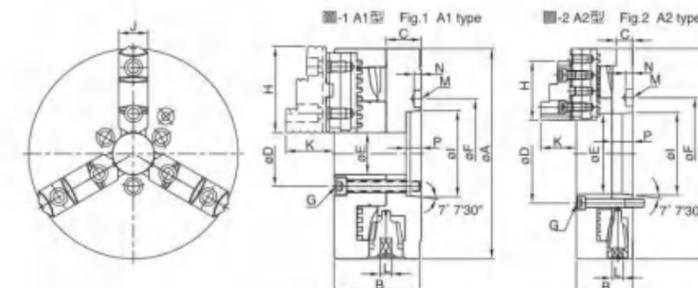
規格 / Specification

單位/UNIT:mm

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	最高迴轉速 Max.Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max. Gripping Diameter		淨重 Weight (kg)
													外徑把握 O.D.Clamping	內徑把握 I.D.Clamping	
AE-09	233	84	190	210	100	5.5	4-M12x1.75P	85	24	60	12	1000	ø7-ø100		21

## 直裝型三爪夾頭

### A1(A2) 3-JAW A1(A2) TYPE CHUCKS



規格 / Specification

單位/UNIT:mm

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	I	J	K	L	P	M	N	最高迴轉速 Max.Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max. Gripping Diameter		淨重 Weight (kg)
																	外徑把握 O.D.Clamping	內徑把握 I.D.Clamping	
A,5-08"	200	83	33.5	61.9	40	ø104.8	3-M10x1.5P	82	82.563	28	43	11	14.29	ø16.3	6.8	2000	ø8-ø180	ø62-ø170	17.4
A,6-08"	200	83	33.5	82.6	56	ø133.4	3-M12x1.75P	82	106.375	28	43	11	15.88	ø19.3	6.8	2000	ø8-ø180	ø62-ø170	18
A,6-10"	255	91.5	36.5	82.6	56	ø133.4	3-M12x1.75P	93	106.375	32	50	12	15.88	ø19.3	6.8	1800	ø11-ø240	ø70-ø230	30.6
A,11-20"	500	135	40	235	190.5	ø235	6-M20x2.5P	140	196.869	55	84	19	-	ø29.4	10.7	1000	ø25-ø480	ø125-ø460	161.5

## 方型超薄夾盤

## MC SUPER THIN SQUARE CHUCKS

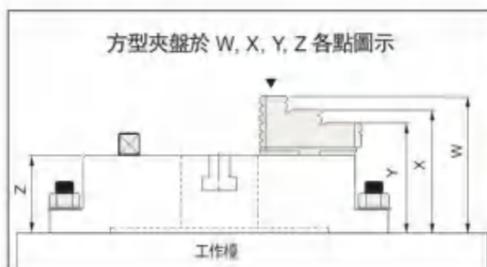


### MC 附硬爪

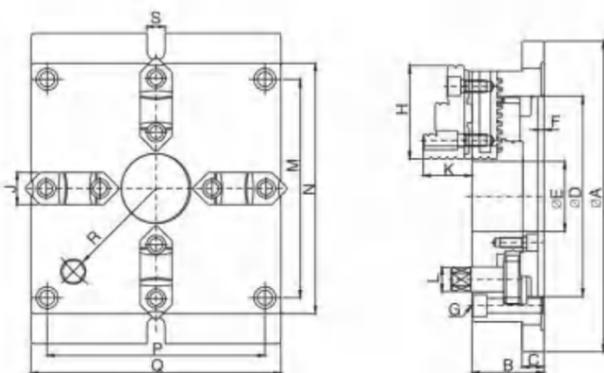
- 1. MC均為定寸研磨方式；任何相同規格之方型夾盤W,X,Y,Z各點之高度公差為0.05mm以內。
- 2. MC規格均可替換生爪，作不規則形狀之加工，以替代中心機大量治具，更經濟、方便。
- 3. 硬爪重複夾持之精度公差為0.02mm以內。
- 4. 側邊平行校正後，硬爪夾持之平行公差為0.05mm以內。

### MC SQUARE SHUCKS

- 1. MC chucks are precisely ground, the tolerances of W,X,Y,Z among chucks are with in 0.05mm.
- 2. Soft jaws can be used alternatively for machining special shaped work pieces, to substitute for designing and making a lot of jigs for this purpose.
- 3. The repetitive gripping accuracy with the hard jaws are with in 0.02mm.
- 4. Parallel gripping accuracy with hard jaws can be controlled with in 0.05mm after aligning sides of chucks.



### 使用範例 OPERATION EXAMPLE



尺寸圖 / DIMENSIONS

規格 / Specification		單位/UNIT:mm										
型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	淨重 Weight (kg)
MC-06	215	57	18	130	40	5.5	4-M10x1.5P	68	26	39	14	
MC-08	250	65	20	160	55	6	4-M12x1.75P	82	28	43	17	
MC-10	310	72	22	200	70	6	4-M14x2P	93	32	50	21	
MC-12	380	85	25	260	100	7	4-M16x2P	118	40	56	23	

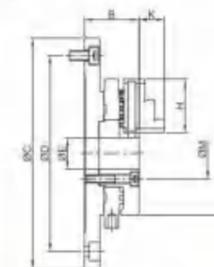
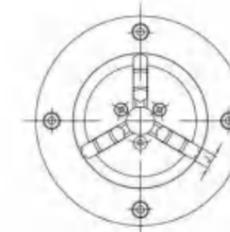
型式 / 規格 MODEL/SPEC.		M	N	P	Q	R	S	把握範圍 Max. Gripping Diameter		淨重 Weight (kg)
		外徑把握 O.D. Clamping		內徑把握 I.D. Clamping						
MC-06		144	165	144	165	66	18	ø4-ø128	ø55-ø128	11.4
MC-08		174	200	174	200	83	18	ø5-ø162	ø62-ø162	18.6
MC-10		218	250	218	250	104	18	ø6-ø200	ø72-ø200	31.6
MC-12		274	310	274	310	135	22	ø10-ø265	ø90-ø265	56.6

## 超薄型夾盤

## NSE SUPER THIN CHUCKS

- 1. 輕、薄、短小的設計，適用於工件量測夾持。
- 2. 直接轉動旋盤，免於使用扳手旋轉干涉。
- 3. 鋼製本體，耐用性甚佳。
- 4. 夾爪正反夾持兩用設計，操作方便。
- 5. 2" 最小工件夾持0.8mm。

- 1. By the compactness comes from "LightThin and Small" designing concept, the chucks are most fitting to hold workpieces for measuring.
- 2. Rotating the chuck knob directly for gripping and loosening, the handle is not necessary to be used.
- 3. The chuck body is made of very durable steel.
- 4. Jaws can be reversibly used. Gripping for various sizes becomes much convenient.
- 5. The 2" model chuck can even grip the small OD size of 0.8mm.



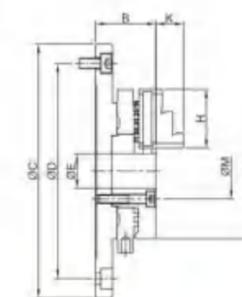
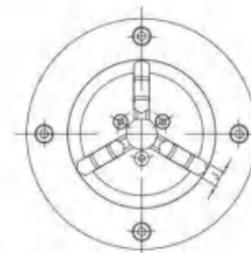
單位/UNIT:mm

### 規格 / Specification

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	M	外徑把握 O.D. Clamping	內徑把握 I.D. Clamping	淨重 Weight (kg)
NSE-02	63	28	118	100	16	4	4-M5x0.8P	27	8	13	8	26	ø8~ø63	ø23~ø58	1.2
NSE-03	85	37	143	116	20	4	4-M6x1P	35	11	15	10.5	32	ø1~ø81	ø31~ø70	2.9
NSE-04	110	39	168	140	26	5	4-M6x1P	42	14	19	10	40	ø1~ø100	ø36~ø90	4.3
NSE-05	130	45	202	168	32	6	4-M8x1.25P	50	16	21	11.5	49	ø1.5~ø116	ø43~ø106	6.2
NSE-06	160	52	248	208	50	8	4-M10x1.5P	65	19	26	15	70	ø1.5~ø160	ø52~ø148	11.1
NSE-08	200	55	280	245	58	8	4-M10x1.5P	75	22	24	15	80	ø4~ø200	ø58~ø185	16.3

## 不銹鋼超薄型夾盤

## NST STAINLESS STEEL SUPER THIN CHUCKS



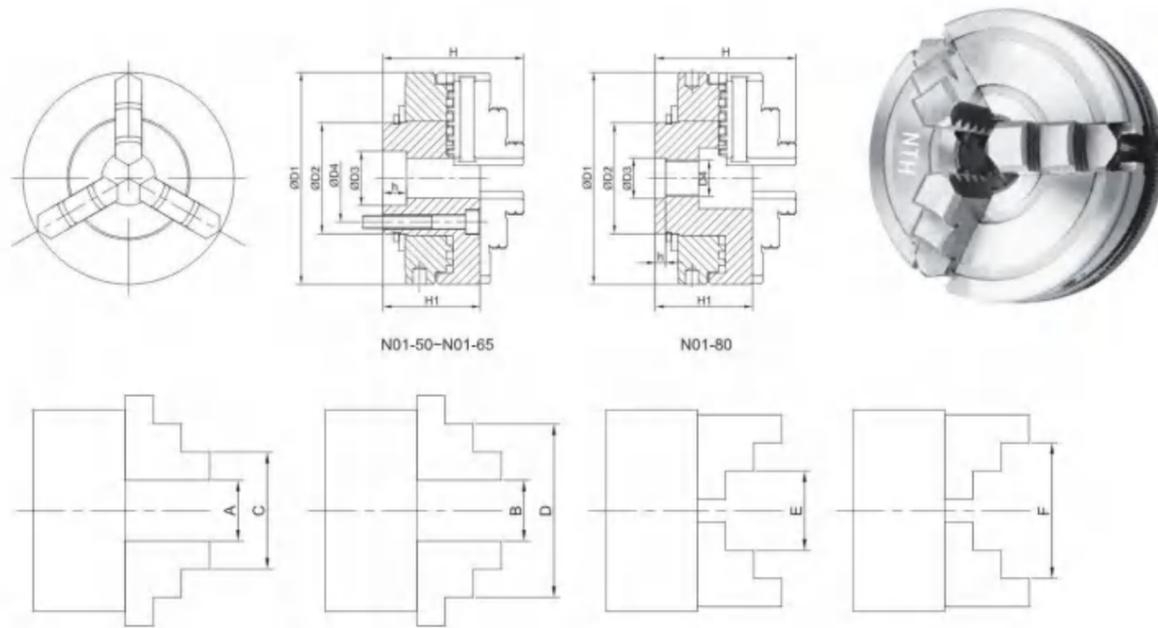
單位/UNIT:mm

### 規格 / Specification

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	M	外徑把握 O.D. Clamping	內徑把握 I.D. Clamping	淨重 Weight (kg)
NST-02	63	28	118	100	16	4	4-M5x0.8P	27	8	13	8	26	ø8~ø63	ø23~ø58	1.2
NST-03	85	37	143	116	20	4	4-M6x1P	35	11	15	10.5	32	ø1~ø81	ø31~ø70	2.9
NST-04	110	39	168	140	26	5	4-M6x1P	42	14	19	10	40	ø1~ø100	ø36~ø90	4.3
NST-05	130	45	202	168	32	6	4-M8x1.25P	50	16	21	11.5	49	ø1.5~ø116	ø43~ø106	6.2
NST-06	160	52	248	208	50	8	4-M10x1.5P	65	19	26	15	70	ø1.5~ø160	ø52~ø148	11.1
NST-08	200	55	280	245	58	8	4-M10x1.5P	75	22	24	15	80	ø4~ø200	ø58~ø185	16.3

## 超薄型夾盤

## N01 SUPER THIN CHUCKS



### 規格 / Specification

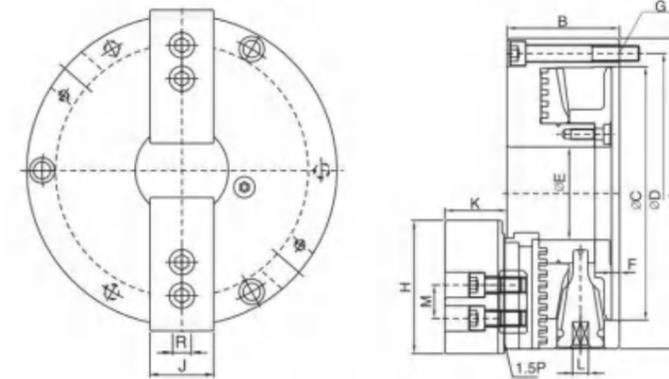
型式 / 規格 MODEL / SPEC.	夾持範圍 Max. Gripping Dia.			最高轉速 Max. Speed (r.p.m)	最大夾持力 Max. Gripping Force (KN)	重量 Gross Weight (Kg)
	反爪 Internal Jaws		正爪 External Jaws			
	A-B	C-D	E-F			
N01-50	1-15	20-48	20-47	9000	7	0.4
N01-65	2-16	25-60	22-55	8200	8	0.7
N01-80	2-18	25-75	22-63	7500	9	1.2

型式 / 規格 MODEL / SPEC.	D1	D2	D3	D4 Mounting Thread	h	H	H1
N01-50	50	28	15	M12x1	4	48	33
N01-50	50	28	15	M14x1	4	48	33
N01-50	50	28	15	SM3/4-16	4	48	33
N01-65	68	28	15	M12x1	4	48	33
N01-65	68	28	15	M14x1	4	48	33
N01-65	68	28	15	SM3/4-16	4	48	33
N01-80	84	45	25	3-M5	3	42	30

※ 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 ※ 非標準要求可訂做 Non-standard requirements can be made

## 齒式二爪鋼殼夾頭

## TNT 2-JAW STEEL BODY CHUCKS



尺寸圖 / DIMENSIONS

### 規格 / Specification

型式 / 規格 MODEL / SPEC.	A	B	C	D	E	F	G	H	J	K	L
TNT-07	193	78	155	172	58	5	3-M10x1.5P	73	31	38	11
TNT-09	233	85	190	210	70	5.5	3-M12x1.75P	95	35	40	12

型式 / 規格 MODEL / SPEC.	M	R	最高轉速 Max. Speed r.p.m. (min <sup>-1</sup> )	把握範圍 Max. Gripping Diameter		淨重 Weight (kg)
				外徑把握 O.D. Clamping	內徑把握 I.D. Clamping	
TNT-07	20	12	3200	ø8~ø235	ø66~ø235	14.4
TNT-09	25	14	2800	ø11~ø280	ø85~ø280	22.3

### 齒式鋼殼夾盤特色:

1. 可替代修整油壓生爪成型盤。
2. 爪仔可前後任意調整，加大夾持工件範圍。
3. 生爪及硬爪與CNC車床油壓爪共用。
4. 鋼殼結構於高速迴轉時安全性高，耐磨性強，使用壽命長。
5. 轉動板手扭力較小操作順暢。

### Steel body chucks:

1. Can be used as a "Forming plate" for machining soft jaws.
2. Hard jaws and soft jaws can be adjusted just like on a power Chuck to increase the gripping range.
3. Hard jaws as well as Soft jaws are interchangeable with those of power chucks.
4. Chuck Body is made of steel to enhance safety operations for high speed machining.
5. The Chuck Handle can be operated easily and smoothly.

### 特點配合圖示說明 / ILLUSTRATE:



可替代修整油壓生爪成型盤

The chuck can be used as a "Forming plate" for machining soft jaws.



爪仔可前後任意調整加大夾持工件範圍

Top jaws can be adjusted back and forth easily, thus increasing gripping range.

## 齒式三爪鋼殼夾頭

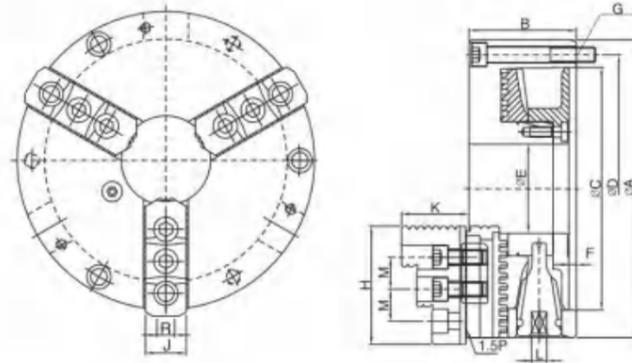
## NT 3-JAW STEEL BODY CHUCKS

齒式鋼殼夾盤特色：

- 1.可替代修整油壓生爪成型盤。
- 2.爪仔可前後任意調整，加大夾持工件範圍。
- 3.生爪及硬爪與CNC車床油壓爪共用。
- 4.鋼殼結構於高速迴轉時安全性高，耐磨性强，使用壽命長。
- 5.轉動板手扭力較小操作順暢。

Steel body chucks:

- 1.Can be used as a "Forming plate" for machining soft jaws.
- 2.Hard jaws and soft jaws can be adjusted just like on a power Chuck to increase the gripping range.
- 3.Hard jaws as well as Soft jaws are interchangeable with those of power chucks.
- 4.Chuck Body is made of steel to enhance safety operations for high speed machining.
- 5.The Chuck Handle can be operated easily and smoothly.



特點配合圖示說明 / ILLUSTRATE :



硬爪與油壓夾盤硬爪共用

Hard jaws are interchangeable with those of power chucks.



生爪與油壓夾盤生爪共用

連結盤

Soft jaws are interchangeable with those of power chucks

Optional accessory: Mounting plate.

規格 / Specification

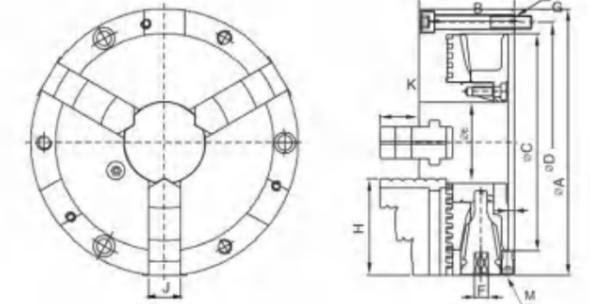
單位/UNIT:mm

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L
NT-07	193	78	155	172	58	5	3-M10x1.5P	78	28	46	11
NT-09	233	85	190	210	70	5.5	3-M12x1.75P	92	32	52	12
NT-10	273	91	230	250	89	5.5	3-M12x1.75P	101.5	37	56	12
NT-12	310	104	260	285	105	7	3-M12x1.75P	116	47	67	14

型式 / 規格 MODEL/SPEC.	M	R	最高轉速 Max. Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max.Gripping Diameter		淨重 Weight (kg)
				外徑把握 O.D.Clamping	內徑把握 I.D.Clamping	
NT-07	20	12	3200	ø8-ø235	ø66-ø235	13.1
NT-09	25	14	2800	ø11-ø280	ø85-ø280	21.2
NT-10	30	16	2400	ø12-ø330	ø92-ø330	30.5
NT-12	30	21	2100	ø15-ø370	ø104-ø370	46.1

## 普通型三爪可調式鋼殼夾頭

## CT 3-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS



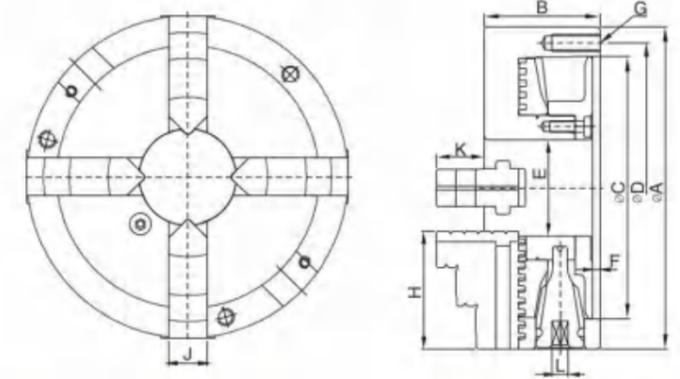
規格 / Specification

單位/UNIT:mm

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	M	最高轉速 Max. Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max.Gripping Diameter		淨重 Weight (kg)
														外徑把握 O.D.Clamping	內徑把握 I.D.Clamping	
CT-06	167	75.5	130	147	45	12	3-M10x1.5P	65	22	28	10	4-M10x1.5P	4000	ø4-ø160	ø48-ø150	10.4
CT-07	193	85	155	172	58	12	3-M10x1.5P	75	24	28.5	11	4-M10x1.5P	3500	ø4-ø180	ø56-ø170	12.9
CT-09	233	92	190	210	70	12.5	3-M12x1.75P	85	28	33	12	4-M10x1.5P	2900	ø5-ø220	ø62-ø210	20.4
CT-10	275	98	230	250	89	12.5	3-M12x1.75P	98	30	38	12	4-M10x1.5P	2500	ø6-ø260	ø70-ø250	29.3
CT-12	310	111	260	285	105	14	3-M12x1.75P	110	32	45	14	4-M12x1.75P	2200	ø10-ø300	ø86-ø290	43.7

## 普通型四爪可調式鋼殼夾頭

## FCT 4-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS



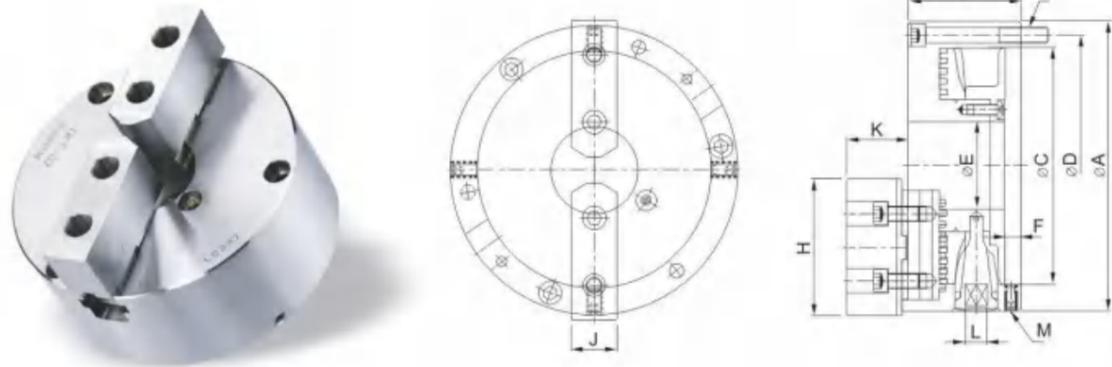
規格 / Specification

單位/UNIT:mm

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	M	最高轉速 Max. Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max.Gripping Diameter		淨重 Weight (kg)
														外徑把握 O.D.Clamping	內徑把握 I.D.Clamping	
FCT-07	193	85	155	172	58	12	3-M10x1.5P	75	24	28.5	11	4-M10x1.5P	3500	ø4-ø180	ø56-ø170	13.2
FCT-09	233	92	190	210	70	12.5	3-M12x1.75P	85	28	33	12	4-M10x1.5P	2900	ø5-ø220	ø62-ø210	20.7
FCT-10	275	98	230	250	89	12.5	3-M12x1.75P	98	30	38	12	4-M10x1.5P	2500	ø6-ø260	ø70-ø250	29.8
FCT-12	310	111	260	285	105	14	3-M12x1.75P	110	32	45	14	4-M12x1.75P	2200	ø10-ø300	ø86-ø290	44.4

強力型二爪可調式鋼殼夾頭

TKT 2-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS



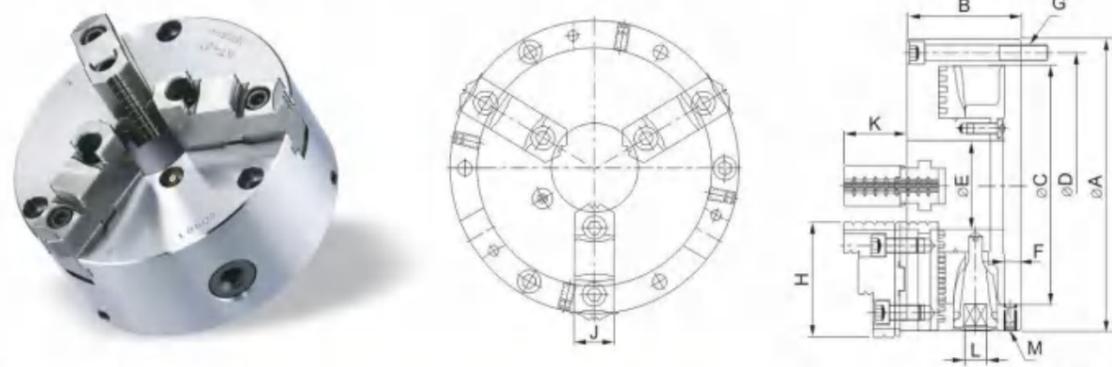
規格 / Specification

單位/UNIT:mm

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	M	最高迴轉速 Max.Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max. Gripping Diameter		淨重 Weight (kg)
														外徑把握 O.D.Clamping	內徑把握 I.D.Clamping	
TKT-06	167	75.5	130	147	45	12	3-M10x1.5P	73	26	40.5	10	4-M10x1.5P	4000	ø9~ø160	ø60~ø150	10.4
TKT-07	193	85	155	172	58	12	3-M10x1.5P	95	31	49.5	11	4-M10x1.5P	3500	ø10~ø180	ø70~ø170	14.6
TKT-09	233	92	190	210	70	12.5	3-M12x1.75P	110	37	50	12	4-M10x1.5P	2900	ø12~ø220	ø80~ø210	22.4

強力型三爪可調式鋼殼夾頭

KT 3-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS



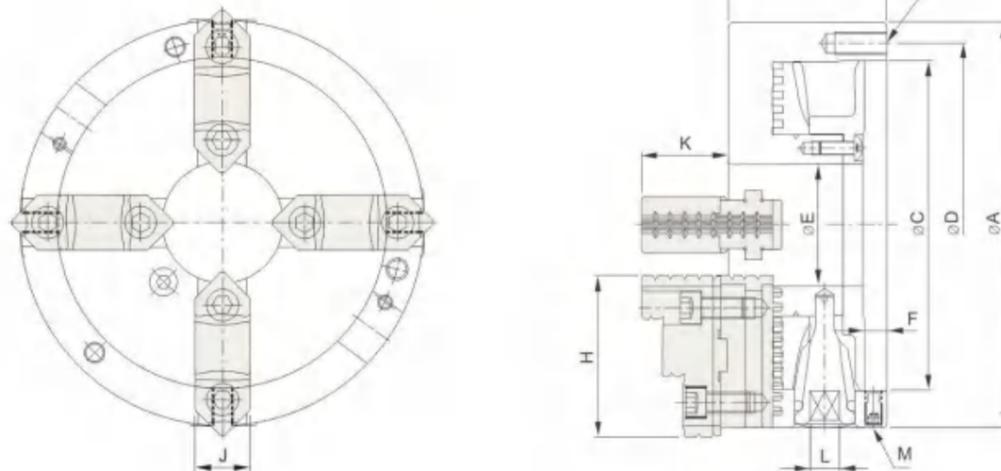
規格 / Specification

單位/UNIT:mm

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	M	最高迴轉速 Max.Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max. Gripping Diameter		淨重 Weight (kg)
														外徑把握 O.D.Clamping	內徑把握 I.D.Clamping	
KT-06	167	75.5	130	147	45	12	3-M10x1.5P	88	26	40	10	4-M10x1.5P	4000	ø8~ø160	ø55~ø150	9.7
KT-07	193	85	155	172	58	12	3-M10x1.5P	82	28	43	11	4-M10x1.5P	3500	ø8~ø180	ø62~ø170	13.6
KT-09	233	92	190	210	70	12.5	3-M12x1.75P	93	32	51	12	4-M10x1.5P	2900	ø11~ø220	ø70~ø210	21.5
KT-10	275	98	230	250	89	12.5	3-M12x1.75P	102	35	54	12	4-M10x1.5P	2500	ø12~ø260	ø80~ø250	30.4
KT-12	310	111	260	285	105	14	3-M12x1.75P	118	40	58	14	4-M12x1.75P	2200	ø15~ø300	ø90~ø290	45.4

強力型四爪可調式鋼殼夾頭

FKT 4-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS



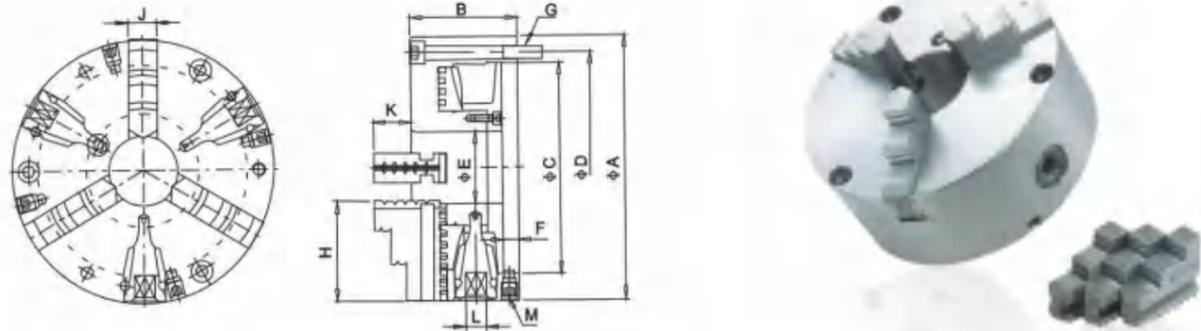
規格 / Specification

單位/UNIT:mm

型式 / 規格 MODEL/SPEC.	A	B	C	D	E	F	G	H	J	K	L	M	最高迴轉速 Max.Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max. Gripping Diameter		淨重 Weight (kg)
														外徑把握 O.D.Clamping	內徑把握 I.D.Clamping	
FKT-07	193	85	155	172	58	12	3-M10x1.5P	82	28	43	11	4-M10x1.5P	3500	ø8~ø180	ø62~ø170	14.1
FKT-09	233	92	190	210	70	12.5	3-M12x1.75P	93	32	51	12	4-M10x1.5P	2900	ø11~ø220	ø70~ø210	22
FKT-10	275	98	230	250	89	12.5	3-M12x1.75P	102	35	54	12	4-M10x1.5P	2500	ø12~ø260	ø80~ø250	33.5
FKT-12	310	111	260	285	105	14	3-M12x1.75P	118	40	58	14	4-M12x1.75P	2200	ø15~ø300	ø90~ø290	46.1

## 可調式普通型三爪鋼殼夾頭

DIN6350 3DACT 3-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS



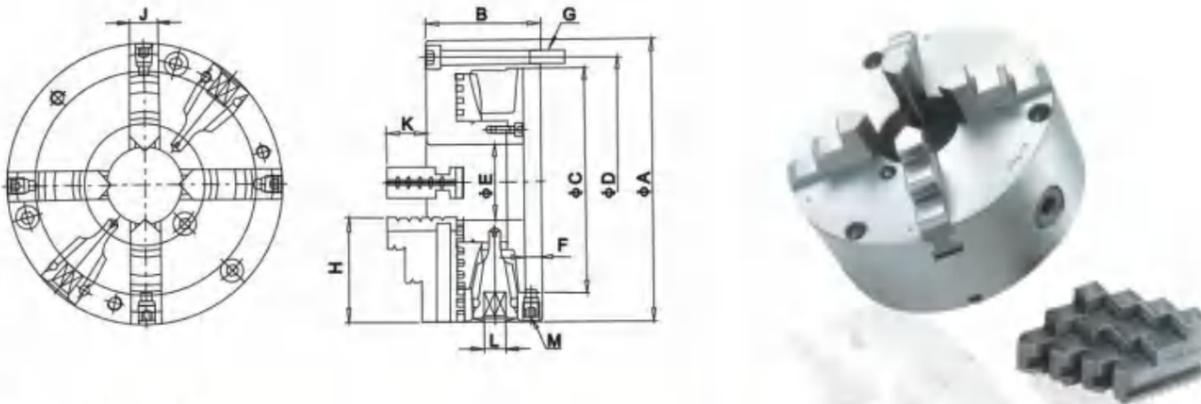
規格 / Specification

型式/規格 MODEL /SPEC.	A	B	C	D	E	G	F	H	J	K	M	L	最高迴轉速 Max. Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max 外徑把握 O.D.Clamping	Gripping Diameter 內徑把握 I.D.Clamping
3DACT-04	100	60	70	83	20	3-M8x1.25P	10	42	14	17	4-M8x1.25P	8	5200	Ø3-Ø95	Ø30-Ø83
3DACT-05	125	65	95	108	32	3-M8x1.25P	10.5	50	16	20	4-M10x1.5P	8	4800	Ø3-Ø160	Ø35-Ø111
3DACT-06	160	72.5	125	140	42	3-M10x1.5P	12	65	19	23	4-M12x1.75P	10	4200	Ø4-Ø160	Ø46-Ø155
3DACT-08	200	82.5	160	176	55	3-M10x1.5P	12	75	22	28	4-M12x1.75P	11	3500	Ø4-Ø197	Ø51-Ø184
3DACT-10	250	91	200	224	76	3-M12x1.75P	13	98	28	38.5	4-M12x1.75P	12	2600	Ø6-Ø267	Ø70-Ø252
3DACT-12	315	103	260	286	103	3-M16x2P	14	110	30	44.5	4-M12x1.75P	14	2200	Ø10-Ø325	Ø81-Ø308
3DACT-15	400	122	330	362	136	3-M16x2P	15	146	40	56	4-M12x1.75P	17	1600	Ø14-Ø428	Ø106-Ø410

