



**CHANDOX**  
ISO 9001 • CE



**CHANDOX**



千島精密工業股份有限公司  
彰化縣伸港鄉全興工業區工一路4號  
電話: 04-7978666(10線) / 傳真: 04-7978660

**CHANDOX PRECISION INDUSTRIAL CO., LTD.**  
No. 4, Gong 1st Rd., Shengang Shiang, Changhua County 509, Taiwan.  
Tel: 886-4-7978656 (3 lines) / Fax: 886-4-7978662 (OVERSEAS)  
<http://www.chandox.com> / E-mail: [chandox@chandox.com](mailto:chandox@chandox.com), [chandox@ms76.hinet.net](mailto:chandox@ms76.hinet.net)

經銷商



出版日期 / Edition 09, 2022

# CHANDOX

創立於1983年 ▲ Established in 1983



## 【三個理念】品質、設計、製造

- 千島提供品質第一的產品
- 千島提供設計創新的產品
- 千島提供專業製造的產品

## 【四個堅持】

- 我們堅持最優秀的人才
- 我們堅持最創新的技術
- 我們堅持最先進的設備
- 我們堅持最完善的環境

## 【Three concepts】 Quality, Design, Manufacture

- CHANDOX provides products of the best quality.
- CHANDOX provides products of innovative design.
- CHANDOX provides products of professional manufacture.

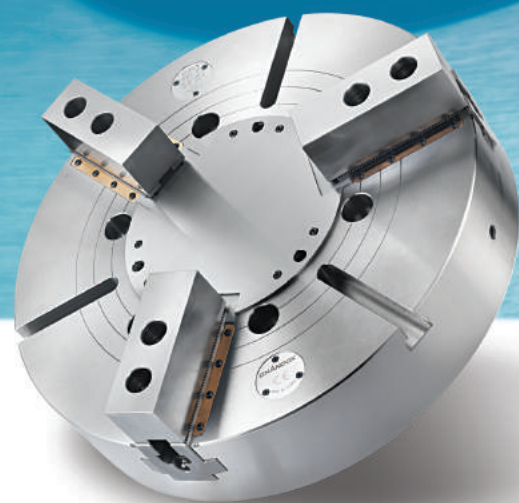
## 【Four insistences】

- We insist on the most outstanding human resources.
- We insist on the most innovative technology.
- We insist on the most advanced equipments.
- We insist on the most perfect manufacturing environment.

# CHANDOX

新產品 系列介紹 千島全系列產品均已投保產品責任險二百萬美金

NEW PRODUCT HIGHLIGHT All series of CHANDOX products have products liability insurance of US \$2,000,000.



## CL-DP

三爪中實油壓夾頭(大規格)  
3-JAW SOLID CHUCK WITH  
ANTI-CHIPS SEALED



## OPB

大孔徑三爪高速中空油壓夾頭  
LARGE THROUGH HOLE 3-JAW  
HIGH SPEED POWER  
CHUCKS



## P-S

大孔徑薄型中空油壓迴轉缸  
LARGE THROUGH HOLE THIN  
HOLLOW ROTARY HYDRAULIC  
CYLINDERS



## EL

中空超長行程油壓夾頭  
CRANK TYPE LONG JAW  
STROKE HOLLOW  
POWER CHUCKS



## RTS

迴轉氣壓夾盤  
(低扭矩)(含止逆閥)(可連續運轉)  
ROTARY AIR CHUCK FIXTURE  
(LOW TORQUE) (BUILT-IN CHECK  
VALVE) (CONTINUOUS ROTATING)



## IC,TB-IC

分度夾頭/油壓迴轉器  
INDEXING CHUCKS,  
HYDRAULIC FEED TUBE

## MB

大孔徑內藏式油壓夾盤  
LARGE THROUGH HOLE POWER  
CHUCK FIXTURE

## 模組化 治具氣壓夾盤

FIXTURE CHUCKS MODLE

## PLVE

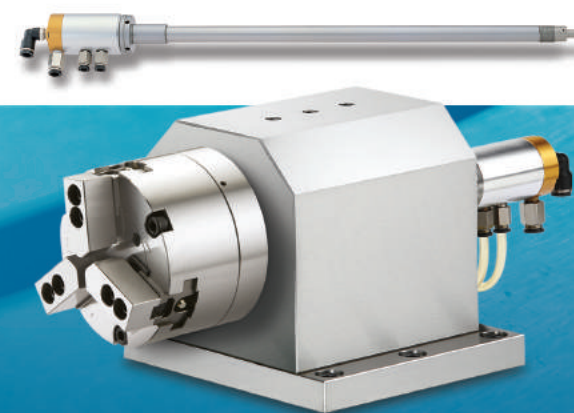
後拉式油壓夾盤  
PULL BACK POWER  
CHUCK FIXTURES

## TB

氣壓迴轉器  
AIR FEED TUBE

## SK

強力型三爪夾頭(大規格/大孔徑)  
3-JAW POWERFUL TYPE  
SCROLL CHUCKS



# INDEX

## 油壓夾頭系列 HYDRAULIC CHUCKS SERIES

**08 OPT**  
二爪高速  
中空油壓夾頭  
2-JAW HIGH SPEED  
HOLLOW POWER  
CHUCKS



**09 OP**  
三爪高速  
中空油壓夾頭  
3-JAW HIGH SPEED  
HOLLOW POWER  
CHUCKS



**10 OPF**  
四爪高速  
中空油壓夾頭  
4-JAW HIGH SPEED  
HOLLOW POWER  
CHUCKS



**11 OP-L**  
三爪中空長行程  
油壓夾頭  
3-JAW  
LONG STROKE  
HOLLOW POWER  
CHUCKS



**11 OPT-L**  
二爪中空長行程  
油壓夾頭  
2-JAW  
LONG STROKE  
HOLLOW POWER  
CHUCKS



**12 P**  
高速中空油壓迴轉缸  
SUPER HIGH  
SPEED HOLLOW  
ROTARY  
HYDRAULIC  
CYLINDERS



**13 F-S**  
薄型高速中空  
油壓迴轉缸  
HIGH SPEED  
COMPACT HOLLOW  
ROTARY  
HYDRAULIC  
CYLINDERS



**14 PA**  
超薄型高速中空  
油壓迴轉缸  
HIGH SPEED COMP  
ACT HOLLOW  
ROTARY  
HYDRAULIC  
CYLINDERS



**15 OPB**  
大孔徑三爪高速  
中空油壓夾頭  
LARGE THROUGH  
HOLE 3-JAW HIGH  
SPEED POWER  
CHUCKS



**16 OPBT**  
大孔徑二爪高速  
中空油壓夾頭  
LARGE THROUGH  
HOLE 2-JAW HIGH  
SPEED POWER  
CHUCKS



**16 OPBF**  
大孔徑四爪高速  
中空油壓夾頭  
LARGE THROUGH  
HOLE 4-JAW HIGH  
SPEED POWER  
CHUCKS



**17 P-S**  
大孔徑薄型  
中空油壓迴轉缸  
LARGE THROUGH  
HOLE THIN  
HOLLOW ROTARY  
HYDRAULIC  
CYLINDERS



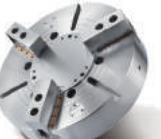
**18 CL**  
三爪中實油壓夾頭  
3-JAW SOLID  
POWER CHUCKS



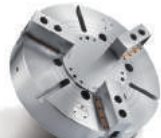
**18 CLT**  
二爪中實油壓夾頭  
2-JAW SOLID  
POWER CHUCKS



**19 CL-DP**  
三爪中實油壓夾頭  
3-JAW SOLID CHUCK  
WITH ANTI-CHIPS  
SEALED



**20 VL-DP**  
立車用中實油壓夾頭  
(含連結板)  
3-JAW SOLID CHUCK  
WITH ANTI-CHIPS  
SEALED & WATER-  
PROOF FLANGE  
PLATE FOR  
VERTICAL LATHE



**21 EL**  
三爪中空超長行程  
油壓夾頭  
CRANK TYPE LONG  
JAW STROKE  
HOLLOW POWER  
CHUCKS



**21 ELT**  
二爪中空超長行程  
油壓夾頭  
CRANK TYPE LONG  
JAW STROKE  
HOLLOW POWER  
CHUCKS



**22 PL**  
後拉式油壓夾頭  
PULL BACK  
POWER CHUCKS



**23 L**  
中實油壓迴轉缸  
SOLID ROTARY  
HYDRAULIC  
CYLINDERS



**24 L-R**  
中實油壓迴轉缸  
(注水型含止逆裝置)  
SOLID ROTARY  
HYDRAULIC  
CYLINDERS  
(WITH COOLANT  
CONNECTION & CHECK  
VALVE)



**25 L-RE**  
中實油壓迴轉缸  
(附止逆及檢知裝置)  
SOLID ROTARY  
HYDRAULIC  
CYLINDERS  
(BUILT-IN CHECK VALVE  
& SENSOR)



**26 L-RA**  
中實油壓迴轉缸  
(注氣型含止逆裝置)  
SOLID ROTARY  
HYDRAULIC  
CYLINDERS  
(WITH AIR CONNECTION  
& CHECK VALVE)



**26 L-RC**  
中實油壓迴轉缸  
(注水型含止逆裝置)  
SOLID ROTARY  
HYDRAULIC  
CYLINDERS  
(WITH COOLANT  
CONNECTION & CHECK  
VALVE)



**27 LS-RE**  
超薄型中實油壓迴轉  
缸(附止逆及檢知裝置)  
COMPACT SOLID  
ROTARY  
HYDRAULIC  
CYLINDER (BUILT-IN  
CHECK VALVE & SENSOR)



**27 LS-REA**  
注氣超薄型中實油壓  
迴轉缸(附止逆及檢知裝  
置)  
COMPACT SOLID  
ROTARY HYDRAULIC  
CYLINDER WITH AIR  
CONNECTION (BUILT-IN  
CHECK VALVE & SENSOR)



**28 CK**  
筒夾夾頭  
COLLET CHUCKS



**29 IC**  
分度夾頭  
INDEXING CHUCKS



**29 TB-IC**  
油壓迴轉器  
HYDRAULIC FEED  
TUBE



**30 PLVE**  
後拉式油壓夾頭  
PULL BACK  
POWER CHUCK  
FIXTURES  
(HYDRAULIC)



**31 ML**  
三爪中空長行程  
油壓夾盤  
3-JAW LONG  
STROKE HOLLOW  
POWER CHUCK  
FIXTURES



**31 MLT**  
二爪中空長行程  
油壓夾盤  
2-JAW LONG  
STROKE HOLLOW  
POWER CHUCK  
FIXTURES



**32 MEL**  
三爪中空超長行程  
油壓夾盤  
3-JAW CRANK TYPE  
LONG JAW STROKE  
HOLLOW POWER  
CHUCK FIXTURES



**32 MELT**  
二爪中空超長行程  
油壓夾盤  
2-JAW CRANK TYPE  
LONG JAW STROKE  
HOLLOW POWER  
CHUCK FIXTURES



**33 MO**  
內藏式中空油壓  
三爪夾盤  
3-JAW HOLLOW  
POWER CHUCK  
FIXTURES  
(HYDRAULIC)



**33 MOT**  
內藏式中空油壓  
二爪夾盤  
2-JAW HOLLOW  
POWER CHUCK  
FIXTURES  
(HYDRAULIC)



**34 MB**  
大孔徑內藏式  
油壓夾盤  
LARGE THROUGH  
HOLE POWER  
CHUCK FIXTURE  
(HYDRAULIC)



## 氣壓夾盤系列 PNEUMATIC CHUCKS SERIES

**35 MD**  
內藏式前鎖型  
三爪氣壓夾盤  
(單活塞)  
3-JAW AIR CHUCKS  
FIXTURE  
(SINGLE PISTON)



**35 MD-M**  
內藏式前鎖型  
三爪氣壓夾盤  
(單活塞)  
3-JAW AIR CHUCKS  
FIXTURE  
(SINGLE PISTON)



**36 MFR**  
內藏式前鎖型  
三爪氣壓夾盤  
(雙活塞)  
3-JAW AIR CHUCKS  
FIXTURE  
(DOUBLE PISTON)



**36 MFR-M**  
內藏式前鎖型  
三爪氣壓夾盤  
(雙活塞)  
3-JAW AIR CHUCKS  
FIXTURE  
(DOUBLE PISTON)



**37 TK**  
三爪超精密氣壓夾頭  
3-JAW SUPER  
PRECISION AIR  
CHUCKS



**37 TK-T**  
二爪超精密氣壓夾頭  
2-JAW SUPER  
PRECISION AIR  
CHUCKS



**38 MTK**  
內藏式超精密  
三爪氣壓夾盤  
3-JAW SUPER  
PRECISION AIR  
CHUCK FIXTURES



**38 MTK-T**  
內藏式超精密  
二爪氣壓夾盤  
2-JAW SUPER  
PRECISION AIR  
CHUCK FIXTURES



**39 TB, TBW**  
氣壓迴轉器  
AIR FEED TUBE  
氣壓迴轉器(注水型)  
AIR FEED TUBE  
(FOR GRINDER  
MACHINES)



**39 MTB**  
氣壓迴轉器  
AIR FEED TUBE



**39 TB-HA**  
油壓迴轉器  
(含檢知裝置)  
HYDRAULIC  
FEED TUBE  
(BUILT-IN SENSOR)



**40 ADP, FR**  
連結盤  
MOUNTING PLATES  
超精密生爪成型盤  
FORMING RINGS  
(FOR SOFT JAWS OF  
SUPER PRECISION AIR  
CHUCKS)



**41 RT**  
三爪迴轉氣壓夾盤  
(間歇性運轉)  
3-JAW ROTARY AIR  
CHUCK FIXTURE  
(INTERMITTENT  
OPERATION)



**42 RTS**  
三爪迴轉氣壓夾盤  
(低扭矩)(含止逆閥)(可連續運轉)  
3-JAW ROTARY AIR  
CHUCK FIXTURE  
(LOW TORQUE)  
(BUILT-IN CHECK VALVE)  
(CONTINUOUS ROTATING)



**42 RTS-T**  
二爪迴轉氣壓夾盤  
(低扭矩)(含止逆閥)(可連續運轉)  
2-JAW ROTARY AIR  
CHUCK FIXTURE  
(LOW TORQUE)  
(BUILT-IN CHECK VALVE)  
(CONTINUOUS ROTATING)



**43 MA**  
兩軸自動求心  
氣壓夾盤  
2 ACTUATING AXES  
SELF-CENTERING  
SOLID AIR CHUCK  
FIXTURES



**44 MR**  
三爪氣壓夾頭  
3-JAW AIR CHUCKS



## 零組件系列 PARTS & ACCESSORIES

**45 SJ**  
油壓生爪  
SOFT JAWS  
( SJ-SERIES ) FOR  
HYDRAULIC  
CHUCKS



**45 HJ**  
油壓硬爪  
HARD JAWS  
( HJ-SERIES ) FOR  
HYDRAULIC  
CHUCKS



**46 S**  
後拉式夾頭專用生爪  
SOFT JAWS FOR  
PULL BACK POWER  
CHUCKS



**46 J**  
連結盤  
MOUNTING PLATES



# INDEX

## 手動夾頭系列 SCROLL CHUCKS SERIES

47
SC
普通型三爪夾頭  
3-JAW SCROLL CHUCKS



47
AS
錐型六爪夾頭  
6-JAW AWL TYPE CHUCKS



48
PS
運動型四爪夾頭  
4-JAW SCROLL CHUCKS



48
AE
錐型八爪夾頭  
8-JAW AWL TYPE CHUCKS



49
SK
強力型三爪夾頭  
3-JAW POWERFUL TYPE SCROLL CHUCKS



49
SKB
大孔徑  
強力型三爪夾頭  
LARGE THROUGH HOLE 3-JAW POWERFUL TYPE SCROLL CHUCKS



49
A1(A2)
直裝型三爪夾頭  
3-JAW A1(A2) TYPE CHUCKS



50
PSK
強力運動型四爪夾頭  
4-JAW POWERFUL TYPE SCROLL CHUCKS



50
D1
直裝型三爪夾頭  
3-JAW D1 TYPE CHUCKS



57
SO
強力生爪  
POWER SOFT JAWS



## 超薄夾盤系列 SUPER THIN CHUCKS SERIES

51
NBK
強力超薄型夾盤  
POWERFUL TYPE SUPER THIN CHUCKS



52
MC
方型超薄夾盤  
SUPER THIN SQUARE CHUCKS



53
SE
超薄型夾盤  
SUPER THIN CHUCKS



53
SE-ST
不銹鋼超薄型夾盤  
STAINLESS STEEL SUPER THIN CHUCKS



53
SZ
超薄型夾盤  
SUPER THIN CHUCKS



## 鋼殼夾頭系列 STEEL BODY CHUCKS SERIES

54
TNT
齒式鋼殼二爪夾頭  
2-JAW STEEL BODY CHUCKS



54
NT
齒式鋼殼三爪夾頭  
3-JAW STEEL BODY CHUCKS



55
CT
可調式普通型三爪鋼殼夾頭  
3-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS



55
FCT
可調式普通型四爪鋼殼夾頭  
4-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS



56
TKT
可調式強力型二爪鋼殼夾頭  
2-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS



56
KT
可調式強力型三爪鋼殼夾頭  
3-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS



57
FKT
可調式強力型四爪鋼殼夾頭  
4-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS



## DIN歐規夾頭系列 DIN CHUCKS SERIES

58
3DACT
可調式普通型三爪鋼殼夾頭  
3-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS



58
4DACT
可調式普通型四爪鋼殼夾頭  
4-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS



59
6DACT
可調式普通型六爪鋼殼夾頭  
6-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS



59
3DAKT
可調式強力型三爪鋼殼夾頭  
3-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS



60
4DAKT
可調式強力型四爪鋼殼夾頭  
4-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS



60
6DAKT
可調式強力型六爪鋼殼夾頭  
6-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS

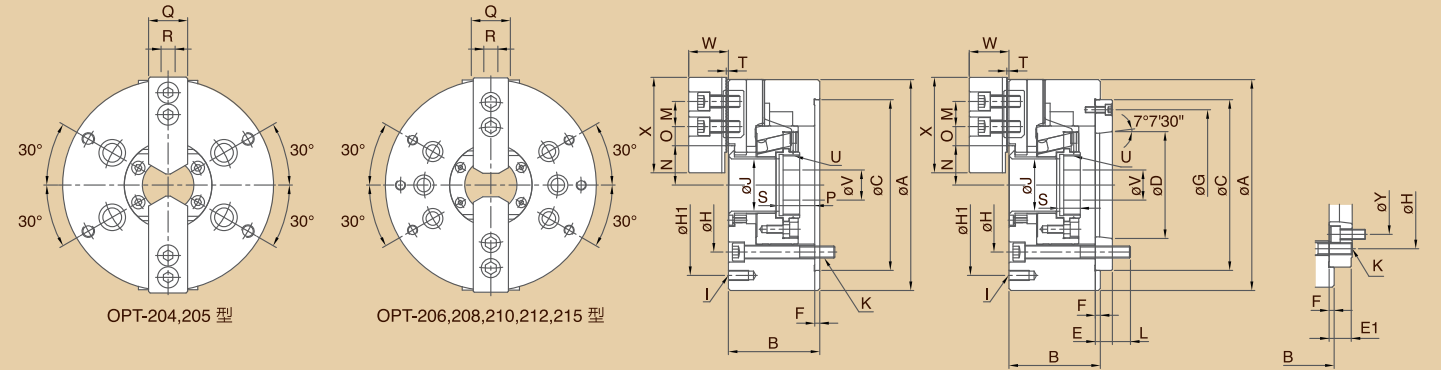


# OPT 2-JAW HIGH SPEED HOLLOW POWER CHUCKS

## 二爪高速中空油壓夾頭



### 尺寸圖 » Dimensions



### 規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL / SPEC. | 主軸鼻端番號<br>Nose Of Spindle | A   | B   | C<br>(h6) | D       | E  | E1 | F | G   | H     | H1      | I           | J     | K           | L  |
|------------------------|---------------------------|-----|-----|-----------|---------|----|----|---|-----|-------|---------|-------------|-------|-------------|----|
| OPT-204                | --                        | 110 | 59  | 85        | --      | -- | -- | 4 | --  | 70.6  | --      | --          | 26    | 4-M10x1.5P  | -- |
| OPT-205                | Az-4                      | 135 | 60  | 110       | 63.513  | 20 | -- | 4 | 96  | 82.6  | PCDø118 | 4-M8x1.25P  | 33    | 4-M10x1.5P  | 15 |
| OPT-206                | Az-5                      | 169 | 81  | 140       | 82.563  | 15 | -- | 5 | 116 | 104.8 | PCDø145 | 6-M10x1.5P  | 45    | 6-M10x1.5P  | 16 |
| OPT-208                | Az-6(Az-5)                | 210 | 91  | 170       | 106.375 | 17 | 23 | 5 | 150 | 133.4 | PCDø180 | 6-M10x1.5P  | 52    | 6-M12x1.75P | 18 |
| OPT-210                | Az-8(Az-6)                | 254 | 100 | 220       | 139.719 | 18 | 28 | 5 | 190 | 171.4 | PCDø225 | 6-M12x1.75P | 75    | 6-M16x2P    | 23 |
| OPT-212                | Az-8                      | 304 | 110 | 220       | 139.719 | 18 | -- | 6 | 190 | 171.4 | PCDø250 | 6-M12x1.75P | 91    | 6-M16x2P    | 25 |
| OPT-215                | Az-11(Az-8)               | 381 | 133 | 300       | 196.869 | 22 | 33 | 6 | 260 | 235   | PCDø324 | 6-M12x1.75P | 117.5 | 6-M20x2.5P  | 28 |

| 型式/規格<br>MODEL / SPEC. | M  | N<br>max. | N<br>min. | O<br>max. | O<br>min. | P<br>max. | P<br>min. | Q  | R  | S    | T | U        | V  | W    | X    | Y     | 通孔直徑<br>Thru-Hole<br>[Diameter]<br>(mm) | 柱塞行程<br>Plunger<br>Stroke<br>(mm) |
|------------------------|----|-----------|-----------|-----------|-----------|-----------|-----------|----|----|------|---|----------|----|------|------|-------|-----------------------------------------|-----------------------------------|
| OPT-204                | 14 | 23        | 20.3      | 11.5      | 6.7       | 3.5       | -6.5      | 23 | 10 | 17.5 | 2 | M32x1.5P | 12 | 24   | 49.5 | --    | 26                                      | 10                                |
| OPT-205                | 14 | 26.2      | 23.5      | 19        | 6         | 1         | -9        | 25 | 10 | 20   | 2 | M40x1.5P | 12 | 31.5 | 62   | --    | 33                                      | 10                                |
| OPT-206                | 20 | 32.35     | 29.6      | 24        | 7         | 11        | -1        | 31 | 12 | 19   | 2 | M55x2P   | 20 | 37.5 | 73   | --    | 45                                      | 12                                |
| OPT-208                | 25 | 39.1      | 35.4      | 30        | 11.6      | 14.5      | -1.5      | 35 | 14 | 20.5 | 2 | M60x2P   | 30 | 39.5 | 95   | 104.8 | 52                                      | 16                                |
| OPT-210                | 30 | 51.5      | 47.1      | 34        | 12        | 8.5       | -10.5     | 40 | 16 | 25   | 2 | M85x2P   | 40 | 43   | 110  | 133.4 | 75                                      | 19                                |
| OPT-212                | 30 | 61.6      | 56.3      | 46        | 12        | 8         | -15       | 50 | 21 | 28   | 2 | M100x2P  | 50 | 51   | 129  | --    | 91                                      | 23                                |
| OPT-215                | 43 | 82.3      | 77        | 46        | 13        | 7.5       | -16       | 62 | 22 | 42.5 | 5 | M130x2P  | 48 | 66.5 | 165  | 171.4 | 117.5                                   | 23                                |

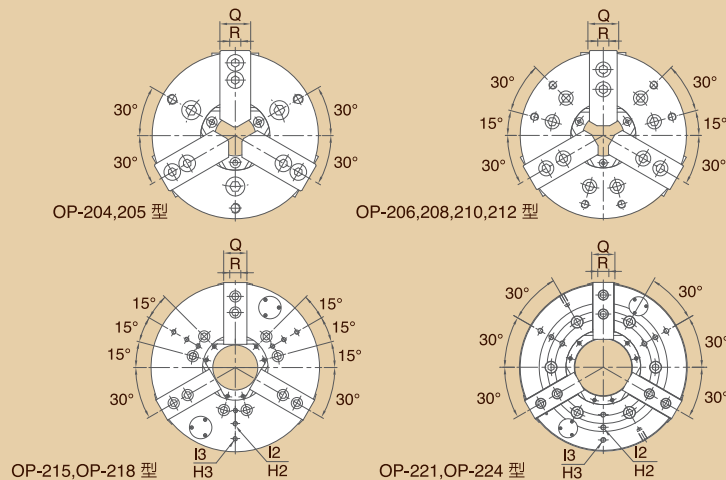
| 型式/規格<br>MODEL / SPEC. | 爪行程<br>[直徑]<br>Jaw Stroke<br>[Diameter]<br>(mm) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 最大拉力<br>Max. Pull<br>Force<br>kgf<br>(kN) | 最大靜夾持力<br>Max. Gripping<br>Force<br>kgf<br>(kN) | 最大設定<br>油壓壓力<br>Max. Hydr.<br>Pressure<br>kgf/cm <sup>2</sup> (MPa) | 淨重<br>Weight<br>(kg) | 搭配<br>油壓缸型號<br>Matching<br>Cylinder | 夾持範圍<br>Gripping<br>Range |
|------------------------|-------------------------------------------------|--------------------------------------------------|-------------------------------------------|-------------------------------------------------|---------------------------------------------------------------------|----------------------|-------------------------------------|---------------------------|
| OPT-204                | 5.4                                             | 8000                                             | 920 (9)                                   | 1930 (19)                                       | 15.5 (1.5)                                                          | 3.6                  | P0928                               | ø7~ø110                   |
| OPT-205                | 5.4                                             | 7000                                             | 1120 (11)                                 | 2340 (23)                                       | 19 (1.9)                                                            | 6.5                  | P1036                               | ø10~ø135                  |
| OPT-206                | 5.5                                             | 6000                                             | 1420 (14)                                 | 3770 (37)                                       | 18.5 (1.8)                                                          | 13.1                 | P1246                               | ø13~ø169                  |
| OPT-208                | 7.4                                             | 5000                                             | 2240 (22)                                 | 5710 (56)                                       | 17 (1.7)                                                            | 23.0                 | P1552                               | ø13~ø210                  |
| OPT-210                | 8.8                                             | 4200                                             | 2850 (28)                                 | 7440 (73)                                       | 18 (1.8)                                                            | 35.9                 | P1875                               | ø30~ø254                  |
| OPT-212                | 10.6                                            | 3300                                             | 3670 (36)                                 | 9690 (95)                                       | 18 (1.8)                                                            | 56.6                 | P2091                               | ø35~ø304                  |
| OPT-215                | 10.6                                            | 2500                                             | 4790 (47)                                 | 12130 (119)                                     | 17 (1.7)                                                            | 103.2                | P2511                               | ø35~ø381                  |