單位/UNIT:mm

## 可調式普通型四爪鋼殼夾頭

DIN6350 4DACT 4-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS



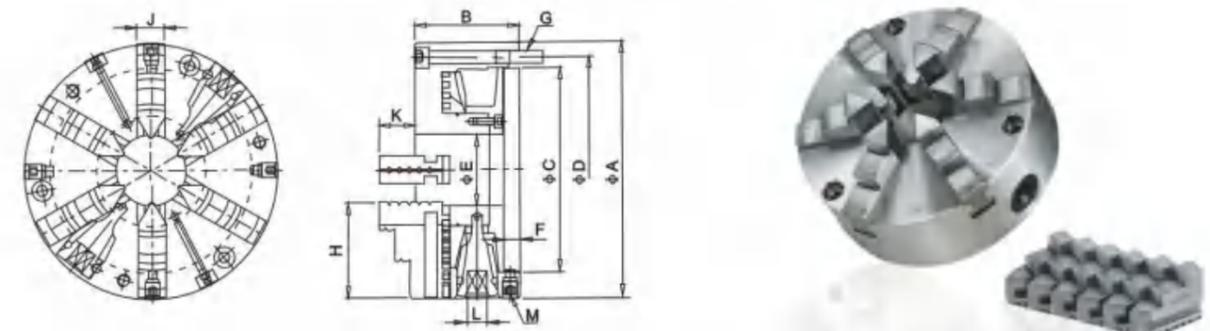
規格 / Specification

型式/規格 MODEL /SPEC.	A	B	C	D	E	G	F	H	J	K	M	L	最高迴轉速 Max. Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max 外徑把握 O.D.Clamping	Gripping Diameter 內徑把握 I.D.Clamping
4DACT-08	200	82.5	160	176	55	3-M10x1.5P	12	75	22	28	4-M12x1.75P	11	3500	Ø4-Ø197	Ø51-Ø184
4DACT-10	250	91	200	224	76	3-M12x1.75P	13	98	28	38.5	4-M12x1.75P	12	2600	Ø6-Ø267	Ø70-Ø252
4DACT-12	315	103	260	286	103	3-M16x2P	14	110	30	44.5	4-M12x1.75P	14	2200	Ø10-Ø325	Ø81-Ø308
4DACT-15	400	122	330	362	136	3-M16x2P	15	146	40	56	4-M12x1.75P	17	1600	Ø14-Ø428	Ø106-Ø410

單位/UNIT:mm

## 可調式普通型六爪鋼殼夾頭

DIN6350 6DACT 6-JAW ADJUSTMENT STEEL SCROLL CHUCKS



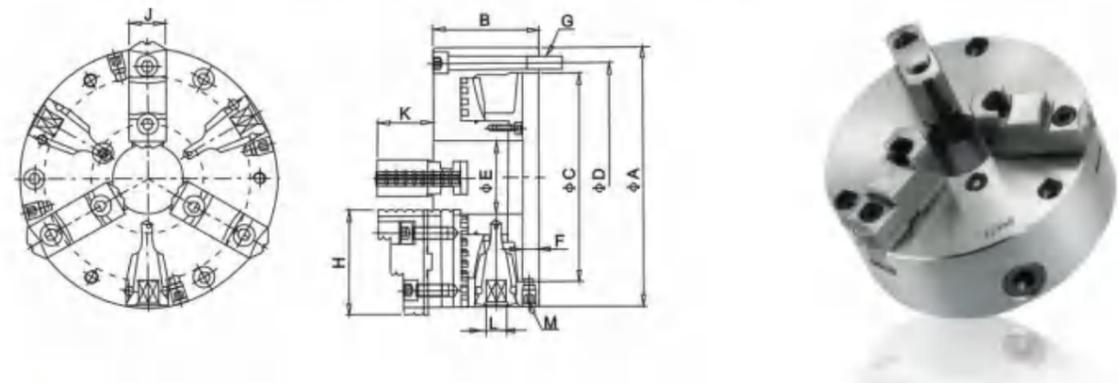
規格 / Specification

型式/規格 MODEL /SPEC.	A	B	C	D	E	G	F	H	J	K	M	最高迴轉速 Max. Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max 外徑把握 O.D.Clamping	Gripping Diameter 內徑把握 I.D.Clamping
6DACT-08	200	82.5	160	176	55	3-M10x1.5P	12	75	22	28	4-M12x1.75P	2900	Ø4-Ø183	Ø51-Ø170
6DACT-10	250	91	200	224	76	3-M12x1.75P	13	98	28	38.5	4-M12x1.75P	2200	Ø6-Ø249	Ø70-Ø233
6DACT-12	315	103	260	286	103	3-M16x2P	14	110	30	44.5	4-M12x1.75P	1800	Ø10-Ø305	Ø81-Ø288
6DACT-15	400	122	330	362	136	3-M16x2P	15	146	40	56	4-M12x1.75P	1300	Ø14-Ø406	Ø105-Ø387

單位/UNIT:mm

## 可調式強力型三爪鋼殼夾頭

DIN6350 3DAKT 3-JAW POWERFUL ADJUSTMENT STEEL BODY CHUCKS



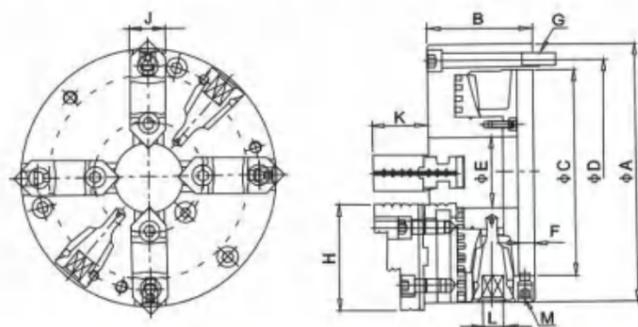
規格 / Specification

型式/規格 MODEL /SPEC.	A	B	C	D	E	G	F	H	J	K	M	最高迴轉速 Max. Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max 外徑把握 O.D.Clamping	Gripping Diameter 內徑把握 I.D.Clamping
3DAKT-05	125	65	95	108	32	3-M8x1.25P	10.5	57	24	36	4-M10x1.5P	4800	Ø3-Ø121	Ø44-Ø120
3DAKT-06	160	72.5	125	140	42	3-M10x1.5P	12	68	26	38.5	4-M12x1.75P	4200	Ø8-Ø169	Ø50-Ø158
3DAKT-08	200	82.5	160	176	55	3-M10x1.5P	12	82	28	43	4-M12x1.75P	3500	Ø8-Ø206	Ø58-Ø191
3DAKT-10	250	91	200	224	76	3-M12x1.75P	13	102	35	54.5	4-M12x1.75P	2600	Ø12-Ø266	Ø77-Ø250
3DAKT-12	315	103	260	286	103	3-M16x2P	14	117.5	40	56.5	4-M12x1.75P	2200	Ø15-Ø340	Ø85-Ø313
3DAKT-15	400	122	330	362	136	3-M16x2P	15	150	50	74.5	4-M12x1.75P	1600	Ø30-Ø440	Ø123-Ø416

單位/UNIT:mm

## 可調式強力型四爪鋼殼夾頭

### DIN6350 4DAKT 4-JAW ADJUSTMENT STEEL SCROLL CHUCKS



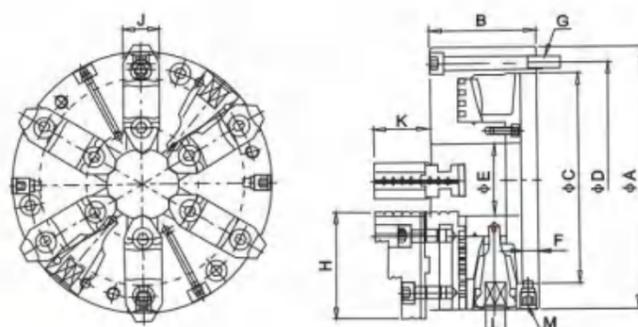
規格 / Specification

型式規格 MODEL /SPEC.	A	B	C	D	E	G	F	H	J	K	M	L	最高迴轉速 Max. Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max 外徑把握 OD Clamping	Gripping Diameter 內徑把握 ID Clamping
4DAKT-08	200	82.5	160	176	55	3-M10x1.5P	12	82	28	43	4-M12x1.75P	11	3500	Ø8-Ø205	Ø59-Ø190
4DAKT-10	250	91	200	224	76	3-M12x1.75P	13	102	35	54.5	4-M12x1.75P	12	2600	Ø12-Ø265	Ø78-Ø249
4DAKT-12	315	103	260	286	103	3-M16x2P	14	117.5	40	56.5	4-M12x1.75P	14	2200	Ø15-Ø323	Ø86-Ø296
4DAKT-15	400	122	330	362	136	3-M16x2P	15	150	50	74.5	4-M12x1.75P	17	1600	Ø30-Ø419	Ø124-Ø396

單位/UNIT:mm

## 可調式強力型六爪鋼殼夾頭

### DIN6350 6DAKT 6-JAW ADJUSTMENT STEEL SCROLL CHUCKS



規格 / Specification

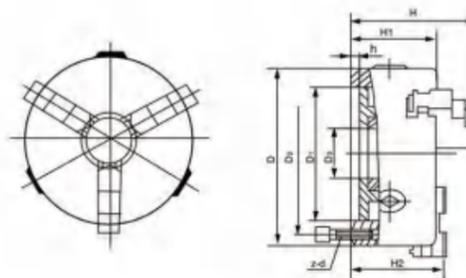
型式規格 MODEL /SPEC.	A	B	C	D	E	G	F	H	J	K	M	最高迴轉速 Max. Speed r.p.m.(min <sup>-1</sup> )	把握範圍 Max 外徑把握 OD Clamping	Gripping Diameter 內徑把握 ID Clamping
6DAKT-08	200	82.5	160	176	55	3-M10x1.5P	12	82	28	43	11	2900	Ø17-Ø193	Ø67-Ø178
6DAKT-10	250	91	200	224	76	3-M12x1.75P	13	102	35	54.5	12	2200	Ø19-Ø248	Ø84-Ø232
6DAKT-12	315	103	260	286	103	3-M16x2P	14	117.5	40	56.5	14	1800	Ø23-Ø323	Ø93-Ø296
6DAKT-15	400	122	330	362	136	3-M16x2P	15	150	50	74.5	17	1300	Ø30-Ø419	Ø124-Ø396

單位/UNIT:mm

## SC11三爪自定心卡盤

### SC11 SERIES THREE-JAW SELF-CENTERING CHUCKS

三爪自定心卡盤適用於高精度的加工過程 Used when high accuracy of machining is needed.  
另有其他短錐形式的卡盤，如A型、C型、D型 Other short taper mounting type like A/C/D is available.



- |   |  |
|---|--|
| 標準配件: Standard accessories:             | 可選配件: Optional accessories:  |
| ① 一套正爪 1 set of outside hard solid jaws | ① 一套滑座 1 set of hard master jaws   |
| ② 一套反爪 1 set of inside hard solid jaws  | ② 一套軟上爪 1 set of top soft jaws   |
| ③ 一個扳手 1 wrench                         | ③ 一套分離爪 (滑座+軟上爪) 1 set of soft 2-piece jaws (hard master jaw + top soft jaw) |
| ④ 一套螺絲 1 set of mounting screws.        |  |

規格 / Specification

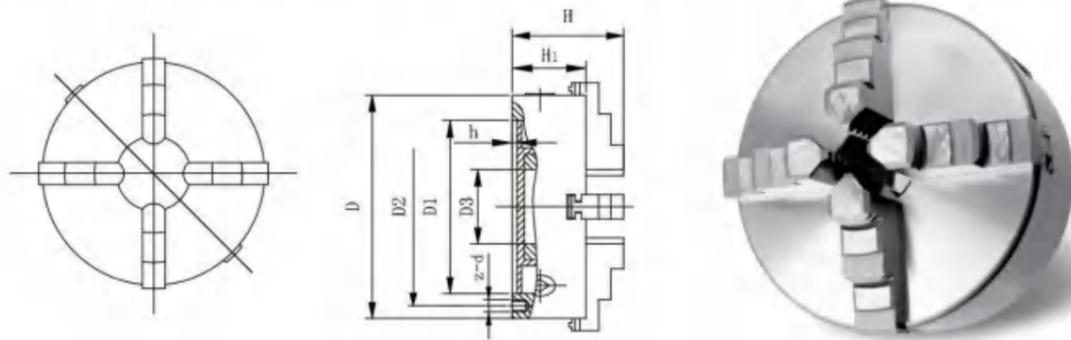
型號 MODEL	卡盤尺寸 Chuck Size	D1	D2	D3	H	H1	h	z-d	最大扭矩Nm Max.torque	最高轉速 Max.RPM	淨重 N.W. Kg
SC11-80	80	55	66	16	66.5	50	4	3-M6	40	4000	1.9
SC11-100	100	72	84	22	74.5	55	3	3-M8	60	3500	3.2
SC11-125	125	95	108	30	84.5	58	4	3-M8	100	3000	5
SC11-130	130	100	115	30	86.5	60	5	3-M8	100	3000	5.6
SC11-160	160	130	142	45	94	65	5	3-M8	160	2500	8.8
SC11-165	165	130	145	45	94	65	5	3-M8	160	2500	9.5
SC11-190	190	155	172	55	105	75	5	3-M10	250	2000	13.8
SC11-200	200	165	180	65	109	75	5	3-M10	250	2000	15.5
SC11-230	230	190	210	70	120	80	6	3-M12	250	2000	16.5
SC11-240	240	195	215	70	120	80	8	3-M12	320	1600	26
SC11-250	250	206	226	80	120	80	5	3-M12	320	1600	27.5
SC11-315	315	260	285	100	147.5	90	6	3-M16	400	1200	47
SC11-320	320	270	290	100	147.5	90	6	3-M16	400	1200	47.5
SC11-325	325	272	296	100	147.5	90	6	3-M16	400	1200	49
SC11-380	380	325	350	135	155.7	98	6	3-M16	500	1000	68
SC11-400	400	340	368	130	173.5	100	6	3-M16	500	1000	73
SC11-500	500	440	465	210	202	115	6	6-M16	630	800	121
SC11-630	630	560	595	270	218	133.5	7	6-M16	800	800	200

單位/UNIT:mm

## SC12系列四爪自定心卡盤

### SC12 SERIES FOUR-JAW SELF-CENTERING CHUCKS

四爪自定心卡盤適用於高精度的加工過程 Used when high accuracy of machining is needed.  
另有其他短錐形式的卡盤，如A型、C型、D型 Other short taper mounting type like A/C/D is available.



- |   |   |
|---|---|
| 標準配件: Standard accessories:             | 可選配件: Optional accessories:   |
| ① 一套正爪 1 set of outside hard solid jaws | ① 一套滑座 1 set of hard master jaws  |
| ② 一套反爪 1 set of inside hard solid jaws  | ② 一套軟上爪 1 set of top soft jaws  |
| ③ 一個扳手 1 wrench                         | ③ 一套分離爪 (滑座+軟上爪) 1 set of soft 2-piece jaws(hard master jaw + top soft jaw) |
| ④ 一套螺絲 1 set of mounting screws.        |   |

#### 規格 / Specification

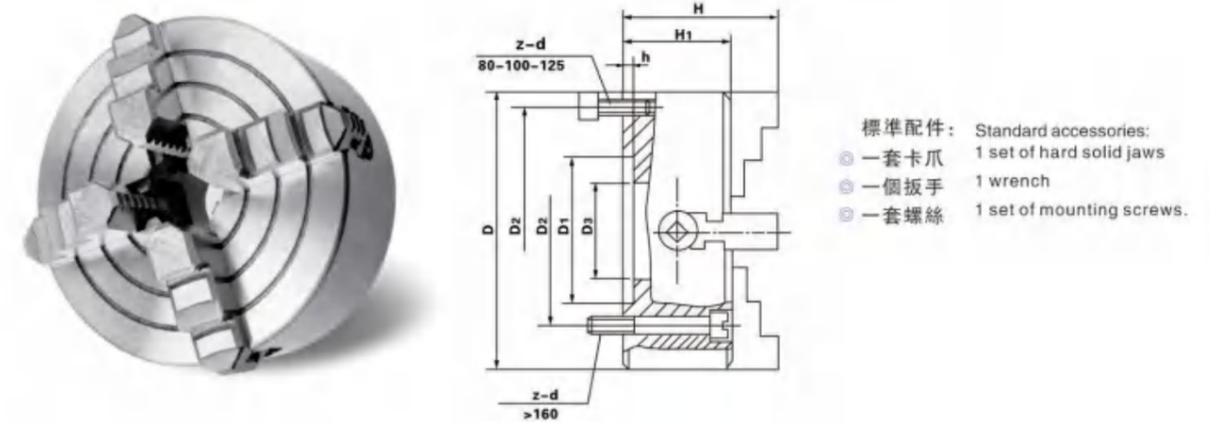
單位/UNIT:mm

型號 MODEL	卡盤尺寸 Chuck Size	D1	D2	D3	H	H1	h	z-d	淨重 N.W. Kg
SC12-80	80	55	66	16	66.5	50	4	3-M6	2
SC12-100	100	72	84	22	74.5	53.5	3	3-M8	3
SC12-125	125	95	108	30	84.5	58	4	3-M8	5
SC12-130	130	100	115	30	86.5	60	5	3-M8	5.6
SC12-160	160	130	142	45	94	65	5	3-M8	8.8
SC12-165	165	130	145	45	94	65	5	3-M8	9.8
SC12-190	190	155	172	55	105	75	5	3-M10	13.8
SC12-200	200	165	180	65	109	75	5	3-M10	15.5
SC12-240	240	195	215	70	120	80	8	3-M12	25
SC12-250	250	206	226	80	120	80	5	3-M12	26
SC12-315	315	260	285	100	147.5	90	6	3-M16	50
SC12-320	320	270	290	100	147.5	90	6	3-M16	53
SC12-325	325	272	296	100	147.5	90	6	3-M16	66
SC12-380	380	325	350	130	173.5	100	6	3-M16	82
SC12-400	400	340	368	130	173.5	100	6	3-M16	85
SC12-500	500	440	465	210	202	115	6	6-M16	119
SC12-630	630	560	595	260	220.5	135	6	6-M16	185

## SC72系列四爪單動卡盤

### SC72 SERIES 4 JAW INDEPENDENT MOVEMENT CHUCKS

另有其他短錐形式的卡盤，如A型、C型、D型 Other short taper mounting type like A/C/D is available.



- 標準配件: Standard accessories:
- ① 一套卡爪 1 set of hard solid jaws
  - ② 一個扳手 1 wrench
  - ③ 一套螺絲 1 set of mounting screws.

#### 規格 / Specification

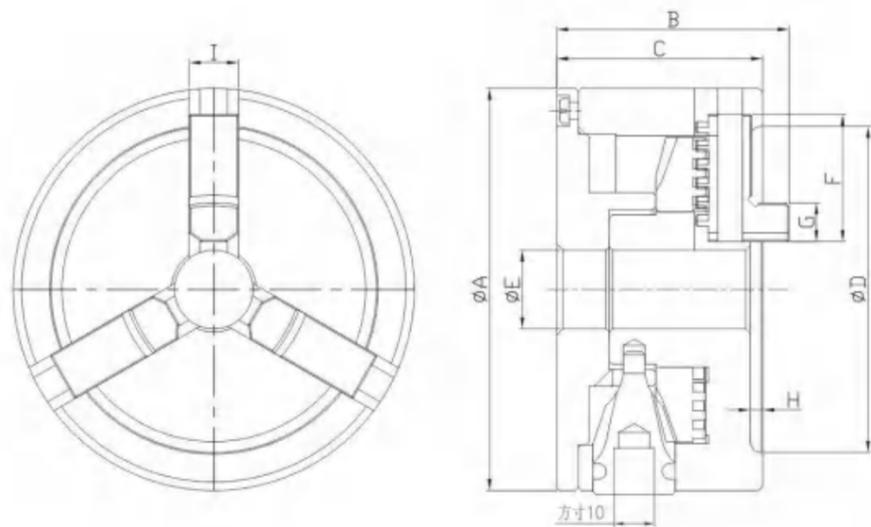
單位/UNIT:mm

型號 MODEL	卡盤尺寸 Chuck Size	Size D Inch	D1	D2	D3	H	H1	h	z-d
SC72-80	80	3	55	66	22	58	42	3.5	4-M6
SC72-100	100	4	72	84	25	77	54	4	4-M8
SC72-125	125	5	95	108	30	78	56	4.5	4-M8
SC72-160	160	6	65	95	45	96.5	65	5	4-M10
SC72-160A	160	6	53	71	45	96.5	65	5	4-M10
SC72-160T	160	6	130	145	40	96.5	65	5	4-M10
SC72-200	200	8	125	104.8	50	110	75	6	4-M10
SC72-200A	200	8	75	95	56	110	75	6	4-M10
SC72-250	250	10	100	120	65	117.5	82	6	4-M12
SC72-250A	250	10	110	130	75	115.5	80	6	4-M12
SC72-300	300	12	152	130	75	128.5	85	6	4-M12
SC72-315	315	12	140	165	95	134	90	6	4-M16
SC72-320	320	13	140	165	95	134	90	6	4-M16
SC72-350	350	14	130	168	80	145	95	8	4-M16
SC72-400	400	16	160	185	125	143	95	8	4-M16
SC72-450	450	18	180	205	140	147	100	8	4-M16
SC72-500	500	20	200	236	160	161	106	8	4-M20
SC72-630	630	25	220	258	180	180	115	10	4-M20
SC72-800	800	32	250	300	210	210	135	12	8-M20
SC72-1000	1000	40	320	370	260	241	150	15	8-M20
SC72-1000A	1000	40	285	330	280	241	150	75	8-M20
SC72-1250	1250	50	400	500	305	256	165	15	8-M20
SC72-1400	1400	55	400	500	305	246	155	15	8-M20
SC72-1600	1600	63	420	520	320	266	175	18	8-M24
SC72-2000	2000	80	450	560	350	290	190	20	8-M30

## 三爪自定心卡盤

### THREE JAW SELF CENTERING CHUCK

- ◎ 汽車行業專用卡盤，用于各種汽車剎車殼的夾持加工。
- ◎ 自定心精度高，夾持範圍廣，重量輕。
- ◎ Special purpose automobile chucks, it's suitable for clamping and machining various automobile brake hubs.
- ◎ With high self-centring precision, large clamping range and light weight.



規格 / Specification

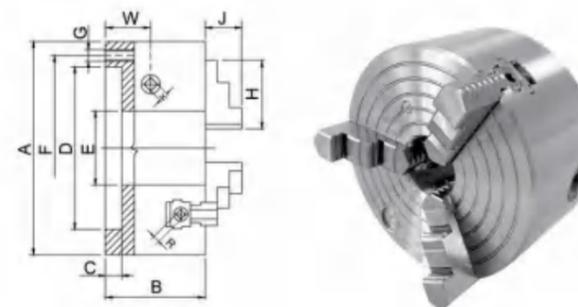
單位/UNIT:mm

型號/規格 MODEL/SPEC	A	B	C	D	E	F	G	H	I	把握範圍 Max Gripping Diameter	淨重 Weight (kg)
										內徑把握 I.D. Clamping(mm)	
SCA-130-1	129.5	75	66.5	105	25.4	41	12.5	4	16	50.4-90	4.8
SCA-130-2	129.5	75	66.5	105	25.4	41	12.5	4	16	88.5-130	4.9

## SI系列三爪單連復合卡盤

### SI 3 JAW COMBINATION MANUAL CHUCK

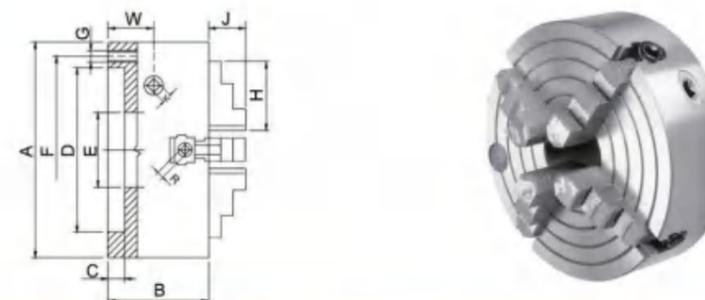
- ◎ 適用於車床、轉臺、加工中心等設備，不用更換卡盤，即可實現加工規則工件以及不規則工件。
- ◎ 既有自定心卡盤的夾持功能，又有單動卡盤的夾持功能。
- ◎ 後孔安裝設計，可改裝為前後鎖共用。
- ◎ It can be used onto lathe machine, rotary table or CNC machine and so on, it can work for regular or irregular workpiece without changing the chuck.
- ◎ It has the gripping function of both scroll chuck and independent movement chuck.
- ◎ Back mounting hole design, and front mounting is achievable.



規格 Spec 型號 Model	A	B	C	D	E	F	G	H	J	K	R	W	最高轉速 RPM max
SI-160	160	82	4	125	42	140	3×M10	69	28.5	11	6	22.3	3200
SI-200	200	96	4	160	55	176	3×M10	85	31	11	8	26	3000
SI-250	250	101	5	200	76	224	3×M12	91	33	14	8	29.3	2500
SI-315	315	118	5	260	103	286	3×M16	125	42	14	10	32	2000
SI-400	400	124	6	330	136	362	3×M16	145	58	17	10	36	1500
SI-500	500	145	6	420	190	458	6×M16	180	61	19	12	43.5	1000
SI-630	630	160	7	545	252	586	6×M16	225	72	19	12	48.5	750
SI-800	800	200	10	710	267	760	6×M20	245	67	19	17	57.5	600
SI-1000	1000	236	10	910	460	950	6×M24	245	88	24	19	67	380
SI-1250	1250	241	10	1000	560	1100	6×M30	245	88	24	19	72	200

## SIF系列四爪單連復合卡盤

### SIF 4 JAW COMBINATION MANUAL CHUCK



規格 Spec 型號 Model	A	B	C	D	E	F	G	H	J	K	R	W	最高轉速 RPM max
SIF-160	160	82	4	125	42	140	6×M10	69	28.5	11	6	22.3	2850
SIF-200	200	96	4	160	55	176	6×M10	85	31	11	8	26	2500
SIF-250	250	101	5	200	76	224	6×M12	91	33	14	8	29.3	2000
SIF-315	315	118	5	260	103	286	6×M16	125	42	14	10	32	1700
SIF-400	400	124	6	330	136	362	6×M16	145	58	17	10	36	1300
SIF-500	500	145	6	420	190	458	6×M16	180	61	19	12	43.5	800
SIF-630	630	160	7	545	252	586	6×M16	225	72	19	12	48.5	660
SIF-800	800	200	10	710	267	760	6×M20	245	67	19	17	57.5	520
SIF-1000	1000	236	10	910	460	950	6×M24	245	88	24	19	67	330
SIF-1250	1250	241	10	1000	560	1100	6×M30	245	88	24	19	72	170

※ 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 ※ 非標需求可訂做 Non-standard requirements can be made



## > N-200A SERIES

### 三爪中空油壓夾頭 (包含連接板)

#### 3-JAW THROUGH-HOLE POWER CHUCK (ADAPTER INCLUDED)

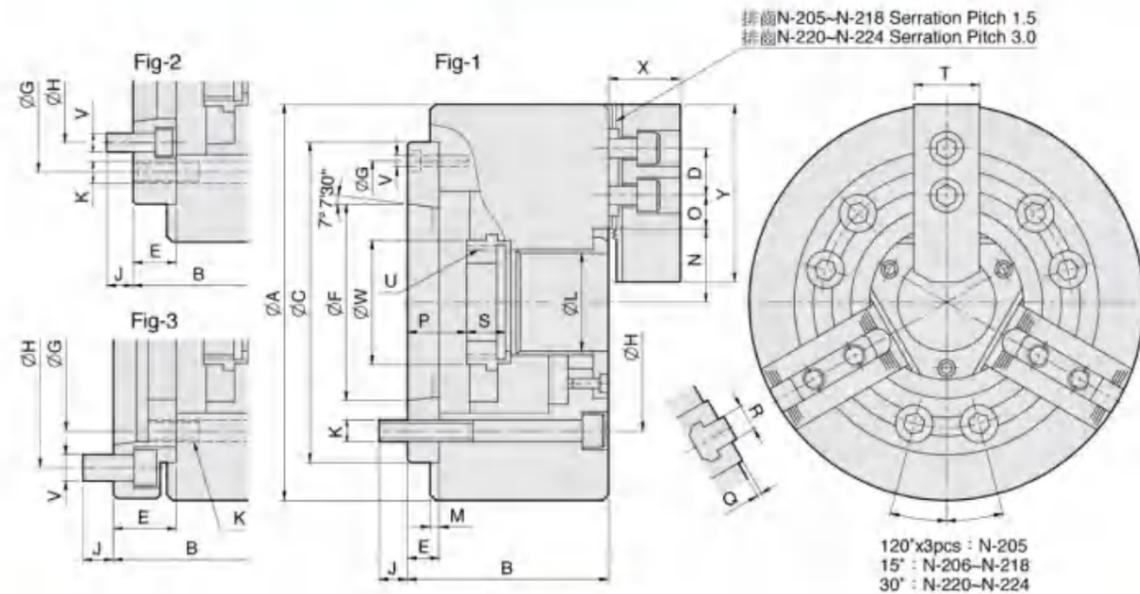
- 夾頭採用高級合金鋼材質，所有滑動面經表面硬化及研磨處理，以提高回轉精度及耐久性。
- 安裝：符合DIN 55026主軸標準。
- Chucks are manufactured from high grade alloy steel. All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.
- Mounting: Adapter mounting for DIN 55026 spindles.



單位:mm

型式 Model	通孔直徑 Through hole dia. (mm)	拉料行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB pull (Kgf)	最大夾持力 Max clamping force (Kgf)	最大使用油壓 力(Kgf/cm <sup>2</sup> ) Max oil pressure	最高轉速 max r.p.m	重量 Weight (kg)	慣性矩 kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
N-205A4	Ø33	10	5.4	1784	3671	28.5	7000	7.8	0.020	M1036	HJ05	HC05	Ø6-Ø135
N-205A5	Ø33	10	5.4	1784	3671	28.5	7000	9	0.023	M1036	HJ05	HC05	Ø6-Ø135
N-206A4	Ø45	12	5.5	2243	5812	28.5	6000	15.5	0.065	M1246	HJ06	HC06	Ø15-Ø169
N-206A5	Ø45	12	5.5	2243	5812	28.5	6000	14.7	0.062	M1246	HJ06	HC06	Ø15-Ø169
N-206A6	Ø45	12	5.5	2243	5812	28.5	6000	17.3	0.073	M1246	HJ06	HC06	Ø15-Ø169
N-208A5	Ø52	16	7.4	3558	9075	26.5	5000	25.8	0.190	M1552	HJ08	HC08	Ø20-Ø210
N-208A6	Ø52	16	7.4	3558	9075	26.5	5000	25	0.184	M1552	HJ08	HC08	Ø20-Ø210
N-208A8	Ø52	16	7.4	3558	9075	26.5	5000	29.3	0.217	M1552	HJ08	HC08	Ø20-Ø210
N-210A6	Ø75	19	8.8	4385	11319	27.5	4200	41	0.370	M1875	HJ10	HC10	Ø25-Ø254
N-210A8	Ø75	19	8.8	4385	11319	27.5	4200	38	0.340	M1875	HJ10	HC10	Ø25-Ø254
N-210A11	Ø75	19	8.8	4385	11319	27.5	4200	48.4	0.436	M1875	HJ10	HC10	Ø25-Ø254
N-212A6	Ø91	23	10.6	5812	14990	27.5	3300	62.5	0.809	M2091	HJ12	HC12	Ø30-Ø304
N-212A8	Ø91	23	10.6	5812	14990	27.5	3300	59.5	0.770	M2091	HJ12	HC12	Ø30-Ø304
N-212A11	Ø91	23	10.6	5812	14990	27.5	3300	69.9	0.912	M2091	HJ12	HC12	Ø30-Ø304
N-215A8	Ø117.5	23	10.6	7240	18335	23.5	2500	125	2.255	M2511S	HJ15	HC15	Ø50-Ø381
N-215A11	Ø117.5	23	10.6	7240	18335	23.5	2500	118	2.241	M2511S	HJ15	HC15	Ø50-Ø381
N-215A15	Ø117.5	23	10.6	7240	18335	23.5	2500	138	2.822	M2511S	HJ15	HC15	Ø50-Ø381
N-218A8	Ø117.5	23	10.6	7240	18335	23.5	2000	146	3.961	M2511S	HJ15	HC15	Ø50-Ø450
N-218A11	Ø117.5	23	10.6	7240	18335	23.5	2000	138	3.744	M2511S	HJ15	HC15	Ø50-Ø450
N-218A15	Ø117.5	23	10.6	7240	18335	23.5	2000	191	5.183	M2511S	HJ15	HC15	Ø50-Ø450
N-220A11	Ø180	23	10.6	9177	23861	30.6	1800	215	7.355	ML2816	HJ24-1	HC24-1	Ø120-Ø510
N-220A15	Ø180	23	10.6	9177	23861	30.6	1800	202	6.910	ML2816	HJ24-1	HC24-1	Ø120-Ø510
N-224A11	Ø205	26	12	9177	23861	26.5	1400	332	18.199	ML3320	HJ24-1	HC24-1	Ø150-Ø610
N-224A15	Ø205	26	12	9177	23861	26.5	1400	317	17.376	ML3320	HJ24-1	HC24-1	Ø150-Ø610
N-224A20	Ø205	26	12	9177	23861	26.5	1400	286	15.677	ML3320	HJ24-1	HC24-1	Ø150-Ø610
N-232A11	Ø230	34	18	10197	24472	29.5	1200	530	43	ML3320	HJ24-1	HC24-1	Ø210-Ø800
N-232A15	Ø230	34	18	10197	24472	29.5	1200	515	43	ML3320	HJ24-1	HC24-1	Ø210-Ø800
N-232A20	Ø230	34	18	10197	24472	29.5	1200	485	42	ML3320	HJ24-1	HC24-1	Ø210-Ø800

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
非標準需求可訂做 Non-standard requirements can be made



單位:mm

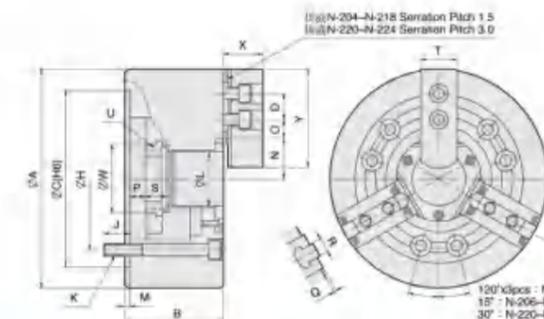
## > N-200 SERIES

三爪中空油壓夾頭  
(不含連接板)



### 3-JAW THROUGH-HOLE POWER CHUCK (ADAPTER EXCLUDED)

夾頭採用高級合金鋼材質，所有滑動面經表面硬化及研磨處理，以提高回轉精度及耐久性。  
Chucks are manufactured from high grade alloy steel. All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.