# OP3-JAW HIGH SPEED HOLLOW POWER CHUCKS

## 三爪高速 中空油壓夾頭

尺寸圖 » Dimensions

BH:加大孔徑  
Larger Through Hole  
OP-221,224屬大孔徑設計  
With Larger Through Hole

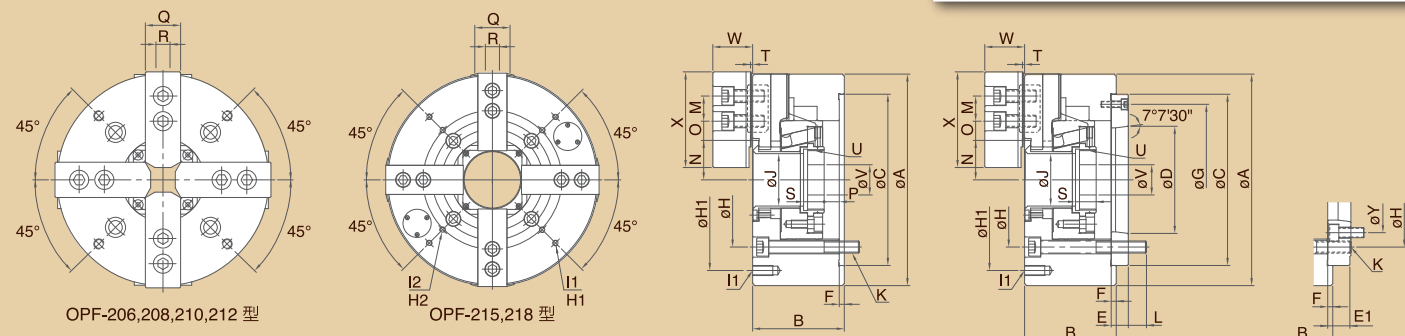


| 規格表 » Specifications      |                                        |                                         |                                   |                                                 |                                                  |                                        |                                              |                                                                     |                      |                                     |                           |             |         |             | 單位/UNIT:mm |          |    |      |      |
|---------------------------|----------------------------------------|-----------------------------------------|-----------------------------------|-------------------------------------------------|--------------------------------------------------|----------------------------------------|----------------------------------------------|---------------------------------------------------------------------|----------------------|-------------------------------------|---------------------------|-------------|---------|-------------|------------|----------|----|------|------|
| 型式/規格<br>MODEL<br>/ SPEC. | 主軸<br>鼻端番號<br>Nose Of<br>Spindle       | A                                       | B                                 | C<br>(h6)                                       | D                                                | E                                      | E1                                           | F                                                                   | G                    | H                                   | O                         | H1          | I1      | H2          | I2         | H3       |    |      |      |
| OP-204                    | --                                     | 110                                     | 59                                | 85                                              | --                                               | --                                     | --                                           | 4                                                                   | --                   | 70.6                                | --                        | --          | --      | --          | --         | --       |    |      |      |
| OP-205                    | A <sub>2</sub> -4                      | 135                                     | 60                                | 110                                             | 63.513                                           | 20                                     | --                                           | 4                                                                   | 96                   | 82.6                                | PCDø118                   | 3-M8x1.25P  | --      | --          | --         | --       |    |      |      |
| OP-206                    | A <sub>2</sub> -5                      | 169                                     | 81                                | 140                                             | 82.563                                           | 15                                     | --                                           | 5                                                                   | 116                  | 104.8                               | PCDø145                   | 6-M10x1.5P  | --      | --          | --         | --       |    |      |      |
| OP-208                    | A <sub>2</sub> -6(A <sub>2</sub> -5)   | 210                                     | 91                                | 170                                             | 106.375                                          | 17                                     | 23                                           | 5                                                                   | 150                  | 133.4                               | PCDø180                   | 6-M10x1.5P  | --      | --          | --         | --       |    |      |      |
| OP-210                    | A <sub>2</sub> -8(A <sub>2</sub> -6)   | 254                                     | 100                               | 220                                             | 139.719                                          | 18                                     | 28                                           | 5                                                                   | 190                  | 171.4                               | PCDø225                   | 6-M12x1.75P | --      | --          | --         | --       |    |      |      |
| OP-212                    | A <sub>2</sub> -8                      | 304                                     | 110                               | 220                                             | 139.719                                          | 18                                     | --                                           | 6                                                                   | 190                  | 171.4                               | PCDø250                   | 6-M12x1.75P | --      | --          | --         | --       |    |      |      |
| OP-215                    | A <sub>2</sub> -11(A <sub>2</sub> -8)  | 381                                     | 133                               | 300                                             | 196.869                                          | 22                                     | 33                                           | 6                                                                   | 260                  | 235                                 | --                        | --          | PCDø230 | 3-M12x1.75P | PCDø300    |          |    |      |      |
| OP-218                    | A <sub>2</sub> -11(A <sub>2</sub> -8)  | 450                                     | 133                               | 300                                             | 196.869                                          | 22                                     | 33                                           | 6                                                                   | 260                  | 235                                 | PCDø230                   | 3-M12x1.75P | PCDø300 | 3-M12x1.75P | PCDø380    |          |    |      |      |
| OP-221                    | A <sub>2</sub> -15(A <sub>2</sub> -11) | 530                                     | 140                               | 380                                             | 285.775                                          | 27                                     | 41                                           | 6                                                                   | 330.2                | 330.2                               | PCDø300                   | 3-M16x2P    | PCDø380 | 3-M16x2P    | PCDø460    |          |    |      |      |
| OP-224                    | A <sub>2</sub> -20(A <sub>2</sub> -15) | 610                                     | 149                               | 520                                             | 412.745                                          | 27                                     | 42                                           | 6                                                                   | 463.6                | 463.6                               | PCDø350                   | 3-M16x2P    | PCDø450 | 3-M16x2P    | PCDø550    |          |    |      |      |
| OP-210BH                  | A <sub>2</sub> -8(A <sub>2</sub> -6)   | 254                                     | 100                               | 220                                             | 139.719                                          | 18                                     | 28                                           | 5                                                                   | 190                  | 171.4                               | --                        | --          | PCDø160 | 3-M12x1.75P | PCDø220    |          |    |      |      |
| OP-212BH                  | A <sub>2</sub> -8                      | 304                                     | 108                               | 220                                             | 139.719                                          | 18                                     | --                                           | 6                                                                   | 190                  | 171.4                               | --                        | --          | PCDø170 | 3-M16x2P    | PCDø260    |          |    |      |      |
| 型式/規格<br>MODEL<br>/ SPEC. | I3                                     | J                                       | K                                 | L                                               | M                                                | N<br>max.                              | N<br>min.                                    | O<br>max.                                                           | O<br>min.            | P<br>max.                           | P<br>min.                 | Q           | R       | S           | T          | U        | V  | W    | X    |
| OP-204                    | --                                     | 26                                      | 3-M10x1.5P                        | --                                              | 14                                               | 23                                     | 20.3                                         | 11.5                                                                | 6.7                  | 3.5                                 | -6.5                      | 23          | 10      | 17.5        | 2          | M32x1.5P | 12 | 24   | 49.5 |
| OP-205                    | --                                     | 33                                      | 3-M10x1.5P                        | 15                                              | 14                                               | 26.2                                   | 23.5                                         | 19                                                                  | 6                    | 1                                   | -9                        | 25          | 10      | 20          | 2          | M40x1.5P | 12 | 31.5 | 62   |
| OP-206                    | --                                     | 45                                      | 6-M10x1.5P                        | 16                                              | 20                                               | 32.35                                  | 29.6                                         | 24                                                                  | 7                    | 11                                  | -1                        | 31          | 12      | 19          | 2          | M55x2P   | 20 | 37.5 | 73   |
| OP-208                    | --                                     | 52                                      | 6-M12x1.75P                       | 18                                              | 25                                               | 39.1                                   | 35.4                                         | 30                                                                  | 11.6                 | 14.5                                | -1.5                      | 35          | 14      | 20.5        | 2          | M60x2P   | 30 | 39.5 | 95   |
| OP-210                    | --                                     | 75                                      | 6-M16x2P                          | 23                                              | 30                                               | 51.5                                   | 47.1                                         | 34                                                                  | 12                   | 8.5                                 | -10.5                     | 40          | 16      | 25          | 2          | M85x2P   | 40 | 43   | 110  |
| OP-212                    | --                                     | 91                                      | 6-M16x2P                          | 25                                              | 30                                               | 61.6                                   | 56.3                                         | 46                                                                  | 12                   | 8                                   | -15                       | 50          | 21      | 28          | 2          | M100x2P  | 50 | 51   | 129  |
| OP-215                    | 3-M12x1.75P                            | 117.5                                   | 6-M20x2.5P                        | 28                                              | 43                                               | 82.3                                   | 77                                           | 46                                                                  | 13                   | 7.5                                 | -16                       | 62          | 22      | 42.5        | 5          | M130x2P  | 48 | 66.5 | 165  |
| OP-218                    | 3-M12x1.75P                            | 120                                     | 6-M20x2.5P                        | 28                                              | 43                                               | 83.8                                   | 78.5                                         | 78                                                                  | 18                   | 7.5                                 | -16                       | 62          | 22      | 42.5        | 5          | M130x2P  | 48 | 66.5 | 165  |
| OP-221                    | 3-M16x2P                               | 180                                     | 6-M24x3P                          | 35                                              | 60                                               | 119.6                                  | 114.3                                        | 63.3                                                                | 21.3                 | 10.5                                | -13                       | 65          | 25      | 42.5        | 5          | M195x2P  | 80 | 73.5 | 180  |
| OP-224                    | 3-M16x2P                               | 205                                     | 6-M24x3P                          | 36                                              | 60                                               | 134.4                                  | 128.4                                        | 87.3                                                                | 21.3                 | 13.5                                | -11                       | 65          | 25      | 41          | 5          | M220x3P  | 80 | 73.5 | 180  |
| OP-210BH                  | 3-M12x1.75P                            | 78                                      | 6-M16x2P                          | 24                                              | 30                                               | 53.1                                   | 48.6                                         | 33.55                                                               | 11.05                | 8.95                                | -10.55                    | 40          | 16      | 25          | 2          | M87x2P   | 40 | 43   | 110  |
| OP-212BH                  | 3-M16x2P                               | 93                                      | 6-M16x2P                          | 27                                              | 30                                               | 63.7                                   | 58.7                                         | 45.55                                                               | 12.55                | 8.65                                | -13.05                    | 50          | 21      | 26          | 2          | M103x2P  | 50 | 51   | 129  |
| 型式/規格<br>MODEL<br>/ SPEC. | Y                                      | 通孔直徑<br>Thru-Hole<br>[Diameter]<br>(mm) | 柱塞行程<br>Plunger<br>Stroke<br>(mm) | 爪行程<br>〔直徑〕<br>Jaw Stroke<br>[Diameter]<br>(mm) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 最大拉力<br>Max. Pull<br>Force<br>kgf (kN) | 最大靜夾持力<br>Max. Gripping<br>Force<br>kgf (kN) | 最大設定<br>油壓壓力<br>Max. Hydr.<br>Pressure<br>kgf/cm <sup>2</sup> (MPa) | 淨重<br>Weight<br>(kg) | 搭配<br>油壓缸型號<br>Matching<br>Cylinder | 夾持範圍<br>Gripping<br>Range |             |         |             |            |          |    |      |      |
| OP-204                    | --                                     | 26                                      | 10                                | 5.4                                             | 8000                                             | 1428 (14)                              | 2850 (28)                                    | 24 (2.3)                                                            | 3.8                  | P0928                               | ø7~ø110                   |             |         |             |            |          |    |      |      |
| OP-205                    | --                                     | 33                                      | 10                                | 5.4                                             | 7000                                             | 1730 (17)                              | 3570 (35)                                    | 29 (2.8)                                                            | 6.1                  | P1036                               | ø10~ø135                  |             |         |             |            |          |    |      |      |
| OP-206                    | --                                     | 45                                      | 12                                | 5.5                                             | 6000                                             | 2140 (21)                              | 5710 (56)                                    | 28 (2.7)                                                            | 12.5                 | P1246                               | ø13~ø169                  |             |         |             |            |          |    |      |      |
| OP-208                    | 104.8                                  | 52                                      | 16                                | 7.4                                             | 5000                                             | 3360 (33)                              | 8360 (82)                                    | 26 (2.5)                                                            | 21.9                 | P1552                               | ø13~ø210                  |             |         |             |            |          |    |      |      |
| OP-210                    | 133.4                                  | 75                                      | 19                                | 8.8                                             | 4200                                             | 4280 (42)                              | 11010 (108)                                  | 27 (2.6)                                                            | 33.7                 | P1875                               | ø30~ø254                  |             |         |             |            |          |    |      |      |
| OP-212                    | --                                     | 91                                      | 23                                | 10.6                                            | 3300                                             | 5500 (54)                              | 14380 (141)                                  | 27 (2.6)                                                            | 55.3                 | P2091                               | ø35~ø304                  |             |         |             |            |          |    |      |      |
| OP-215                    | 171.4                                  | 117.5                                   | 23                                | 10.6                                            | 2500                                             | 7140 (70)                              | 18250 (179)                                  | 24.5 (2.4)                                                          | 106.8                | P2511                               | ø35~ø381                  |             |         |             |            |          |    |      |      |
| OP-218                    | 171.4                                  | 120                                     | 23                                | 10.6                                            | 2000                                             | 7140 (70)                              | 18250 (179)                                  | 24.5 (2.4)                                                          | 152                  | P2511                               | ø40~ø450                  |             |         |             |            |          |    |      |      |
| OP-221                    | 235                                    | 180                                     | 23                                | 10.6                                            | 1700                                             | 9080 (89)                              | 23760 (233)                                  | 23.5 (2.3)                                                          | 195.2                | P3420                               | ø115~ø530                 |             |         |             |            |          |    |      |      |
| OP-224                    | 330.2                                  | 205                                     | 26                                | 12                                              | 1400                                             | 9080 (89)                              | 23760 (233)                                  | 23.5 (2.3)                                                          | 269.4                | P3420                               | ø140~ø610                 |             |         |             |            |          |    |      |      |
| OP-210BH                  | 133.4                                  | 78                                      | 19.5                              | 9                                               | 4200                                             | 4280 (42)                              | 11010 (108)                                  | 27 (2.6)                                                            | 36.7                 | P1878                               | ø30~ø254                  |             |         |             |            |          |    |      |      |
| OP-212BH                  | --                                     | 93                                      | 21                                | 10                                              | 3300                                             | 5500 (54)                              | 14380 (141)                                  | 28 (2.7)                                                            | 57.4                 | P2093                               | ø35~ø304                  |             |         |             |            |          |    |      |      |

# OPF4-JAW HIGH SPEED HOLLOW POWER CHUCKS

## 四爪高速中空油壓夾頭

尺寸圖 » Dimensions



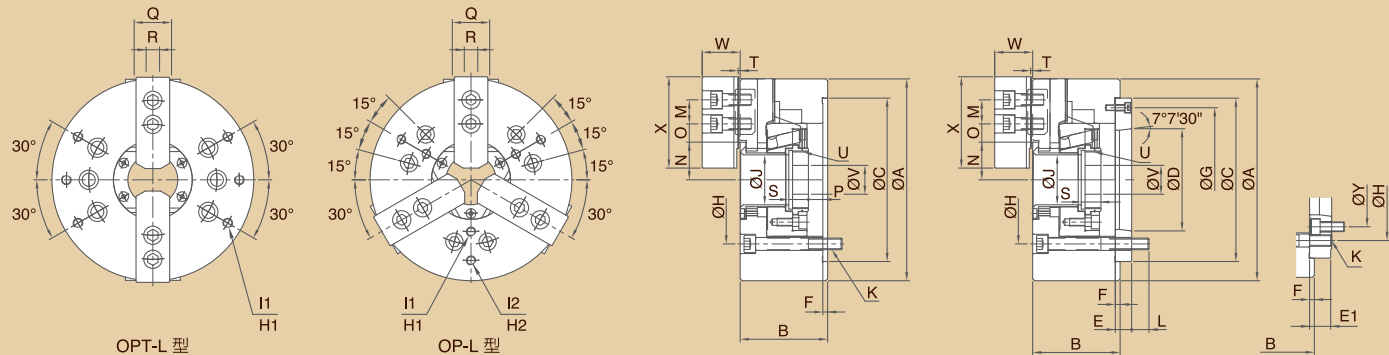
| 規格表 » Specifications      |                                         |                                   |                                                 |                                                  |                                        |                                              |                                                                     |                      |                                     |                           |       |         |             | 單位/UNIT:mm |             |    |      |     |       |
|---------------------------|-----------------------------------------|-----------------------------------|-------------------------------------------------|--------------------------------------------------|----------------------------------------|----------------------------------------------|---------------------------------------------------------------------|----------------------|-------------------------------------|---------------------------|-------|---------|-------------|------------|-------------|----|------|-----|-------|
| 型式/規格<br>MODEL<br>/ SPEC. | 主軸鼻端番號<br>Nose Of<br>Spindle            |                                   | A                                               | B                                                | C<br>(h6)                              | D                                            | E                                                                   | E1                   | F                                   | G                         | H     | H1      | I1          | H2         | I2          |    |      |     |       |
| OPF-206                   | A <sub>2</sub> -5                       |                                   | 169                                             | 81                                               | 140                                    | 82.563                                       | 15                                                                  | --                   | 5                                   | 116                       | 104.8 | PCDø145 | 4-M10x1.5P  | --         | --          |    |      |     |       |
| OPF-208                   | A <sub>2</sub> -6(A <sub>2</sub> -5)    |                                   | 210                                             | 91                                               | 170                                    | 106.375                                      | 17                                                                  | 23                   | 5                                   | 150                       | 133.4 | PCDø180 | 4-M10x1.5P  | --         | --          |    |      |     |       |
| OPF-210                   | A <sub>2</sub> -8(A <sub>2</sub> -6)    |                                   | 254                                             | 100                                              | 220                                    | 139.719                                      | 18                                                                  | 28                   | 5                                   | 190                       | 171.4 | PCDø225 | 4-M12x1.75P | --         | --          |    |      |     |       |
| OPF-212                   | A <sub>2</sub> -8                       |                                   | 304                                             | 110                                              | 220                                    | 139.719                                      | 18                                                                  | --                   | 6                                   | 190                       | 171.4 | PCDø250 | 4-M12x1.75P | --         | --          |    |      |     |       |
| OPF-215                   | A <sub>2</sub> -11(A <sub>2</sub> -8)   |                                   | 381                                             | 133                                              | 300                                    | 196.869                                      | 22                                                                  | 33                   | 6                                   | 260                       | 235   | PCDø324 | 4-M12x1.75P | --         | --          |    |      |     |       |
| OPF-218                   | A <sub>2</sub> -11(A <sub>2</sub> -8)   |                                   | 450                                             | 133                                              | 300                                    | 196.869                                      | 22                                                                  | 33                   | 6                                   | 260                       | 235   | PCDø300 | 4-M12x1.75P | PCDø380    | 4-M12x1.75P |    |      |     |       |
|                           |                                         |                                   |                                                 |                                                  |                                        |                                              |                                                                     |                      |                                     |                           |       |         |             |            |             |    |      |     |       |
| 型式/規格<br>MODEL<br>/ SPEC. | J                                       | K                                 | L                                               | M                                                | N<br>max.                              | N<br>min.                                    | O<br>max.                                                           | O<br>min.            | P<br>max.                           | P<br>min.                 | Q     | R       | S           | T          | U           | V  | W    | X   | Y     |
| OPF-206                   | 45                                      | 4-M10x1.5P                        | 16                                              | 20                                               | 32.35                                  | 29.6                                         | 24                                                                  | 7                    | 11                                  | -1                        | 31    | 12      | 19          | 2          | M55x2P      | 20 | 37.5 | 73  | --    |
| OPF-208                   | 52                                      | 4-M12x1.75P                       | 18                                              | 25                                               | 39.1                                   | 35.4                                         | 30                                                                  | 11.6                 | 14.5                                | -1.5                      | 35    | 14      | 20.5        | 2          | M60x2P      | 30 | 39.5 | 95  | 104.8 |
| OPF-210                   | 75                                      | 4-M16x2P                          | 23                                              | 30                                               | 51.5                                   | 47.1                                         | 34                                                                  | 12                   | 8.5                                 | -10.5                     | 40    | 16      | 25          | 2          | M85x2P      | 40 | 43   | 110 | 133.4 |
| OPF-212                   | 91                                      | 4-M16x2P                          | 25                                              | 30                                               | 61.6                                   | 56.3                                         | 46                                                                  | 12                   | 8                                   | -15                       | 50    | 21      | 28          | 2          | M100x2P     | 50 | 51   | 129 | --    |
| OPF-215                   | 117.5                                   | 4-M20x2.5P                        | 28                                              | 43                                               | 82.3                                   | 77                                           | 46                                                                  | 13                   | 7                                   | -16                       | 62    | 22      | 42.5        | 5          | M130x2P     | 48 | 66.5 | 165 | 171.4 |
| OPF-218                   | 120                                     | 4-M20x2.5P                        | 28                                              | 43                                               | 83.8                                   | 78.5                                         | 78                                                                  | 16.5                 | 7                                   | -16                       | 62    | 22      | 42.5        | 5          | M130x2P     | 48 | 66.5 | 165 | 171.4 |
|                           |                                         |                                   |                                                 |                                                  |                                        |                                              |                                                                     |                      |                                     |                           |       |         |             |            |             |    |      |     |       |
| 型式/規格<br>MODEL<br>/ SPEC. | 通孔直徑<br>Thru-Hole<br>[Diameter]<br>(mm) | 柱塞行程<br>Plunger<br>Stroke<br>(mm) | 爪行程<br>〔直徑〕<br>Jaw Stroke<br>[Diameter]<br>(mm) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 最大拉力<br>Max. Pull<br>Force<br>kgf (kN) | 最大靜夾持力<br>Max. Gripping<br>Force<br>kgf (kN) | 最大設定<br>油壓壓力<br>Max. Hydr.<br>Pressure<br>kgf/cm <sup>2</sup> (MPa) | 淨重<br>Weight<br>(kg) | 搭配<br>油壓缸型號<br>Matching<br>Cylinder | 夾持範圍<br>Gripping<br>Range |       |         |             |            |             |    |      |     |       |
| OPF-206                   | 45                                      | 12                                | 5.5                                             | 4500                                             | 1630 (16)                              | 4180 (41)                                    | 21 (2.1)                                                            | 14.2                 | P1246                               | ø22~ø169                  |       |         |             |            |             |    |      |     |       |
| OPF-208                   | 52                                      | 16                                | 7.4                                             | 3600                                             | 2440 (24)                              | 6010 (59)                                    | 19 (1.9)                                                            | 24.5                 | P1552                               | ø25~ø210                  |       |         |             |            |             |    |      |     |       |
| OPF-210                   | 75                                      | 19                                | 8.8                                             | 3200                                             | 3160 (31)                              | 8050 (79)                                    | 20 (2.0)                                                            | 38.1                 | P1875                               | ø28~ø254                  |       |         |             |            |             |    |      |     |       |
| OPF-212                   | 91                                      | 23                                | 10.6                                            | 2500                                             | 4080 (40)                              | 10400 (102)                                  | 20 (2.0)                                                            | 60.5                 | P2091                               | ø35~ø304                  |       |         |             |            |             |    |      |     |       |
| OPF-215                   | 117.5                                   | 23                                | 10.6                                            | 1800                                             | 5400 (53)                              | 13600 (134)                                  | 19 (1.9)                                                            | 111.5                | P2511                               | ø63~ø381                  |       |         |             |            |             |    |      |     |       |
| OPF-218                   | 120                                     | 23                                | 10.6                                            | 1500                                             | 5400 (53)                              | 13600 (134)                                  | 19 (1.9)                                                            | 164.5                | P2511                               | ø80~ø450                  |       |         |             |            |             |    |      |     |       |

# OP-L, OPT-L LONG STROKE HOLLOW POWER CHUCKS

## 中空長行程油壓夾頭



尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | 主軸鼻端番號<br>Nose Of<br>Spindle                    | A                                                | B                                      | C<br>(h6)                                    | D                                                                   | E                    | E1                                  | F                         | G         | H         | H1      | I1                                      |                                   |
|---------------------------|-------------------------------------------------|--------------------------------------------------|----------------------------------------|----------------------------------------------|---------------------------------------------------------------------|----------------------|-------------------------------------|---------------------------|-----------|-----------|---------|-----------------------------------------|-----------------------------------|
| OP-206L                   | A <sub>2</sub> -5                               | 173                                              | 87                                     | 140                                          | 82.563                                                              | 15                   | --                                  | 5                         | 116       | 104.8     | PCDø90  | 3-M8x1.25P                              |                                   |
| OP-208L                   | A <sub>2</sub> -6(A <sub>2</sub> -5)            | 215                                              | 103                                    | 170                                          | 106.375                                                             | 17                   | 23                                  | 5                         | 150       | 133.4     | PCDø120 | 3-M8x1.25P                              |                                   |
| OP-210L                   | A <sub>2</sub> -8(A <sub>2</sub> -6)            | 256                                              | 112                                    | 220                                          | 139.719                                                             | 18                   | 28                                  | 5                         | 190       | 171.4     | PCDø160 | 3-M12x1.75P                             |                                   |
| OPT-206L                  | A <sub>2</sub> -5                               | 173                                              | 87                                     | 140                                          | 82.563                                                              | 15                   | --                                  | 5                         | 116       | 104.8     | PCDø145 | 6-M10x1.5P                              |                                   |
| OPT-208L                  | A <sub>2</sub> -6(A <sub>2</sub> -5)            | 215                                              | 103                                    | 170                                          | 106.375                                                             | 17                   | 23                                  | 5                         | 150       | 133.4     | PCDø180 | 6-M10x1.5P                              |                                   |
| OPT-210L                  | A <sub>2</sub> -8(A <sub>2</sub> -6)            | 256                                              | 112                                    | 220                                          | 139.719                                                             | 18                   | 28                                  | 5                         | 190       | 171.4     | PCDø225 | 6-M12x1.75P                             |                                   |
| 型式/規格<br>MODEL<br>/ SPEC. | H2                                              | I2                                               | J                                      | K                                            | L                                                                   | M                    | N<br>max.                           | N<br>min.                 | O<br>max. | O<br>min. |         |                                         |                                   |
| OP-206L                   | PCDø140                                         | 3-M8x1.25P                                       | 45                                     | 6-M10x1.5P                                   | 15                                                                  | 20                   | 39.07                               | 33.46                     | 21.05     | 10.55     |         |                                         |                                   |
| OP-208L                   | PCDø170                                         | 3-M8x1.25P                                       | 52                                     | 6-M12x1.75P                                  | 21                                                                  | 25                   | 47.85                               | 39.66                     | 25.05     | 14.55     |         |                                         |                                   |
| OP-210L                   | PCDø220                                         | 3-M12x1.75P                                      | 75                                     | 6-M16x2P                                     | 22                                                                  | 30                   | 61.34                               | 52.06                     | 29.05     | 12.55     |         |                                         |                                   |
| OPT-206L                  | --                                              | --                                               | 45                                     | 6-M10x1.5P                                   | 15                                                                  | 20                   | 39.07                               | 33.46                     | 21.05     | 10.55     |         |                                         |                                   |
| OPT-208L                  | --                                              | --                                               | 52                                     | 6-M12x1.75P                                  | 21                                                                  | 25                   | 47.85                               | 39.66                     | 25.05     | 14.55     |         |                                         |                                   |
| OPT-210L                  | --                                              | --                                               | 75                                     | 6-M16x2P                                     | 22                                                                  | 30                   | 61.34                               | 52.06                     | 29.05     | 12.55     |         |                                         |                                   |
| 型式/規格<br>MODEL<br>/ SPEC. | P<br>max.                                       | P<br>min.                                        | Q                                      | R                                            | S                                                                   | T                    | U                                   | V                         | W         | X         | Y       | 通孔直徑<br>Thru-Hole<br>[Diameter]<br>(mm) | 柱塞行程<br>Plunger<br>Stroke<br>(mm) |
| OP-206L                   | 11                                              | -4                                               | 31                                     | 12                                           | 19                                                                  | 2                    | M55x2P                              | 20                        | 37.5      | 73        | --      | 45                                      | 15                                |
| OP-208L                   | 14.5                                            | -7.5                                             | 35                                     | 14                                           | 20.5                                                                | 2                    | M60x2P                              | 30                        | 39.5      | 95        | 104.8   | 52                                      | 22                                |
| OP-210L                   | 8.5                                             | -16.5                                            | 40                                     | 16                                           | 25                                                                  | 2                    | M85x2P                              | 40                        | 43        | 110       | 133.4   | 75                                      | 25                                |
| OPT-206L                  | 11                                              | -4                                               | 31                                     | 12                                           | 19                                                                  | 2                    | M55x2P                              | 20                        | 37.5      | 73        | --      | 45                                      | 15                                |
| OPT-208L                  | 14.5                                            | -7.5                                             | 35                                     | 14                                           | 20.5                                                                | 2                    | M60x2P                              | 30                        | 39.5      | 95        | 104.8   | 52                                      | 22                                |
| OPT-210L                  | 8.5                                             | -16.5                                            | 40                                     | 16                                           | 25                                                                  | 2                    | M85x2P                              | 40                        | 43        | 110       | 133.4   | 75                                      | 25                                |
| 型式/規格<br>MODEL<br>/ SPEC. | 爪行程<br>(直徑)<br>Jaw Stroke<br>[Diameter]<br>(mm) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 最大拉力<br>Max. Pull<br>Force<br>kgf (kN) | 最大靜夾持力<br>Max. Gripping<br>Force<br>kgf (kN) | 最大設定<br>油壓壓力<br>Max. Hydr.<br>Pressure<br>kgf/cm <sup>2</sup> (MPa) | 淨重<br>Weight<br>(kg) | 搭配<br>油壓缸型號<br>Matching<br>Cylinder | 夾持範圍<br>Gripping<br>Range |           |           |         |                                         |                                   |
| OP-206L                   | 10.8                                            | 4300                                             | 2140 (21)                              | 4080 (40)                                    | 28 (2.7)                                                            | 14.9                 | P1246                               | ø20~ø173                  |           |           |         |                                         |                                   |
| OP-208L                   | 16                                              | 3500                                             | 3360 (33)                              | 5910 (58)                                    | 26 (2.5)                                                            | 37                   | P1552                               | ø25~ø215                  |           |           |         |                                         |                                   |
| OP-210L                   | 18                                              | 3000                                             | 4280 (42)                              | 7540 (74)                                    | 27 (2.6)                                                            | 40.6                 | P1875                               | ø40~ø256                  |           |           |         |                                         |                                   |
| OPT-206L                  | 10.8                                            | 4300                                             | 1420 (14)                              | 2650 (26)                                    | 18.5 (1.8)                                                          | 14.5                 | P1246                               | ø20~ø173                  |           |           |         |                                         |                                   |
| OPT-208L                  | 16                                              | 3500                                             | 2240 (22)                              | 3870 (38)                                    | 17 (1.7)                                                            | 26.4                 | P1552                               | ø25~ø215                  |           |           |         |                                         |                                   |
| OPT-210L                  | 18                                              | 3000                                             | 2850 (28)                              | 4990 (49)                                    | 18 (1.8)                                                            | 39.5                 | P1875                               | ø40~ø256                  |           |           |         |                                         |                                   |