單位:mm

型式 Model	A	B	C (H6)	D	E	F	G	H	J	K	L	M	N max	O max	Q min	P max	P min	Q	R	S	T	U max	V	W	X	Y	參考圖 Ref
N-205A4	135	71	110	14	15	63.513	96	82.55	15.5	3-M10	33	4	26.5	19.75	7.75	16	6	2	10	20	25	M40x1.5	3-M6	44.5	31	62	Fig-1
N-205A5	135	88	110	14	32	82.563	82.55	104.78	14	3-M10	33	4	26.5	19.75	7.75	33	23	2	10	20	25	M40x1.5	6-M10	44.5	31	62	Fig-3
N-206A4	169	96	140	20	20	63.513	104.78	82.55	16	6-M10	45	5	32	22.75	9.25	31	19	2	12	19	31	M55x2	6-M10	60	37	73	Fig-2
N-206A5	169	91	140	20	15	82.563	116	104.78	16	6-M10	45	5	32	22.75	9.25	26	14	2	12	19	31	M55x2	3-M6	60	37	73	Fig-1
N-206A6	169	111	140	20	35	106.375	104.78	133.35	16	6-M10	45	5	32	22.75	9.25	46	34	2	12	19	31	M55x2	6-M12	60	37	73	Fig-3
N-208A5	210	109	170	25	23	82.563	133.35	104.78	14	6-M12	52	5	38.7	29.75	11.75	37.5	21.5	2	14	20.5	35	M60x2	6-M10	66	38	95	Fig-2
N-208A6	210	103	170	25	17	106.375	150	133.35	18	6-M12	52	5	38.7	29.75	11.75	31.5	15.5	2	14	20.5	35	M60x2	3-M6	66	38	95	Fig-1
N-208A8	210	126	170	25	40	139.719	133.35	171.45	24	6-M12	52	5	38.7	29.75	11.75	54.5	38.5	2	14	20.5	35	M60x2	6-M16	66	38	95	Fig-3
N-210A6	254	120	220	30	25	106.375	171.45	133.35	18	6-M16	75	5	51.4	33.75	14.25	33.5	14.5	2	16	25	40	M85x2	6-M12	94	43	110	Fig-2
N-210A8	254	113	220	30	18	139.719	190	171.45	24	6-M16	75	5	51.4	33.75	14.25	26.5	7.5	2	16	25	40	M85x2	3-M6	94	43	110	Fig-1
N-210A11	254	145	220	30	50	196.869	171.45	235	28	6-M16	75	5	51.4	33.75	14.25	58.5	39.5	2	16	25	40	M85x2	6-M20	94	43	110	Fig-3
N-212A6	304	129	220	30	25	108.375	171.45	133.35	18	6-M16	91	6	61.3	45.75	15.75	33	10	2	21	28	50	M100x2	6-M12	108	51	130	Fig-2
N-212A8	304	122	220	30	18	139.719	190	171.45	25	6-M16	91	6	61.3	45.75	15.75	26	3	2	21	28	50	M100x2	3-M6	108	51	130	Fig-1
N-212A11	304	154	220	30	50	196.869	171.45	235	28	6-M16	91	6	61.3	45.75	15.75	58	35	2	21	28	50	M100x2	6-M20	108	51	130	Fig-3
N-215A6	381	160	300	43	33	139.719	235	171.45	24	6-M20	117.5	6	82	45.25	15.25	40	17	5	22	43	62	M130x2	6-M16	139	66	165	Fig-2
N-215A11	381	149	300	43	22	196.869	260	235	28	6-M20	117.5	6	82	45.25	15.25	29	6	5	22	43	62	M130x2	3-M10	139	66	165	Fig-1
N-215A15	381	184	300	43	57	285.775	235	330.2	29	6-M20	117.5	6	82	45.25	15.25	64	41	5	22	43	62	M130x2	6-M24	139	66	165	Fig-3
N-218A8	450	160	300	43	33	139.719	235	171.45	24	6-M20	117.5	6	82	79.75	15.25	40	17	5	22	43	62	M130x2	6-M16	139	66	165	Fig-2
N-218A11	450	149	300	43	22	196.869	260	235	28	6-M20	117.5	6	82	79.75	15.25	29	6	5	22	43	62	M130x2	3-M10	139	66	165	Fig-1
N-218A15	450	184	300	43	57	285.775	235	330.2	29	6-M20	117.5	6	82	79.75	15.25	64	41	5	22	43	62	M130x2	6-M24	139	66	165	Fig-3
N-220A11	510	169	380	60	41	196.869	330.2	235	30	6-M24	180	6	112.5	60.5	24.5	52	29	5	25	38	64	M190x3	6-M20	206	73	180	Fig-2
N-220A15	510	155	380	60	27	285.775	330.2	330.2	33	6-M24	180	6	112.5	60.5	24.5	38	15	5	25	38	64	M190x3	3-M12	206	73	180	Fig-1
N-224A11	610	186	520	60	45	196.869	463.6	235	28	6-M24	205	6	131.9	87.5	24.5	61	35	5	25	38	64	M215x3	6-M20	230	73	180	Fig-2
N-224A15	610	183	520	60	42	285.775	463.6	330.2	32.5	6-M24	205	6	131.9	87.5	24.5	58	32	5	25	38	64	M215x3	6-M24	230	73	180	Fig-2
N-224A20	610	166	520	60	25	412.775	463.6	463.6	35	6-M24	205	6	131.9	87.5	24.5	41	15	5	25	38	64	M215x3	3-M10	230	73	180	Fig-1
N-232A11	800	189	520	60	45	196.869	463.6	235	28	6-M24	230	6	162	153.5	24.5	61	27	5	25	38	64	M250x3	6-M20	262	73	180	Fig-2
N-232A15	800	186	520	60	42	285.775	463.6	330.2	32.5	6-M24	230	6	162	153.5	24.5	58	24	5	25	38	64	M250x3	6-M24	262	73	180	Fig-2
N-232A20	800	169	520	60	25	412.775	463.6	463.6	35	6-M24	230	6	162	153.5	24.5	41	7	5	25	38	64	M250x3	3-M10	262	73	180	Fig-1

型式 Model	通孔直徑 Through hole dia. (mm)	行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB pull (Kg)	最大夾持力 Max clamping force (Kg)	最大使用油壓 Max oil pressure (Kg/cm <sup>2</sup> )	最高回轉速率 max r.p.m	重量 Weight (kg)	慣性矩 Kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
N-204	Ø26	10	5.4	1428	2906	31.6	8000	4	0.007	M0928A	HJ05	HC04	Ø4-Ø110
N-205	Ø33	10	5.4	1784	3671	28.5	7000	7	0.018	M1036	HJ05	HC05	Ø6-Ø135
N-206	Ø45	12	5.5	2243	5812	28.5	6000	13.5	0.057	M1246	HJ06	HC06	Ø15-Ø169
N-208	Ø52	16	7.4	3558	9075	26.5	5000	23	0.17	M1552	HJ08	HC08	Ø20-Ø210
N-210	Ø75	19	8.8	4385	11319	27.5	4200	35	0.315	M1875	HJ10	HC10	Ø25-Ø254
N-212	Ø91	23	10.6	5812	14990	27.5	3300	56.5	0.737	M2091	HJ12	HC12	Ø30-Ø304
N-215	Ø117.5	23	10.6	7240	18355	23.5	2500	111	2.27	M2511S	HJ15	HC15	Ø50-Ø381
N-218	Ø117.5	23	10.6	7240	18355	23.5	2000	131	3.55	M2511S	HJ15	HC15	Ø50-Ø450
N-220	Ø180	23	10.6	9177	23861	30.6	1800	190	6.5	ML2816	HJ24-1	HC24-1	Ø120-Ø510
N-224	Ø205	26	12	9177	23861	26.5	1400	270	14.8	ML3320	HJ24-1	HC24-1	Ø150-Ø610
N-232	Ø230	34	18	10797	24472	29.5	1200	470	41	ML3320	HJ24-1	HC24-1	Ø210-Ø800

型式 Model	A	B	C (H6)	D	H	J	K	L	M	N max	O max	Q min	P max	P min	Q	R	S	T	U max	W	X	Y
N-204	110	59	85	14	70.6	16	3-M10x60	26	4	23	11.25	5.25	3.5	-6.5	2	10	17.5	23	M32x1.5	38	24	49.5
N-205	135	60	110	14	82.55	15	3-M10x60	33	4	26.5	19.75	7.75	1	-9	2	10	20	25	M40x1.5	44.5	31	62
N-206	169	81	140	20	104.78	16	6-M10x80	45	5	32	22.75	9.25	11	-1	2	12	19	31	M55x2	60	37	73
N-208	210	91	170	25	133.35	20	6-M12x90	52	5	38.7	29.75	11.75	14.5	-1.5	2	14	20.5	35	M60x2	66	38	95
N-210	254	100	220	30	171.45	22	6-M16x100	75	5	51.4	33.75	14.25	8.5	-10.5	2	16	25	40	M85x2	94	43	110
N-212	304	110	220	30	171.45	23	6-M16x110	91	6	61.3	45.75	15.75	8	-15	2	21	28	50	M100x2	108	51	130
N-215	381	133	300	43	235	30	6-M20x135	117.5	6	82	45.25	15.25	7	-16	5	22	43	62	M130x2	139	66	165
N-218	450	133	300	43	235	30	6-M20x135	117.5	6	82	79.75	15.25	7	-16	5	22	43	62	M130x2	139	66	165
N-220	510	134	380	60	330.2	35	6-M24x135	180	6	112.5	60.5	24.5	11	-12	5	25	38	64	M190x3	206	73	180
N-224	610	147	520	60	463.6	35	6-M24x150	205	6	131.9	87.5	24.5	16	-10	5	25	38	64	M215x3	230	73	180
N-232	800	150	520	60	463.6	35	6-M24x150	230	6	162	153.5	24.5	16	-18	5	25	38	64	M250x3	262	73	180

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
非標準需求可訂做 Non-standard requirements can be made

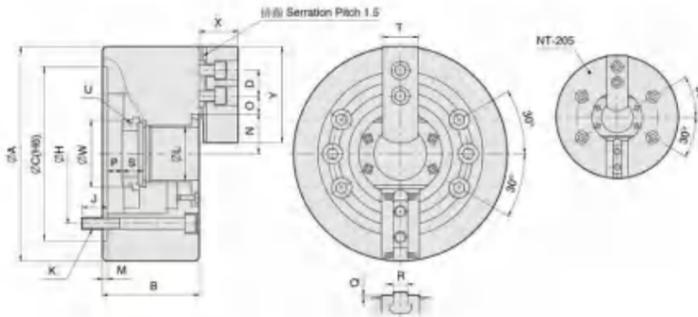
保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
非標準需求可訂做 Non-standard requirements can be made

## > NT-200 SERIES

二爪中空油壓夾頭  
(不含連接板)

2-JAW THROUGH-HOLE POWER CHUCK  
(ADAPTER EXCLUDED)

- 夾頭採用高級合金鋼材質，所有滑動面經表面硬化及研磨處理，以提高回轉精度及耐久性。
- Chucks are manufactured from high grade alloy steel. All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.



單位:mm

型式 Model	通孔直徑 Through hole dia. (mm)	拉桿行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB pull (Kgf)	最大夾持力 Max clamping force (Kgf)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max oil pressure	最高回轉速 max r.p.m	重量 Weight (kg)	慣性矩 kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
NT-205	Ø33	10	5.4	1189	2447	19.5	7000	6.8	0.017	M1036	HJ05	HC05	Ø6-Ø135
NT-206	Ø45	12	5.5	1495	3875	18.9	6000	12.8	0.054	M1246	HJ06	HC06	Ø15-Ø169
NT-208	Ø52	16	7.4	2366	5975	18.4	5000	22	0.163	M1552	HJ08	HC08	Ø20-Ø210
NT-210	Ø75	19	8.8	2927	7546	18.4	4200	34	0.306	M1875	HJ10	HC10	Ø25-Ø254
NT-212	Ø91	23	10.6	3875	9993	18.4	3300	55	0.717	M2091	HJ12	HC12	Ø30-Ø304
NT-215	Ø117.5	23	10.6	4823	12236	15.3	2500	106	2.17	M2511S	HJ15	HC15	Ø50-Ø381
NT-218	Ø117.5	23	10.6	4823	12236	15.3	2000	122	33.1	M2511S	HJ15	HC15	Ø50-Ø450

型式 Model	A	B	C (H6)	D	H	J	K	L	M	N max	O max	O min	P max	P min	Q	R	S	T	U max	W	X	Y
NT-205	135	60	110	14	82.55	15	4-M10x60	33	4	26.5	19.75	7.75	1	-9	2	10	20	25	M40x1.5	44.5	31	62
NT-206	169	81	140	20	104.78	16	6-M10x80	45	5	32	22.75	9.25	11	-1	2	12	19	31	M55x2	60	37	73
NT-208	210	91	170	25	133.35	20	6-M12x90	52	5	38.7	29.75	11.75	14.5	-1.5	2	14	20.5	35	M60x2	66	38	95
NT-210	254	100	220	30	171.45	22	6-M16x100	75	5	51.4	33.75	14.25	8.5	-10.5	2	16	25	40	M85x2	94	43	110
NT-212	304	110	220	30	171.45	23	6-M16x110	91	6	61.3	45.75	15.75	8	-15	2	21	28	50	M100x2	108	51	130
NT-215	381	133	300	43	235	30	6-M20x135	117.5	6	82	45.25	15.25	7	-16	5	22	43	62	M130x2	139	66	165
NT-218	450	133	300	43	235	30	6-M20x135	117.5	6	82	79.75	15.25	7	-16	5	22	43	62	M130x2	139	66	165

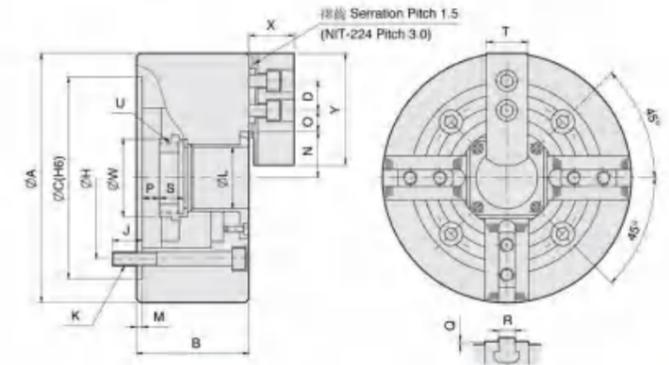
保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
非標準需求可訂做 Non-standard requirements can be made

## > NIT-200 SERIES

四爪中空油壓夾頭  
(不含連接板)

4-JAW THROUGH-HOLE POWER CHUCK  
(ADAPTER EXCLUDED)

- 夾頭採用高級合金鋼材質，所有滑動面經表面硬化及研磨處理，以提高回轉精度及耐久性。
- Chucks are manufactured from high grade alloy steel. All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.



單位:mm

型式 Model	通孔直徑 Through hole dia. (mm)	拉桿行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB pull (Kgf)	最大夾持力 Max clamping force (Kgf)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max oil pressure	最高回轉速 max r.p.m	重量 Weight (kg)	慣性矩 kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
NIT-206	Ø45	12	5.5	2243	5812	28.5	4500	13.7	0.058	M1246	HJ06	HC06	Ø15-Ø169
NIT-208	Ø52	16	7.4	3558	9075	26.5	3600	24	1.177	M1552	HJ08	HC08	Ø20-Ø210
NIT-210	Ø75	19	8.8	4385	11319	27.5	3200	36	0.324	M1875	HJ10	HC10	Ø25-Ø254
NIT-212	Ø91	23	10.6	5812	14990	27.5	2700	58.5	0.763	M2091	HJ12	HC12	Ø30-Ø304
NIT-215	Ø117.5	23	10.6	7240	18355	23.5	1900	114	2.331	M2511S	HJ15	HC15	Ø50-Ø381
NIT-218	Ø117.5	23	10.6	7240	18355	23.5	1500	140	3.798	M2511S	HJ15	HC15	Ø50-Ø450
NIT-224	Ø205	26	12	9177	23861	26.5	1000	284	15.2	ML3320	HJ24-1	HC24-1	Ø150-Ø610

型式 Model	A	B	C (H6)	D	H	J	K	L	M	N max	O max	O min	P max	P min	Q	R	S	T	U max	W	X	Y
NIT-206	169	81	140	20	104.78	16	4-M10x80	45	5	32	22.75	9.25	11	-1	2	12	19	31	M55x2	60	37	73
NIT-208	210	91	170	25	133.35	20	4-M12x90	52	5	38.7	29.75	11.75	14.5	-1.5	2	14	20.5	35	M60x2	66	38	95
NIT-210	254	100	220	30	171.45	22	4-M16x100	75	5	51.4	33.75	14.25	8.5	-10.5	2	16	25	40	M85x2	94	43	110
NIT-212	304	110	220	30	171.45	23	4-M16x110	91	6	61.3	45.75	15.75	8	-15	2	21	28	50	M100x2	108	51	130
NIT-215	381	133	300	43	235	30	4-M20x135	117.5	6	82	45.25	15.25	7	-16	5	22	43	62	M130x2	139	66	165
NIT-218	450	133	300	43	235	30	4-M20x135	117.5	6	82	79.75	15.25	7	-16	5	22	43	62	M130x2	139	66	165
NIT-224	610	147	520	60	436.6	35	8-M24x150	205	6	131.9	87.5	24.5	16	-10	5	25	38	64	M215x3	230	73	180

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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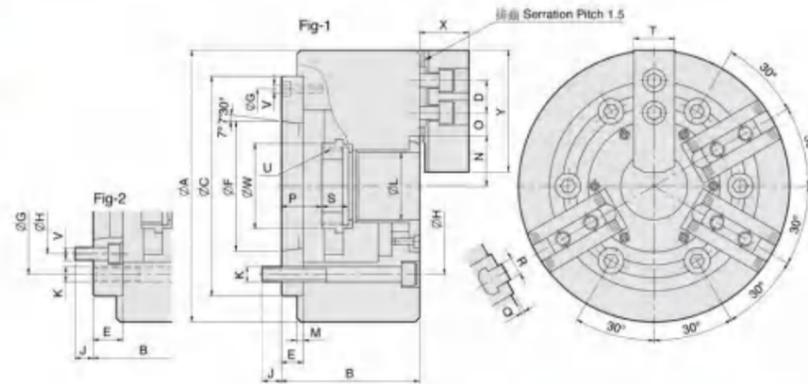
## > NHT-200 SERIES

二爪三爪共用中空油壓夾頭  
(包含連接板)

2-JAW AND 3-JAW THROUGH-HOLE POWER CHUCK  
(ADAPTER INCLUDED)



- 可做圓形與不規則之工件夾持，不須換夾頭。
- 夾頭採用高級合金鋼材質，所有滑動表面硬化及研磨以提高回轉精度及耐久性。
- 安裝：符合DIN 55026主軸標準。
- Gripping of round or irregular workpiece does not need to change the chuck.
- Chucks are manufactured from high grade alloy steel. All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.
- Mounting :Adapter mounting for DIN 55026 spindles.



單位:mm

型式 Model	通孔直徑 Through hole dia. (mm)	拉桿行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB pull (Kgf) 三爪/二爪	最大夾持力 Max clamping force (Kgf) 三爪/二爪	最大使用油壓 力(Kgf/cm <sup>2</sup> ) Max oil pressure 三爪/二爪	最高回轉速 max r.p.m	重量 Weight (kg)	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
NHT-208A5	Ø52	16	7.4	2192/1590	5608/3997	17.3/13.3	3500	26.2	M1552	HJ06	HC08-1	Ø20-Ø210
NHT-208A6	Ø52	16	7.4	2192/1590	5608/3997	17.3/13.3	3500	25	M1552	HJ06	HC08-1	Ø20-Ø210

型式 Model	A	B	C (H6)	D	E	F	G	H	J	K	L	M	N max	O max	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	參考圖 Ref
NHT-208A5	210	113	170	20	23	82.563	133.35	104.78	14	6xM12	52	5	41.8	34	7.5	37.5	21.5	2	12	20.5	35	M60x2	6xM10	66	38	73	Fig-2
NHT-208A6	210	107	170	20	17	106.375	150	133.35	17	6xM12	52	5	41.8	34	7.5	31.5	15.5	2	12	20.5	35	M60x2	3xM6	66	38	73	Fig-1

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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## > NB-200A SERIES

三爪超大孔中空油壓夾頭  
(包含連接板)

3-JAW EXTRA LARGE THROUGH-HOLE POWER CHUCK  
(ADAPTER INCLUDED)



- 超大貫通孔徑：油壓夾頭中，具最大貫穿孔徑。
- 尺寸規格提高20%：比一般夾頭，具高約20%之轉速，夾持力及貫通孔徑尺寸。
- 夾頭採用高級合金鋼材質，所有滑動面經表面硬化及研磨處理，以提高回轉精度及耐久性。
- 安裝：符合DIN 55026主軸標準。
- More large bore: The largest bore in wedge type power operated chucks.
- 20% large bore: approximately 20% higher speed, gripping force and larger bore compared with regular chucks.
- Chucks are manufactured from high grade alloy steel. All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.
- Mounting: Adapter mounting for DIN55026 spinles.

單位:mm

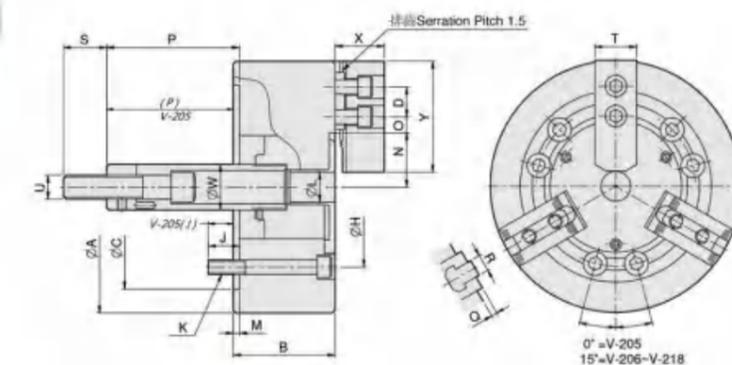
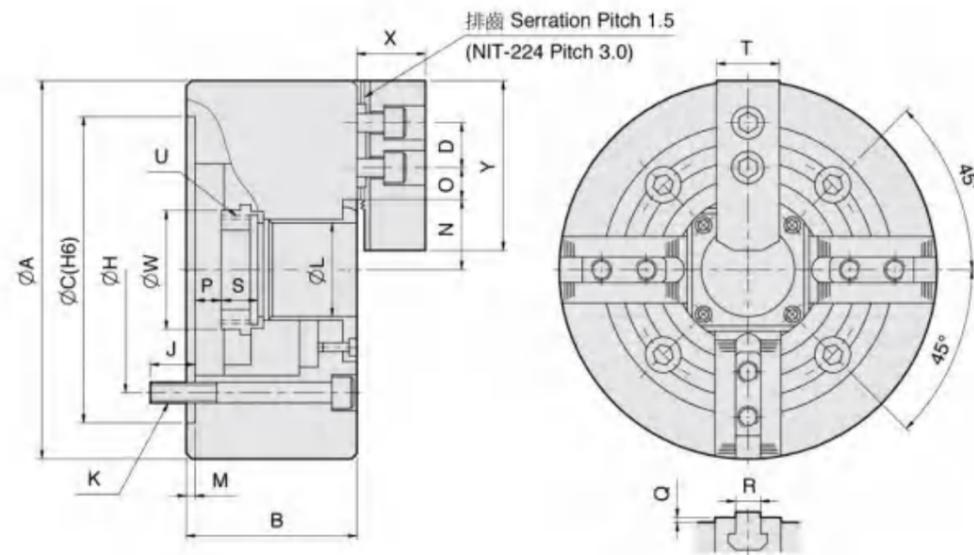
型式 Model	通孔直徑 Through hole dia. (mm)	拉桿行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB pull (Kgf)	最大夾持力 Max clamping force (Kgf)	最大使用油壓 力(Kgf/cm <sup>2</sup> ) Max oil pressure	最高回轉速 max r.p.m	重量 Weight (kg)	慣性矩 kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
NB-306A5	Ø52	12	5.4	2243	5812	18.4	6000	14	0.06	M1552	HJ06	HC06	Ø20-Ø170
NB-306A6	Ø52	12	5.4	2243	5812	18.4	6000	15.6	0.087	M1552	HJ06	HC06	Ø20-Ø170
NB-208A6	Ø66	16	7.4	3558	9075	22.0	5000	24	0.14	M1768	HJ08	HC08	Ø26-Ø210
NB-210A8	Ø78	19	8.8	4385	11319	27.5	4200	37.4	0.4	M1878	HJ10	HC10	Ø36-Ø256
NB-310A8	Ø81	19	8.8	4976	12848	31.5	4500	36.4	0.33	MK1881	HJ10	HC10	Ø37-Ø254
NB-212A8	Ø122	23	10.6	5812	14990	20.5	3200	72.2	1.04	M2511S	HJ12	HC12	Ø59-Ø315
NB-212A11	Ø122	23	10.6	5812	14990	20.5	3200	65	0.95	M2511S	HJ12	HC12	Ø59-Ø315
NB-215A15	Ø142	23	10.6	7240	18355	25.5	2500	130	3.0	ML2816	HJ15	HC15	Ø60-Ø405
NB-218A15	Ø166.5	23	10.6	7240	18355	25.5	2000	161	4.77	ML2816	HJ15	HC15	Ø78-Ø457

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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## > V SERIES

### 三爪中實油壓夾頭 (不含連接板)

### 3-JAW WEDGE TYPE NON THROUGH-HOLE POWER CHUCK (ADAPTER EXCLUDED)



型式 Model	A	B	C (H6)	D	E	F	G	H	J	K	L	M	N max	O max	O min	P max	P min
NB-306A5	170	91	140	20	15	82.563	116	104.78	14.5	6×M10	52	5	37	18.25	9.25	26	14
NB-306A6	170	111	140	20	35	106.375	104.78	133.35	16	6×M10	52	5	37	18.25	9.25	46	34
NB-208A6	210	103	170	25	17	106.375	150	133.35	19.5	6×M12	66	5	45.7	23.75	11.75	31.5	15.5
NB-210A8	256	113	220	30	18	139.719	190	171.45	24	6×M16	78	5	53	33.75	14.25	26.5	7.5
NB-310A8	254	113	220	30	18	139.719	190	171.45	24	6×M16	81	5	54	32.25	14.25	26.5	7.5
NB-212A8	315	145	300	30	33	139.719	235	171.45	24	6×M20	122	6	79.5	33.75	11.25	53	30
NB-212A11	315	134	300	30	22	196.869	260	235	28	6×M20	122	6	79.5	33.75	11.25	42	19
NB-215A15	405	154	380	43	27	285.775	330.2	330.2	33	6×M24	142	6	93.5	45.25	15.25	34	11
NB-218A15	457	154	380	43	27	285.775	330.2	330.2	33	6×M24	166.5	6	102	63.25	18.25	34	11

型式 Model	Q	R	S	T	U max	V	W	X	Y	Z (H12)	Z2	Z3	Z4	Z5	參考圖 Reference
NB-306A5	2	12	20	31	M60×2	3-M6	65	37	73	16	36	65	M8×15	63	Fig-1
NB-306A6	2	12	20	31	M60×2	6-M12	65	37	73	16	36	65	M8×15	63	Fig-3
NB-208A6	2	14	20	35	M75×2	3-M6	80	38	95	16	45	80	M8×15	78	Fig-1
NB-210A8	2	16	25	40	M87×2	3-M8	94	43	110	16	60	102	M10×20	91	Fig-1
NB-310A8	2	16	25	40	M90×2	3-M8	97	43	110	16	60	102	M10×20	91	Fig-1
NB-212A8	2	21	28	50	M135×2	6-M16	143	51	130	20	60	138	M10×10	123	Fig-2
NB-212A11	2	21	28	50	M135×2	3-M10	143	51	130	20	60	138	M10×10	123	Fig-1
NB-215A15	5	22	43	62	M155×2	3-M12	164	66	165	20	80	160	M12×22	145	Fig-1
NB-218A15	5	22	43	62	M180×3	3-M12	189	66	165	20	100	160	M12×22	145	Fig-1

標準牙M74×2

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- 高性能：與N系列夾頭一致之高性能。
- 夾頭安裝螺絲：公制或英制圓頭螺絲以締結夾頭與主軸。
- High performance: Similar high performance with series.
- Chuck mounting screws: Metric or UNC socket head cap screws are supplied for installing the chuck to the spindle.

單位:mm

型式 Model	拉桿行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB pull (Kgf)	最大夾持力 Max clamping force (Kgf)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max oil pressure	最高轉速 max r.p.m	重量 Weight (kg)	慣性矩 kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
V-205	15	6.4	836	2570	22.4	5500	6.3	0.015	MH80	HJ05	HC05	Ø6-Ø135
V-206	20	9.2	1835	5353	26.5	5200	12.7	0.048	MS105C	HJ06	HC06	Ø18-Ø165
V-208	21	9.7	2549	7648	25.5	4500	23.8	0.137	MS125C	HJ08	HC08	Ø26-Ø210
V-210	25	8.8	2957	11013	28.6	4000	36.4	0.3	MS125C	HJ10	HC10	Ø26-Ø254
V-212	30	10.5	4181	15907	27.5	3300	62.3	0.78	MS150C	HJ12-1	HC12-1	Ø26-Ø304
V-215	35	16	8362	25391	32.6	3000	106	1.94	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-218	35	16	8362	25391	32.6	2700	122	3.09	MS200C	HJ15-1	HC15-1	Ø98-Ø450

型式 Model	A	B	C	D	H	J	K	L	M	N max	O max	O min	P max	P min	Q	R	S	T	U	W	X	Y
V-205	135	55	80	14	100	14	3-M8×60	-	7	30.5	16.75	6.25	9	-6	3	10	35	25	M12×1.75	28	32	62
V-206	165	74	140	20	104.78	14	6-M10×70	21	5	38.7	15.25	7.75	104.6	84.6	4	12	36	31	M16×2.0	34	39	73
V-208	210	85	170	25	133.35	20	6-M12×85	25	5	46.75	22.25	8.75	132	111	5	14	36	35	M20×2.5	38	41	95
V-210	254	89	220	30	171.45	18	6-M16×85	34	5	51.1	30.75	9.75	158	133	5	16	36	40	M20×2.5	45	46	110
V-212	304	106	220	30	171.45	23	6-M16×105	34	6	61	48.75	9.75	163	133	5	18	36	50	M20×2.5	50	54	130
V-215	381	114	300	43	235	29	6-M20×115	-	6	77.5	49.75	21.25	104	69	2	25.5	55	62	M30×3.5	60	63	165
V-218	450	114	300	43	235	29	6-M20×115	-	6	108	49.75	21.25	92	57	2	25.5	55	62	M30×3.5	60	63	165

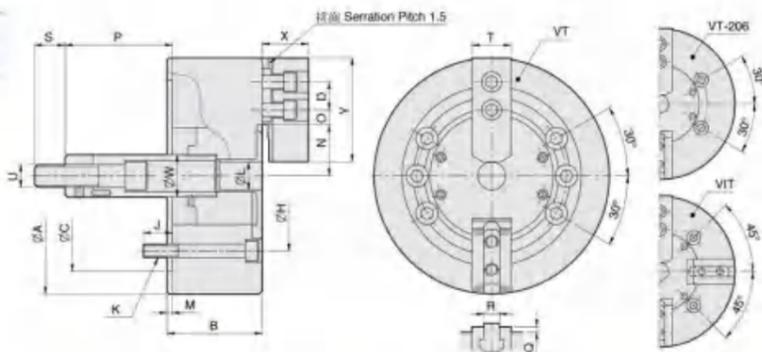
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## > VT&VIT SERIES

二爪四爪中實油壓夾頭  
(不含連接板)

2-JAW AND 4-JAW WEDGE TYPE NON THROUGH-HOLE POWER CHUCK (ADAPTER EXCLUDED)

- 適合特殊應用例：應用於三爪夾頭無法夾持之特殊狀工件，如長方形、棒形或凸緣。
- 可于V或VA系列互換。
- 基本尺寸規格同V型夾頭。
- 高性能同V型夾頭。
- Suitable for special applications: Used to hold special shape workpieces, such as square bar or flanges which is not possible clamping by 3 jaw chuck.
- Interchangeable with V or VA series.
- Basic dimensions are the same as V type.
- High performance as V type.