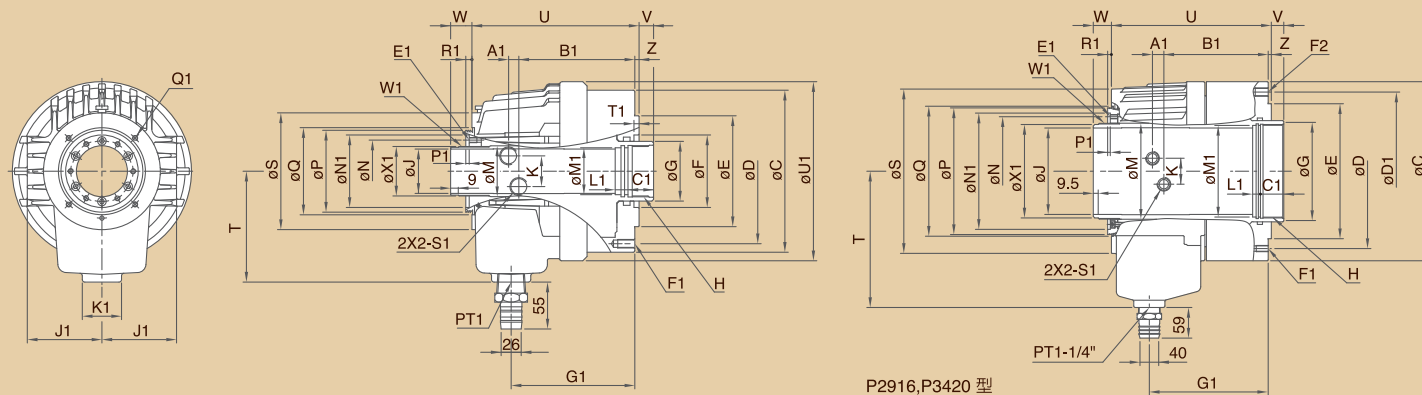
# P SUPER HIGH SPEED HOLLOW ROTARY HYDRAULIC CYLINDERS

## 高速中空油壓迴轉缸

L:加長行程  
L: Longer stroke



尺寸圖 » Dimensions



規格表 » Specifications

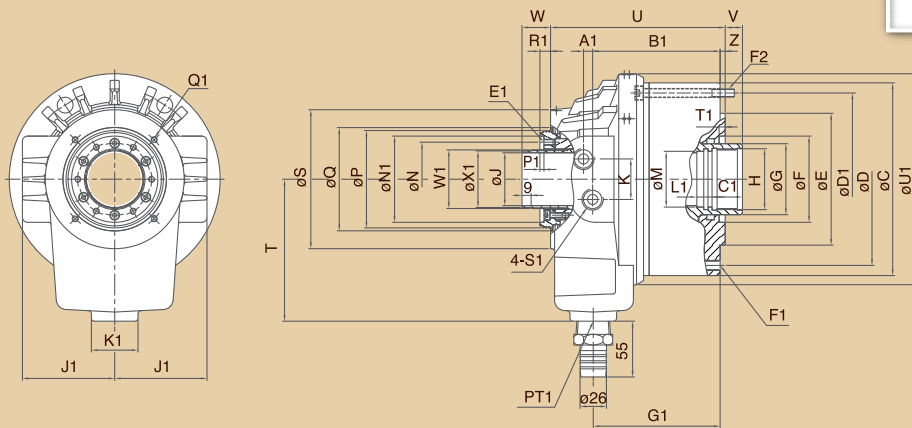
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A1    | B1                               | C                                                 | C1                        | D                                                    | D1                                      | E<br>(h7)                                                   | E1                                    | F                   | F1                  | F2                                             | G                    | G1    | H        | J     | J1        | K         | K1        | L1         |       |      |
|---------------------------|-------|----------------------------------|---------------------------------------------------|---------------------------|------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------|---------------------------------------|---------------------|---------------------|------------------------------------------------|----------------------|-------|----------|-------|-----------|-----------|-----------|------------|-------|------|
| P0928                     | 9     | 109                              | 120                                               | 25                        | 100                                                  | --                                      | 80                                                          | 8-M5x0.8P                             | 60                  | 6-M8x1.25P          | --                                             | 45                   | 114   | M38x1.5P | 28    | 60        | 25        | 46        | 15         |       |      |
| P1036                     | 11    | 120                              | 136                                               | 25                        | 115                                                  | --                                      | 100                                                         | 6-M5x0.8P                             | 65                  | 6-M10x1.5P          | --                                             | 48                   | 126   | M42x1.5P | 36    | 66        | 32        | 46        | 15         |       |      |
| P1246                     | 12    | 126.5                            | 155                                               | 30                        | 130                                                  | --                                      | 100                                                         | 6-M6x1P                               | 80                  | 12-M10x1.5P         | --                                             | 65                   | 133   | M55x2P   | 46    | 76        | 36        | 46        | 15         |       |      |
| P1552                     | 12    | 136                              | 190                                               | 30                        | 170                                                  | --                                      | 130                                                         | 6-M6x1P                               | 85                  | 12-M10x1.5P         | --                                             | 70                   | 145   | M60x2P   | 52    | 87.5      | 36        | 46        | 15         |       |      |
| P1875                     | 17.5  | 154.5                            | 215                                               | 35                        | 190                                                  | --                                      | 160                                                         | 6-M6x1P                               | 125                 | 12-M10x1.5P         | --                                             | 95                   | 163.5 | M85x2P   | 75    | 101       | 36        | 46        | 15         |       |      |
| P1878                     | 17.5  | 154.5                            | 215                                               | 35                        | 190                                                  | --                                      | 160                                                         | 6-M6x1P                               | 125                 | 12-M10x1.5P         | --                                             | 98.5                 | 163.5 | M87x2P   | 78    | 101       | 36        | 46        | 15         |       |      |
| P2091                     | 21    | 168                              | 240                                               | 35                        | 215                                                  | --                                      | 180                                                         | 6-M6x1P                               | 140                 | 12-M12x1.75P        | --                                             | 110                  | 183   | M100x2P  | 91    | 110       | 36        | 46        | 15         |       |      |
| P2093                     | 21    | 168                              | 240                                               | 35                        | 215                                                  | --                                      | 180                                                         | 6-M6x1P                               | 140                 | 12-M12x1.75P        | --                                             | 115                  | 183   | M103x2P  | 93    | 110       | 36        | 46        | 15         |       |      |
| P2511                     | 21    | 180                              | 310                                               | 45                        | 275                                                  | --                                      | 230                                                         | 6-M6x1P                               | 166                 | 12-M16x2P           | --                                             | 140                  | 190.5 | M130x2P  | 120.1 | 135       | 40        | 46        | 15         |       |      |
| P2916                     | 22    | 201                              | 345                                               | 45                        | 298                                                  | 305                                     | 260                                                         | 6-M8x1.25P                            | 220                 | 12-M12x1.75P        | 12-M16x2P                                      | 195                  | 229   | M180x3P  | 166.5 | 180       | 50        | 60        | 15         |       |      |
| P3420                     | 22    | 223                              | 405                                               | 45                        | 360                                                  | --                                      | 320                                                         | 6-M8x1.25P                            | 260                 | 12-M20x2.5P         | --                                             | 235                  | 247   | M220x3P  | 205   | 210       | 50        | 60        | 20         |       |      |
| P2916L                    | 22    | 217                              | 345                                               | 45                        | 298                                                  | 305                                     | 260                                                         | 6-M8x1.25P                            | 220                 | 12-M12x1.75P        | 12-M16x2P                                      | 195                  | 245   | M180x3P  | 166.5 | 180       | 50        | 60        | 15         |       |      |
| 型式/規格<br>MODEL<br>/ SPEC. | M     | M1                               | N                                                 | N1                        | P                                                    | P1                                      | Q                                                           | Q1                                    | R1                  | S                   | S1                                             | T                    | T1    | U        | U1    | V<br>max. | V<br>min. | W<br>max. | W1<br>min. | X1    |      |
| P0928                     | 34.6  | 34                               | 44                                                | 53                        | 59                                                   | 4                                       | 64.8                                                        | 4-M4x0.7P(PCDø76)                     | 5                   | 95                  | PT1/4                                          | 105                  | 4     | 159      | 137   | 9.05      | -0.95     | 33.95     | M34x1.5P   | 23.95 | 31.8 |
| P1036                     | 44.6  | 38                               | 55                                                | 64                        | 73                                                   | 6                                       | 80                                                          | 4-M5x0.8P(PCDø88)                     | 5                   | 105                 | PT3/8                                          | 115                  | 6     | 179      | 154   | 10        | -5        | 39        | M44x1.5P   | 24    | 42   |
| P1246                     | 52.9  | 50                               | 64                                                | 76                        | 85                                                   | 4                                       | 90                                                          | 4-M5x0.8P(PCDø98)                     | 6                   | 116                 | PT1/2                                          | 115                  | 6     | 184      | 172   | 10        | -5        | 40        | M52x1.5P   | 25    | 50   |
| P1552                     | 59.6  | 55                               | 73                                                | 85                        | 96                                                   | 4                                       | 102                                                         | 4-M6x1P(PCDø110)                      | 7                   | 137                 | PT1/2                                          | 130                  | 6     | 196      | 210   | 17        | -5        | 47        | M58x1.5P   | 25    | 56   |
| P1875                     | 84.6  | 80                               | 98                                                | 108                       | 121                                                  | 4                                       | 131                                                         | 4-M6x1P(PCDø155)                      | 7                   | 165                 | PT1/2                                          | 160                  | 4     | 230      | 235   | 20        | -5        | 50        | M84x2P     | 25    | 81   |
| P1878                     | 84.6  | 83                               | 98                                                | 108                       | 121                                                  | 4                                       | 131                                                         | 4-M6x1P(PCDø155)                      | 7                   | 165                 | PT1/2                                          | 160                  | 4     | 230      | 235   | 20        | -5        | 50        | M84x2P     | 25    | 81   |
| P2091                     | 99.6  | 95                               | 108                                               | 120                       | 138                                                  | 4                                       | 147                                                         | 4-M6x1P(PCDø165)                      | 7                   | 180                 | PT1/2                                          | 185                  | 6     | 253      | 260   | 25        | -5        | 55        | M99x2P     | 25    | 96   |
| P2093                     | 99.6  | 100                              | 108                                               | 120                       | 138                                                  | 4                                       | 147                                                         | 4-M6x1P(PCDø165)                      | 7                   | 180                 | PT1/2                                          | 185                  | 6     | 253      | 260   | 25        | -5        | 55        | M99x2P     | 25    | 96   |
| P2511                     | 134.6 | 125                              | 148                                               | 160                       | 178                                                  | 4                                       | 184                                                         | 4-M6x1P(PCDø206)                      | 7                   | 233                 | PT1/2                                          | 210                  | 7     | 270.5    | --    | 24        | -6        | 55        | M134x2P    | 25    | 131  |
| P2916                     | 185   | 176.5                            | 210                                               | 224                       | 244                                                  | 5                                       | 250                                                         | 6-M6x1P(PCDø275)                      | 7                   | 310                 | PT3/4                                          | 262.5                | 6     | 308      | --    | 24        | -6        | 65        | M185x3P    | 35    | 180  |
| P3420                     | 225   | 210                              | 250                                               | 264                       | 284                                                  | 5                                       | 290                                                         | 6-M6x1P(PCDø315)                      | 7                   | 365                 | PT3/4                                          | 300                  | 6     | 334      | --    | 36        | -6        | 77        | M225x3P    | 35    | 220  |
| P2916L                    | 185   | 176.5                            | 210                                               | 224                       | 244                                                  | 5                                       | 250                                                         | 6-M6x1P(PCDø275)                      | 7                   | 310                 | PT3/4                                          | 262.5                | 6     | 324      | --    | 36        | -6        | 77        | M185x3P    | 35    | 180  |
| 型式/規格<br>MODEL<br>/ SPEC. | Z     | 活塞行程<br>Piston<br>Stroke<br>(mm) | 最高迴轉速<br>Max. Speed<br>r.p.m.(min <sup>-1</sup> ) | 活塞直徑<br>Piston<br>Dia(mm) | 慣性矩I<br>Moment of<br>Inertia<br>(kg·m <sup>2</sup> ) | 流量<br>Oil<br>Leakage<br>Rate<br>(ℓ/min) | 最高<br>使用壓力<br>Max.<br>Pressure<br>kgf/cm <sup>2</sup> (MPa) | 活塞面積<br>Piston Area(cm <sup>2</sup> ) | 推力側<br>Push<br>Side | 拉力側<br>Pull<br>Side | 最大推(拉)力<br>Max. Operating<br>Force<br>kgf (kN) | 淨重<br>Weight<br>(kg) |       |          |       |           |           |           |            |       |      |
| P0928                     | 5     | 10                               | 8000                                              | 90                        | 0.008                                                | 3.0                                     | 40 (3.9)                                                    | 54                                    | 47.5                | 2000 (19.6)         | 1750 (17.2)                                    | 6.5                  |       |          |       |           |           |           |            |       |      |
| P1036                     | 5     | 15                               | 8000                                              | 105                       | 0.012                                                | 3.0                                     | 40 (3.9)                                                    | 70                                    | 68                  | 2500 (24.5)         | 2400 (23.5)                                    | 9.0                  |       |          |       |           |           |           |            |       |      |
| P1246                     | 5     | 15                               | 7000                                              | 125                       | 0.019                                                | 3.0                                     | 40 (3.9)                                                    | 100                                   | 89                  | 3700 (36.2)         | 3200 (31.3)                                    | 11.9                 |       |          |       |           |           |           |            |       |      |
| P1552                     | 5     | 22                               | 6200                                              | 155                       | 0.053                                                | 3.9                                     | 40 (3.9)                                                    | 160                                   | 150                 | 5900 (57.8)         | 5500 (53.9)                                    | 17.3                 |       |          |       |           |           |           |            |       |      |
| P1875                     | 5     | 25                               | 4700                                              | 180                       | 0.096                                                | 4.2                                     | 40 (3.9)                                                    | 198                                   | 183                 | 6900 (67.6)         | 6400 (62.7)                                    | 26.1                 |       |          |       |           |           |           |            |       |      |
| P1878                     | 5     | 25                               | 4700                                              | 180                       | 0.096                                                | 4.2                                     | 40 (3.9)                                                    | 198                                   | 178                 | 6900 (67.6)         | 6200 (60.8)                                    | 25.5                 |       |          |       |           |           |           |            |       |      |
| P2091                     | 5     | 30                               | 3800                                              | 205                       | 0.16                                                 | 4.5                                     | 40 (3.9)                                                    | 252                                   | 235                 | 8200 (80.4)         | 7700 (75.5)                                    | 33.3                 |       |          |       |           |           |           |            |       |      |
| P2093                     | 5     | 30                               | 3800                                              | 205                       | 0.16                                                 | 4.5                                     | 40 (3.9)                                                    | 252                                   | 226                 | 8200 (80.4)         | 7400 (72.5)                                    | 32.9                 |       |          |       |           |           |           |            |       |      |
| P2511                     | 6     | 30                               | 2800                                              | 250                       | 0.5                                                  | 7.0                                     | 40 (3.9)                                                    | 348                                   | 336                 | 11800 (115.7)       | 11400 (111.8)                                  | 56.1                 |       |          |       |           |           |           |            |       |      |
| P2916                     | 6     | 30                               | 2000                                              | 290                       | 1.6                                                  | 11                                      | 38 (3.7)                                                    | 391                                   | 361                 | 11700 (114.7)       | 10500 (103)                                    | 96.1                 |       |          |       |           |           |           |            |       |      |
| P3420                     | 6     | 42                               | 1600                                              | 340                       | 3.2                                                  | 14                                      | 35 (3.4)                                                    | 510                                   | 474                 | 14300 (140.2)       | 13300 (130.4)                                  | 138.5                |       |          |       |           |           |           |            |       |      |
| P2916L                    | 6     | 42                               | 2000                                              | 290                       | 1.6                                                  | 11                                      | 38 (3.7)                                                    | 391                                   | 361                 | 11700 (114.7)       | 10500 (103)                                    | 100.4                |       |          |       |           |           |           |            |       |      |

★流量測試標準-壓力:30kgf/cm<sup>2</sup>(2.94MPa) 油溫:50°C ★Test standard of oil leakage: Pressure-30 kgf/cm<sup>2</sup>(2.94MPa), Oil temperature-50°C

薄型高速中空油壓迴轉缸

尺寸圖 » Dimensions



規格表 » Specifications

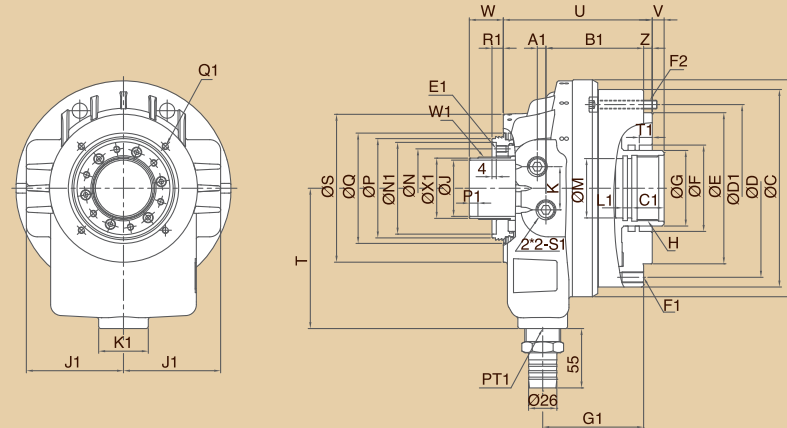
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/SPEC. | A1                                | B1        | C                                                    | C1        | D                                      | D1               | E<br>(h7)                       | E1                            | F          | F1                                               | F2                         | G                                                 | G1                   | H        | J  | J1    |
|--------------------------|-----------------------------------|-----------|------------------------------------------------------|-----------|----------------------------------------|------------------|---------------------------------|-------------------------------|------------|--------------------------------------------------|----------------------------|---------------------------------------------------|----------------------|----------|----|-------|
| F1033S                   | 9                                 | 107.1     | 140                                                  | 25        | 125                                    | 125              | 110                             | 6-M6x1P                       | 65         | 6-M10x1.5P                                       | 6-M8x1.25P                 | 45                                                | 110.5                | M38x1.5P | 33 | 67.5  |
| F1036S                   | 9                                 | 107.1     | 140                                                  | 25        | 115                                    | 125              | 100                             | 6-M5x0.8P                     | 65         | 6-M10x1.5P                                       | 6-M8x1.25P                 | 48                                                | 110.5                | M42x1.5P | 36 | 67.5  |
| F1246S                   | 9                                 | 117.7     | 165                                                  | 30        | 130                                    | 147              | 100                             | 6-M6x1P                       | 80         | 6-M10x1.5P                                       | 6-M8x1.25P                 | 65                                                | 117                  | M55x2P   | 46 | 80    |
| F1552S                   | 9                                 | 125.7     | 190                                                  | 30        | 170                                    | 170              | 130                             | 6-M6x1P                       | 85         | 12-M10x1.5P                                      | 6-M8x1.25P                 | 70                                                | 125                  | M60x2P   | 52 | 91    |
| F1875S                   | 11.6                              | 143       | 215                                                  | 35        | 190                                    | 196              | 160                             | 6-M6x1P                       | 125        | 12-M10x1.5P                                      | 6-M10x1.5P                 | 95                                                | 143                  | M85x2P   | 75 | 107   |
| 型式/規格<br>MODEL<br>/SPEC. | K                                 | K1        | L1                                                   | M         | N                                      | N1               | P                               | P1                            | Q          | Q1                                               | R1                         | S                                                 | S1                   | T        | T1 | U     |
| F1033S                   | 38                                | 46        | 15                                                   | 35        | 49                                     | 62               | 70                              | 4                             | 74         | 4-M5x0.8P(PCDø83)                                | 6                          | 103                                               | PT 1/4               | 115      | 6  | 158.1 |
| F1036S                   | 38                                | 46        | 15                                                   | 38        | 55                                     | 64               | 73                              | 4                             | 79         | 4-M5x0.8P(PCDø88)                                | 10                         | 103                                               | PT 3/8               | 115      | 6  | 158.1 |
| F1246S                   | 40                                | 46        | 15                                                   | 50        | 64                                     | 76               | 85                              | 4                             | 90         | 4-M5x0.8P(PCDø98)                                | 10.5                       | 121                                               | PT 1/2               | 125      | 6  | 164.2 |
| F1552S                   | 40                                | 46        | 15                                                   | 55        | 73                                     | 85               | 96                              | 4                             | 102        | 4-M6x1P(PCDø110)                                 | 10.5                       | 137                                               | PT 1/2               | 140      | 6  | 172.2 |
| F1875S                   | 40                                | 46        | 15                                                   | 80        | 98                                     | 108              | 120                             | 4                             | 126        | 4-M6x1P(PCDø155)                                 | 10.5                       | 165                                               | PT 1/2               | 170      | 4  | 197.3 |
| 型式/規格<br>MODEL<br>/SPEC. | U1                                | V<br>max. | V<br>min                                             | W<br>max. | W1                                     | W<br>min         | X1                              | 活塞行程<br>Piston Stroke<br>(mm) | Z          | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 活塞直徑<br>Piston Dia<br>(mm) | 慣性矩I<br>Moment of Inertia<br>(kg·m <sup>2</sup> ) |                      |          |    |       |
| F1033S                   | 160                               | 10.05     | -4.95                                                | 39.8      | M39x1.5P                               | 24.8             | 37                              | 15                            | 5          | 8000                                             | 105                        | 0.012                                             |                      |          |    |       |
| F1036S                   | 160                               | 10.05     | -4.95                                                | 43.8      | M44x1.5P                               | 28.8             | 41.8                            | 15                            | 5          | 8000                                             | 105                        | 0.012                                             |                      |          |    |       |
| F1246S                   | 180                               | 10.05     | -4.95                                                | 44.25     | M52x1.5P                               | 29.25            | 49.8                            | 15                            | 5          | 7000                                             | 125                        | 0.019                                             |                      |          |    |       |
| F1552S                   | 205                               | 17.05     | -4.95                                                | 50.15     | M58x1.5P                               | 28.15            | 55.8                            | 22                            | 5          | 6200                                             | 155                        | 0.053                                             |                      |          |    |       |
| F1875S                   | 231                               | 20.05     | -4.95                                                | 53.15     | M84x2P                                 | 28.15            | 80.8                            | 25                            | 5          | 4700                                             | 180                        | 0.096                                             |                      |          |    |       |
| 型式/規格<br>MODEL<br>/SPEC. | 流量<br>Oil Leakage Rate<br>(ℓ/min) |           | 最高使用壓力<br>Max. Pressure<br>kgf/cm <sup>2</sup> (MPa) |           | 活塞面積<br>Piston Area (cm <sup>2</sup> ) |                  | 最大推（拉）力<br>Max. Operating Force |                               |            |                                                  |                            |                                                   | 淨重<br>Weight<br>(kg) |          |    |       |
|                          |                                   |           |                                                      |           | 推力側<br>Push Side                       | 拉力側<br>Pull Side | 推力側<br>kgf                      | Push Side<br>(kN)             | 拉力側<br>kgf | Pull Side<br>(kN)                                |                            |                                                   |                      |          |    |       |
| F1033S                   |                                   | 3.0       |                                                      | 40 (3.9)  | 74                                     | 70               | 2600                            | (25.5)                        | 2500       | (24.5)                                           |                            | 8.2                                               |                      |          |    |       |
| F1036S                   |                                   | 3.0       |                                                      | 40 (3.9)  | 70                                     | 68               | 2500                            | (24.5)                        | 2400       | (23.5)                                           |                            | 8.4                                               |                      |          |    |       |
| F1246S                   |                                   | 3.0       |                                                      | 40 (3.9)  | 100                                    | 89               | 3700                            | (36.2)                        | 3200       | (31.3)                                           |                            | 11.5                                              |                      |          |    |       |
| F1552S                   |                                   | 3.9       |                                                      | 40 (3.9)  | 160                                    | 150              | 5900                            | (57.8)                        | 5500       | (53.9)                                           |                            | 15.4                                              |                      |          |    |       |
| F1875S                   |                                   | 4.2       |                                                      | 40 (3.9)  | 198                                    | 183              | 7200                            | (70.5)                        | 6700       | (65.6)                                           |                            | 22.9                                              |                      |          |    |       |

★流量測試標準-壓力:30kgf/cm<sup>2</sup>(2.94MPa) 油溫:50°C ★Test standard of oil leakage: Pressure-30 kgf/cm<sup>2</sup>(2.94MPa), Oil temperature-50°C

超薄型高速中空油壓迴轉缸

尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A1                                                | B1                                | C                                                    | C1                                     | D                               | D1                           | E<br>(h7)                    | E1      | F   | F1                            | F2                                               | G                          | G1   | H      | J   |    |
|---------------------------|---------------------------------------------------|-----------------------------------|------------------------------------------------------|----------------------------------------|---------------------------------|------------------------------|------------------------------|---------|-----|-------------------------------|--------------------------------------------------|----------------------------|------|--------|-----|----|
| PA1246                    | 8                                                 | 80.5                              | 165                                                  | 25                                     | 147                             | 147                          | 130                          | 6-M6x1P | 75  | 12-M10x1.5P                   | 6-M8x1.25P                                       | 65                         | 86   | M55x2P | 46  |    |
| PA1452                    | 8                                                 | 90                                | 183                                                  | 30                                     | 165                             | 165                          | 140                          | 6-M6x1P | 80  | 6-M10x1.5P                    | 6-M8x1.25P                                       | 70                         | 93.5 | M60x2P | 52  |    |
| PA1775                    | 10.5                                              | 109.9                             | 215                                                  | 35                                     | 195                             | 195                          | 160                          | 6-M6x1P | 105 | 12-M10x1.5P                   | 6-M10x1.5P                                       | 95                         | 111  | M85x2P | 75  |    |
| 型式/規格<br>MODEL<br>/ SPEC. | J1                                                | K                                 | K1                                                   | L1                                     | M                               | N                            | N1                           | P       | P1  | Q                             | Q1                                               | R1                         | S    | S1     | T   | T1 |
| PA1246                    | 80                                                | 40                                | 46                                                   | 15                                     | 50                              | 64                           | 76                           | 85      | 9   | 90                            | 4-M5x0.8P(PCDø98)                                | 10.5                       | 121  | PT 3/8 | 120 | 12 |
| PA1452                    | 90                                                | 40                                | 46                                                   | 15                                     | 55                              | 73                           | 85                           | 96      | 8   | 102                           | 4-M6x1P(PCDø110)                                 | 10.5                       | 137  | PT 3/8 | 130 | 12 |
| PA1775                    | 106                                               | 46                                | 46                                                   | 15                                     | 80                              | 98                           | 108                          | 120     | 9   | 126                           | 4-M6x1P(PCDø155)                                 | 10.5                       | 165  | PT 1/2 | 160 | 12 |
| 型式/規格<br>MODEL<br>/ SPEC. | U                                                 | U1                                | V<br>max.                                            | V<br>min                               | W<br>max.                       | W1                           | W<br>min                     | X1      | Z   | 活塞行程<br>Piston Stroke<br>(mm) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 活塞直徑<br>Piston Dia<br>(mm) |      |        |     |    |
| PA1246                    | 120                                               | 183                               | 5                                                    | -11                                    | 45                              | M52x1.5P                     | 29                           | 49.8    | 8   | 16                            | 8000                                             | 128                        |      |        |     |    |
| PA1452                    | 138                                               | 201                               | 11                                                   | -11                                    | 53.5                            | M58x1.5P                     | 31.5                         | 55.8    | 8   | 22                            | 6500                                             | 145                        |      |        |     |    |
| PA1775                    | 165                                               | 233                               | 14                                                   | -11                                    | 57                              | M84x2P                       | 32                           | 80.8    | 8   | 25                            | 5500                                             | 170                        |      |        |     |    |
| 型式/規格<br>MODEL<br>/ SPEC. | 慣性矩I<br>Moment of Inertia<br>(kg·m <sup>2</sup> ) | 流量<br>Oil Leakage Rate<br>(ℓ/min) | 最高使用壓力<br>Max. Pressure<br>kgf/cm <sup>2</sup> (MPa) | 活塞面積<br>Piston Area (cm <sup>2</sup> ) | 最大推（拉）力<br>Max. Operating Force | 推力側<br>Push Side<br>kgf (kN) | 拉力側<br>Pull Side<br>kgf (kN) |         |     |                               |                                                  |                            |      |        |     |    |
| PA1246                    | 0.02                                              | 3.0                               | 46 (4.5)                                             | 103.5                                  | 92                              | 4250 (41.6)                  | 3800 (37.5)                  |         |     |                               |                                                  |                            |      |        |     |    |
| PA1452                    | 0.035                                             | 3.9                               | 46 (4.5)                                             | 134                                    | 123                             | 5500 (53.9)                  | 5100 (50)                    |         |     |                               |                                                  |                            |      |        |     |    |
| PA1775                    | 0.065                                             | 4.2                               | 46 (4.5)                                             | 165                                    | 151                             | 6800 (66.7)                  | 6300 (61.8)                  |         |     |                               |                                                  |                            |      |        |     |    |

★流量測試標準-壓力:30kgf/cm<sup>2</sup>(2.94MPa) 油溫:50°C ★Test standard of oil leakage: Pressure-30 kgf/cm<sup>2</sup>(2.94MPa), Oil temperature-50°C