單位:mm

型式 Model	爪數 Jaws (mm)	拉桿行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke dia (mm)	最大牽引拉力 Max DB pull (Kgf)	最大夾持力 Max clamping force (Kgf)	最大使用油壓力 (Kg/cm <sup>2</sup> ) Max oil pressure	最高回轉速 max r.p.m	重量 Weight (kg)	慣性矩 kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
V-206	2	20	9.2	1224	3569	17.3	5200	12.3	0.045	MS105C	HJ06	HC06	Ø18-Ø165
V-208	2	21	9.7	1683	5098	16.3	4500	23.1	0.13	MS125C	HJ08	HC08	Ø26-Ø210
V-210	2	25	8.8	1988	7342	19.4	4000	35.1	0.29	MS125C	HJ10	HC10	Ø26-Ø254
V-212	2	30	10.5	2804	10605	18.4	3300	60.3	0.7	MS150C	HJ12-1	HC12-1	Ø26-Ø304
V-212	4	30	10.5	4181	15907	27.5	2800	64.3	0.77	MS150C	HJ12-1	HC12-1	Ø26-Ø304
V-215	2	35	16	5557	16927	21.7	3000	102.6	1.89	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-218	4	35	16	8362	25391	32.6	2300	127	3.21	MS200C	HJ15-1	HC15-1	Ø98-Ø450

型式 Model	A	B	C	D	H	J	K	L	M	N max	O max	Q min	P max	P min	Q R	S	T	U	W	X	Y	
V-206	165	74	140	20	104.78	14	4-M10×70	21	5	38.7	15.25	7.75	104.6	84.6	4	12	36	31	M16×2.0	34	39	73
V-208	210	85	170	25	133.35	20	6-M12×85	25	5	46.75	22.25	8.75	132	111	5	14	36	35	M20×2.5	38	41	95
V-210	254	89	220	30	171.45	18	6-M16×85	34	5	51.1	30.75	9.75	158	133	5	16	36	40	M20×2.5	45	46	110
V-212	304	106	220	30	171.45	23	6-M16×105	34	6	61	48.75	9.75	163	133	5	18	36	50	M20×2.5	50	54	130
V-212	304	106	220	30	171.45	23	6-M16×105	34	6	61	48.75	9.75	163	133	5	18	36	50	M30×3.5	60	54	130
V-215	381	114	300	43	235	29	6-M20×115	-	6	77.5	49.75	21.25	104	69	2	25.5	55	62	M30×3.5	60	63	165
V-218	450	114	300	43	235	29	6-M20×115	-	6	108	49.75	21.25	92	57	2	25.5	55	62	M30×3.5	60	63	165

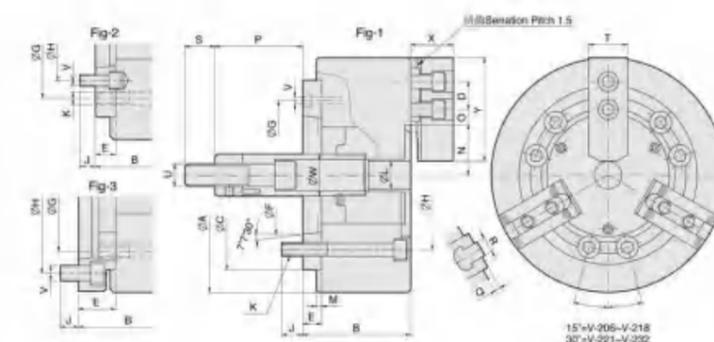
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## > VA SERIES

三爪中實油壓夾頭  
(包含連接板)

3-JAW WEDGE TYPE NON THROUGH-HOLE POWER CHUCK (ADAPTER INCLUDED)

- 主軸配合件可采用ASA或DIN以搭配機器主軸。
- Alternative spindle adaptors: ASA or DIN adaptors can be supplied as requested.



單位:mm

型式 Model	拉桿行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke dia (mm)	最大牽引拉力 Max DB pull (Kgf)	最大夾持力 Max clamping force (Kgf)	最大使用油壓力 (Kg/cm <sup>2</sup> ) Max oil pressure	最高回轉速 max r.p.m	重量 Weight (kg)	慣性矩 kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
V-206A4	20	9.2	1835	5353	26.5	5200	14.5	0.062	MS105C	HJ06	HC06	Ø18-Ø165
V-206A5	20	9.2	1835	5353	26.5	5200	13.9	0.056	MS105C	HJ06	HC06	Ø18-Ø165
V-206A6	20	9.2	1835	5353	26.5	5200	15.8	0.059	MS105C	HJ06	HC06	Ø18-Ø165
V-208A5	21	9.7	2549	7648	25.5	4500	26.8	0.154	MS125C	HJ08	HC08	Ø26-Ø210
V-208A6	21	9.7	2549	7648	25.5	4500	25.6	0.147	MS125C	HJ08	HC08	Ø26-Ø210
V-208A8	21	9.7	2549	7648	25.5	4500	30	0.172	MS125C	HJ08	HC08	Ø26-Ø210
V-210A6	25	8.8	2957	11013	28.6	4000	41.8	0.35	MS125C	HJ10	HC10	Ø26-Ø254
V-210A8	25	8.8	2957	11013	28.6	4000	39.6	0.33	MS125C	HJ10	HC10	Ø26-Ø254
V-210A11	25	8.8	2957	11013	28.6	4000	50	0.417	MS125C	HJ10	HC10	Ø26-Ø254
V-212A6	30	10.5	4181	15907	27.5	3300	67.6	0.76	MS150C	HJ12-1	HC12-1	Ø26-Ø304
V-212A8	30	10.5	4181	15907	27.5	3300	65.5	0.75	MS150C	HJ12-1	HC12-1	Ø26-Ø304
V-212A11	30	10.5	4181	15907	27.5	3300	75.9	0.888	MS150C	HJ12-1	HC12-1	Ø26-Ø304
V-215A8	35	16	8362	25391	32.6	3000	119	2.12	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-215A11	35	16	8362	25391	32.6	3000	113	2.05	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-215A15	35	16	8362	25391	32.6	3000	132	2.56	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-218A8	35	16	8362	25391	32.6	2700	136	3.28	MS200C	HJ15-1	HC15-1	Ø98-Ø450
V-218A11	35	16	8362	25391	32.6	2700	129	3.20	MS200C	HJ15-1	HC15-1	Ø98-Ø450
V-218A15	35	16	8362	25391	32.6	2700	148	3.71	MS200C	HJ15-1	HC15-1	Ø98-Ø450

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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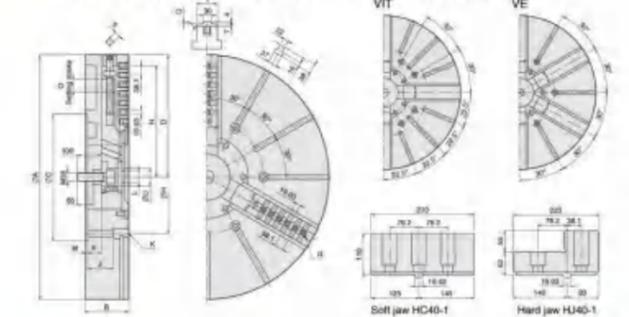
## >V(40"-79") SERIES

### 大型中實油壓夾頭產品系列 (不含連接板)



### LARGE WEDGE TYPE NON THROUGH-HOLE POWER CHUCK(ADAPTER EXCLUDED)

- 適用於超大型工件，內徑或外徑之夾持。
- 夾頭正面滑道處，加裝防護裝置，適合於立車上使用。
- 具有單動調整底爪行程功能，可夾持大型不規則工件。
- Chucking operations of very large components external or internal clamping.
- Suitable for vertical lathe, due to the front protection of internal clamping.
- Master jaw with manual radial setting function.



單位:mm

型式 Model	A	B	C (H6)	D	E	F	G	H	J	K	L	M	N max	O max	O min
V-206A4	165	89	140	20	20	63.513	104.78	82.55	16	6×M10	21	5	38.7	7.75	84.6
V-206A5	165	84	140	20	15	82.563	116	104.78	14	6×M10	21	5	38.7	7.75	89.6
V-206A6	165	104	140	20	35	106.375	104.78	133.35	16	6×M10	21	5	38.7	7.75	69.6
V-208A5	210	103	170	25	23	82.563	133.35	104.78	14	6×M12	25	5	46.75	8.75	109
V-208A6	210	97	170	25	17	106.375	150	133.35	18	6×M12	25	5	46.75	8.75	115
V-208A8	210	120	170	25	40	139.719	133.35	171.45	24	6×M12	25	5	46.75	8.75	92
V-210A6	254	109	220	30	25	106.375	171.45	133.35	18	6×M16	34	5	51.1	9.75	133
V-210A8	254	102	220	30	18	139.719	190	171.45	25	6×M16	34	5	51.1	9.75	140
V-210A11	254	134	220	30	50	196.869	171.45	235	28	6×M16	34	5	51.1	9.75	108
V-212A6	304	125	220	30	25	106.375	171.45	133.35	18	6×M16	34	6	61	9.75	138
V-212A8	304	118	220	30	18	139.719	190	171.45	25	6×M16	34	6	61	9.75	145
V-212A11	304	150	220	30	50	196.869	171.45	235	28	6×M16	34	6	61	9.75	113
V-215A8	381	141	300	43	33	139.719	235	171.45	24	6×M20	-	6	77.5	21.75	71
V-215A11	381	130	300	43	22	196.869	260	235	32	6×M20	-	6	77.5	21.75	82
V-215A15	381	165	300	43	57	285.775	235	330.2	29	6×M20	-	6	77.5	21.75	47
V-218A8	450	141	300	43	33	139.719	235	171.45	24	6×M20	-	6	108	21.75	59
V-218A11	450	130	300	43	22	196.869	260	235	32	6×M20	-	6	108	21.75	70
V-218A15	450	165	300	43	57	285.775	235	330.2	29	6×M20	-	6	108	21.75	35

型式 Model	P max	P min	Q	R	S	T	U max	V	W	X	Y	參考圖 Reference
V-206A4	84.6	64.6	4	12	36	31	M16×2.0	6-M10	34	39	73	Fig-2
V-206A5	89.6	69.6	4	12	36	31	M16×2.0	3-M6	34	39	73	Fig-1
V-206A6	69.6	49.6	4	12	36	31	M16×2.0	6-M12	34	39	73	Fig-3
V-208A5	109	88	5	14	36	35	M20×2.5	6-M10	38	41	95	Fig-2
V-208A6	115	94	5	14	36	35	M20×2.5	3-M6	38	41	95	Fig-1
V-208A8	92	71	5	14	36	35	M20×2.5	6-M16	38	41	95	Fig-3
V-210A6	133	108	5	16	36	40	M20×2.5	6-M12	45	46	110	Fig-2
V-210A8	140	115	5	16	36	40	M20×2.5	3-M8	45	46	110	Fig-1
V-210A11	108	83	5	16	36	40	M20×2.5	6-M20	45	46	110	Fig-3
V-212A6	138	108	5	18	36	50	M20×2.5	6-M12	50	54	130	Fig-2
V-212A8	145	115	5	18	36	50	M20×2.5	3-M8	50	54	130	Fig-1
V-212A11	113	83	5	18	36	50	M20×2.5	6-M20	50	54	130	Fig-3
V-215A8	71	36	2	25.5	55	62	M30×3.5	6-M16	60	63	165	Fig-2
V-215A11	82	47	2	25.5	55	62	M30×3.5	3-M10	60	63	165	Fig-1
V-215A15	47	12	2	25.5	55	62	M30×3.5	6-M24	60	63	165	Fig-3
V-218A8	59	24	2	25.5	55	62	M30×3.5	6-M16	60	63	165	Fig-2
V-218A11	70	35	2	25.5	55	62	M30×3.5	3-M10	60	63	165	Fig-1
V-218A15	35	0	2	25.5	55	62	M30×3.5	6-M24	60	63	165	Fig-3

型式 Model	爪數 Jaws (mm)	拉桿行程 Plunger stroke (mm)	半徑爪行程 (直徑) Jaw stroke dia (mm)	最大容許拉力 Max DB pull (Kgf)	最大夾持力 Max clamping force (Kgf)	最大使用油壓 力(Kgf/cm <sup>2</sup> ) Max oil pressure	最大回轉速 max r.p.m	重量 Weight (kg)	慣性矩 kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
40"V-240	3						630	645	82				
VIT-240	4	57	23+(30)	180	320	42.8	550	700	89	MS250C	HJ 40-1	HC 40-1	Ø285-Ø1005
VE-240	6						450	700	89				
50"V-250	3						500	890	168				
VIT-250	4	57	23+(30)	180	320	42.8	400	940	177	MS250C	HJ 40-1	HC 40-1	Ø270-Ø1250
VE-250	6						360	971	183				
63"V-263	3						400	1800	548				
VIT-263	4	60	24+(40)	200	360	46.9	300	1700	518	MS250C	HJ 40-1	HC 40-1	Ø390-Ø1600
VE-263	6						280	1800	548				
79"VE-279	6	60	24+(40)	200	360	46.9	230	2850	1350	MS250C	HJ 40-1	HC 40-1	Ø440-Ø2000

型式 Model	A	B	C	D max	H	J	K	L	M	N max	O	P min	P max	Q	R	S	T	U
40"V-240																		
VIT-240	1005	180	520	502	463.6	108	M24	M52×1.5	8	457	30	59	2	4	7-M24	19	85	72
VE-240																		
50"V-250																		
VIT-250	1250	180	520	623	463.6	108	M24	M52×1.5	8	563	30	59	2	4	10-M24	19	85	72
VE-250																		
63"V-263																		
VIT-263	1600	220	720	796	647.6	144	M30	M52×1.5	8	738	40	82	22	6	13-M24	22	110	72
VE-263																		
79"VE-279	2000	238	720	996	647.6	159	M30	M52×1.5	8	914	40	100	40	6	17-M24	22	110	72

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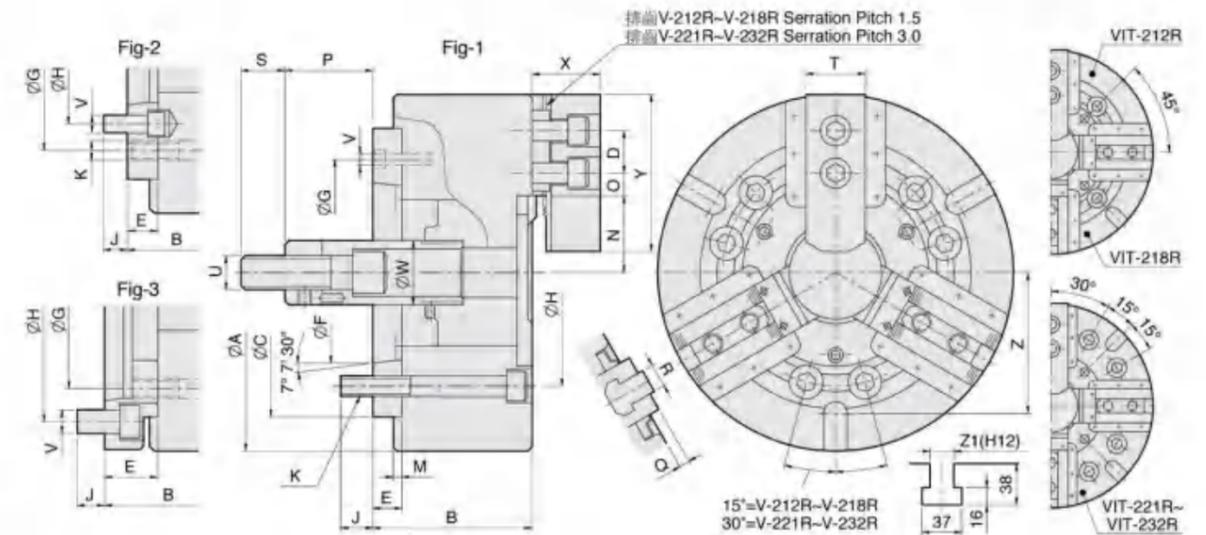
## >VRA SERIES

立車用中實油壓夾頭  
(包含連接板)

NON THROUGH-HOLE POWER CHUCK FOR  
VERTICAL LATHE (ADAPTER INCLUDED)



- 夾頭正面滑道處加裝防護裝置。
- 適用於立式車床使用。
- The front protection of slide way.
- Suitable for vertical lathe.



單位:mm

單位:mm

型式 Model	爪數 Jaws (mm)	拉桿行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB pull (Kgf)	最大夾持力 Max clamping force (Kgf)	最大使用油壓 力(Kg/cm <sup>2</sup> ) Max oil pressure	最高回轉速 max r.p.m	重量 Weight (kg)	慣性矩 Kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
V-212RA6	3	30	16	5302	14276	35.7	3000	67.7	0.774	MS150C	HJ12-1	HC12-1	Ø32-Ø304
V-212RA8	3	30	16	5302	14276	35.7	3000	65.6	0.764	MS150C	HJ12-1	HC12-1	Ø32-Ø304
V-212RA11	3	30	16	5302	14276	35.7	3000	74.1	0.902	MS150C	HJ12-1	HC12-1	Ø32-Ø304
V-215RA8	3	35	18.7	9585	25798	35.7	2800	120.4	2.146	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-215RA11	3	35	18.7	9585	25798	35.7	2800	113.4	2.016	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-215RA15	3	35	18.7	9585	25798	35.7	2800	133	2.572	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-218RA8	3	35	18.7	9585	25798	35.7	2300	144.5	3.507	MS200C	HJ15-1	HC15-1	Ø78-Ø450
V-218RA11	3	35	18.7	9585	25798	35.7	2300	137.5	3.43	MS200C	HJ15-1	HC15-1	Ø78-Ø450
V-218R15	3	35	18.7	9585	25798	35.7	2300	157.5	3.945	MS200C	HJ15-1	HC15-1	Ø78-Ø450
V-221RA8	3	35	16	9075	28450	33.7	1940	196	6.46	MS200C	HJ24-1	HC24-1	Ø65-Ø530
V-221R11	3	35	16	9075	28450	33.7	1940	190	6.35	MS200C	HJ24-1	HC24-1	Ø65-Ø530
V-221RA15	3	35	16	9075	28450	33.7	1940	184	6.28	MS200C	HJ24-1	HC24-1	Ø65-Ø530
V-224RA8	3	35	16	9075	28450	33.7	1760	240	10.54	MS200C	HJ24-1	HC24-1	Ø152-Ø610
V-224RA11	3	35	16	9075	28450	33.7	1760	233	10.44	MS200C	HJ24-1	HC24-1	Ø152-Ø610
V-224RA15	3	35	16	9075	28450	33.7	1760	227	10.36	MS200C	HJ24-1	HC24-1	Ø152-Ø610
V-232RA11(41)	3	35	18.7	9585	25798	35.7	1060	399	31.6	MS200C	HJ24-1	HC32-1	Ø100-Ø810
V-232RA15	3	35	18.7	9585	25798	35.7	1060	383	30.82	MS200C	HJ24-1	HC32-1	Ø100-Ø810
V-232RA20	3	35	18.7	9585	25798	35.7	1060	419	32.69	MS200C	HJ24-1	HC32-1	Ø100-Ø810
VIT-212RA8	4	30	16	5302	14276	35.7	2500	68	0.792	MS150C	HJ12-1	HC12-1	Ø45-Ø304
VIT-218RA11	4	35	18.7	9585	25798	35.7	2000	141.5	3.522	MS200C	HJ15-1	HC15-1	Ø78-Ø450
VIT-224RA11	4	35	16	9075	28450	33.7	1520	255	11.3	MS200C	HJ24-1	HC24-1	Ø152-Ø610
VIT224RA15	4	35	16	9075	28450	33.7	1520	240	11.02	MS200C	HJ24-1	HC24-1	Ø152-Ø610
VIT-232RA11	4	35	18.7	9585	25798	35.7	920	414	32.68	MS200C	HJ24-1	HC32-1	Ø100-Ø810
VIT-232RA15	4	35	18.7	9585	25798	35.7	920	399	32.4	MS200C	HJ24-1	HC32-1	Ø100-Ø810

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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型式 Model	A	B	C (H6)	D	E	F	G	H	J	K	M	N max	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	Y	Z	Z1 參考圖	
V-212RA6	304	125	220	30	25	106.375	171.45	133.35	18	6-M16	6	64	45.75	12.75	138	108	5.5	18	36	50	M20x25	6-M12	50	54.5	130	-	Fig2	
V-212RA8	304	118	220	30	18	139.719	190	171.45	24	6-M16	6	64	45.75	12.75	145	115	5.5	18	36	50	M20x25	3-M6	50	54.5	130	-	Fig1	
V-212RA11	304	150	220	30	50	196.869	171.45	235	28	6-M16	6	64	45.75	12.75	113	83	5.5	18	36	50	M20x25	6-M12	50	54.5	130	-	Fig3	
V-215RA8	381	141	300	43	33	139.719	235	171.45	24	6-M20	6	76	49.75	24.25	71	36	5.5	25.5	55	62	M30x35	6-M16	60	66.5	165	-	Fig2	
V-215RA11	381	130	300	43	22	196.869	260	235	32	6-M20	6	76	49.75	24.25	82	47	5.5	25.5	55	62	M30x35	3-M10	60	66.5	165	-	Fig1	
V-215RA15	381	165	300	43	57	285.775	235	330.2	29	6-M20	6	76	49.75	24.25	47	12	5.5	25.5	55	62	M30x35	6-M24	60	66.5	165	-	Fig3	
V-218RA8	450	141	300	43	33	139.719	235	171.45	24	6-M20	6	92	70.75	24.25	59	24	5.5	25.5	55	62	M30x35	6-M16	60	66.5	165	158	22	Fig2
V-218RA11	450	130	300	43	22	196.869	260	235	32	6-M20	6	92	70.75	24.25	70	35	5.5	25.5	55	62	M30x35	3-M10	60	66.5	165	158	22	Fig1
V-218R15	450	165	300	43	57	285.775	235	330.2	29	6-M20	6	92	70.75	24.25	35	0	5.5	25.5	55	62	M30x35	6-M24	60	66.5	165	158	22	Fig3
V-221RA8	530	154	380	60	33	139.719	330.2	171.45	24	6-M24	6	87	93.5	27.5	64	29	9	25	55	64	M30x35	9-M16	60	77	180	155	22	Fig2
V-221RA11	530	148	380	60	27	196.869	330.2	235	30	6-M24	6	87	93.5	27.5	70	35	9	25	55	64	M30x35	6-M20	60	77	180	155	22	Fig2
V-221RA15	530	148	380	60	27	285.775	330.2	330.2	33	6-M24	6	87	93.5	27.5	70	35	9	25	55	64	M30x35	3-M12	60	77	180	155	22	Fig1
V-224RA8	610	154	380	60	33	139.719	330.2	171.45	24	6-M24	6	126.5	93.5	27.5	64	29	9	25	55	64	M30x35	9-M16	60	77	180	165.1	22	Fig2
V-224RA11	610	148	380	60	27	196.869	330.2	235	30	6-M24	6	126.5	93.5	27.5	70	35	9	25	55	64	M30x35	6-M20	60	77	180	165.1	22	Fig2
V-224RA15	610	148	380	60	27	285.775	330.2	330.2	33	6-M24	6	126.5	93.5	27.5	70	35	9	25	55	64	M30x35	3-M12	60	77	180	165.1	22	Fig1
V-232RA11(41)	810	170	380	80	41	196.869	330.2	235	30	6-M24	6	104.8	196.5	25.5	47	12	5	25	56	74	M30x35	6-M20	60	93	210	165.1	22	Fig2
V-232RA15	810	156	380	80	27	285.775	330.2	330.2	33	6-M24	6	104.8	196.5	25.5	47	12	5	25	55	74	M30x35	3-M12	60	93	210	165.1	22	Fig1
V-232RA20	810	187	520	80	58	412.775	330.2	463.6	35	6-M24	6	104.8	196.5	25.5	16	-19	5	25	55	74	M30x35	6-M24	60	93	210	165.1	22	Fig3
VIT-212RA8	304	118	220	30	18	139.719	190	171.45	24	4-M16	6	64	45.75	12.75	145	115	5.5	18	36	50	M20x25	4-M6	50	54.5	130	-	Fig1	
VIT-218RA11	450	130	300	43	22	196.869	260	235	32	4-M20	6	92	70.75	24.25	70	35	5.5	25.5	55	62	M30x35	4-M10	60	66.5	165	158	22	Fig1
VIT-224RA11	610	162	380	60	41	196.869	330.2	235	30	8-M24	6	126.5	93.5	27.5	70	35	9	25	56	64	M30x35	6-M20	60	77	180	165.1	22	Fig2
VIT224RA15	610	148	380	60	27	285.775	330.2	330.2	33	8-M24	6	126.5	93.5	27.5	70	35	9	25	55	64	M30x35	4-M12	60	77	180	165.1	22	Fig1
VIT-232RA11	810	170	380	80	41	196.869	330.2	235	30	8-M24	6	104.8	196.5	25.5	47	12	5	25	56	74	M30x35	6-M20	60	93	210	200	22	Fig2
VIT-232RA15	810	156	380	80	27	285.775	330.2	330.2	33	8-M24	6	104.8	196.5	25.5	47	12	5	25	55	74	M30x35	4-M12	60	93	210	200	22	Fig1

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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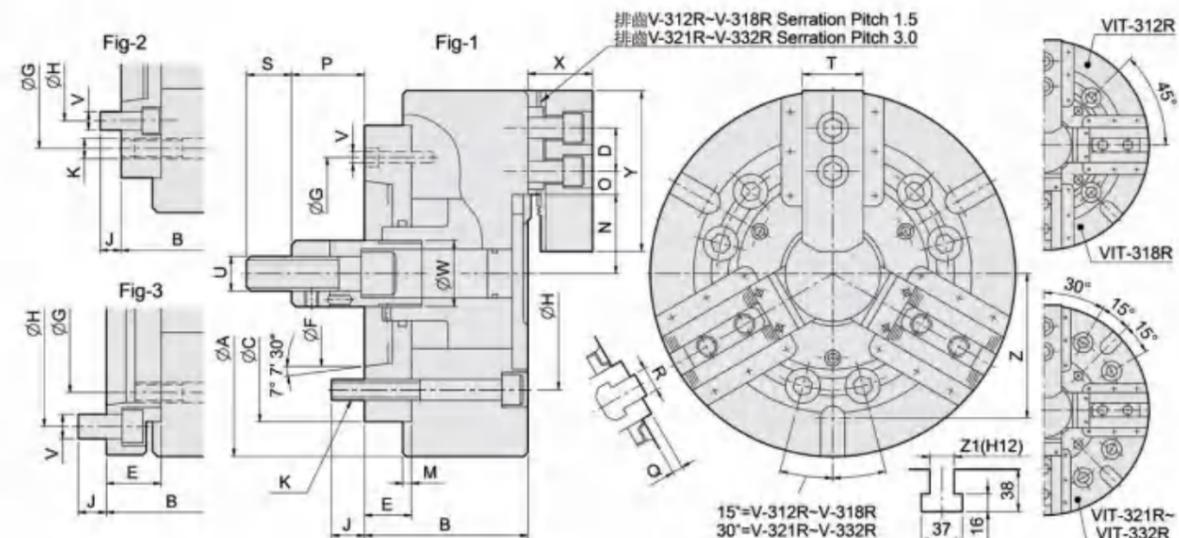
## >V-300RA SERIES

立車用中實油壓夾頭  
(包含連接板)

NON THROUGH-HOLE POWER CHUCK FOR  
VERTICAL LATHE (ADAPTER INCLUDED)



- 適用於立式車床使用。
- 防切削及夾頭連接防水設計。
- Suitable for use in vertical lathes.
- Special prevent swarf chip and chuck adapter waterproof design.



單位:mm

型式 Model	爪數 Jaws (mm)	拉桿行程 Plunger stroke (mm)	爪行程(寬度) Jaw stroke dia. (mm)	最大容許拉力 Max DB pull (Kgf)	最大夾持力 Max clamping force (Kgf)	最大使用油壓 力(Kgf/cm <sup>2</sup> ) Max oil pressure	最高轉速 max r.p.m	重量 Weight (kg)	慣性矩 kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
V-312RA8	3	30	16	5302	14276	35.7	3000	71	0.773	MS150C	HJ12-1	HC12-1	Ø32-Ø304
V-315RA8	3	35	18.7	9585	25798	35.7	2800	131	2.24	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-315RA11	3	35	18.7	9585	25798	35.7	2800	128	2.23	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-315RA15	3	35	18.7	9585	25798	35.7	2800	140	2.64	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-318RA8	3	35	18.7	9585	25798	35.7	2300	157	3.68	MS200C	HJ15-1	HC15-1	Ø78-Ø450
V-318RA11	3	35	18.7	9585	25798	35.7	2300	155	3.66	MS200C	HJ15-1	HC15-1	Ø78-Ø450
V-318RA15	3	35	18.7	9585	25798	35.7	2300	167	4.07	MS200C	HJ15-1	HC15-1	Ø78-Ø450
V-321RA11	3	35	16	9075	28450	33.7	1940	212	6.73	MS200C	HJ24-1	HC24-1	Ø65-Ø530
V-321RA15	3	35	16	9075	28450	33.7	1940	210	6.75	MS200C	HJ24-1	HC24-1	Ø65-Ø530
V-324RA11	3	35	16	9075	28450	33.7	1760	257	10.83	MS200C	HJ24-1	HC24-1	Ø152-Ø610
V-324RA15	3	35	16	9075	28450	33.7	1760	255	10.85	MS200C	HJ24-1	HC24-1	Ø152-Ø610
V-332RA11	3	35	18.7	9585	25798	35.7	1060	399	30.17	MS200C	HJ24-1	HC32-1	Ø100-Ø810
V-332RA15	3	35	18.7	9585	25798	35.7	1060	397	30.19	MS200C	HJ24-1	HC32-1	Ø100-Ø810
VIT-312RA8	4	30	16	5302	14276	35.7	2500	78	0.78	MS150C	HJ12-1	HC12-1	Ø45-Ø304
VIT-318RA11	4	35	18.7	9585	25798	35.7	2000	158	3.74	MS200C	HJ15-1	HC15-1	Ø78-Ø450
VIT-324RA11	4	35	16	9075	28450	33.7	1520	268	11.47	MS200C	HJ24-1	HC24-1	Ø152-Ø610
VIT-324RA15	4	35	16	9075	28450	33.7	1520	267	11.49	MS200C	HJ24-1	HC24-1	Ø152-Ø610
VIT-332RA11	4	35	18.7	9585	25798	35.7	920	427	32.85	MS200C	HJ24-1	HC32-1	Ø100-Ø810
VIT-332RA15	4	35	18.7	9585	25798	35.7	920	425	32.87	MS200C	HJ24-1	HC32-1	Ø100-Ø810

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
非標需求可訂做 Non-standard requirements can be made

單位:mm

型式 Model	A	B	C (H)	D	E	F	G	H	J	K	M	N max	O max	O min	P max	P min	Q	R	S	T	U	V	W	X	Y	Z	Z1	參考圖
V-312RA8	304	138	220	30	38	139.719	190	171.45	24	6-M16	6	64	45.75	12.75	145	115	5.5	18	36	50	M20x25	3-M8	50	54.5	130	-	-	Fig1
V-315RA8	381	160	300	43	52	139.719	235	171.45	24	6-M20	6	78	49.75	24.25	82	47	5.5	25.5	55	62	M30x35	6-M16	60	66.5	165	-	-	Fig2
V-315RA11	381	160	300	43	52	196.869	260	235	32	6-M20	6	78	49.75	24.25	82	47	5.5	25.5	55	62	M30x35	3-M10	60	66.5	165	-	-	Fig1
V-315RA15	381	165	300	43	57	285.775	235	330.2	29	6-M20	6	78	49.75	24.25	77	42	5.5	25.5	55	62	M30x35	6-M24	60	66.5	165	-	-	Fig3
V-318RA8	450	160	300	43	52	139.719	235	171.45	24	6-M20	6	92	70.75	24.25	82	47	5.5	25.5	55	62	M30x35	6-M16	60	66.5	165	158	22	Fig2
V-318RA11	450	160	300	43	52	196.869	260	235	32	6-M20	6	92	70.75	24.25	82	47	5.5	25.5	55	62	M30x35	3-M10	60	66.5	165	158	22	Fig1
V-318RA15	450	165	300	43	57	285.775	235	330.2	29	6-M20	6	92	70.75	24.25	77	42	5.5	25.5	55	62	M30x35	6-M24	60	66.5	165	158	22	Fig3
V-321RA11	530	173	380	60	52	196.869	330.2	235	30	6-M24	6	87	93.5	27.5	82	47	9	25	55	64	M30x35	6-M20	60	77	180	155	22	Fig2
V-321RA15	530	178	380	60	57	285.775	330.2	330.2	33	6-M24	6	87	93.5	27.5	77	42	9	25	55	64	M30x35	3-M12	60	77	180	155	22	Fig1
V-324RA11	610	173	380	60	52	196.869	330.2	235	30	6-M24	6	126.5	93.5	27.5	82	47	9	25	55	64	M30x35	6-M20	60	77	180	165.1	22	Fig2
V-324RA15	610	178	380	60	57	285.775	330.2	330.2	33	6-M24	6	126.5	93.5	27.5	77	42	9	25	55	64	M30x35	3-M12	60	77	180	165.1	22	Fig1
V-332RA11	810	181	380	80	52	196.869	330.2	235	30	6-M24	6	104.8	196.5	25.5	82	47	5	25	55	74	M30x35	6-M20	60	93	210	165.1	22	Fig2
V-332RA15	810	186	380	80	57	285.775	330.2	330.2	33	6-M24	6	104.8	196.5	25.5	77	42	5	25	55	74	M30x35	3-M12	60	93	210	165.1	22	Fig1
VIT-312RA8	304	138	220	30	38	139.719	190	171.45	24	4-M16	6	64	45.75	12.75	145	115	5.5	18	36	50	M20x25	4-M8	50	54.5	130	-	-	Fig1
VIT-318RA11	450	160	300	43	52	196.869	260	235	32	4-M20	6	92	70.75	24.25	82	47	5.5	25.5	55	62	M30x35	4-M10	60	66.5	165	158	22	Fig1
VIT-324RA11	610	173	380	60	52	196.869	330.2	235	30	8-M24	6	126.5	93.5	27.5	82	47	9	25	55	64	M30x35	6-M20	60	77	180	165.1	22	Fig2
VIT-324RA15	610	178	380	60	57	285.775	330.2	330.2	33	8-M24	6	126.5	93.5	27.5	77	42	9	25	55	64	M30x35	4-M12	60	77	180	165.1	22	Fig1
VIT-332RA11	810	181	380	80	52	196.869	330.2	235	30	8-M24	6	104.8	196.5	25.5	82	47	5	25	55	74	M30x35	6-M20	60	93	210	200	22	Fig2
VIT-332RA15	810	186	380	80	57	285.775	330.2	330.2	33	8-M24	6	104.8	196.5	25.5	77	42	5	25	55	74	M30x35	4-M12	60	93	210	200	22	Fig1

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
非標需求可訂做 Non-standard requirements can be made

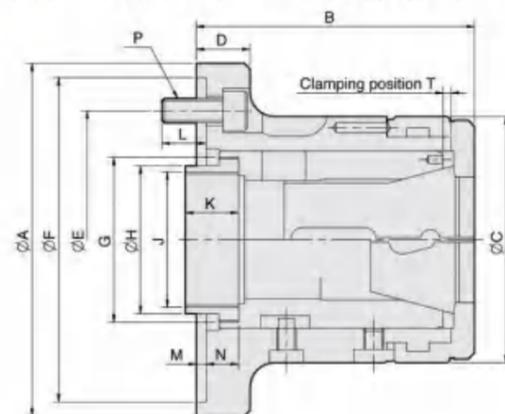
## >CR SERIES

### 筒夾夾頭



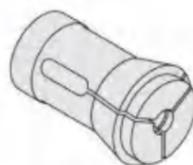
### COLLET CHUCK FOR CYLINDRICAL CENTER MOUNT

- 筒夾夾頭可快速拆卸止檔蓋，適用於NC/CNC車床加工棒材。
- 棒材能經由夾頭通孔進行送料作業。
- 可依工作形狀及尺寸來選擇適合筒夾。
- Collet chucks with bayonet catch are mainly used for chucking bar work on NC / CNC lathes.
- The bar can be fed in through the chuck.
- Profiles can also be chucked with the appropriate collets.