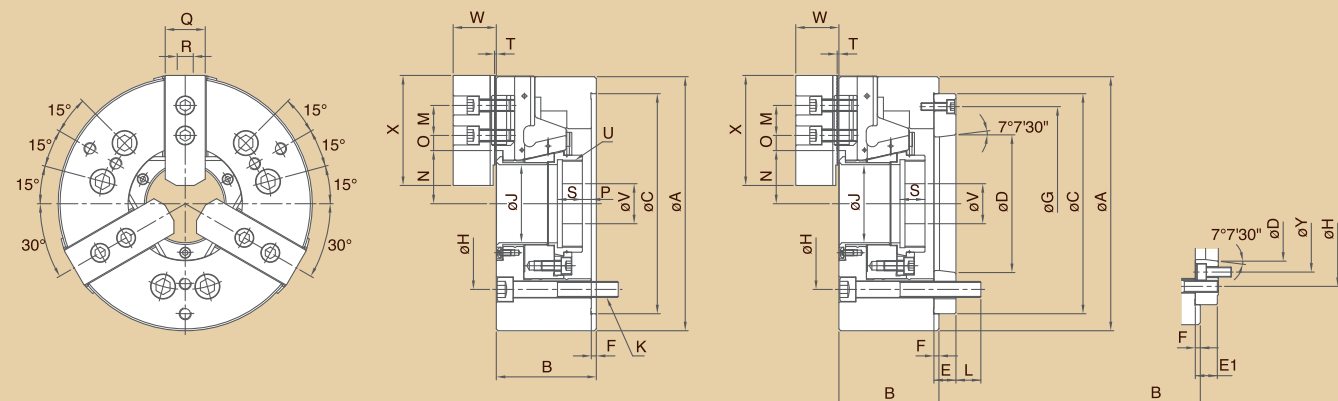
# OPB LARGE THROUGH HOLE 3-JAW HIGH SPEED POWER CHUCKS

## 大孔徑三爪 高速中空油壓夾頭

新產品  
NEW



尺寸圖 » Dimensions



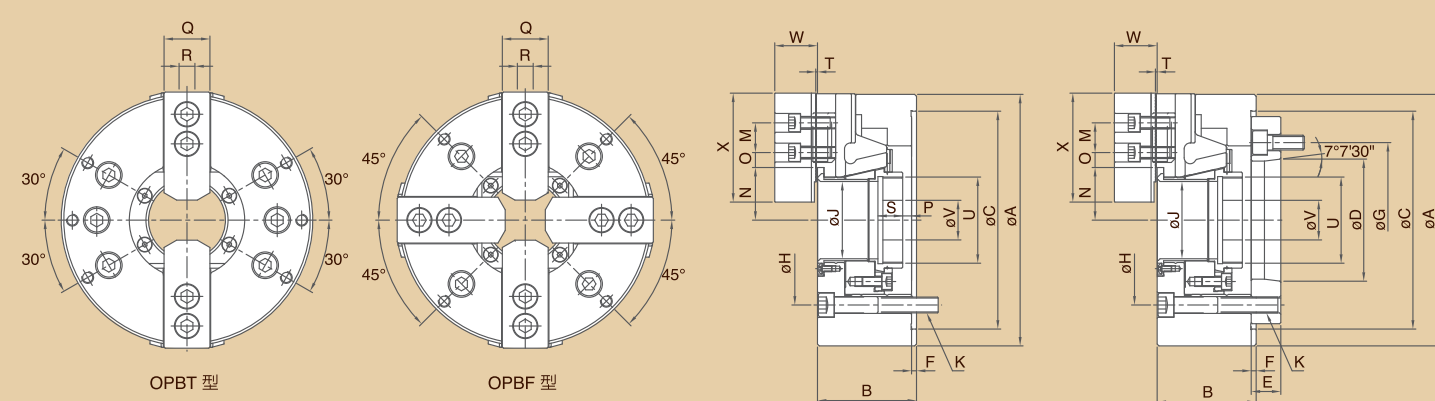
# OPBF, OPBT LARGE THROUGH HOLE HIGH SPEED POWER CHUCKS

## 大孔徑二爪 大孔徑四爪 高速中空油壓夾頭

新產品  
NEW



尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | 主軸鼻端番號<br>Nose Of<br>Spindle           |        | A                                            | B         | C<br>(h6)                                                       | D         | E                              | E1                   | F                                        | G     | H                                                | J     | K           |
|---------------------------|----------------------------------------|--------|----------------------------------------------|-----------|-----------------------------------------------------------------|-----------|--------------------------------|----------------------|------------------------------------------|-------|--------------------------------------------------|-------|-------------|
| OPB-206                   | A <sub>2</sub> -5                      |        | 170                                          | 81        | 140                                                             | 82.563    | --                             | 20                   | 5                                        | --    | PCDø122                                          | 52    | 6-M10x1.5P  |
| OPB-208                   | A <sub>2</sub> -6                      |        | 215                                          | 91        | 170                                                             | 106.375   | --                             | 22                   | 5                                        | --    | PCDø150                                          | 66    | 6-M12x1.75P |
| OPB-210                   | A <sub>2</sub> -8                      |        | 256                                          | 100       | 220                                                             | 139.719   | --                             | 28                   | 5                                        | --    | PCDø180                                          | 81    | 6-M16x2P    |
| OPB-212                   | A <sub>2</sub> -11(A <sub>2</sub> -8)  |        | 315                                          | 108       | 300                                                             | 196.869   | 22                             | 33                   | 5                                        | 260   | PCDø235                                          | 106   | 6-M20x2.5P  |
| OPB-215                   | A <sub>2</sub> -15(A <sub>2</sub> -11) |        | 405                                          | 133       | 380                                                             | 285.775   | 27                             | 41                   | 6                                        | 330.2 | PCDø330.2                                        | 142   | 6-M24x3P    |
| OPB-218                   | A <sub>2</sub> -15(A <sub>2</sub> -11) |        | 455                                          | 134       | 380                                                             | 285.775   | 27                             | 41                   | 6                                        | 330.2 | PCDø330.2                                        | 166.5 | 6-M24x3P    |
| 型式/規格<br>MODEL<br>/ SPEC. | L                                      | M      | N<br>max.                                    | N<br>min. | O<br>max.                                                       | O<br>min. | P<br>max.                      | P<br>min.            | Q                                        | R     | S                                                | T     | U           |
| OPB-206                   | --                                     | 20     | 36.35                                        | 33.6      | 21.1                                                            | 9.1       | 7                              | -5                   | 31                                       | 12    | 23                                               | 2     | M60x2P      |
| OPB-208                   | --                                     | 25     | 46.6                                         | 42.9      | 26.6                                                            | 11.6      | 10                             | -6                   | 35                                       | 14    | 25                                               | 2     | M75x2P      |
| OPB-210                   | --                                     | 30     | 54.6                                         | 50.1      | 33.1                                                            | 13.6      | 8.5                            | -10.5                | 40                                       | 16    | 25                                               | 2     | M90x2P      |
| OPB-212                   | 27                                     | 30     | 69.7                                         | 64.3      | 45.6                                                            | 12.6      | 8                              | -15                  | 50                                       | 21    | 28                                               | 2     | M115x2P     |
| OPB-215                   | 32                                     | 43     | 95.1                                         | 89.5      | 43.55                                                           | 16.55     | 8                              | -15                  | 62                                       | 22    | 42.5                                             | 5     | M155x2P     |
| OPB-218                   | 32                                     | 43     | 108.29                                       | 102.45    | 55.55                                                           | 16.55     | 11.5                           | -13                  | 62                                       | 22    | 38                                               | 5     | M180x3P     |
| 型式/規格<br>MODEL<br>/ SPEC. | V                                      | W      | X                                            | Y         | 通孔直徑<br>Thru-Hole<br>[Diameter] (mm)                            |           | 柱塞行程<br>Plunger Stroke<br>(mm) |                      | 爪行程〔直徑〕<br>Jaw Stroke<br>[Diameter] (mm) |       | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) |       |             |
| OPB-206                   | 20                                     | 37.5   | 73                                           | 104.8     | 52                                                              |           | 12                             |                      | 5.5                                      |       | 6000                                             |       |             |
| OPB-208                   | 30                                     | 39.5   | 80                                           | 133.4     | 66                                                              |           | 16                             |                      | 7.4                                      |       | 5000                                             |       |             |
| OPB-210                   | 40                                     | 43     | 110                                          | 171.4     | 81                                                              |           | 19                             |                      | 8.8                                      |       | 4200                                             |       |             |
| OPB-212                   | 50                                     | 51     | 129                                          | 171.4     | 106                                                             |           | 23                             |                      | 10.6                                     |       | 3400                                             |       |             |
| OPB-215                   | 80                                     | 66     | 165                                          | 235       | 142                                                             |           | 23                             |                      | 10.6                                     |       | 2500                                             |       |             |
| OPB-218                   | 80                                     | 66     | 165                                          | 235       | 166.5                                                           |           | 24.5                           |                      | 11.3                                     |       | 2000                                             |       |             |
| 型式/規格<br>MODEL<br>/ SPEC. | 最大拉力<br>Max. Pull<br>Force<br>kgf (kN) |        | 最大靜夾持力<br>Max. Gripping<br>Force<br>kgf (kN) |           | 最大設定油壓壓力<br>Max. Hydr.<br>Pressure<br>kgf/cm <sup>2</sup> (MPa) |           |                                | 淨重<br>Weight<br>(kg) | 搭配<br>油壓缸型號<br>Matching<br>Cylinder      |       | 夾持範圍<br>Gripping<br>Range                        |       |             |
| OPB-206                   | 2200                                   | (21.5) | 5900                                         | (58)      | 21 (2.0)                                                        |           |                                | 12.3                 | P1452S                                   |       | ø13~ø170                                         |       |             |
| OPB-208                   | 3400                                   | (33)   | 8800                                         | (86)      | 26 (2.5)                                                        |           |                                | 21.7                 | P1666S                                   |       | ø50~ø215                                         |       |             |
| OPB-210                   | 4300                                   | (42)   | 11100                                        | (109)     | 29 (2.8)                                                        |           |                                | 33.6                 | P1881S                                   |       | ø34~ø254                                         |       |             |
| OPB-212                   | 5600                                   | (55)   | 14580                                        | (143)     | 29 (2.8)                                                        |           |                                | 57.7                 | P2110S                                   |       | ø50~ø315                                         |       |             |
| OPB-215                   | 7240                                   | (71)   | 18250                                        | (179)     | 26 (2.5)                                                        |           |                                | 122.5                | P2916                                    |       | ø60~ø405                                         |       |             |
| OPB-218                   | 7240                                   | (71)   | 18250                                        | (179)     | 26 (2.5)                                                        |           |                                | 165                  | P2916                                    |       | ø80~ø455                                         |       |             |

規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | 主軸鼻端番號<br>Nose Of<br>Spindle                     | A                                      | B         | C<br>(h6)                                    | D         | E                                                               | F         | G                                   | H       | J                                        |    |
|---------------------------|--------------------------------------------------|----------------------------------------|-----------|----------------------------------------------|-----------|-----------------------------------------------------------------|-----------|-------------------------------------|---------|------------------------------------------|----|
| OPBT-206                  | A <sub>2</sub> -5                                | 170                                    | 81        | 140                                          | 82.563    | 20                                                              | 5         | PCDø104.8                           | PCDø122 | 52                                       |    |
| OPBT-208                  | A <sub>2</sub> -6                                | 215                                    | 91        | 170                                          | 106.375   | 22                                                              | 5         | PCDø133.4                           | PCDø150 | 66                                       |    |
| OPBT-210                  | A <sub>2</sub> -8                                | 256                                    | 100       | 220                                          | 139.719   | 28                                                              | 5         | PCDø171.4                           | PCDø180 | 81                                       |    |
| OPBF-206                  | A <sub>2</sub> -5                                | 170                                    | 81        | 140                                          | 82.563    | 20                                                              | 5         | PCDø104.8                           | PCDø122 | 52                                       |    |
| OPBF-208                  | A <sub>2</sub> -6                                | 215                                    | 91        | 170                                          | 106.375   | 22                                                              | 5         | PCDø133.4                           | PCDø150 | 66                                       |    |
| OPBF-210                  | A <sub>2</sub> -8                                | 256                                    | 100       | 220                                          | 139.719   | 28                                                              | 5         | PCDø171.4                           | PCDø180 | 81                                       |    |
| 型式/規格<br>MODEL<br>/ SPEC. | K                                                | M                                      | N<br>max. | N<br>min.                                    | O<br>max. | O<br>min.                                                       | P<br>max. | P<br>min.                           | Q       | R                                        | S  |
| OPBT-206                  | 6-M10x1.5P                                       | 20                                     | 36.35     | 33.6                                         | 21.1      | 9.1                                                             | 7         | -5                                  | 31      | 12                                       | 23 |
| OPBT-208                  | 6-M12x1.75P                                      | 25                                     | 46.6      | 42.9                                         | 26.6      | 11.6                                                            | 10        | -6                                  | 35      | 14                                       | 25 |
| OPBT-210                  | 6-M16x2P                                         | 30                                     | 54.6      | 50.1                                         | 33.1      | 13.6                                                            | 8.5       | -10.5                               | 40      | 16                                       | 25 |
| OPBF-206                  | 4-M10x1.5P                                       | 20                                     | 36.35     | 33.6                                         | 21.1      | 9.1                                                             | 7         | -5                                  | 31      | 12                                       | 23 |
| OPBF-208                  | 4-M12x1.75P                                      | 25                                     | 46.6      | 42.9                                         | 26.6      | 11.6                                                            | 10        | -6                                  | 35      | 14                                       | 25 |
| OPBF-210                  | 4-M16x2P                                         | 30                                     | 54.6      | 50.1                                         | 33.1      | 13.6                                                            | 8.5       | -10.5                               | 40      | 16                                       | 25 |
| 型式/規格<br>MODEL<br>/ SPEC. | T                                                | U                                      | V         | W                                            | X         | 通孔直徑<br>Thru-Hole<br>[Diameter] (mm)                            |           | 柱塞行程<br>Plunger Stroke<br>(mm)      |         | 爪行程〔直徑〕<br>Jaw Stroke<br>[Diameter] (mm) |    |
| OPBT-206                  | 2                                                | M60x2P                                 | 20        | 37.5                                         | 73        | 52                                                              |           | 12                                  |         | 5.5                                      |    |
| OPBT-208                  | 2                                                | M75x2P                                 | 30        | 39.5                                         | 80        | 66                                                              |           | 16                                  |         | 7.4                                      |    |
| OPBT-210                  | 2                                                | M90x2P                                 | 40        | 43                                           | 110       | 81                                                              |           | 19                                  |         | 8.8                                      |    |
| OPBF-206                  | 2                                                | M60x2P                                 | 20        | 37.5                                         | 73        | 52                                                              |           | 12                                  |         | 5.5                                      |    |
| OPBF-208                  | 2                                                | M75x2P                                 | 30        | 39.5                                         | 80        | 66                                                              |           | 16                                  |         | 7.4                                      |    |
| OPBF-210                  | 2                                                | M90x2P                                 | 40        | 43                                           | 110       | 81                                                              |           | 19                                  |         | 8.8                                      |    |
| 型式/規格<br>MODEL<br>/ SPEC. | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 最大拉力<br>Max. Pull<br>Force<br>kgf (kN) |           | 最大靜夾持力<br>Max. Gripping<br>Force<br>kgf (kN) |           | 最大設定油壓壓力<br>Max. Hydr.<br>Pressure<br>kgf/cm <sup>2</sup> (MPa) |           | 搭配<br>油壓缸型號<br>Matching<br>Cylander |         | 夾持範圍<br>Gripping<br>Range                |    |
| OPBT-206                  | 6000                                             | 1550                                   | (15)      | 3950                                         | (38.5)    | 15                                                              | (1.4)     | P1452S                              |         | ø13~ø170                                 |    |
| OPBT-208                  | 5000                                             | 2250                                   | (22)      | 5850                                         | (57)      | 17                                                              | (1.6)     | P1666S                              |         | ø50~ø215                                 |    |
| OPBT-210                  | 4200                                             | 2900                                   | (28)      | 7400                                         | (72.5)    | 19.5                                                            | (1.9)     | P1881S                              |         | ø34~ø254                                 |    |
| OPBF-206                  | 4500                                             | 1700                                   | (16.5)    | 4400                                         | (42.5)    | 16                                                              | (1.5)     | P1452S                              |         | ø22~ø170                                 |    |
| OPBF-208                  | 3600                                             | 2500                                   | (24.5)    | 6450                                         | (63)      | 19                                                              | (1.8)     | P1666S                              |         | ø50~ø215                                 |    |
| OPBF-210                  | 3200                                             | 3200                                   | (31)      | 8200                                         | (80)      | 21.5                                                            | (2.1)     | P1881S                              |         | ø32~ø254                                 |    |