單位:mm

筒夾簡圖



- Spring Collet -



- Multi-Bore Collet -

夾持範圍 Chuck	MULTIBORE	SPRING COLLET
NO.	Cat.No. ○ ○ □	Cat.No. ○ ○ □
CR42	M-673 42 36 30	173E/4728 42 36 30
CR52	- - - -	177E 52 45 36
CR60	M-677 60 52 42	185E/4291 60 52 42
CR80	J-660 80 69 56	193E/H-47 80 69 56

型式 Model	適合連接板 Matching Adapter	容許棒材直徑 Bar Capacity (mm)	套筒行程 Sleeve stroke (mm)	最大容許推力 Maximum allowable thrust kN (kgf)	最大夾持力 Maximum holding force kN (kgf)	最高轉速 Maximum speed (r.p.m)	重量 weight (kg)
CR42-140	140	42	7	25(2549)	55(5608)	6000	6.2
CR52-170	170	52	7	30(3059)	65(6628)	5000	12.5
CR60-170	170	60	7	30(3059)	65(6628)	5000	11.5
CR60-220	220	60	7	30(3059)	65(6628)	5000	15.5
CR80-220	220	80	7	35(3568)	73(7443)	4000	19.5

型式 Model	A	B	C	D	E	F (H6)	G	H	J max	K	L	M	N	P	T
CR42-140	155	114	100	23	104.78	140	M66 x P1.5	60	M55 x P2.0	25	18	6	11.9	3-M10	3.1
CR52-170	185	138	130	30	133.35	170	M90 x P1.5	66.7	M60 x P2.0	30	18	6	17.9	3-M12	3.1
CR60-170	185	139	130	30	133.35	170	M90 x P1.5	79.6	M74 x P2.0	25	18	6	17.9	6-M12	3.1
CR60-220	235	141	130	32	171.45	220	M90 x P1.5	79.6	M74 x P2.0	25	20	6	19.9	6-M16	3.1
CR80-220	235	167	156	32	171.45	220	M114 x P2.0	99	M90 x P2.0	27.5	20	6	23.4	6-M16	6.1

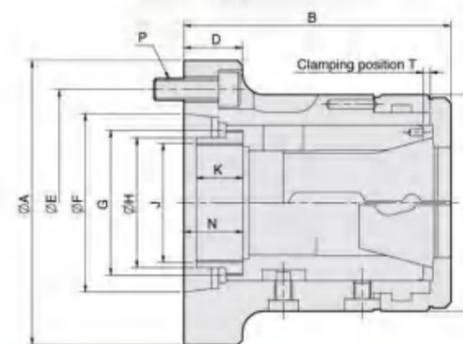
## >CRA SERIES

### 筒夾夾頭

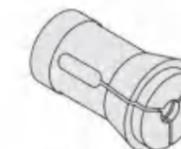


### COLLET CHUCK FOR SHORT TAPER MOUNT

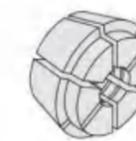
- 筒夾夾頭可快速拆卸止檔蓋，適用於NC/CNC車床加工棒材。
- 棒材能經由夾頭通孔進行送料作業。
- 可依工作形狀及尺寸來選擇適合筒夾。
- Collet chucks with bayonet catch are mainly used for chucking bar work on NC / CNC lathes.
- The bar can be fed in through the chuck.
- Profiles can also be chucked with the appropriate collets.



筒夾簡圖



- Spring Collet -



- Multi-Bore Collet -

單位:mm

型式 Model	適合主軸 Matching Spindle	容許棒材直徑 Bar Capacity (mm)	套筒行程 Sleeve stroke (mm)	最大容許推力 Maximum allowable thrust kN (kgf)	最大夾持力 Maximum holding force kN (kgf)	最高轉速 Maximum speed (r.p.m)	重量 weight (kg)
CR26A4	A2-4	26	5	20(2039)	44(4486)	7000	4.5
CR30A4	A2-4	30	5	20(2039)	44(4486)	7000	4.1
CR42A5	A2-5	42	7	25(2549)	55(5608)	6000	6.2
CR42A6	A2-6	42	7	25(2549)	55(5608)	6000	8.2
CR52A6	A2-6	52	7	30(3059)	65(6628)	5000	12.2
CR60A6	A2-6	60	7	30(3059)	65(6628)	5000	13
CR65A6	A2-6	67	7	30(3059)	65(6628)	5000	10.6
CR80A8	A2-8	80	7	35(3568)	73(7443)	4000	21

型式 Model	A	B	C	D	E	F	G	H	J max	K	L	N	P	T
CR26A4	112	103.5	85	30	82.55	63.513	M50 x P1.5	45	M40 x P1.5	15	22.2	22.2	3-M10	2.3
CR30A4	112	103.5	85	30	82.55	63.513	M50 x P1.5	45	M40 x P1.5	15	22.2	22.2	3-M10	2.3
CR42A5	135	127	100	27	104.78	82.563	M66 x P1.5	60	M55 x P2.0	25	30.9	30.9	4-M10	3.1
CR42A6	170	127	100	32	133.35	106.375	M66 x P1.5	66	M60 x P2.0	22	30.9	30.9	4-M12	3.1
CR52A6	170	144	130	27	133.35	106.375	M90 x P1.5	66.7	M60 x P2.0	30	29.9	29.9	4-M12	3.1
CR60A6	170	145	130	27	133.35	106.375	M90 x P1.5	79.6	M74 x P2.0	25	29.9	29.9	4-M12	3.1
CR65A6	170	135	136	27	133.35	106.375	M95 x P1.5	81	M75 x P2.0	20	29.9	29.9	4-M12	3.1
CR80A8	220	170	156	35	171.45	139.719	M114 x P2.0	99	M90 x P2.0	27.5	32.4	32.4	6-M16	6.1

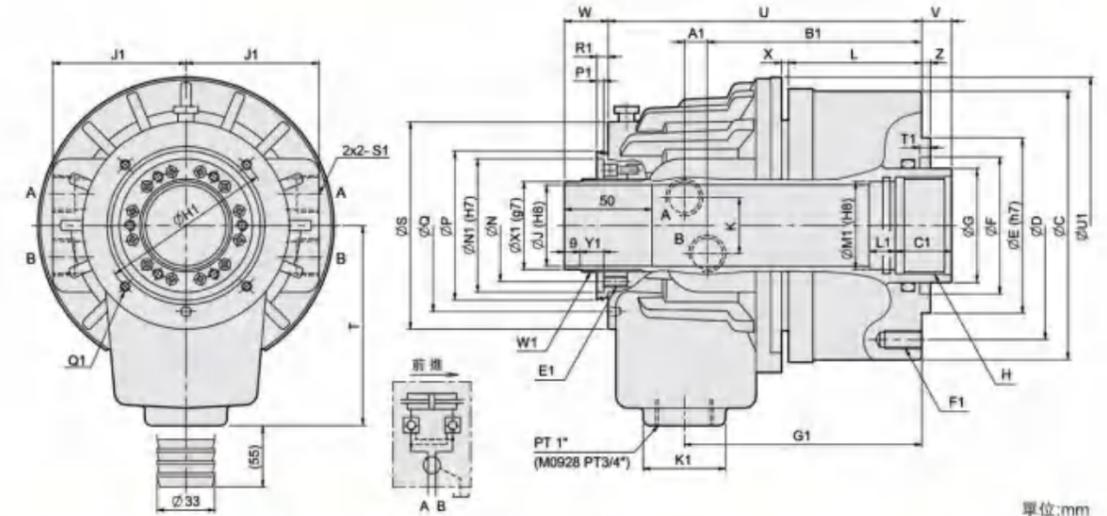
## >M SERIES

### 高速中空回轉油壓缸



### HIGH SPEED THROUGH-HOLE ROTARY HYDRAULIC CYLINDER

- 小型輕量：比起傳統的制品，實現小型(MAX 95mm短縮)，輕量(MAX 4.5kg減輕化)，高速回轉時的性能更穩定、更減輕機械的負擔。
- 更大的貫通孔：比起以往的制品約有提高20%的貫通孔，可使機械的能力充分的活用。
- 安全構造：藉止回閥的內藏保持推力的構造。
- Compact and light weight :Comparing with the regular product, it is compact (reduced to MAX 95mm) and lighter (weighted MAX 4.5kg).It's more stable to reduce the burden of the machinery at high speed turning.
- The largest bore : Comparing with the regular product, it has about 20% larger bore diameter for utilizing the capacity of machinery.
- The safety structure : It can retain the gripping force by check valve.



單位:mm

單位:mm

型式 Model	活塞直徑 Piston Dia. (mm)	活塞面積(cm²) Piston Area Push Side/Pull Side	最大拉杆出力(kN/kg) Max. Draw Bar Force Push Side/Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 Max. Operating Pressure Mpa(kg/cm²)	最高轉速 Max. Speed (r.p.m)	慣性矩 Moment Of Inertia I (kg.m²)	重量 Weight (kg)	總流量 Total Leakage L/min
M0926A	90	53.2/48.3	19.9(2029)/18(1835)	10	4.0(40.8)	8000	0.006	5.7	3.0
M0928A	90	53.2/48.3	19.9(2029)/18(1835)	10	4.0(40.8)	8000	0.006	5.5	3.0
M1036	105	71/68.5	26(2651)/25(2549)	15	4.0(40.8)	8000	0.011	8.6	3.0
M1038	105	71/66	26(2651)/24.5(2498)	15	4.0(40.8)	8000	0.011	8.5	3.0
M1236	125	100/89	38(3875)/33(3365)	15	4.0(40.8)	7000	0.019	13	3.0
M1246	125	100/89	38(3875)/33(3365)	15	4.0(40.8)	7000	0.019	12	3.0
M1546	155	161/154	60(6118)/57.8(5894)	22	4.0(40.8)	6200	0.056	18	3.9
M1552	155	161/150	60(6118)/56(5710)	22	4.0(40.8)	6200	0.052	16.8	3.9
M1768	175	184/183	69.3(7067)/69(7036)	25	4.0(40.8)	4700	0.096	27.5	4.2
M1870	180	198/183	74(7546)/69(7036)	25	4.0(40.8)	4700	0.095	26.5	4.2
M1875	180	198/183	74(7546)/69(7036)	25	4.0(40.8)	4700	0.095	26	4.2
M1878	180	198/183	74(7546)/69(7036)	25	4.0(40.8)	4700	0.095	25.5	4.2
M2078	205	262/234	98(9993)/88(8973)	23	4.0(40.8)	3800	0.15	36.5	4.5
M2085	205	252/234	94(9585)/88(8973)	30	4.0(40.8)	3800	0.15	37.5	4.5
M2091	205	252/234	94(9585)/88(8973)	30	4.0(40.8)	3800	0.15	37	4.5
M2511S	250	348/336	124(12644)/120(12236)	23	4.0(40.8)	2800	0.41	53	7.0

● 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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型式 Model	A1	B1	C1	E1	F1	G1	H1	J1	K1	L1	M1	N1	P1	Q1	R1	S1	T1	U1	W1	X1	Y1
M0926A	9	108	25	8-M5×10	6-M8×10	110	76	58	44	15	30	53	4	4-M4×7	5	PT1/4"	6	116	M34×1.5	32	15
M0928A	9	108	25	8-M5×10	6-M8×10	110	76	58	44	15	34	53	4	4-M4×7	5	PT1/4"	6	116	M34×1.5	32	15
M1036	11	120.5	25	6-M5×10	6-M10×17	126	88	68	53	15	38	64	4	6-M5×12	5	PT3/8"	6	136	M44×1.5	42	14
M1038	11	120.5	25	6-M5×10	6-M10×17	126	88	68	53	15	40	64	4	6-M5×12	5	PT3/8"	6	136	M44×1.5	42	14
M1236	11	126.5	25	6-M6×12	12-M10×20	135	98	76	47	15	38	76	4	4-M5×12	6	PT1/2"	6	169	M52×1.5	50	14
M1246	11	126.5	30	6-M6×12	12-M10×20	135	98	76	47	15	50	76	4	4-M5×12	6	PT1/2"	6	169	M52×1.5	50	14
M1546	11	133.5	30	6-M6×12	12-M10×20	145	110	86	47	15	50	85	4	4-M6×12	7	PT1/2"	6	188	M58×1.5	56	13.5
M1552	11	133.5	30	6-M6×12	12-M10×20	145	110	86	47	15	55	85	4	4-M6×12	7	PT1/2"	6	188	M58×1.5	56	13.5
M1768	17.5	152.5	35	6-M6×12	12-M10×20	166	155	101	47	15	70	108	4	4-M6×12	7.5	PT1/2"	6	215	M84×2	81	12.5
M1870	17.5	152.5	35	6-M6×12	12-M10×20	166	155	101	47	15	75	108	4	4-M6×12	7.5	PT1/2"	6	215	M84×2	81	12.5
M1875	17.5	152.5	35	6-M6×12	12-M10×20	166	155	101	47	15	80	108	4	4-M6×12	7.5	PT1/2"	6	215	M84×2	81	12.5
M1878	17.5	152.5	35	6-M6×12	12-M10×20	166	155	101	47	20	82	108	4	4-M6×12	7.5	PT1/2"	6	215	M84×2	81	12.5
M2078	21	166.5	35	6-M6×12	12-M12×24	182	165	110	47	20	84	120	4	4-M6×12	7	PT1/2"	6	240	M99×2	96	20
M2085	21	166.5	35	6-M6×12	12-M12×24	182	165	110	47	20	89	120	4	4-M6×12	7	PT1/2"	6	240	M99×2	96	13
M2091	21	166.5	35	6-M6×12	12-M12×24	182	165	110	47	15	95	120	4	4-M6×12	7	PT1/2"	6	240	M99×2	96	13
M2511S	21	169.5	45	6-M6×12	12-M16×32	192	206	132	55	20	123	160	5	4-M6×12	7	PT1/2"	6	294	-	134.6	-

型式 Model	C	D	E	F	G	H	J	K	L	N	P	Q	S	T	U	V max	V min	W max	W min	X	Z
M0926A	120	100	80	65	44	M34×1.5	26	25	63	44	59	76	90	105	151	14	4	35	25	3	5
M0928A	120	100	80	65	44	M38×1.5	28	25	63	44	59	76	90	105	151	14	4	35	25	3	5
M1036	136	115	100	65	48	M42×1.5	36	32	71	55	73	88	104	115	174.5	15	0	39	24	2.5	5
M1038	136	115	100	65	50	M44×1.5	38	32	71	55	73	88	104	115	174.5	15	0	39	24	2.5	5
M1236	155	130	100	80	65	M42×1.5	36	36	76	64	85	98	118	114	179	15	0	40	25	4	5
M1246	155	130	100	80	65	M55×2	46	36	76	64	85	98	118	114	179	15	0	40	25	4	5
M1546	190	170	130	85	65	M55×2	46	36	84	73	96	114	137	130	190.5	22	0	47.5	25.5	3.5	5
M1552	190	170	130	85	70	M60×2	52	36	84	73	96	114	137	130	190.5	22	0	47.5	25.5	3.5	5
M1768	215	190	160	120	85	M75×2	68	36	95	98	121	140	165	159	225	25	0	50	25	3	5
M1870	215	190	160	120	95	M78×2	70	36	95	98	121	140	165	159	225	25	0	50	25	3	5
M1875	215	190	160	120	95	M85×2	75	36	95	98	121	140	165	159	225	25	0	50	25	3	5
M1878	215	190	160	120	95	M87×2	78	36	95	98	121	140	165	159	225	25	0	50	25	3	5
M2078	240	215	180	140	110	M90×2	78	36	104	108	138	158	182	177	248	23	0	55	32	3	5
M2085	240	215	180	140	110	M93×2	85	36	104	108	138	158	182	177	248	30	0	55	25	3	5
M2091	240	215	180	140	110	M100×2	91	36	104	108	138	158	182	177	248	30	0	55	25	3	5
M2511S	310	275	230	166	140	M130×2	17.5	36	101	148	178	190	232	215	258	24	1	38	15	3	6

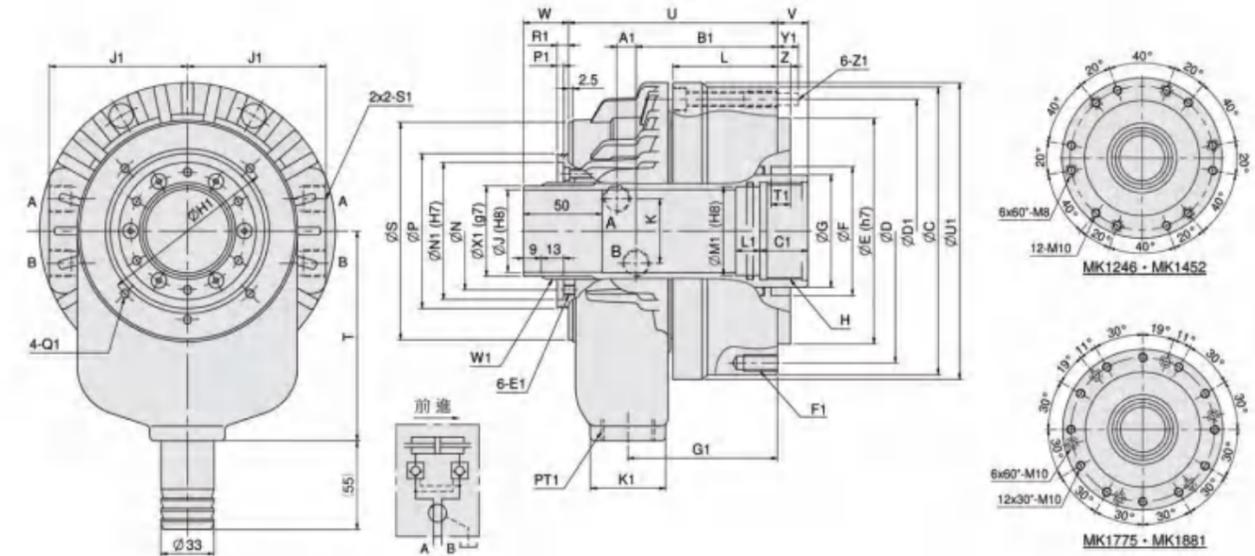
## >MK SERIES

### 超高速薄型中空回轉油壓缸

### SUPER HIGH SPEED THROUGH-HOLE COMPACT ROTARY HYDRAULIC CYLINDER



- 小型輕量：長度縮短30%，高速旋轉時的性能更穩定，減輕主軸的負載。
- 安全構造：內附逆止閥機構，確保異常斷電時，壓力立即保持。
- 新形式，安裝時可由後方以螺絲鎖鎖。
- 此型號禁止敲擊油缸本體，以免發生卡頓。
- The compact hydraulic cylinder which is shorten the length about 30% and light weight can reduce the spindle loading while running in high speed.
- Built-in check valve in safety auto lock and pressure relief valve in case of power failure occurs.
- New model developed for rear locking installation.
- Warning: Beating the cylinder body is forbidden, in case the cylinder gets stuck.



單位:mm

型式 Model	A1	B1	C1	E1	F1	G1	H1	J1	K1	L1	M1	N1	P1	Q1	R1	S1	T1	U1	W1	X1	Y1	Z1
MK1246	8.5	79.5	25	M6×10	12-M10×20	84	98	76	47	15	50	76	4	M5×6	9	PT3/8	12	165	M52×1.5	50	15	M8
MK1246F	8.5	89.5	30	M6×10	6-M10×20	94	98	76	47	15	50	76	4	M5×6	9	PT3/8	8	165	M52×1.5	50	15	M8
MK1452	9	88	30	M6×12	12-M10×20	93	110	86	47	15	55	85	4	M6×6	16	PT3/8	12	184	M58×1.5	56	12	M8
MK1452F	9	95	30	M6×12	6-M10×20	100	110	86	47	15	55	85	4	M6×6	16	PT3/8	8	184	M58×1.5	56	15	M8
MK1768	17.5	99	30	M6×12	12-M10×20	110	155	100	47	15	70	108	4	M6×10	7	PT1/2	12	216	M84×2.0	81	18	M10
MK1775	17.5	99	30	M6×12	12-M10×20	110	155	100	47	15	80	108	4	M6×10	7	PT1/2	12	216	M84×2.0	81	18	M10
MK1778	17.5	99	30	M6×12	12-M10×20	110	155	100	47	15	82	108	4	M6×10	7	PT1/2	12	216	M84×2.0	81	18	M10
MK1881	17	106	35	M6×12	12-M10×20	115	166	105	47	15	85	113	4	M6×10	16.5	PT1/2	12	226	M89×2.0	86	19	M10

單位:mm

型式 Model	活塞直徑 Piston Dia. (mm)	活塞面積 (cm²) 推側/拉側 Piston Area Push Side/Pull Side	最大拉出力(kN)推側/拉側 Max Draw Bar Force Push Side/Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 Max.Operating Pressure Mpa(kgf/cm²)	最高轉速 Max.Speed (r.p.m)	慣性矩 Moment Of Inertia I (kg.m²)	重量 Weight (kg)	總流量 Total Leakage L/min
MK1246	128	102.6/91.4	43.6(4466)/38.9(3967)	16	4.5(45.9)	8000	0.017	8.6	3.1
MK1246F	128	102.6/91.4	43.6(4466)/38.9(3967)	16	4.5(45.9)	8000	0.018	9.2	3.1
MK1452	145	133/122.6	56.5(5761)/52.1(5313)	22	4.5(45.9)	6500	0.028	12	3.9
MK1452F	145	133/122.6	56.5(5761)/52.1(5313)	22	4.5(45.9)	6500	0.029	12.5	3.9
MK1768	170	166/152	70.7(7209)/64.7(6597)	25	4.5(45.9)	5500	0.065	19.4	4.5
MK1775	170	166/152	70.7(7209)/64.7(6597)	25	4.5(45.9)	5500	0.060	17.8	4.5
MK1778	170	166/152	70.7(7209)/64.7(6597)	25	4.5(45.9)	5500	0.059	17.4	4.5
NK1881	180	187/171.9	79.5(8107)/73.1(7454)	25	4.5(45.9)	4800	0.087	24	4.5

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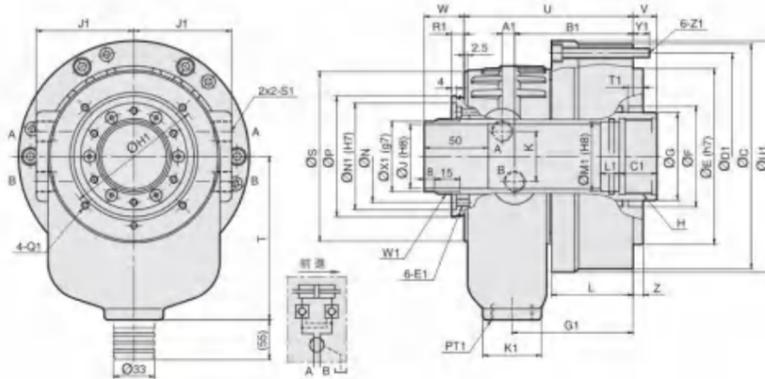
型式 Model	C	D	D1	E	F	G	H	J	K	L	N	P	S	T	U	V max	V min	W max	W min	Z
MK1246	162	147	147	130	75	65	M55×2.0	46	40	58	64	85	116	120	120	13	-3	44	28	8
MK1246F	162	130	147	100	75	65	M55×2.0	46	40	68	64	85	116	120	130	14	-2	44	28	5
MK1452	184	165	165	140	80	70	M60×2.0	52	40	66	73	96	135	130	130	19	-3	53.5	31.5	8
MK1452F	186	170	165	130	80	70	M60×2.0	52	40	73	73	96	135	130	137	21	-1	53.5	31.5	5
MK1768	212	195	195	160	105	95	M75×2.0	68	46	71	98	121	164	160	157	22	-3	50	25	8
MK1775	212	195	195	160	105	95	M85×2.0	75	46	71	98	121	164	160	157	22	-3	50	25	8
MK1778	212	195	195	160	105	95	M87×2.0	78	46	71	98	121	164	160	157	22	-3	50	25	8
MK1881	222	205	205	168	110	100	M90×2.0	81	46	71	103	126	175	175	167	23	-2	58	33	8

## >MA SERIES

### 薄型中空回轉油壓缸

### COMPACT HIGH SPEED THROUGH-HOLE ROTARY HYDRAULIC CYLINDER

- 小型輕量：長度縮短30%，高速旋轉時的性能更穩定，減輕主軸的負載。
- 安全構造：內建專利逆止閥機構，確保異常斷電時，壓力立即保持。
- 專利新形式，後端開放空間設計，易于安裝後鎖型螺絲。
- The compact hydraulic cylinder which is shorten the length about 30% and light weight can reduce the spindle loading while running in high speed.
- Safety structure with built-in patented check valve mechanism ensures that pressure is maintained immediately when abnormal power failure.
- The newly patented model with opened back-end design is convenient for back-mounted bolt.



單位:mm

型式 Model	活塞直徑 Piston Dia. (mm)	活塞面積(cm <sup>2</sup> ) 推側/拉側 Piston Area Push Side/Pull Side	最大拉杆出力kN(kgf)推側/拉側 Max.Draw Bar Force Push Side/Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 Max.Operating Pressure Mpa(kgf/cm <sup>2</sup> )	最高轉速 Max.Speed (r.p.m)	慣性矩 Moment Of Inertia I (kg.m <sup>2</sup> )	重量 Weight (kg)	總流量 Total Leakage L/min
MA1453	145	133.8/123.5	56.8(5792)/52.4(5343)	20	4.5(45.9)	6500	0.032	12	3.9

型式 Model	A1	B1	C1	E1	G1	H1	J1	K1	L1	M1	N1	Q1	R1	S1	T1	U1	W1	X1	Y1	Z1
MA1453	8	96	30	M6×12	96	110	78	47	15	55	85	M6×7	11	PT3/8	10	183	M58×1.5	56	14	M8×70

型式 Model	C	D1	E	F	G	H	J	K	L	N	P	S	T	U	V max	V min	W max	W min	Z
MA1453	183	165	140	80	70	M60×2.0	53	36	64.5	73	96	135	130	134	19	-1	47	27	8

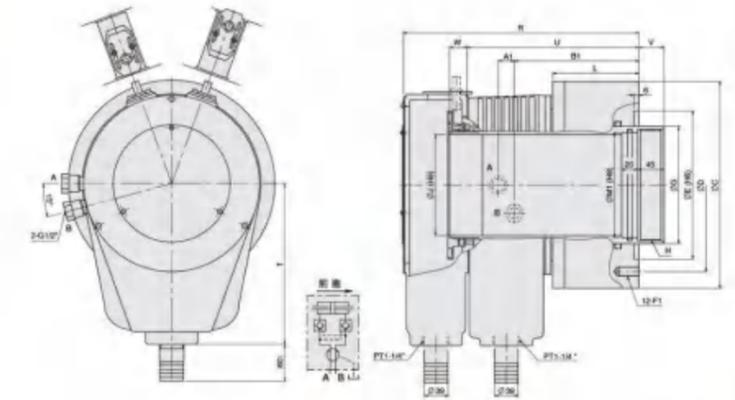
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## >ML-CM.BSERIES

### 超大孔徑回轉油壓缸

### EXTRA LARGE THROUGH-HOLE ROTARY HYDRAULIC CYLINDER

- 適用於大孔徑油壓夾頭-使用。
- 使用特殊鋁合金鋼體，超輕量質設計減少主軸負荷。
- 內藏逆止閥機構確保推力保持。
- 超大通孔設計，搭配集水槽及行程檢知裝置。
- 無附近接開關及安裝螺絲。
- Matching for large bore power chucks.
- Special aluminum alloy steel body, light weight for reducing the spindle loading.
- Within check valves to maintain the thrust force.
- Extra large bore design, equipped with coolant collector and detective plate.
- The proximity switches and mounting bolts are extra option.



單位:mm

型式 Model	活塞直徑 Piston Dia. (mm)	活塞面積(cm <sup>2</sup> ) 推側/拉側 Piston Area Push Side/Pull Side	最大拉杆出力kN(kgf)推側/拉側 Max.Draw Bar Force Push Side/Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 Max.Operating Pressure Mpa(kgf/cm <sup>2</sup> )	最高轉速 Max.Speed (r.p.m)	慣性矩 Moment Of Inertia I (kg.m <sup>2</sup> )	重量 Weight (kg)	總流量 Total Leakage L/min
ML2814CM28B	285	394/350	116.8(11910)/106.8(10584)	42	3.3(33.6)	2000	1.08	87	9
ML2816CM28B	285	394/350	116.8(11910)/106.8(10584)	42	3.3(33.6)	2000	0.90	72	9
ML3320CM33B	335	515.7/416.9	152.9(15591)/136.9(13960)	42	3.3(33.6)	1600	1.09	103	10

型式 Model	C	D	E (H6)	G	H	J	L	R	T	U	V max	V min	W max	W min	A1	B1	F1	M1
ML2814CM28B	335	280	240	190	M158×3.0	145	140	382	260	279	41	-1	67	25	18	202	M16×32L	150
ML2816CM28B	335	280	240	190	M180×3.0	166.5	140	382	260	279	41	-1	67	25	18	202	M16×32L	170
ML3320CM33B	390	320	280	230	M215×3.0	205	147	392	260	292	41	-1	67	25	18	210	M20×32L	210

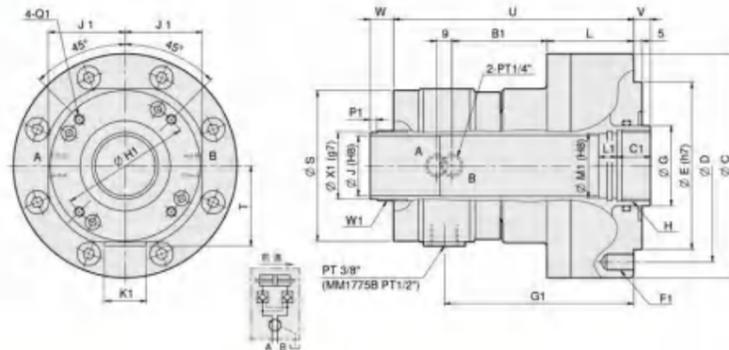
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## >MM SERIES

### 高速精短型中空回轉油壓缸

### HIGH SPEED AND COMPACT THROUGH-HOLE ROTARY HYDRAULIC CYLINDER

- 超輕薄：超短小設計，減輕主軸負載，高速旋轉時性能更穩定。
- 安全構造內附止回閥機構，確保異常斷電壓力立即保持。
- 可適用於立式車床。
- Compact hydraulic cylinder design with light weight can reduce the spindle loading while running in high speed.
- Built-in check valve in safety auto lock and pressure relief valve in case of power failure occur.
- It's suitable for vertical lathe machinery.



單位:mm

型式 Model	活塞直徑 Piston Dia. (mm)	活塞面積(cm²)推側/拉側 Piston Area Push Side/Pull Side	最大拉杆出力kN(kgf)推側/拉側 Max.Draw Bar Force Push Side/Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 Max.Operating Pressure Mpa(kgf/cm²)	最高轉速 Max.Speed (r.p.m)	慣性矩 Moment Of Inertia I (kg.m²)	重量 Weight (kg)	總流量 Total Leakage L/min
MM0933B	90	50.3/47	19.1(1947)/17.8(1815)	10	4.0(40.8)	8000	0.012	5.9	0.8
MM1036B	100	64/60	23.8(2427)/22.3(2274)	5	4.0(40.8)	8000	0.013	7	0.8
MM1036B15	100	64/60	23.8(2427)/22.3(2274)	15	4.0(40.8)	8000	0.014	7.4	0.8
MM1246B	125	100/89	38(3875)/33(3365)	15	4.0(40.8)	7000	0.027	11.8	3.0
MM1552B	155	161/150	60(6118)/56(5710)	22	4.0(40.8)	6200	0.046	16	3.0
MM1775B	170	169/154.5	63.5(6475)/58(5914)	25	4.0(40.8)	4200	0.081	22	4.5

型式 Model	C	D	E	G	H	J	L	S	T	U	V max	V min	W max	W min	B1	C1	F1	G1	H1	J1	K1	L1	M1	Q1	W1	P1	X1				
MM0933B	120	100	80	46	M40	1.5	33	59	90	48	152	10	0	30	20	58	25	6-M8	15	121.5	76	46	25	10	36	M4	9L	M39	P1.5	5	37
MM1036B	134	115	100	48	M42	1.5	36	52	90	48	144	10	5	17	12	57	20	6-M10	15	113.5	76	46	25	10	38	M4	9L	M42	P1.5	2	40
MM1036B15	134	115	100	48	M42	1.5	36	66	90	48	158	15	0	30	15	57	25	6-M10	15	127.5	76	46	25	15	38	M4	9L	M42	P1.5	3	40
MM1246B	155	130	100	65	M55	2.0	46	76	117	61	179	15	0	40	25	59.5	30	12-M10	20	140	98	59	25	15	50	M5	6L	M52	P1.5	9	50
MM1552B	190	170	130	70	M60	2.0	52	84	135	68	189	22	0	47	25	62.5	30	12-M10	20	150	110	68	25	15	55	M6	6L	M58	P1.5	9	56
MM1775B	212	190	160	95	M85	2.0	75	95	164	82.5	208	25	0	50	25	64	35	12-M10	20	163.5	155	82.5	31	15	80	M6	10L	M84	P2.0	9	81

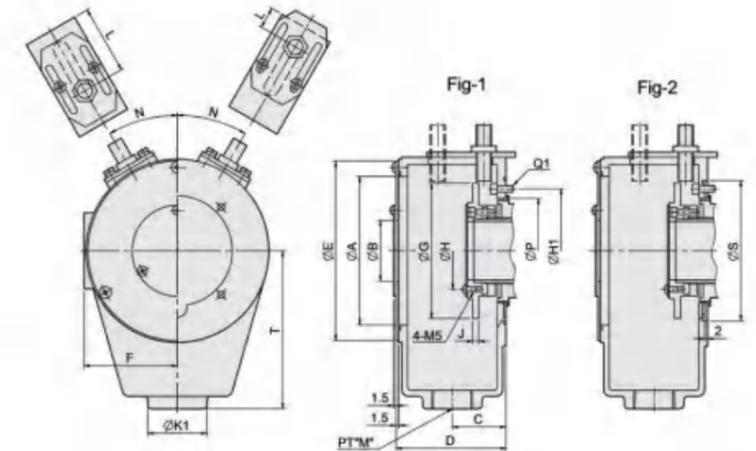
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## >CM.B SERIES

### 油壓回轉缸集水盒

### HYDRAULIC CYLINDER COOLANT COLLECTOR

- 可安裝行程確認裝置及油水回收。
- 近接開關須另購。
- Can install stroke confirmation device and reclaim oil as well as water.
- The proximity switches are extra option.



單位:mm

型式 Model	A	B	C	D	E	F	G	H	J	L max	L min	N	P	S	T	M	H1	K1	Q1	參考圖 Reference	適合油壓缸 Matching Cylinder	重量 Weight (kg)
CM09B	82.5	30	35	71.5	106	55.5	77	43	5	47.5	17.5	30	67	90	105	PT3/4"	76	44	4-M4	Fig2	M0926A, M0928A, MM0933B, MM1036B	0.85
CM10B1	82.5	40	35	71.5	106	55.5	77	52	5	47.5	17.5	30	75	-	105	PT3/4"	88	44	6-M5	Fig1	M1036, M1038	1.0
CM12B	117.5	48	42	85.5	142	74	107	61	5	60.5	17.5	30	87	-	130	PT1"	98	47	4-M5	Fig1	M1236, M1246, MK1246, MM1246B	1.6
CM15B8	117.5	55	42	85.5	142	74	107	67	5	60.5	17.5	30	98	-	130	PT1"	110	47	4-M6	Fig1	M1546, M1552, MK1452, MM1552B	1.6
CM18B	155	80	42.5	86.5	184	94	147	92	5	58.5	17.5	30	123	-	150	PT1"	155	47	4-M6	Fig1	M1768, M1875, MK1775, MM1775B	2.0
CM18BK	155	80	42.5	86.5	184	94	147	97	5	60.5	19.5	30	126	175	150	PT1"	166	47	4-M6	Fig2	MK1881	2.0
CM20B	155	95	42.5	86.5	184	94	147	106	5	60.5	17.5	30	140	-	150	PT1"	165	47	4-M6	Fig1	M2078, M2085, M2091	2.1
CM25B	200	120	44	89.5	230	117	192	-	12	60	21	27	179	-	180	PT1"	206	47	4-M6	Fig1	M2511S	2.4
CM28B	254	170	52	103	285	147	240	182	8	74.5	20.5	20	222.6	278	260	PT1-1/4"	256	85	4-M6	Fig2	ML2814, ML2816	4.2
CM33B	300	208	52	101.5	330	-	285	222	8	74.5	20.5	20	262.6	328	259	PT1-1/4"	308	70	4-M6	Fig2	ML3320	7.2

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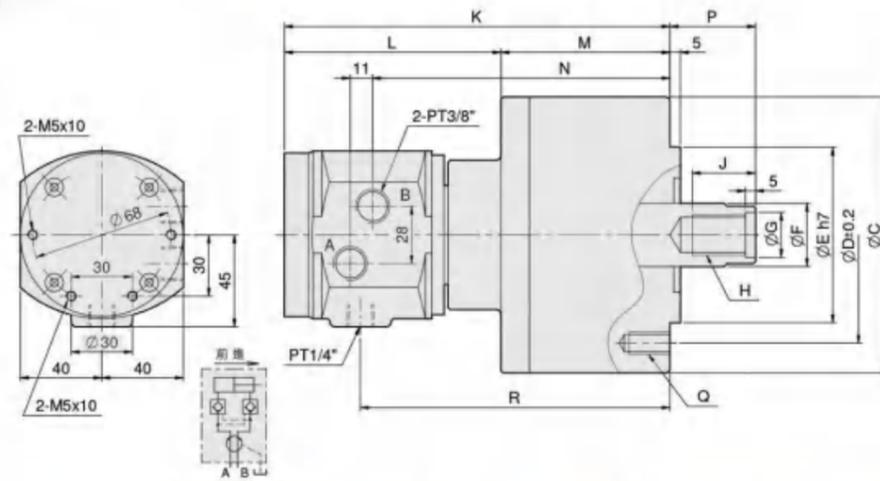
## > MS SERIES

中實回轉油壓缸  
(含逆止閥)

NON THROUGH-HOLE ROTARY HYDRAULIC CYLINDER (VALVE INCLUDED)



- 附逆止閥。
- Built-in safety check valves.



單位:mm

型式 Model	活塞直徑 Pistone Dia (mm)	活塞面積 (cm <sup>2</sup> ) Piston Area 推側/拉側 Push Side / Pull Side	最大拉杆出力KN(kgf) Max. Draw Bar Force Push Side / Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 (Kg/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	慣性矩 Kg*m <sup>2</sup>	重量 Weight (kg)	總流量 TotalLeakage L/min
MS105	105	86/79	32(3263)/29(2957)	20	4.0(40.8)	6000	0.0125	7.1	0.8
MS125	125	122/113	46(4691)/42(4283)	25	4.0(40.8)	6000	0.0225	10	0.8
MS150	150	176/160	66(6730)/60(6118)	30	4.0(40.8)	5500	0.0475	13.5	0.8
MS200	200	314/290	117(11930)/108(11013)	35	4.0(40.8)	5500	0.0975	22	0.8

型式 Model	C	D	E	F	G	H	J	K	L	M	N	P max.	P min.	Q	R
MS105	135	100	80	30	21	M20×2.5	35	197	108	89	152	45	25	6-M10×20	158
MS125	160	130	110	35	25	M24×3.0	44	205	108	97	160	51	26	6-M12×24	166
MS150	190	130	110	45	31	M30×3.5	45	214	108	106	169	56	26	12-M12×24	175
MS200	245	145	120	55	37	M36×4.0	60	228	108	122	183	69	34	12-M16×30	189

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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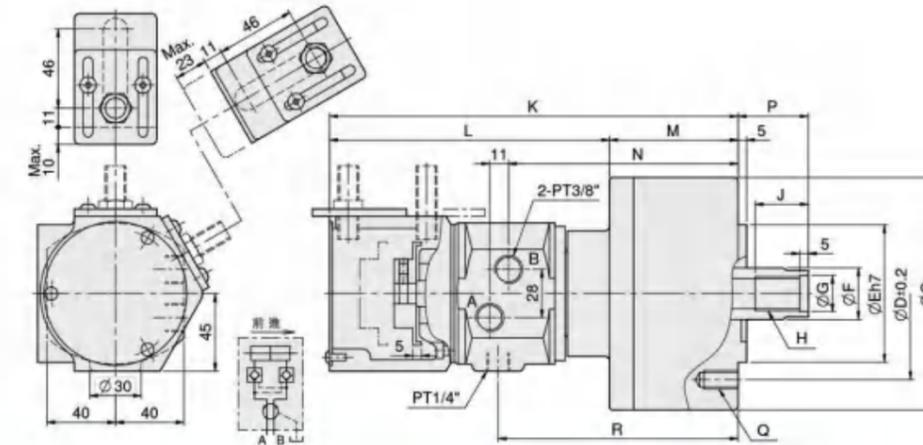
## > MS-C SERIES

中實回轉油壓缸  
(含逆止閥、檢知裝置)

NON THROUGH-HOLE ROTARY HYDRAULIC CYLINDER (VALVE AND SWITCH BRACKETS INCLUDED)



- 附逆止閥。
- 檢出安全裝置。
- 近接開關須另購。
- Check valve is included.
- Check-up safety device is included.
- The proximity switches are extra option.



單位:mm

型式 Model	活塞直徑 Pistone Dia (mm)	活塞面積 (cm <sup>2</sup> ) Piston Area 推側/拉側 Push Side / Pull Side	最大拉杆出力KN(kgf) Max. Draw Bar Force Push Side / Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 (Kg/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	慣性矩 Kg*m <sup>2</sup>	重量 Weight (kg)	總流量 TotalLeakage L/min
MS105C	105	84/79	31(3161)/29(2957)	20	4.0(40.8)	6000	0.0125	7.6	0.8
MS125C	125	120/113	45(4589)/42(4283)	25	4.0(40.8)	6000	0.022	10.5	0.8
MS125C35	125	120/113	45(4589)/42(4283)	35	4.0(40.8)	6000	0.022	10.5	0.8
MS150C	150	174/160	65(6628)/60(6118)	30	4.0(40.8)	5500	0.047	14	0.8
MS200C	200	312/290	117(11930)/108(11013)	35	4.0(40.8)	5500	0.097	22.5	0.8

型式 Model	C	D	E	F	G	H	J	K	L	M	N	P max.	P min.	Q	R
MS105C	135	100	80	30	21	M20×2.5	35	257	168	89	152	45	25	6-M10×20	158
MS125C	160	130	110	35	25	M24×3.0	44	265	168	97	160	51	26	6-M12×24	166
MS125C35	160	130	110	35	25	M24×3.0	45	269	168	101	164	57	22	6-M12×24	170
MS150C	190	130	110	45	31	M30×3.5	60	274	168	106	169	56	26	12-M12×24	175
MS200C	245	145	120	55	37	M36×4.0	60	288	166	122	183	59	34	12-M16×30	189

● 拉杆力: 油壓力4.0Mpa(40.8kgf/cm<sup>2</sup>)。Draw bar pull force : Pressure 4.0 Mpa(40.8kgf/cm<sup>2</sup>)  
● 總流量: 油壓力3.0Mpa(30.6kgf/cm<sup>2</sup>)及溫度50°C。Total leakage : Pressure 3.0 Mpa(30.6kgf/cm<sup>2</sup>) and oil temperature 50°C  
● 近接開關: 規格 BESS 16-329-E4-Y (BALLUFF) DC 12/24V 200mA NPN。 Proximity switch : Model BESS 16-329-E4-Y(BALLUFF) DC 12/24V 200mA NPN

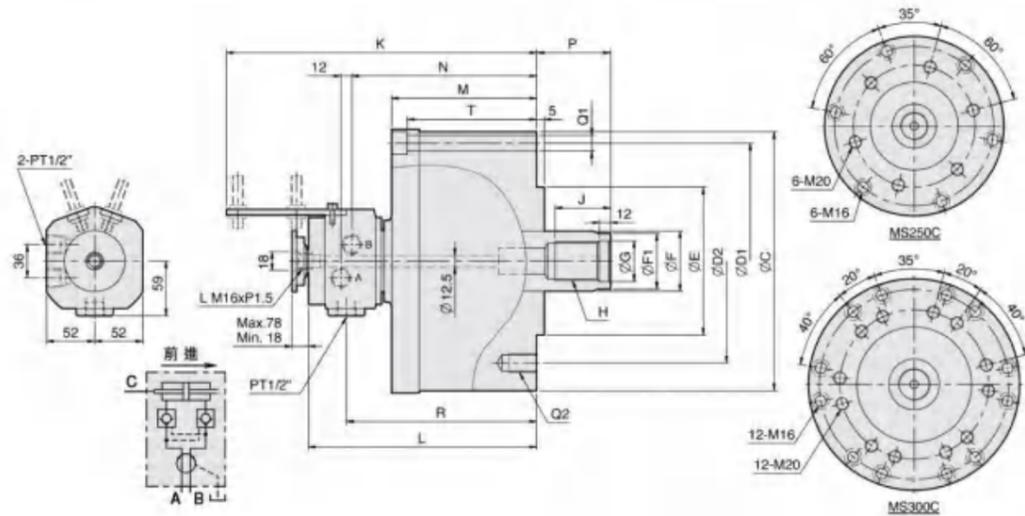
## > MS250C/MS300C SERIES

中實回轉油壓缸 (含逆止閥、檢知裝置)

SHORT TYPE NON THROUGH-HOLE ROTARY HYDRAULIC CYLINDER WITH CENTRAL BORE FOR AIR



- 貫穿孔可加裝迴轉接頭以利吹氣、冷卻液等作業。
- 可從前端或後端安裝。
- 附安全逆止閥及檢出裝置(近接開關須另購)。
- Through-hole for coolant, oil or air with thread for rotary unit.
- Mounting from the rear or front side.
- Built-in safety check valves and bracket for proximity switch. (The proximity switches are extra option.)



單位:mm

型式 Model	活塞直徑 Pistone Dia (mm)	活塞面積 (cm <sup>2</sup> ) Piston Area 推側/拉側 Push Side / Pull Side	最大拉杆出力KN(kgf) Max. Draw Bar Force Push Side / Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 (Kg/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	慣性矩 Kg*m <sup>2</sup>	重量 Weight (kg)	總流量 TotalLeakage L/min
MS250C	250	481.5/453.6	227(23147)/214(21822)	60	4.9(50)	2000	0.85	73	2
MS300C	300	697.5/658.6	262(26716)/247(25186)	60	4.0(40.8)	1500	1.60	106	3

型式 Model	C	D1	D2	E (h7)	F	F1	G	H	J	K	L	M	N	P max.	P min.	Q1	Q2	R	T
MS250C	300	275	220	160	65	62	44	M42 x 3.0	60	349	260	170	213	85	25	6-Ø17	6-M20 x 30	219	153
MS300C	355	330	270	210	75	70	50	M48 x 3.0	70	359	270	182	223	85	25	12-Ø17	12-M20 x 30	229	165

保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
 非標準需求可訂做 Non-standard requirements can be made

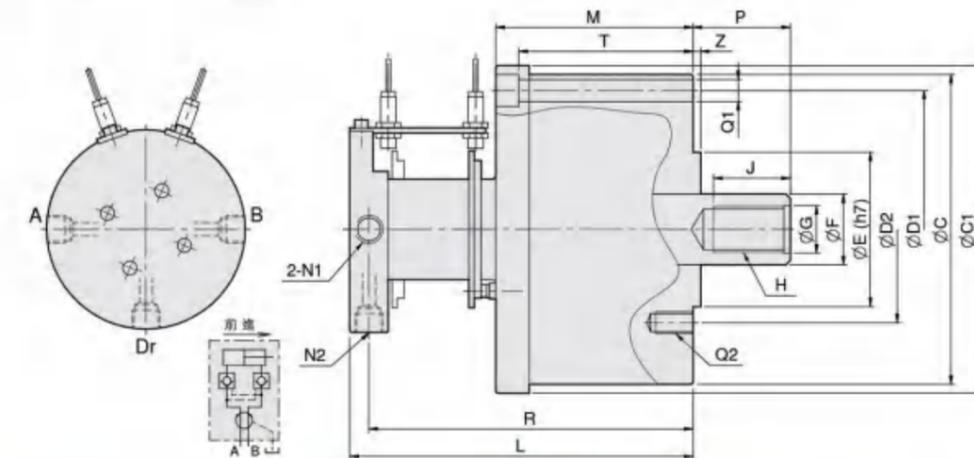
## > MR SERIES

中實超短型回轉油壓缸

SHORT TYPE NON THROUGH HOLE ROTARY HYDRAULIC CYLINDER



- 高速輕量化設計, 適用於立式車床。
- 內附逆止閥及行程檢知裝置(近接開關須另購)。
- 安裝時可由後端鎖入。
- Light weight design can reduce the spindle loading for vertical lathe application.
- Built-in check valve and proximity switch brackets.
- Developed for rear locking installation.



單位:mm

型式 Model	活塞直徑 Pistone Dia (mm)	活塞面積 (cm <sup>2</sup> ) Piston Area 推側/拉側 Push Side / Pull Side	最大拉杆出力KN(kgf) Max. Draw Bar Force Push Side / Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 (Kg/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	慣性矩 Kg*m <sup>2</sup>	重量 Weight (kg)	總流量 TotalLeakage L/min
MR10530	105	81/75.5	34(3467)/31.7(3232)	30	4.5(45.9)	6000	0.015	6.8	0.8
MR12535	125	117/107.5	49(4996)/45(4588)	35	4.5(45.9)	6000	0.028	9.5	0.8
MR15035	150	171.1/156.7	72(7342)/66(6730)	35	4.5(45.9)	5500	0.043	12.8	0.8
MR20060	200	310/286	146(14887)/134(13664)	60	4.9(50)	5500	0.55	49	2
MR25060	250	481.5/453.6	227(23147)/214(21822)	60	4.9(50)	2000	0.81	72	2

型式 Model	C	C1	D1	D2	E (h7)	F	G	H	J	L	M	N1	N2	P max.	P min.	Q1	Q2	R	T	Z
MR10530	143	143	125	100	80	30	21	M20 x 2.5	35	167	87	PT3/8"	PT1/4"	50	20	6-Ø9	6-M10	155	78	5
MR12535	169	171	150	130	110	35	25	M24 x 3.0	44	174	94	PT3/8"	PT1/4"	57	22	6-Ø11	6-M12	162	82	5
MR15035	202	204	180	130	110	45	31	M30 x 3.5	45	175	95	PT3/8"	PT1/4"	61	26	6-Ø13	12-M12	163	82	5
MR20060	250	255	225	145	120	55	37	M36 x 4.0	60	270	156	PT1/2"	PT1/2"	85	25	6-Ø17	6-M16	255	140	6
MR25060	300	305	275	220	160	65	44	M42 x 3.0	60	280	168	PT1/2"	PT1/2"	85	25	6-Ø17	6-M20	265	150	6

保留技術更改的權利, 恕不另行通知 Subject to technology changes without prior information  
 非標準需求可訂做 Non-standard requirements can be made

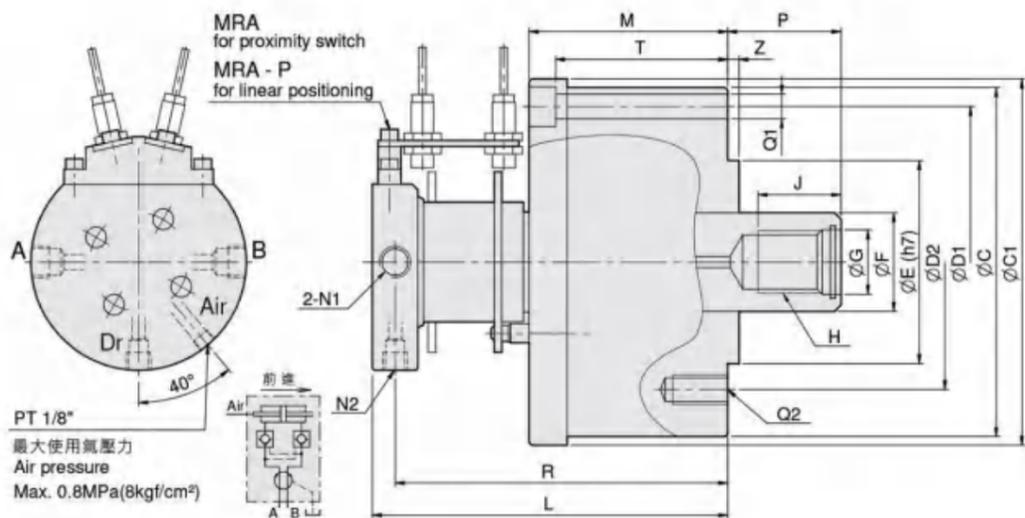
## > MRA SERIES

中實超短型注氣  
回轉油壓缸

SHORT TYPE NON THROUGH-HOLE ROTARY HYDRAULIC CYLINDER WITH CENTRAL BORE FOR AIR



- 高速輕量化設計，適用於立式車床。
- 內附逆止閥及行程檢知架。
- 安裝時可由後端鎖入。
- 可加裝注氣功能。
- High-speed and lightweight design, suitable for vertical lathes.
- Check valve and stroke detection frame are included.
- Can lock in at the back end during installation.
- Can be equipped with gas injection function.



PT 1/8"  
最大使用氣壓力  
Air pressure  
Max. 0.8MPa(8kgf/cm<sup>2</sup>)

單位:mm

型式 Model	活塞直徑 Pistone Dia (mm)	活塞面積 (cm <sup>2</sup> ) Piston Area 推側/拉側 Push Side / Pull Side	最大拉杆出力KN(kgf) Max. Draw Bar Force Push Side / Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 (Kg/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	慣性矩 Kg·m <sup>2</sup>	重量 Weight (kg)	總流量 Total Leakage L/min
MRA12535	125	116/107.5	48.5(4945)/45(4588)	35	4.5(45.9)	6000	0.028	9.3	0.8
MRA15035	150	170.2/156.7	71.6(7301)/66(6730)	35	4.5(45.9)	5500	0.043	12.8	0.8

型式 Model	C	C1	D1	D2	E (h7)	F	G	H	J	L	M	N1	N2	P max.	P min.	Q1	Q2	R	T	Z
MRA12535	169	171	150	130	110	35	25	M24 x 3.0	44	177	94	PT3/8"	PT1/4"	57	22	6-Ø11	6-M12	165	82	5
MRA15035	202	204	180	130	110	45	31	M30 x 3.5	45	178	95	PT3/8"	PT1/4"	61	26	6-Ø13	12-M12	166	82	5

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
非標需求可訂做 Non-standard requirements can be made

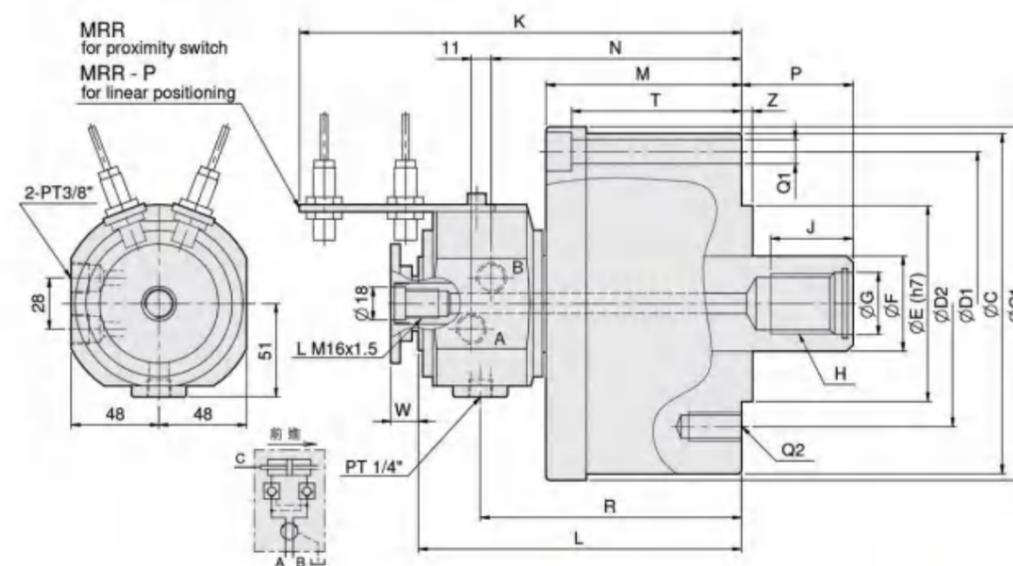
## > MRR SERIES

中實超短型回轉油壓缸  
(適用回轉接頭)

SHORT TYPE NON THROUGH-HOLE ROTARY HYDRAULIC CYLINDER (FOR ROTARY UNION)



- 高速輕量化設計，適用於立式車床。
- 內附逆止閥及行程檢知架。
- 安裝時可由後端鎖入。
- 透過迴轉接頭由中心孔注水、注氣。
- High-speed and lightweight design, suitable for vertical lathes.
- Check valve and stroke detection frame are included.
- Can lock in at the back end during installation.
- Can inject water and gas from the center bore through rotary adaptor.



單位:mm

型式 Model	活塞直徑 Pistone Dia (mm)	活塞面積 (cm <sup>2</sup> ) Piston Area 推側/拉側 Push Side / Pull Side	最大拉杆出力KN(kgf) Max. Draw Bar Force Push Side / Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 (Kg/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	慣性矩 Kg·m <sup>2</sup>	重量 Weight (kg)	總流量 Total Leakage L/min
MRR12535	125	113/107.5	47.3(4823)/45(4588)	35	4.5(45.9)	6000	0.027	9.8	0.8
MRR15035	150	168.7/156.7	71(7240)/66(6730)	35	4.5(45.9)	5500	0.055	13.5	0.8

型式 Model	C	C1	D1	D2	E (h7)	F	G	H	J	K	L	M	N	P max.	P min.	Q1	Q2	R	T	W max.	W min.	Z
MRR12535	169	171	150	130	110	35	25	M24 x 3.0	44	229	164	94	124	57	22	6-Ø11	6-M12	130	82	50	15	5
MRR15035	202	204	180	130	110	45	31	M30 x 3.5	45	230	165	95	125	61	26	6-Ø13	6-M12	131	82	50	15	5

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
非標需求可訂做 Non-standard requirements can be made

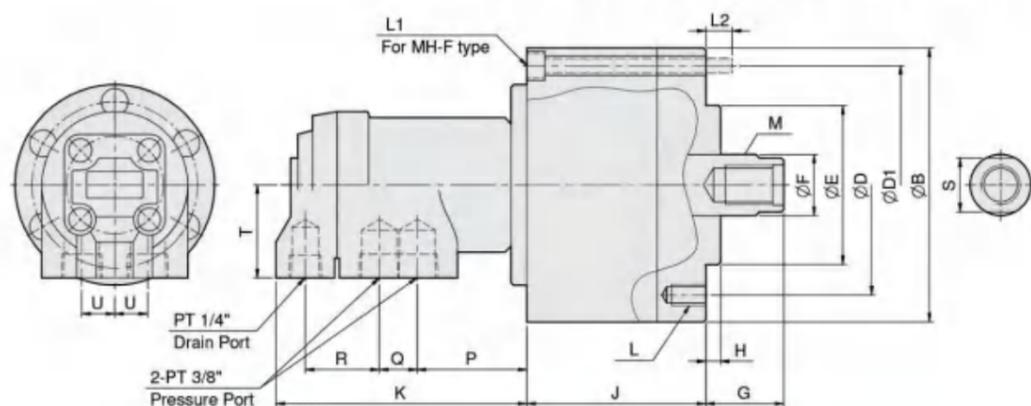
## > MH-F SERIES

### 中實回轉油壓缸

### NON THROUGH-HOLE ROTARY HYDRAULIC CYLINDER



- 質密、低慣性、輕形：此油壓缸為鋁合金製造而成，為輕形之設計，可以減輕機器主軸之負荷。
- 高速運轉：此油壓缸之平衡設計為輕形且質密，于高速運轉可以維持外形之均勻平穩。
- 高壽命：由于高品質之油壓缸油封及高精度之表面粗糙度的零件，可確保此油壓缸之高壽命。
- Dense substance, low inertia, light shape: this hydraulic cylinder is made of aluminum alloy, which is light design and can reduce the load of machine main shaft.
- High speed operation: The balance design of this hydraulic cylinder is with light and dense substance, which can maintain the outside shape evenly and stably while operating at high speed.
- Long life: due to the high quality of oil seal and high precision on surface roughness of parts ensures the long life of this hydraulic cylinder.



型式 Model	活塞直徑 Pistone Dia (mm)	活塞面積 (cm <sup>2</sup> ) Piston Area Push Side / Pull Side	最大拉杆出力KN(kgf) Max. Draw Bar Force Push Side / Pull Side	活塞行程 Piston Stroke (mm)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	慣性矩 Kg*m <sup>2</sup>	重量 Weight (kg)	總流量 Total Leakage L/min
MH80	80	47.7/42.8	15.5(1580)/13.9(1417)	15	3.5(35.7)	6000	0.005	5.1	0.4
MH100F	100	75.4/70.5	24.5(2498)/22.9(2335)	20	3.5(35.7)	5500	0.013	6.7	0.4
MH125F	125	121.1/114	39.3(4007)/37(3773)	25	3.5(35.7)	5500	0.021	8.6	0.4
MH150F	150	176/160	66(6730)/60(6118)	30	4.0(40.8)	4000	0.049	10.8	0.8

型式 Model	B	D	D1	E (h7)	F	G max.	G min.	H	J	K	L	L1	L2	M	P	Q	R	T	U	S
MH80	112	60	-	65	25	45	30	6	73.5	103	6-M8 x 16	-	-	M16 x 2.0 x 32	45	15.5	30.5	38	13.5	22
MH100F	135	100	115	80	25	45	25	6	88.5	103	6-M10 x 19	6-M8 x 90	12	M16 x 2.0 x 32	45	15.5	30.5	38	13.5	22
MH125F	160	130	140	110	30	51	26	6	95.5	103	6-M12 x 20	6-M8 x 100	13	M20 x 2.5 x 32	45	15.5	30.5	38	13.5	27
MH150F	190	130	170	110	45	50	20	6	107	103	12-M12 x 20	8-M10 x 110	16	M30 x 3.5 x 40	45	15.5	30.5	38	13.5	38

● 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 ● 非標準要求可訂做 Non-standard requirements can be made

## > HB4 SERIES

### 強力置爪

### BORING MILL JAW

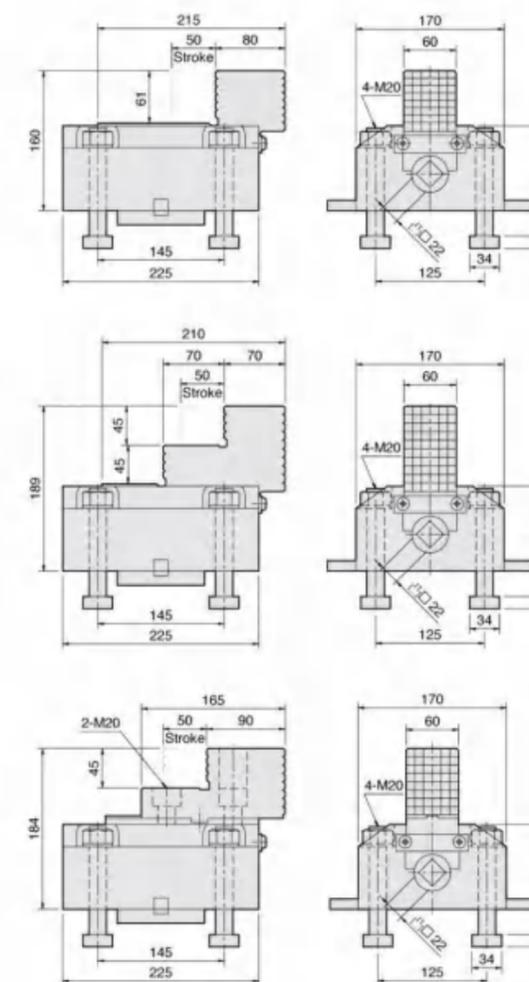


- 適用於巨型車床、立式車床、模治具與工作物的扶持。
- 四個一組附T型螺栓。
- Clamping of workpiece for larger size lathe, vertical lathe, die set with jig.
- One set of 4-piece with T-bolt.

型式 Model	爪行程 Jaw stroke (mm)	最大夾持力 Max clamping force(kn)	重量 Weight (kg)
HB4-160	50	39.2	29

型式 Model	爪行程 Jaw stroke (mm)	最大夾持力 Max clamping force(kn)	重量 Weight (kg)
HB4-189	50	39.2	31

型式 Model	爪行程 Jaw stroke (mm)	最大夾持力 Max clamping force(kn)	重量 Weight (kg)	適合生爪 Matched HC
HB4-2P	50	39.2	31	HE2486



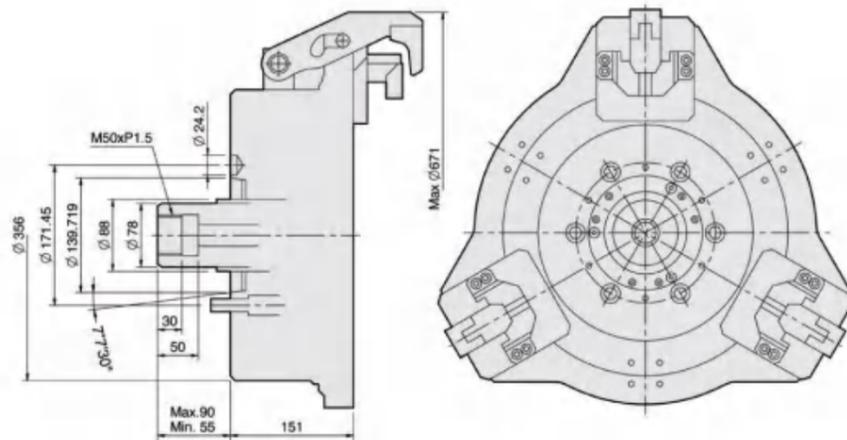
## > F52 SERIES

### 鋁輪圈夾頭

HIGH SPEED AND LIGHT WEIGHT TYPE STRONG FINGER CHUCK FOR ALUMINUM WHEEL



- F52型鋁輪圈夾頭採用高級合金鋼材質，所有滑動面經表面硬化及研磨處理，以提高迴轉度及耐久性。
- 配合件直接安裝並符合DIN,BS,ISO,ASA,B5-9,A型之主軸標準。
- F52 type of aluminum rim chuck that is made of high-grade alloy steel. All sliding surfaces are hardening processed and grinding treated to improve rotation and durability. Manufactured in special specification.
- The mating parts can be directly installed and conform to DIN, BS, ISO, ASA, B5-9, A-type main shaft standards.



單位:mm

型式 Model	適合圓輪尺寸 Matching Wheel size	夾頭外徑 Out dai. of chuck (mm)	適合主軸 Matching spindle	最大容許拉力 Max DB Pull (Kgf)	最大夾持力 Max clamping force(kgf)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	重量(不包含治具) Weight Without jigs(kg)	適合油壓缸 Matched cylinders
F52A8	12"-18"	521	A2-8	33.9(3456)	32.4(3303)	3.3(33.6)	2800(18"2200)	98	MS125C35

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 非標需求可訂做 Non-standard requirements can be made

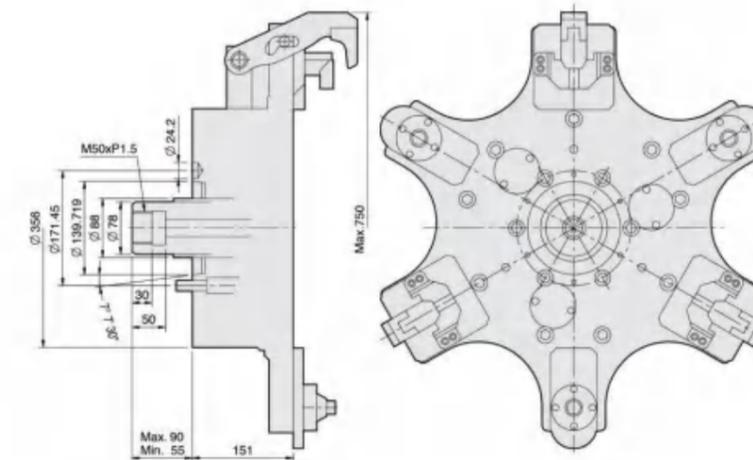
## > F61 SERIES

### 鋁輪圈夾頭

HIGH SPEED AND LIGHT WEIGHT TYPE STRONG FINGER CHUCK FOR ALUMINUM WHEEL



- F61型鋁輪圈夾頭採用高級合金鋼材質，所有滑動面經表面硬化及研磨處理，以提高迴轉度及耐久性。
- 配合件直接安裝並符合DIN,BS,ISO,ASA,B5-9,A型之主軸標準。
- F61 type of aluminum rim chuck that is made of high-grade alloy steel. All sliding surfaces are hardening processed and grinding treated to improve rotation and durability. Manufactured in special specification.
- The mating parts can be directly installed and conform to DIN, BS, ISO, ASA, B5-9, A-type main shaft standards.



單位:mm

型式 Model	適合圓輪尺寸 Matching Wheel size	夾頭外徑 Out dai. of chuck (mm)	適合主軸 Matching spindle	最大容許拉力 Max DB Pull (Kgf)	最大夾持力 Max clamping force(kgf)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	重量(不包含治具) Weight Without jigs(kg)	適合油壓缸 Matched cylinders
F61A8	13"-22"	610	A2-8	33.9(3456)	32.4(3303)	3.3(33.6)	1500	145	MS125C35

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 非標需求可訂做 Non-standard requirements can be made

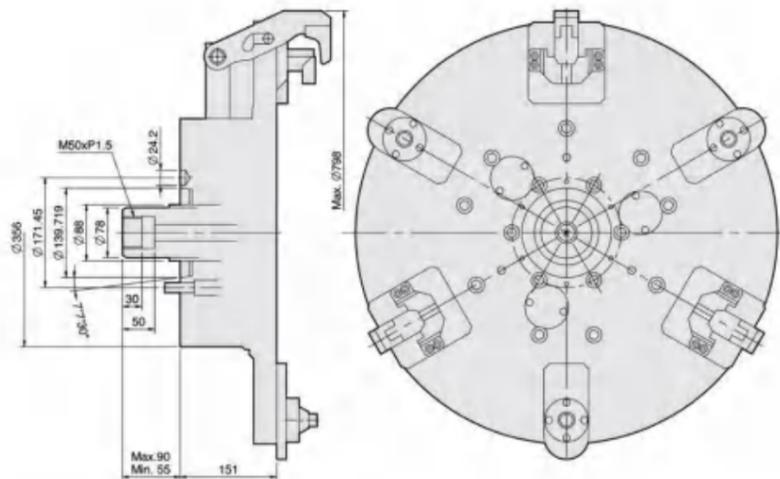
## > F66 SERIES

### 鋁輪圈夾頭

HIGH SPEED AND LIGHT WEIGHT TYPE STRONG FINGER CHUCK FOR ALUMINUM WHEEL



- F66型鋁輪圈夾頭採用高級合金鋼材質，所有滑動面經表面硬化及研磨處理，以提高迴轉度及耐久性。
- 配合件直接安裝并符合DIN,BS,ISO,ASA,B5-9,A型之主軸標準。
- F66 type of aluminum rim chuck that is made of high-grade alloy steel. All sliding surfaces are hardening processed and grinding treated to improve rotation and durability. Manufactured in special specification.
- The mating parts can be directly installed and conform to DIN,BS,ISO,ASA, B5-9, A-type main shaft standards.



型式 Model	適合圓輪尺寸 Matching Wheel size	夾頭外徑 Out dai of chuck (mm)	適合主軸 Matching spindle	最大容許拉力 Max DB Pull (Kgf)	最大夾持力 Max clamping force(kgf)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	重量(不包含治具) Weight Without jigs(kg)	適合油壓缸 Matched cylinders
F66A8	19"-24"	660	A2-8	33.9(3456)	32.4(3303)	3.3(33.6)	1500	182	MS125C35

單位:mm

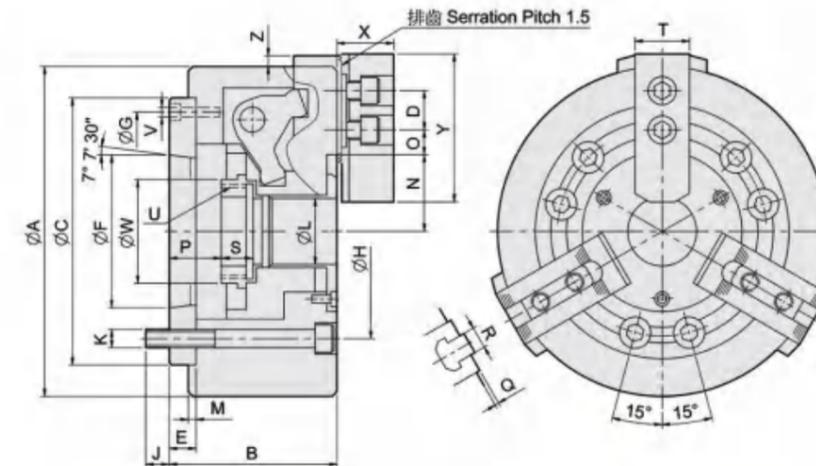
## > NL-A SERIES

### 三爪長行程中空油壓夾頭 (含連接板)

3-JAW LONG STROKE THROUGH-HOLE POWER CHUCK(ADAPTER INCLUDED)



- 曲柄結構，中空型超長行程。
- 高强度合金鋼材質，滑動面經硬化處理及精密研磨。
- 可以夾持端面落差極大之工件。
- 安裝方式與中空N系列夾頭一樣，可直接互換。
- Hollow type with super long stroke for crank structure
- Made of high-strength alloy steel, the sliding surface is harden - processed and precisely ground.
- Can clamp work piece of extreme different size at end faces.
- The installation method is the same as the chuck of hollow N series, which are interchangeable directly.



型式 Model	通孔直徑 Through hole dia. (mm)	拉桿行程 Plunger Stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB Pull (Kgf)	最大夾持力 Max clamping force (kgf)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	重量 Weight (kg)	慣性矩 Kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
NL-06A5	Ø40	15	24	2243	2651	28.5	3600	14.8	0.065	M1246	HJ06	HC06	Ø35-Ø168
NL-08A6	Ø48	20	32	3701	4190	27.5	3000	28	0.21	M1552	HJ08	HC08	Ø50-Ø215
NL-10A8	Ø66	25	37.5	4853	4486	29.5	2400	43.5	0.44	M1875	HJ10	HC10	Ø55-Ø256

單位:mm

型式 Model	A	B	C (H6)	D	E	F	G	H	J	K	L	M	N min	O max	O min	P max	P min	Q	R	S	T	U max	V	W	X	Y	Z
NL-06A5	168	96	140	20	15	82.563	116	104.78	16	6-M10	40	5	49	16.75	7.75	26	11	2	12	19	31	M55×2.3×M6	60	37	73	10	
NL-08A6	215	112	170	25	17	106.375	150	133.35	18	6-M12	48	5	60.5	20.75	11.75	31.5	11.5	2	14	20.5	35	M60×2.3×M6	66	38	95	10	
NL-10A8	256	125	220	30	18	139.719	190	171.45	24	6-M16	66	5	74.5	24.75	11.25	26.5	1.5	2	16	25	40	M85×2.3×M8	94	43	110	12.5	

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
 非標準需求可訂做 Non-standard requirements can be made

## > BL SERIES

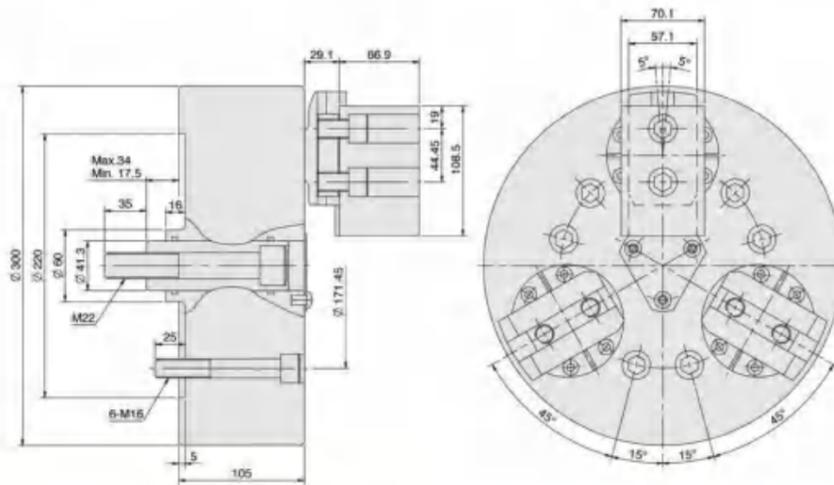
### 三爪擺式夾頭

### 3-JAW BALL SWING LOCK CHUCK



- 可引入加工物并夾持，爪齒為夾持，拉近兩段動作，故可將加工物確實吸附于夾頭前面的定位器上，維持安定夾持狀態。
- 可做外徑夾持與內徑夾持，經由簡單操作可以靈活切換外徑夾持與內徑夾持。
- 可夾持推拔部品，本產品可確實夾持具有撥模斜度的鑄鐵制品的黑色表皮面，故加工物夾持部分可省略取捨加工的手續（最大可夾持到20° 推拔）
- 爪齒可做搖晃運動，爪齒可依照部位做搖晃運動，故能穩定夾持（單側最大可以到5°）
- 具有優異的防塵性，本品與既有的一般夾頭不同，在結構上具有防塵性，特別是在鎖定臂（lock arm）部分設有防塵套，可防止鐵屑侵入。

- The chuck can attract the workpiece and hold it on. The jaw operates in two stages :Clamping pull back,so it can hold the workpiece exactly on the position in front of the chuck,and make it under the stabile situation.
- The chuck can grasp the workpiece on both O.D.and I.D.clamping.The chuck can switch between O.D.and I.D. clamping mode by asimple operation.
- The chuck can grasp the part of the taper.The chuck can exactly grasp the black surface of the cast irons, which has draft. So the discard process can be ignored on the chucking part of the workpiece.(It can grasp up to a 20° degree taper when using a clipper.)
- The jaw can equalize on the O.D.clamping, so it can grasp theworkpiece steady.(Jaw self-equalizing to max 5° )
- Dustproof performance is excellent. It is differ from regular general purpose chuck.It is structurally dustproof. Especially there is a dustproof seal in the part of lock arm to prevent the dust.



單位:mm

型式 Model	拉桿行程 Plunger Stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB Pull (Kgf)	最大夾持力 Max clamping force (kgf)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	重量 Weight (kg)	慣性矩 Kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合生爪 Matched HC	夾持範圍 外徑範圍/內徑範圍 O.D.Range/I.D. Range
BL-12	17.5	12.4	40.7(4152)	122(12440)	2.8(28.5)	2800	65	0.18	MS105C	BL-12	Ø63-Ø240/Ø127-Ø305

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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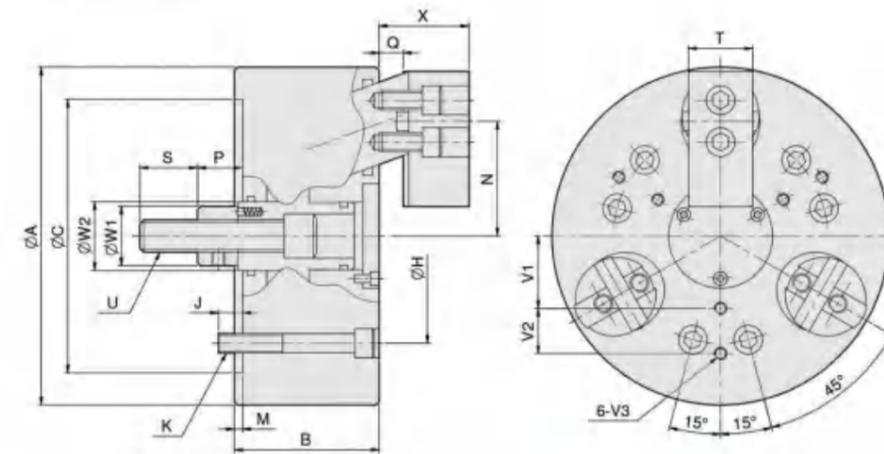
## > DR SERIES

### 三爪後拉式夾頭

### 3-JAW DRAW DOWN POWER CHUCK



- 後拉式油壓夾頭作徑向夾持同時強力後拉，適用於鑄件及鍛件的加工。
- 後拉式夾持將工件緊貼在基準面上，使夾持穩固，適于重切削。
- 圓柱滑動結構，可長期使用，并確保重複夾持的優異精度。
- 準確的自定中心及強力夾持工件不上浮特性，要求長度精準的加工最適宜。
- Back-pull hydraulic chuck for radial clamping and strong back-pull at same time, suitable for processing of castings and forgings
- Back-pull clamping keeps the work-piece appressed closely to the reference surface to make the clamping stable and suitable for heavy cutting.
- The cylindrical sliding structure supports the long-time usage and ensures excellent accuracy of repeated clamping.
- Accurate self-centering and strong clamping of the work piece without floatability. It is most suitable for those require lengthy and precise processing works.



單位:mm

型式 Model	拉桿行程 Plunger Stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB Pull (Kgf)	最大夾持力 Max clamping force (kgf)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	重量 Weight (kg)	慣性矩 Kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
DR-06	10	7.2	15(1530)	25(2459)	2.1(21.4)	3500	15	0.05	MS105C	DR-06	Ø35-Ø165
DR-08B	10	7.2	25(2549)	45(4589)	2.5(25.5)	3000	25	0.14	MS125C	DR-08	Ø40-Ø210
DR-10	16	11.6	35(3569)	60(6118)	3.3(34)	2500	46	0.374	MS125C	DR-10	Ø50-Ø254
DR-10D	16	11.6	35(3569)	60(6118)	3.3(34)	2500	46.1	0.376	MC125C	DR-10	Ø54-Ø254
DR-12	16	11.6	44(4487)	71(7240)	3(30.6)	2000	76	0.88	MS150C	DR-12	Ø50-Ø304

型式 Model	A	B	C	H	J	K	M	N <sub>max</sub>	N <sub>min</sub>	P <sub>max</sub>	P <sub>min</sub>	Q <sub>max</sub>	Q <sub>min</sub>	S	T	U	W1	W2	X <sub>max</sub>	X <sub>min</sub>	V1	V2	V3
DR-06	165	85	140	104.78	16	6×M10	5	58	54.4	33	23	14	4	36	35	M16×2.0	32	33.5	45	35	35	20	M6×12
DR-08B	210	90	170	133.35	15	6×M12	5	71.3	67.7	38	28	15	5	36	40	M20×2.5	37	42	56	46	45	25	M8×16
DR-10	254	110	220	171.45	23	6×M16	5	85.4	79.6	48	32	20	4	46	50	M24×3.0	50	60	66	50	55	30	M8×16
DR-10D	254	110	220	171.45	23	6×M16	5	87.8	82	48	32	22.6	6.6	46	50	M24×3.0	50	60	68.6	52.6	85	30	M12×18
DR-12	304	125	220	171.45	23	6×M16	5	102.9	97.1	47	31	21.5	5.5	50	60	M27×3.0	52	60	72.5	56.5	100	35	M12×18

保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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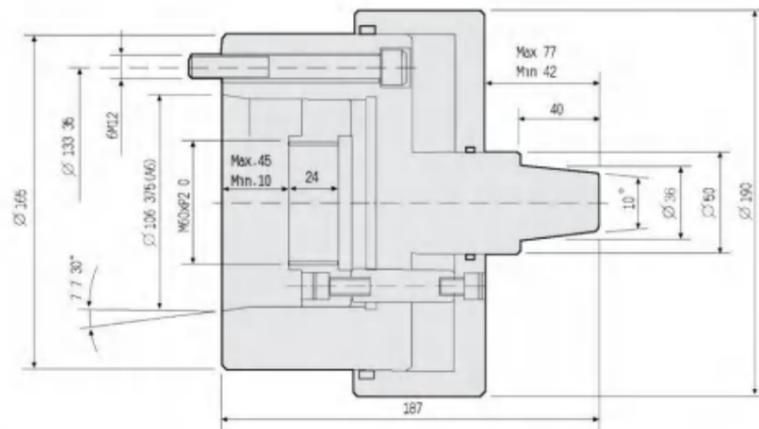
## > P165 SERIES

### 浮動頂針夾頭

### FLOATING PLATE CENTER CHUCK



- 適用於薄管端面及外徑一次的加工。
- Suitable for easy one step cutting of thin hoses, plate and outside diameter.



可加工範圍  
Possible processing range

單位:mm

型式 Model	浮動行程 Plunger Stroke (mm)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	重量 Weight (kg)	慣性矩 Kg·m <sup>2</sup>	適合油壓缸 Matched cylinders
P165	35	1.0(10)	6000	18.5	0.02	MS125C35

● 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
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## > HN SERIES

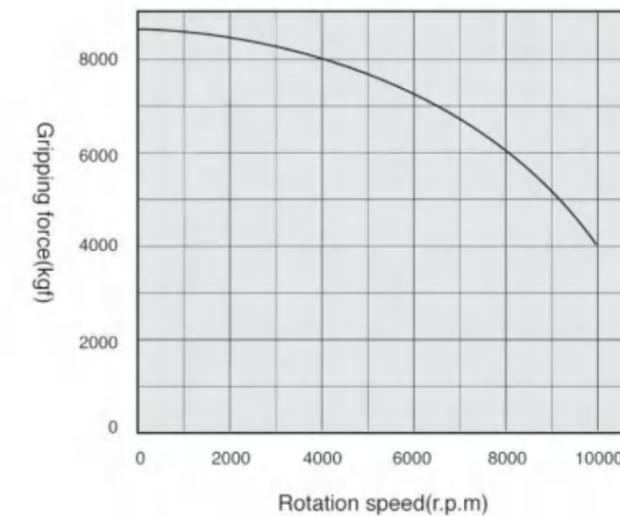
### 三爪超高速中空油壓夾頭 (含連接板)

### 3-JAW EXTRA HIGH SPEED THROUGH-HOLE POWER CHUCK(ADAPTER INCLUDED)



- 最高回轉速可達10,000r.p.m。
- HN型夾頭係依ASA B5.9 A型主軸標準而設計。
- HN型夾頭採用高級合金鋼材質，所有滑動面均經表面硬化及研磨處理，以提高回轉精度及耐久性。
- Possible 10,000 r.p.m. highest speed chuck.
- Model HN chucks are assembled with adaptor for ASA B5.9 type A spindles.
- Model HN chucks are manufactured from high grade alloy steel. All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.

GRIPPING CHARACTERISTIC GRAPH



單位:mm

型式 Model	通孔直徑 Through hole dia. (mm)	拉桿行程 Plunger Stroke (mm)	爪行程(直徑) Jaw stroke dia. (mm)	最大容許拉力 Max DB Pull (Kgf)	最大夾持力 Max clamping force (kgf)	最大使用油壓力 (Kgf/cm <sup>2</sup> ) Max Oil Pressure	最高轉速 Max r.p.m	重量 Weight (kg)	慣性矩 Kg·m <sup>2</sup>	適合油壓缸 Matched cylinders	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
HN-06	Ø36	12	5.5	30(3050)	79.4(8100)	2.9(30)	10000	11.5	0.035	HG-1336	Model-A	Ø14-Ø51

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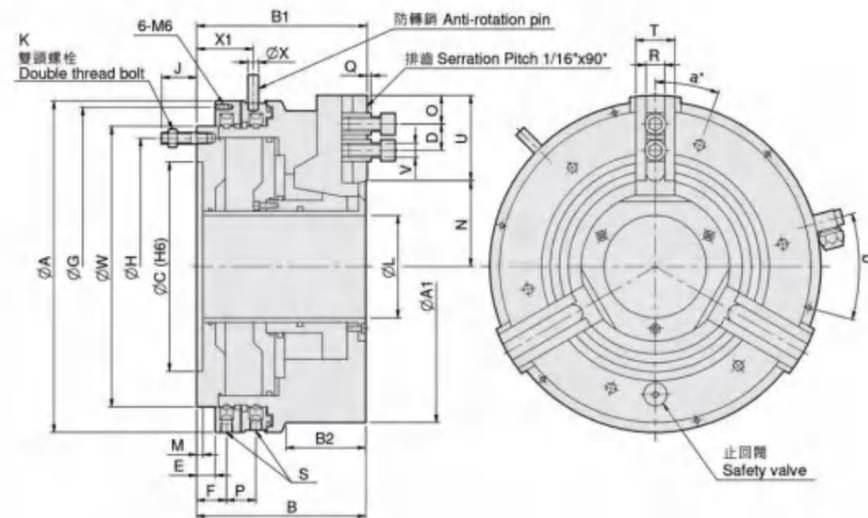
## > SB-ES SERIES

### 氣壓式動力夾頭

### PNEUMATIC POWER CHUCK



- 普遍用于車床及轉盤上
- 適用外徑夾持之氣壓夾頭其內含氣缸結構
- 具快速及夾持兩段式爪行程
- Commonly used on lathes and turntables.
- Suitable for Pneumatic chuck of outer diameter clamping that contains a structure of pneumatic cylinder.
- Possess the feature of fast and clamping with two-stage jaw stroke.



單位:mm

型式 Model	通孔直徑 Through hole dia. (mm)	總爪行程 Total Jaw Stroke (mm)	快速爪行程 Fast Jaw Stroke (mm)	夾持爪行程 Clamping Jaw Stroke (mm)	活塞面積 Piston Area (cm <sup>2</sup> )	使用壓力 Operating Pressure Min.-Max. (bar)	夾持力* Gripping* Force (kn)	最高轉速 Max r.p.m	重量 Weight (kg)	慣性矩 Kg*m <sup>2</sup>	空氣消耗量* Air* Consumption (L)	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
350-115	115	15	10	5	486	2-10	88	2200	104	1.82	13.5	SB350	SB350	Ø30-Ø360

● 當使用壓力6bar時

型式 Model	A	A1	B	B1	B2	C	D max./min.	E	F	G	H	J	K	L	M	N max./min.	O min.	P	Q	R	S	T	U	V	W	X	X1	a*	b*
350-115	372	360	190	191.5	92	235	64/28	21	33.5	358	290.5	39.5	6-M12	115	6.5	100/85	12	33	3	21	G1/4"	44	92	M16	315	12	61	20	15

● 保留技術更改的權利，恕不另行通知 Subject to technology changes without prior information  
● 非標需求可訂做 Non-standard requirements can be made

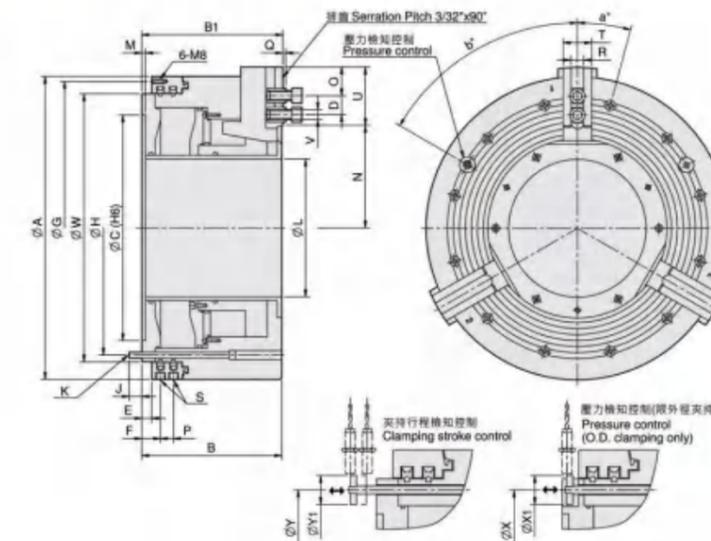
## > PB-ES SERIES

### 氣壓式動力夾頭

### PNEUMATIC POWER CHUCK



- 適用外徑夾持之氣壓夾頭其內含氣壓缸結構。
- 具快速及夾持兩段式爪行程。
- 具夾持時內部壓力檢知。
- 具夾持行程檢知。
- Suitable for Pneumatic chuck of outer diameter clamping that contains a structure of pneumatic cylinder.
- Possess the feature of fast and clamping with two-stage jaw stroke.
- Can check up the internal pressure during clamping.
- Can check up clamping stroke.



單位:mm

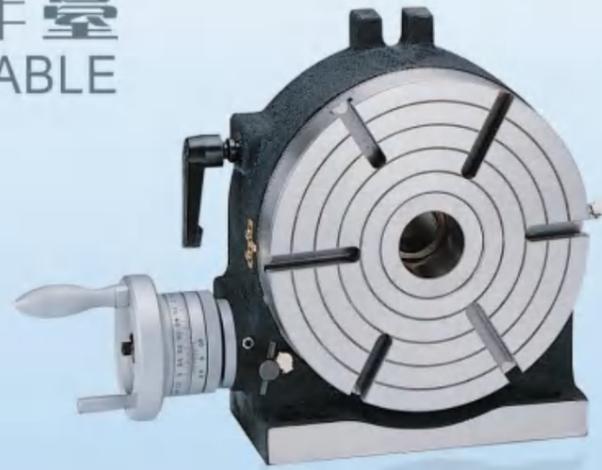
型式 Model	通孔直徑 Through hole dia. (mm)	總爪行程 Total Jaw Stroke (mm)	快速爪行程 Fast Jaw Stroke (mm)	夾持爪行程 Clamping Jaw Stroke (mm)	活塞面積 Piston Area (cm <sup>2</sup> )	使用壓力 Operating Pressure Min.-Max. (bar)	夾持力* Gripping* Force (kn)	最高轉速 Max r.p.m	重量 Weight (kg)	慣性矩 Kg*m <sup>2</sup>	空氣消耗量* Air* Consumption (L)	適合硬爪 Matched HJ	適合生爪 Matched HC	外徑夾持範圍 Clamping range (mm)
600-275	275	25.4	16.9	8.5	954	2-10	180	1100	360	20.6	39.5	PB600	PB600	Ø135-Ø275
850-375	375	25.4	13.4	12	1342	2-10	250	750	980	110	68	PB850	PB850	Ø115-Ø375

● 當使用壓力6bar時

型式 Model	A	B	B1	C	D max./min.	E	F	G	H	J	K	L	M	N max./min.	O min.	P	Q	R	S	T	U	V	W	X	X1	Y	Y1	a*	b*
600-275	605	280	282	450	79/38	20	37	585	508	25	12-M12	275	8	204.6/179.2	14	26	3	25.5	G1/2	57	116.5	M20	535	508	35	508	35	15	60
850-375	850	352	354	700	140/47	25	44.5	830	745	30	12-M16	375	8	268/242.6	16	33	4	30	G1/2	75	182	M24	775	745	35	745	35	15	60

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## N 旋轉工作臺 C ROTARY TABLE



## P 氣動虎鉗 NEUMATIC VISE

### 立卧兩用分度盤 HORIZONTAL AND VERTICAL ROTARY TABLE

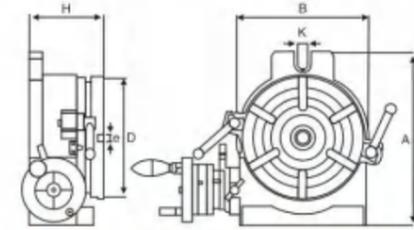
型号: HV-150, 200, 250, 300, 350, 400



- 此分度圆盘经360度重复定位研磨，以增加其精度；蜗轮经热处理以增加其延展性，蜗轮比为90:1。
- 转动手轮一圈，分度圆盘转动4度。
- The work table is graduated 360 degree around its circumference and driven by a precision Worm and gear providing a 90:1 reduction ratio.
- One turn of the handle moves the table through 4 degrees. The dial is graduated in division of 1 min. and the vernier scale allows reading down to 10 seconds.
- The worm is hardened and precision ground to minimize wear out of the worm gear.
- Both the upper and the lower surface of the rotary plates are precision ground.



- 选购配件  
Operational accessories
- 尾座 Tailstock
  - 蜂巣板 Dividing plate set
  - 三爪 3-jaw chuck

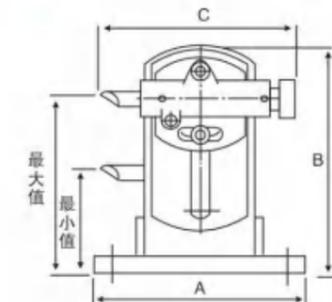


规格表

型号 Model	圆盘 Table		底座 Base		固定溝槽 Bolt Slot	T型溝槽 T Slot	中心軸套 Center Sleeve	蜗輪比 Worm gear Ratio	立式承載力 Vertical Loading	卧式承載力 Horizontal Loading	重量 (kg) Weight
	D	H	A	B	K	e					
HV-150	150	92	220	160	18	11	⊗	MT-2	20	39	13
HV-200	200	120	310	225	18	13	⊗	MT-3	44	87	29
HV-250	250	120	320	280	18	13	⊗	MT-3	62	123	41
HV-300	300	140	410	325	18	16	⊗	MT-4	98	195	65
HV-350	350	140	460	380	18	16	⊗	MT-4	147	294	98
HV-400	400	140	510	435	18	16	⊗	MT-5	195	390	130

### HV專用尾座 HV SPECIAL TAILSTOCK

型号: TS-1, 2, 3



规格表

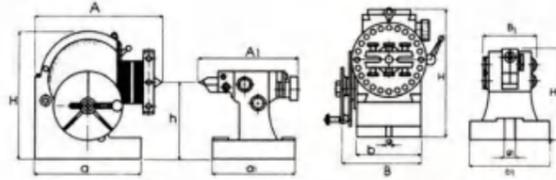
型号 Model	適用型號 Matched table	A	B	C	中心高 Center height		重量 (kg) Weight
					最大值 Max	最小值 Min	
HV-150TS	HV-150	127	110	166	113	100	5
TS-1	HV-200/HV-250	230	247	210	190	110	13
TS-2	HV-300	230	280	210	220	140	15
TS-3	HV-350/HV-400	230	330	210	264	184	17



## 分度頭 SEMI-UNIVERSAL DIVIDING HEAD



OPTIONAL ACCESSORY:  
3-jaw chuck: 4" or 5" 3-jaw Chuck for BS-0, 5" or 6" 3-jaw  
Chuck for BS-1



Unit:mm

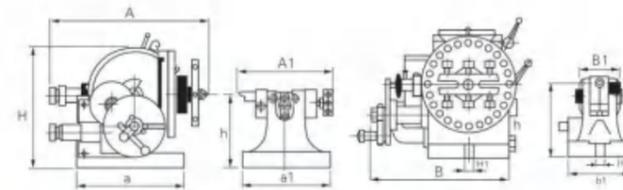
型號 Model	A	B	H	h	a	b	g	中心孔 Center	軸孔徑 Dia. of spindle hole	重量 N.W
BS-0	196	133	173	100	160	91	16	25	16	22
BS-1	253	163	220	126	207	114	16	25	20	36

型號 Model	A1	B1	H1	h	a1	b1	g1
BS-0	182	82	123	100	155	110	16
BS-1	182	82	133	126	155	110	16

## 萬能分度頭 UNIVERSAL DIVIDING HEAD



OPTIONAL ACCESSORY:  
3-jaw chuck: 6" or 7" 3-jaw Chuck for BS-2



Unit:mm

型號 Model	A	B	H	h	a	b	g	中心孔 Center	軸孔徑 Dia. of spindle hole	重量 N.W
BS-2	365	272	236	135	213	134	16	25	25.4	73

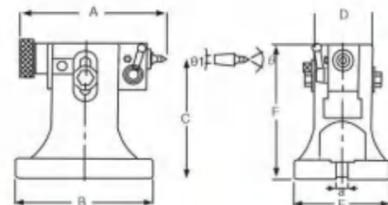
型號 Model	A1	B1	H1	h	a1	b1	g1
BS-2	182	88	156	135	175	124	16

## 多功能尾座 UNIVERSAL TAIL STOCK



### 特點:

- 1、多功能尾座，係集多種尾座之特點設計而成，使用方便，結構穩固經久耐用，可替代各型式尾座使用。
- 2、尾座採用可調式裝置，可隨心所欲，方便調整上下高度，輕而易舉。
- 3、頂針與主軸採用分離式，可配合替換各種類型頂針使用，（附標準頂針一支）可適用任何心軸，或不同類型之加工，為其他廠牌所不及。



### FEATURES:

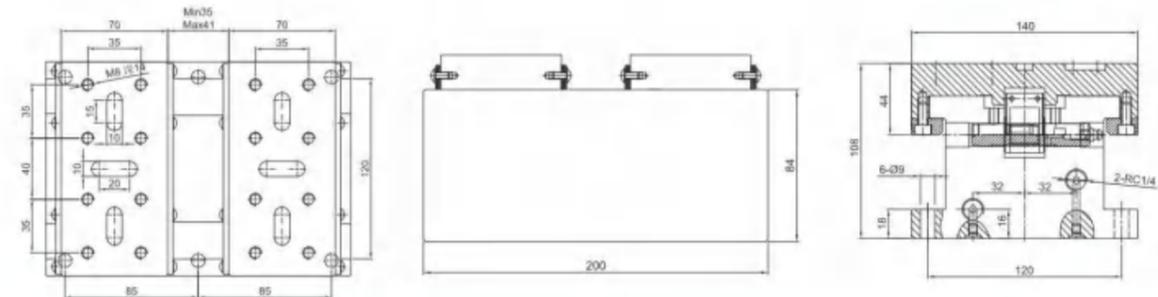
1. The multifunction tail stock adopts the merits of various tail stock's design. It is convenient for using, sturdy and durable. It can replace other tail stocks.
2. The top-bar and main shaft are separate. Users can use other top-bars. (we attach a standard top bar). It is suitable for any axes or various processing types. This design of our machine is better than those of other machines.

Unit:mm

型號 Model	A	B	最高 HIGHEST	C	最低 LOWEST	D	E	F	a	b1	g	重量 N.W
TS-6"	192	180	170	155	140	76	126	175	16	10'	60'	9
TS-8"	192	180	195	180	165	76	126	200	16	10'	60'	10

## OC液壓同步夾具 OC HYDRAULIC SYNCHRONIZATION CHUCK

- ◎ 可用於CNC數控機床工作臺。及自動化裝夾系統。
- ◎ 自定心高精度同步夾持
- ◎ It's suitable for working on CNC machinery or automatic clamping system.
- ◎ It's Self centering synchronization clamping o get high precision positioning.



規格 Spec	型號 Model	頂針行程 Plunger stroke (mm)	爪行程(直徑) Jaw stroke(Dia) (mm)	許用最大拉力 Max pulling force KN(Kgf)	最大夾持力 Max clamping force KN(Kgf)	最大使用壓力 Max pressure Mpa(Kgf/cm2)
OC-140		13	6	12.3(1250)	35.4(3610)	2.9(29)

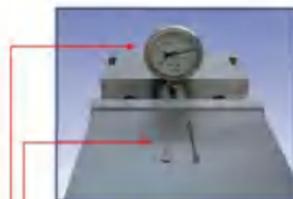
## MC增壓器型超高壓快速虎鉗 MC PRECISION SUPER HI-PRESSURE RAPID VICE

(全國第一臺增壓馬達虎鉗) 非一般氣壓缸型結構  
The first reinforced motor vice (Non-common pneumatic cyl. structure) in Taiwan.

新產品  
NEW PRODUCT

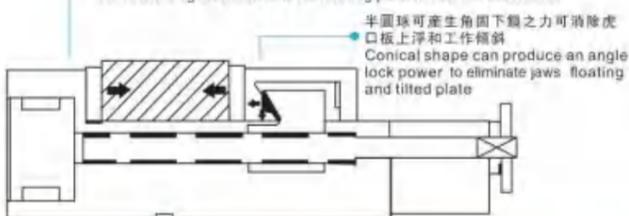


內藏空壓馬達 (專利結構)  
Emersed pneumatic motor (PAT.structure)

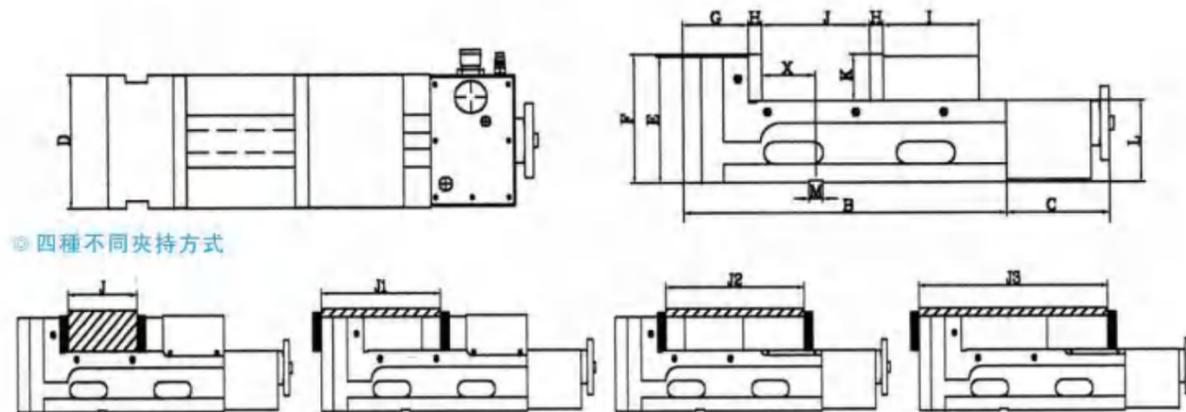
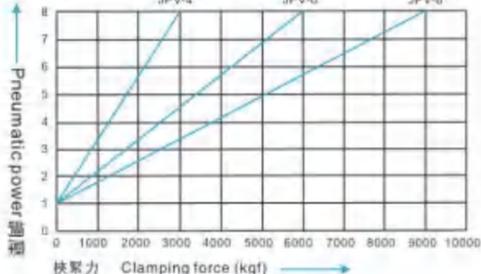


唯有自動補壓功能才能將鐵釘夾成扁平狀  
Only way to press flat type nails is the automatic pressure compensate system  
8kg/cm<sup>2</sup>之低壓源, 即可達9000kgf之超高夾持力  
8kg/cm<sup>2</sup> low pressure former can holding very high force up to 9000kgf.

前置出力可產生雙向力減少本體變形使工件更加精準  
Forward output pressure can product two-way power for reducing main body from becoming deformed and the working parts will be more accurate.



半圓球可產生角回下壓之力可消除虎口板上浮和工作傾斜  
Conical shape can produce an angle lock power to eliminate jaws floating and tilted plate



型號 Model	A	B	C	D	E	F	G	H	I	J	J1	J2	J3	件	L	M	X	夾持力 Gripping	淨重 N.W. (kg)	毛重 G.W. (kg)
JPV-4*100	435	320	125	100	145	148	85	15	100	0-100	95-220	100-200	200-300	48	100	16	45	3200	27	29
JPV-5*150	505	380	125	130	157	160	85	15	110	0-150	95-250	110-275	200-380	55	105	18	45	6000	38	40
JPV-6*180	525	400	125	160	160	163	85	15	120	0-160	95-260	120-295	210-400	58	105	18	45	6000	48	50
JPV-6*250	615	490	125	160	160	163	85	15	120	0-250	95-350	120-395	210-490	58	105	18	45	6000	52	55
JPV-7*200	585	460	125	180	170	173	90	18	130	0-200	100-300	130-350	220-460	63	110	18	72	9000	65	72
JPV-8*200	595	470	125	200	170	173	90	18	140	0-200	100-310	140-360	230-470	63	110	18	72	9000	70	80
JPV-8*300	695	570	125	200	170	173	90	18	140	0-300	100-410	140-460	230-570	63	100	18	72	9000	79	90

### ◎ 本產品已獲美國發明專利, 臺灣, 大陸等多國多項專利

本虎鉗原理是 用自行研發之往復式空氣馬達 (專利結構), 以氣壓連續推動油路方式, 來達成自動化, 且不需三點組合來過濾水氣, 其特性絕對為全國所僅有甚而超越國外任何廠牌。

### ◎ 超高夾持力

空氣源8kg/cm<sup>2</sup>之低壓源, 即可達9000kgf之超高夾持力, 而夾持力從0-900kgf可藉由調壓器自由調整設定。

### ◎ 自動尋找最高氣壓源

當銅鋁類材料加工或鑄鐵類初胚重切削時, 用調壓器設定在所需壓力, 也不會因空氣源在低點而失壓, 而且有自動補壓及穩壓之功能, 以確保工件之夾持。

### ◎ 最大夾持安全距離

開關速度只需1.5秒, 夾持安全距離可達8mm, 並設有手輪安全線, 可輕易由肉眼辨識出工件夾持之安全距離, 是否超限

### ◎ 立、側、臥三用

定寸規格, 本體六面磨光並預留壓板槽, 不需治具板, 即可直立加工。

### ◎ 超高材質

虎鉗本體材質採用高延展性之石墨鑄鐵 (FCD-60) 一體成型設計。兩側滑軌經硬化熱處理 (HRC-45), 確保高精度, 高耐磨, 高抗張力。

### ◎ 內藏角回下壓結構

### ◎ This Product Is The Exclusive Patent Authorized By U.S.A, Taiwan And P.R.C

The principle of this vice is adopting the reciprocating pneu. motor (PAT.structure) which P & D by inhouse and that employs an air actuated cylinder. Circuited progressively to make automation, no need the R.F.L unit to filter the moisture, the sole character is superior than any brand in domestic & international market.

### ◎ Super hi-gripping force

Even the air source at low pressure 8kg/cm<sup>2</sup> which can be achieved super hi-gripping force 9000kgf, and the 0~9000kgf gripping force can be adjusted freely by pressure regulator.

### ◎ Seeking the highest air source automatically

When processed copper, aluminium etc. non-iron workpiece or raw cast iron etc., making heavy cutting which can be made adaptable gripping force to ensure work piece clamping and with auto compensating & retaining pressure etc., functions.

### ◎ The biggest safety clamping range:

The shifting speed is only 1.5 sec. with safety range :8mm, also equipped with safety line on hand wheel and can be visible the clamped work piece safety range is exceeded or not.

### ◎ Triple usage of vertical, side, horizontal:

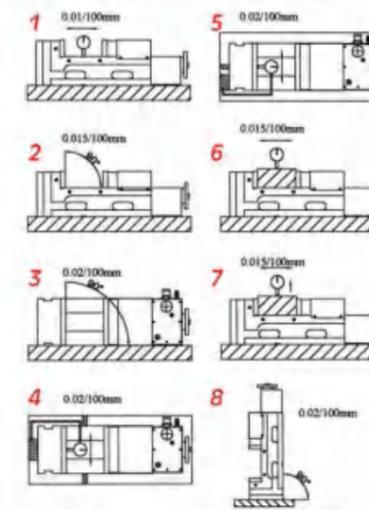
Six faces of vice body be super grinding & pre-setting holding slot, and can be processed vertically without jig fixture.

### ◎ Super rugged material:

The vice body is adopted hi-tensile graphite casting iron (FCD-60), one piece design and harden heat-treatment (HRC45) at two slide way which ensured hi-precision, hi-durability & hi-tensile.

### ◎ Submersed angle fixed pressed down structure:

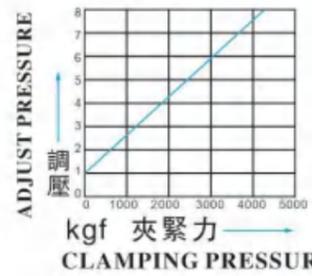
項次 NO.	檢查事項 INSPECTION ITEMS	100mm	容許可 GUARANTEED
1	虎鉗底部與滑動面平行度		0.01mm
2	夾爪端面與底部之垂直度		0.015mm
3	側邊與滑道面之垂直度		0.02mm
4	鉗口面對本座底面T型槽的平行度		0.02mm
5	鉗口面對本座底面T型槽的垂直度		0.02mm
6	測試塊夾緊後其上面對本座底面之平行度		0.02mm
7	測試塊夾緊後對本座底面之上浮量		0.015mm
8	本座直面對底面之直角度		0.02mm



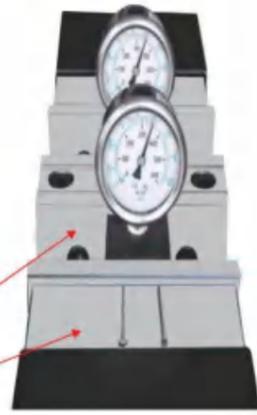
## MC增壓器型自動雙夾虎鉗 MC SUPER HI-PRESSURE DOUBLE VICE



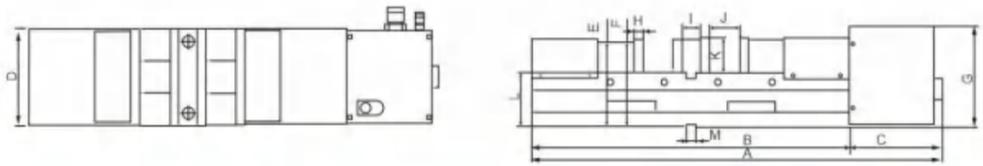
新產品  
NEW PRODUCT



8kg/cm<sup>2</sup> 之低壓源，即可達4000kgf之超高夾持力  
Only need 8kg/cm<sup>2</sup> of low air pressure source to achieve 4000kgf of super high gripping force.



唯有自動補壓功能才能將鐵釘夾成扁平狀  
By using automatic pressure compensate system to press nails into a flat type.



型號 Model	A	B	C	D	E	F	G	H	I	J	K	L	M	夾持力 Gripping force kgf	淨重 NW(Kg)	毛重 GW(Kg)
JPS-6"-100	682	530	152	160	145	148	168	15	30	0-100	58	90	18	4000	63	66

本虎鉗原理是采用自行研發之往復式之空壓馬達（專利結構），以氣壓連續推動油路方式，來達成自動化，且不需三點組合來過濾水氣，其特性絕對為全國所僅有，甚至超越國內外任何品牌。

- ◎ **超高夾持力**  
空壓源8kg/cm<sup>2</sup> 之低壓源，即可達4000kgf之超高夾持力，而夾持力從0-4000kgf可借由調壓器自由調整設定。
- ◎ **自動尋找最高空壓源**  
當銅鋁類產品輕加工或鑄鐵類毛坯重切削時，用調壓器設定至所需壓力，也不會因空壓源在低點而失壓，而且有自動補壓及穩壓之功能，以確保工件之夾持。
- ◎ **最大夾持安全距離**  
開關速度只需1.5秒，手自動雙夾結構，自動調整並同時夾持5mm以內兩個大小不同之工件。
- ◎ **超高材質**  
虎鉗本體材質採用高延展性之石墨鑄鐵（FCD 60）一體成型設計，兩側滑軌經硬化熱處理（HRC 50），確保高精度，高耐磨，高抗張力。
- ◎ **內藏角固下壓結構**  
內藏角固下壓半圓球可產生角固下鎖之力可消除虎口板上浮和工作傾斜。

This outstanding vice is adopted the reciprocating pneu. motor(PAT. structure) which is researched and developed by ourselves to push oil circuit in an air pressure actuating manner, thus obtaining automation without the R.F.L unit to filter the moisture. So, such a characteristic is unique and distinctive in domestic and international market.

- ◎ **Super high gripping force**  
Only need 8kg/cm<sup>2</sup> of low air pressure source to achieve 4000kgf of super high gripping force, and this gripping force can be adjusted within 0-4000kgf by using a pressure regulator.
- ◎ **Find the highest air pressure point automatically**  
When processing copper, aluminum or heavy machining raw cast iron workpiece, the pressure regulator can be set at a desired pressure without losing pressure, besides, the gripping force can be kept to clamp the workpiece securely by auto compensating and pressure stabilizing functions
- ◎ **The biggest safety clamping range**  
The shifting speed is only 1.5 second, the double vise mechanism can be adjusted automatically and can simultaneously clamp two different workpieces in less than 5mm of size.
- ◎ **Super rigid material**  
The body of the vice is integrally made of high tensile graphite casting iron(FCD 60) and is harden by heat treatment (HRC 50) at its two slide way, thereby ensuring high precision, high durability and high tensile.
- ◎ **Submersed angle fixed pressed down structure**  
Submersed angle pressed structure in a semi-sphere shape to produce an angle lock power, thus preventing the cutting plate from movement.

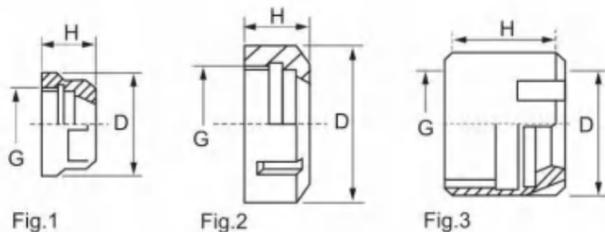
## ER筒夾及配件 ER COLLET AND ACCESSORIES



## >ER SERIES

### 配件-ER螺帽

### Clamping Nut

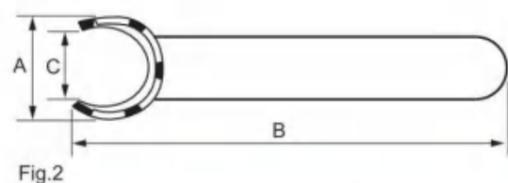
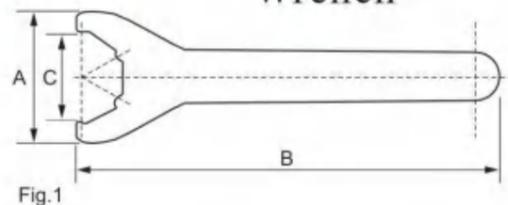


Model No.	D	H	G	Fig.
ER11	19	13	M14 x P 0.75	1
ER16	28	17.5	M22 x P 1.5	1
ER20	34	19	M25 x P 1.5	1
ER25	42	20	M32 x P 1.5	2
ER32	50	22.5	M40 x P 1.5	2
ER40	63	29	M50 x P 1.5	2
ER11M	16	12	M13 x P 0.75	3
ER16M	22	18	M19 x P 1.0	3
ER20M	28	19	M24 x P 1.0	3



### ER扳手

### Wrench



Model No.	A	C	B	Fig.
NCH-ER40	90	58	289	1
NCH-ER32	75	46.5	253	1
NCH-ER25	65	37	206	1
NCH-ER20	28.5	15.5	129	1
NCH-ER16	22.5	12.5	117	1
NCH-ER11	17	8.5	95	1
NCH-ER16M	45	25	137	2
NCH-ER20M	54	30	162	2



## >ER SERIES

### 彈性筒夾

精度5 μ  
Integrated precision  
5 μ



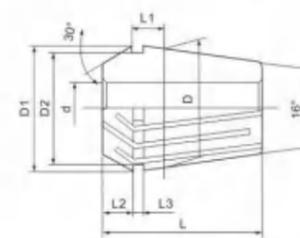
高精度5 μ 筒夾表面塗層外觀特點:

- ◎ 防銹蝕
- ◎ 提高表面硬度、耐磨性
- ◎ 清潔度更好，精度穩定
- ◎ 表面更光滑，手感舒適，外觀更漂亮

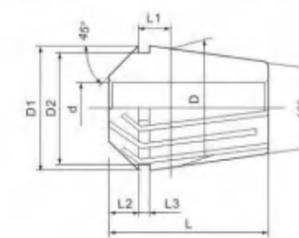
Advantage:

- ◎ Anti-rustZ
- ◎ Wear-resisting and Surface hardness improved.
- ◎ Precision stability, good cleaning.
- ◎ Smooth surface, Beautiful appearance.

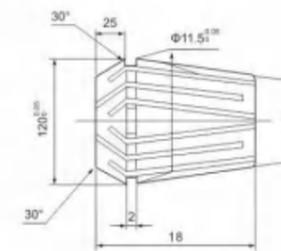
- ◎ 材質: JIS-SUJ2
- ◎ 硬度: 46-50HRC 高精度 High Accuracy
- ◎ Material: JIS-SUJ2
- ◎ Hardness: 46-50HRC
- ◎ 廣泛應用於鏜、銑、鑽、攻絲、磨、雕刻等加工。
- ◎ Suitable for boring, milling, drilling, tapping, grinding, carving processing.



ER11-ER50



ER8

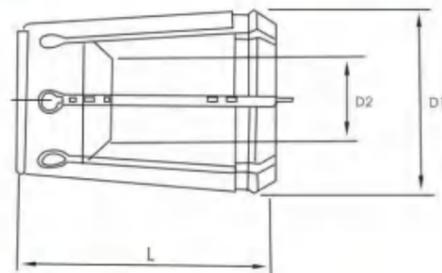


ER12

型號 Model No.	dH7	D	D1	D2	L	L1	L2	L3	彈性收縮量 Collapsible Capacity
ER8	1.0-5.0	8	8.45	6.5	13.5	2.98	1.5	1.2	0.5
ER11	1.0-7.0	11	11.5	9.5	18	3.8	2.5	2	0.5
ER16	1.0-2.5	16	17	13.8	27.5	6.26	4	2.7	0.5
	>2.5-10.0	16	17	13.8	27.5	6.26	4	2.7	1
ER20	1.0-2.5	20	21	17.4	31.5	6.36	4.8	2.8	0.5
	>2.5-13.0	20	21	17.4	31.5	6.36	4.8	2.8	1
ER25	1.0-2.5	25	26	22	34	6.66	5	3.1	0.5
	>2.5-16.0	25	26	22	34	6.66	5	3.1	1
ER32	2.0-2.5	32	33	29.2	40	7.16	5.5	3.6	0.5
	>2.5-20.0	32	33	29.2	40	7.16	5.5	3.6	1
ER40	3.0-26.0	40	41	36.2	46	7.66	7	4.1	1
ER50	6.0-10.0	50	52	46	60	12.6	8.5	5.5	1
	>10.0-34.0	50	52	46	60	12.6	8.5	5.5	2



- 特點:
- ◎ 材質:1 SUJ2
  - ◎ 硬度:HRC 46
  - ◎ 斜度:8
  - ◎ 表面粗度Rz 2.5以內
  - ◎ 同心度按DIN標準全數檢驗.
  - ◎ 挾持範圍ER11=0.5mm
  - ◎ ER16,20,25,32,40=1mm
  - ◎ 內孔經過精密搪磨加工.



規格 / Specification 單位/UNIT:mm

ER11		ER16		ER20		ER25		ER32		ER40	
SET	13PCS	SET	10PCS	SET	12PCS	SET	15PCS	SET	18PCS	SET	23PCS
NO.	Range mm	NO.	Range mm	NO.	Range mm	NO.	Range mm	NO.	Range mm	NO.	Range mm
ER11-1	1.0-0.5	ER16-1	1.0-0.5	ER20-2	2.0-1.0	ER25-2	2.0-1.0	ER32-3	3.0-2.0	ER40-4	4.0-3.0
ER11-1.5	1.5-1.0	ER16-2	2.0-1.0	ER20-3	3.0-2.0	ER25-3	3.0-2.0	ER32-4	4.0-3.0	ER40-5	5.0-4.0
ER11-2	2.0-1.5	ER16-3	3.0-2.0	ER20-4	4.0-3.0	ER25-4	4.0-3.0	ER32-5	5.0-4.0	ER40-6	6.0-5.0
ER11-2.5	2.5-2.0	ER16-4	4.0-3.0	ER20-5	5.0-4.0	ER25-5	5.0-4.0	ER32-6	6.0-5.0	ER40-7	7.0-6.0
ER11-3	3.0-2.5	ER16-5	5.0-4.0	ER20-6	6.0-5.0	ER25-6	6.0-5.0	ER32-7	7.0-6.0	ER40-8	8.0-7.0
ER11-3.5	3.5-3.0	ER16-6	6.0-5.0	ER20-7	7.0-6.0	ER25-7	7.0-6.0	ER32-8	8.0-7.0	ER40-9	9.0-8.0
ER11-4	4.0-3.5	ER16-7	7.0-6.0	ER20-8	8.0-7.0	ER25-8	8.0-7.0	ER32-9	9.0-8.0	ER40-10	10.0-9.0
ER11-4.5	4.5-4.0	ER16-8	8.0-7.0	ER20-9	9.0-8.0	ER25-9	9.0-8.0	ER32-10	10.0-9.0	ER40-11	11-10
ER11-5	5.0-4.5	ER16-9	9.0-8.0	ER20-10	10.0-9.0	ER25-10	10.0-9.0	ER32-11	11-10	ER40-12	12-11
ER11-5.5	5.5-5.0	ER16-10	10.0-9.0	ER20-11	11-10	ER25-11	11-10	ER32-12	12-11	ER40-13	13-12
ER11-6	6.0-5.5			ER20-12	12-11	ER25-12	12-11	ER32-13	13-12	ER40-14	14-13
ER11-6.5	6.5-6.0			ER20-13	13-12	ER25-13	13-12	ER32-14	14-13	ER40-15	15-14
ER11-7	7.0-6.5					ER25-14	14-13	ER32-15	15-14	ER40-16	16-15
						ER25-15	15-14	ER32-16	16-15	ER40-17	17-16
						ER25-16	16-15	ER32-17	17-16	ER40-18	18-17
								ER32-18	18-17	ER40-19	19-18
								ER32-19	19-18	ER40-20	20-19
								ER32-20	20-19	ER40-21	21-20
										ER40-22	22-21
										ER40-23	23-22
										ER40-24	24-23
										ER40-25	25-24
										ER40-26	26-25

規格 / Specification 單位/UNIT:mm

型號 MODEL	D1	L	PCS/SET	數量/組(規格) D.RANG SIZE	淨重 N.W.(kg)
ER11	11.5	18	13pcs	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	0.3
			7pcs	1,2,3,4,5,6,7.	0.2
ER16	17	27	10pcs	1,2,3,4,5,6,7,8,9,10	0.7
			8pcs	3,4,5,6,7,8,9,10	0.6
ER20	21	31	12pcs	2,3,4,5,6,7,8,9,10,11,12,13	0.9
			10pcs	4,5,6,7,8,9,10,11,12,13	0.8
ER25	26	35	15pcs	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	1.3
			7pcs	4,6,8,10,12,14,16	0.35
ER32	33	40	18pcs	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	3.3
			11pcs	4,5,6,8,10,12,13,15,16,18,20	2.8
ER40	41	46	6pcs	6,8,10,12,16,20	0.9
			23pcs	4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	6.5
			15pcs	4,5,6,8,9,10,12,13,15,16,18,20,21,22,25,26	4.2
			7pcs	6,8,10,12,16,20,25	2

## > BT SERIES

### 螺栓拉頭

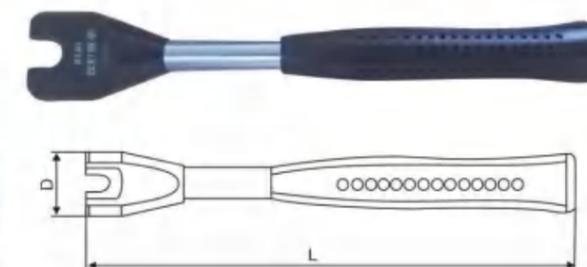
SPEC. MODEL	D	d1	d2	d3	L	l1	T	重量 (KGS)
BT30-45'	16.5	11	7	12.5	43	23	M12	0.04
BT40-45'	23	15	10	17	60	35	M16	0.10
BT50-45'	38	23	17	25	85	45	M24	0.30
BT30-60'	16.5	11	7	12.5	43	23	M12	0.04
BT40-60'	23	15	10	17	60	35	M16	0.10
BT50-60'	38	23	17	25	85	45	M24	0.30
BT30-90'	16.5	11	7	12.5	43	23	M12	0.04
BT40-90'	23	15	10	17	60	35	M16	0.10
BT50-90'	38	23	17	25	85	45	M24	0.30



### BT30/40/50拉釘扳手

#### SPANNER FOR STUD

型號 Model	D	L	適用拉釘 Whereused
ZYWB-30	27	210	BT30
ZYWB-40	37	230	BT40
ZYWB-50	49	280	BT50



## > ER SERIES

### 直柄立銑刀刀杆

- 特點:
- ◎ 照明點及切削液的供給可以到達加工部位
  - ◎ 採用SCM-21 鋼材制成,可用于精密加工

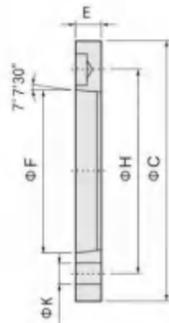


型號 MODEL	L1	L	D	Unit:mm
C20-ER16-50	50	30	28	
C20-ER16-100	100	30	28	
C20-ER16-150	150	30	28	
C20-ER20-50	50	36	34	
C20-ER20-100	100	36	34	
C20-ER25-50	50	46	42	
C20-ER25-100	100	46	42	
C20-ER25-150	150	46	42	
C25-ER16-100	100	30	28	
C25-ER16-150	150	30	28	
C25-ER20-150	150	36	34	
C25-ER25-100	100	46	42	
C25-ER25-150	150	46	42	
C25-ER32-80	80	54	50	
C25-ER40-100	100	55	63	
C32-ER25-60	60	46	42	
C32-ER32-100	100	54	50	
C40-ER40-100	100	55	63	
C40-ER32-100	100	54	50	
C40-ER40-100	100	55	63	

## > ADAPTERS SERIES

### 連接板

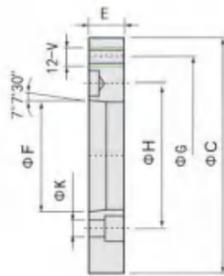
- ◎ 速接板適用短錐度主軸鼻端符合DIN55026
- ◎ Mounting adapters on short taper spindle noses DIN55026



連接板 / Type1:

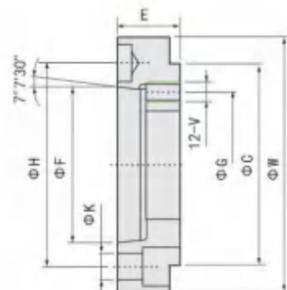
型號	主軸鼻端	C	F	H	K	E
5"	A4	110	63.513	82.55	3-11	15
6"	A5	140	82.563	104.78	6-11	15
8"	A6	170	106.375	133.35	6-13	17
10"	A8	220	139.719	171.45	6-17	18
15"	A11	300	196.869	235	6-21	22
24"	A15	380	285.775	330.2	6-25	27
32"	A11	300	196.869	235	6-21	22

連接板 / Type2:



型號	主軸鼻端	C	F	H	K	G	V	E
6"	A4	140	63.513	82.55	11	104.78	M10	20
8"	A5	170	82.563	104.78	11	133.35	M12	23
10"	A6	220	106.375	133.35	13	171.45	M16	25
15"	A8	300	139.719	171.45	17	235	M20	33
20"	A11	380	196.869	235	21	330.2	M24	41
24"	A11	520	196.869	235	21	463.6	M24	45
63"	A20	720	412.775	463.6	27	647.6	M30	50

連接板 / Type3:



型號	主軸鼻端	C	F	H	K	G	V	W	E
5"	A5	110	82.563	104.78	11	82.55	M10	128	32
6"	A6	140	106.375	133.35	13	104.78	M10	168	35
8"	A8	170	139.719	171.45	17	133.35	M12	208	40
12"	A11	220	196.869	235	21	171.45	M16	278	50
15"	A15	300	285.775	330.2	25	235	M20	378	57
24"	A20	380	412.775	463.6	26	330.2	M24	520	58

## 機床用液壓站

## HYDRAULIC POWER UNIT PACK FOR LATHE MACHINES

- ◎ 標準化設計，結構緊湊、流量大、低噪音、低能源、省空間、品質優良。
- ◎ 其高安全性可靠性可滿足機床領域的使用要求。
- ◎ 接受客制化與非標定制。
- ◎ Standard design, compact structure, large flow, lower noise and energy, good quality.
- ◎ The working safety can meet the requirement of machine tools industry.
- ◎ For the special and customized power unit pack order, it's acceptable.



### 液壓站規格參數表/Technical data:

序号 No.	液壓站型號 Hydraulic Unit model name	匹配卡盤回轉缸類型 Matched Chuck/Cylinder Spec.	電機功率 Motor Power	油泵排量 Bump output	電磁閥型號 Solenoid Valve Model	油箱容積 Tank Size
1	HS-1.5KW-40L	中實/中空8寸 Through hole or non through chuck/cylinder 8" spec or under	1.5KW 4P/380V/220V	SVPF-20-A2 (排量/output 15L/min)	DG4V-3-2C+MRP-01-B (減壓閥Pressure reducing valve)	40L
2	HS-1.5KW-60L	中實/中空10寸 Through hole or non through chuck/cylinder 10" spec	1.5KW 4P/380V/220V	SVPF-30-A2 (排量/output 23L/min)	DG4V-3-2C+MRP-01-B (減壓閥Pressure reducing valve)	50L

## 氣液組合增壓系統 AIR AND HYDRAULIC POWER UNIT PACK

- ◎ 本氣液增壓組合動力源為壓縮氣體，無需用電，節能環保，工作穩定，結構緊湊！
- ◎ 接受客制化與非標定制。
- ◎ This air-oil power unit pack power source is compacted air, no need electricity, so it's environmental and energy saving, its structure is integrated and working performance is stable.
- ◎ For the special and customized power unit pack order, it's acceptable.



為您提供專業制造品質**一流**的產品  
We provide you with professional manufacturing, high quality products

為您提供專業設計的**創新型**產品  
We provide you with professional design of innovative products

您的需求就是我們的**責任**  
Your need is our responsibility

### 氣液組合增壓基本參數/Technical data:

油箱的有效容積 Tank Volume	氣液增壓泵 Boost bump	氣壓工作壓力 Air working pressure	液壓工作壓力 Oil working pressure	氣液比例 Air-Oil ratio	系統流量 Unit flow	電磁閥 Solenoid	工作介質溫度範圍 Working medium temperature
15L	LH25-18F19014	0-0.6MPa	11MPa	1/19	2.5L/min	3C2-DC24V	10-60°C