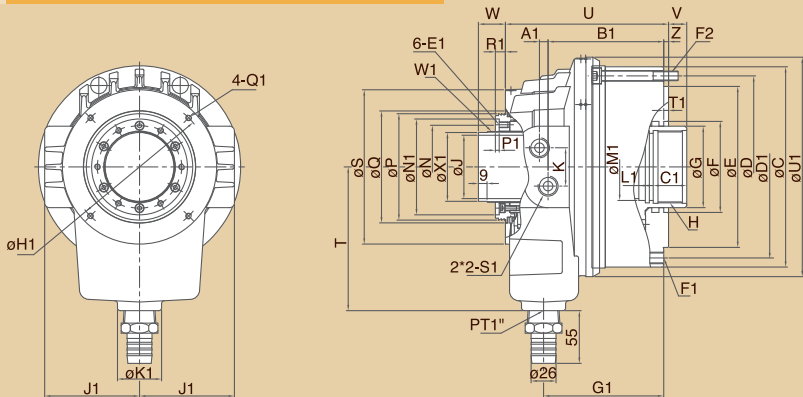
P-S LARGE THROUGH HOLE THIN HOLLOW ROTARY HYDRAULIC CYLINDERS

大孔徑薄型中空油壓迴轉缸

新產品  
NEW

- 1.薄型、重量輕：超薄外型構造，重量比傳統迴轉缸輕，形體結構小型化，在高速迴轉時，可減輕機械負擔。
- 2.大的貫通孔徑：大孔徑設計使加工物之貫通孔徑的範圍增加。
- 3.安全構造：內藏止回閥設計，於突發之壓降時仍可保持推力。

尺寸圖 » Dimensions



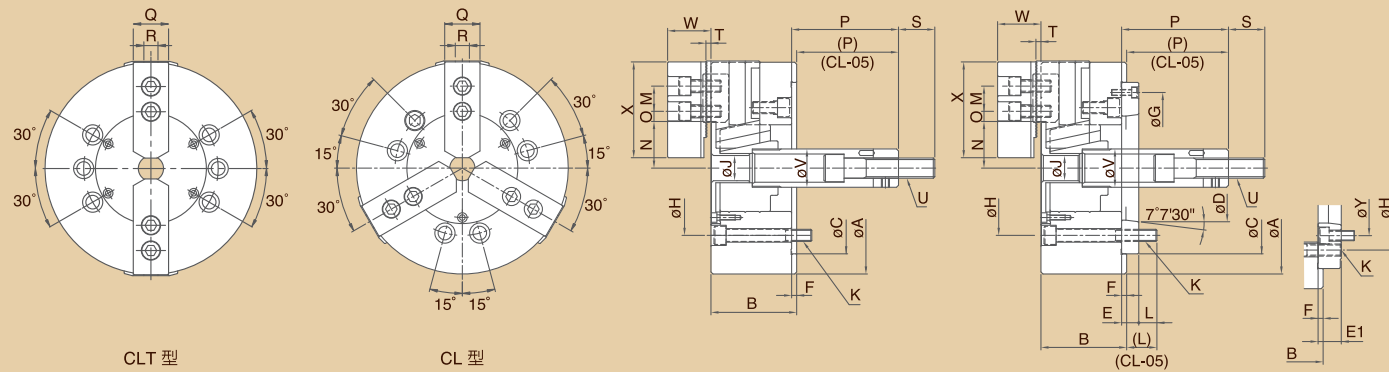
- 1.Thin & Lightweight:  
Thin outer structure makes the weight lighter than the traditional rotary cylinders; meanwhile, the compactness and miniaturization lower the burden of machines.
- 2.Large Thru-hole Diameter:  
With large open center, gripping range of Bar stock can be increased.
- 3.Built-in Check Valve:  
With built-in " check valve", work pieces can be effectively prevented from flying out during abrupt failure of pressure.

CL,CLT SOLID POWER CHUCKS

中實油壓夾頭



尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A1                                                   | B1                                | C                                                    | C1                                     | D                | D1                              | E<br>(h7)         | E1         | F                 | F1                            | F2                                               | G                          | G1    | H       |     |        |     |    |
|---------------------------|------------------------------------------------------|-----------------------------------|------------------------------------------------------|----------------------------------------|------------------|---------------------------------|-------------------|------------|-------------------|-------------------------------|--------------------------------------------------|----------------------------|-------|---------|-----|--------|-----|----|
| P1452S                    | 9                                                    | 109.2                             | 180                                                  | 30                                     | 165              | 165                             | 140               | M6x1P      | 85                | 6-M10x1.5P                    | 6-M8x1.25P                                       | 70                         | 113.9 | M60x2P  |     |        |     |    |
| P1666S                    | 9                                                    | 120.7                             | 209                                                  | 35                                     | 190              | 190                             | 168               | M6x1P      | 95                | 12-M12x1.75P                  | 6-M10x1.5P                                       | 85                         | 125.4 | M75x2P  |     |        |     |    |
| P1881S                    | 10.7                                                 | 133.7                             | 222                                                  | 35                                     | 205              | 205                             | 168               | M6x1P      | 110               | 12-M12x1.75P                  | 6-M10x1.5P                                       | 100                        | 139.2 | M90x2P  |     |        |     |    |
| P2110S                    | 12                                                   | 152.2                             | 266                                                  | 35                                     | 240              | 240                             | 200               | M6x1P      | 135               | 12-M12x1.75P                  | 6-M12x1.75P                                      | 125                        | 158.5 | M115x2P |     |        |     |    |
| 型式/規格<br>MODEL<br>/ SPEC. | H1                                                   | J                                 | J1                                                   | K                                      | K1               | L1                              | M1                | N          | N1                | P                             | P1                                               | Q                          | Q1    | R1      | S   | S1     | T   | T1 |
| P1452S                    | 120                                                  | 52                                | 83                                                   | 40                                     | 46               | 15                              | 55                | 73         | 85                | 96                            | 4                                                | 102                        | M6x1P | 10.5    | 137 | PT 1/2 | 130 | 4  |
| P1666S                    | 145                                                  | 66                                | 99                                                   | 40                                     | 46               | 15                              | 70                | 88         | 100               | 111                           | 4                                                | 117                        | M6x1P | 10.5    | 161 | PT 1/2 | 150 | 5  |
| P1881S                    | 166                                                  | 81                                | 107.5                                                | 40                                     | 46               | 15                              | 85                | 103        | 113               | 126                           | 4                                                | 132                        | M6x1P | 10.5    | 176 | PT 1/2 | 175 | 5  |
| P2110S                    | 201                                                  | 106                               | 125                                                  | 40                                     | 46               | 15                              | 110               | 133        | 145               | 160                           | 4                                                | 166                        | M6x1P | 10.5    | 210 | PT 1/2 | 200 | 5  |
| 型式/規格<br>MODEL<br>/ SPEC. | U                                                    | U1                                | V<br>max.                                            | V<br>min                               | W<br>max.        | W1                              | W<br>min          | X1         | Z                 | 活塞行程<br>Piston Stroke<br>(mm) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 活塞直徑<br>Piston Dia<br>(mm) |       |         |     |        |     |    |
| P1452S                    | 155.7                                                | 201                               | 17                                                   | -3                                     | 48.2             | M58x1.5P                        | 28.2              | 55.8       | 5                 | 20                            | 6500                                             | 145                        |       |         |     |        |     |    |
| P1666S                    | 170.2                                                | 229                               | 19                                                   | -3                                     | 50.2             | M74x1.5P                        | 28.2              | 71.8       | 5                 | 22                            | 5600                                             | 165                        |       |         |     |        |     |    |
| P1881S                    | 189.2                                                | 240                               | 21.1                                                 | -3.9                                   | 53.2             | M89x2P                          | 28.2              | 85.8       | 5                 | 25                            | 4800                                             | 180                        |       |         |     |        |     |    |
| P2110S                    | 216.7                                                | 284                               | 19                                                   | -11                                    | 58.2             | M118x2P                         | 28.2              | 114.8      | 5                 | 30                            | 3500                                             | 210                        |       |         |     |        |     |    |
| 型式/規格<br>MODEL<br>/ SPEC. | 慣性矩I<br>Moment<br>of Inertia<br>(kg·m <sup>2</sup> ) | 流量<br>Oil Leakage Rate<br>(ℓ/min) | 最高使用壓力<br>Max. Pressure<br>kgf/cm <sup>2</sup> (MPa) | 活塞面積<br>Piston Area (cm <sup>2</sup> ) |                  | 最大推(拉)力<br>Max. Operating Force |                   |            |                   | 淨重<br>Weight<br>(kg)          |                                                  |                            |       |         |     |        |     |    |
|                           |                                                      |                                   |                                                      | 推力側<br>Push Side                       | 拉力側<br>Pull Side | 推力側<br>kgf                      | Push Side<br>(kN) | 拉力側<br>kgf | Pull Side<br>(kN) |                               |                                                  |                            |       |         |     |        |     |    |
|                           | P1452S                                               | 0.035                             | 3.9                                                  | 40                                     | (3.9)            | 137                             | 126               | 4860       | (47.6)            | 4464                          | (43.7)                                           | 12.3                       |       |         |     |        |     |    |
|                           | P1666S                                               | 0.07                              | 4                                                    | 40                                     | (3.9)            | 170                             | 157               | 6048       | (59.3)            | 5580                          | (54.7)                                           | 17.4                       |       |         |     |        |     |    |
|                           | P1881S                                               | 0.09                              | 4.3                                                  | 40                                     | (3.9)            | 191                             | 175               | 6804       | (66.7)            | 6264                          | (61.4)                                           | 21.9                       |       |         |     |        |     |    |
| P2110S                    | 0.20                                                 | 6.0                               | 35                                                   | (3.4)                                  | 232              | 223.5                           | 6900              | (67.6)     | 6650              | (65.2)                        | 35.8                                             |                            |       |         |     |        |     |    |

★流量測試標準-壓力:30kgf/cm<sup>2</sup>(2.94MPa) 油溫:50°C ★Test standard of oil leakage: Pressure-30 kgf/cm<sup>2</sup>(2.94MPa), Oil temperature-50°C

規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | 主軸鼻端番號<br>Nose Of<br>Spindle      | A                                               | B                                                | C<br>(h6)                              | D                                            | E                                                                   | E1                   | F                                   | G                         | H     | J         | K           | L  | M   |       |
|---------------------------|-----------------------------------|-------------------------------------------------|--------------------------------------------------|----------------------------------------|----------------------------------------------|---------------------------------------------------------------------|----------------------|-------------------------------------|---------------------------|-------|-----------|-------------|----|-----|-------|
| CL-05                     | Az-4                              | 135                                             | 55                                               | 80                                     | 63.513                                       | --                                                                  | --                   | 7                                   | --                        | 100   | --        | 3-M8x1.25P  | 14 | 14  |       |
| CL-06                     | Az-5                              | 165                                             | 74                                               | 140                                    | 82.563                                       | 15                                                                  | --                   | 5                                   | 116                       | 104.8 | 21        | 6-M10x1.5P  | 19 | 20  |       |
| CL-08                     | Az-6(Az-5)                        | 210                                             | 85                                               | 170                                    | 106.375                                      | 17                                                                  | 23                   | 5                                   | 150                       | 133.4 | 25        | 6-M12x1.75P | 18 | 25  |       |
| CL-10                     | Az-8(Az-6)                        | 254                                             | 89                                               | 220                                    | 139.719                                      | 18                                                                  | 28                   | 5                                   | 190                       | 171.4 | 34        | 6-M16x2P    | 25 | 30  |       |
| CL-12                     | Az-8                              | 304                                             | 106                                              | 220                                    | 139.719                                      | 18                                                                  | --                   | 6                                   | 190                       | 171.4 | 34        | 6-M16x2P    | 20 | 30  |       |
| CLT-06                    | Az-5                              | 165                                             | 74                                               | 140                                    | 82.563                                       | 15                                                                  | --                   | 5                                   | 116                       | 104.8 | 21        | 6-M10x1.5P  | 19 | 20  |       |
| CLT-08                    | Az-6(Az-5)                        | 210                                             | 85                                               | 170                                    | 106.375                                      | 17                                                                  | 23                   | 5                                   | 150                       | 133.4 | 25        | 6-M12x1.75P | 18 | 25  |       |
| CLT-10                    | Az-8(Az-6)                        | 254                                             | 89                                               | 220                                    | 139.719                                      | 18                                                                  | 28                   | 5                                   | 190                       | 171.4 | 34        | 6-M16x2P    | 25 | 30  |       |
| CLT-12                    | Az-8                              | 304                                             | 106                                              | 220                                    | 139.719                                      | 18                                                                  | --                   | 6                                   | 190                       | 171.4 | 34        | 6-M16x2P    | 20 | 30  |       |
| 型式/規格<br>MODEL<br>/ SPEC. | N<br>max.                         | N<br>min.                                       | O<br>max.                                        | O<br>min.                              | P<br>max.                                    | P<br>min.                                                           | Q                    | R                                   | S                         | T     | U         | V           | W  | X   | Y     |
| CL-05                     | 30.4                              | 27.2                                            | 17.1                                             | 9.6                                    | 9                                            | -6                                                                  | 25                   | 10                                  | 35                        | 2     | M12x1.75P | 28          | 31 | 62  | --    |
| CL-06                     | 37.8                              | 33.25                                           | 15.1                                             | 9.1                                    | 101.5                                        | 81.5                                                                | 31                   | 12                                  | 36                        | 4     | M16x2P    | 34          | 39 | 73  | --    |
| CL-08                     | 46.3                              | 41.9                                            | 22.1                                             | 10.1                                   | 127                                          | 106                                                                 | 35                   | 14                                  | 36                        | 5     | M20x2.5P  | 38          | 42 | 95  | 104.8 |
| CL-10                     | 51.4                              | 47                                              | 30.6                                             | 9.6                                    | 158                                          | 133                                                                 | 40                   | 16                                  | 36                        | 5     | M20x2.5P  | 45          | 46 | 110 | 133.4 |
| CL-12                     | 60.63                             | 55.32                                           | 48.55                                            | 20.05                                  | 163                                          | 133                                                                 | 50                   | 18                                  | 36                        | 5     | M20x2.5P  | 50          | 54 | 129 | --    |
| CLT-06                    | 37.8                              | 33.25                                           | 15.1                                             | 9.1                                    | 101.5                                        | 81.5                                                                | 31                   | 12                                  | 36                        | 4     | M16x2P    | 34          | 39 | 73  | --    |
| CLT-08                    | 46.3                              | 41.9                                            | 22.1                                             | 10.1                                   | 127                                          | 106                                                                 | 35                   | 14                                  | 36                        | 5     | M20x2.5P  | 38          | 42 | 95  | 104.8 |
| CLT-10                    | 51.4                              | 47                                              | 30.6                                             | 9.6                                    | 158                                          | 133                                                                 | 40                   | 16                                  | 36                        | 5     | M20x2.5P  | 45          | 46 | 110 | 133.4 |
| CLT-12                    | 60.7                              | 55.45                                           | 48.6                                             | 12.6                                   | 163                                          | 133                                                                 | 50                   | 18                                  | 36                        | 5     | M20x2.5P  | 50          | 54 | 129 | --    |
| 型式/規格<br>MODEL<br>/ SPEC. | 柱塞行程<br>Plunger<br>Stroke<br>(mm) | 爪行程<br>(直徑)<br>Jaw Stroke<br>[Diameter]<br>(mm) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 最大拉力<br>Max. Pull<br>Force<br>kgf (kN) | 最大靜夾持力<br>Max. Gripping<br>Force<br>kgf (kN) | 最大設定<br>油壓壓力<br>Max. Hydr.<br>Pressure<br>kgf/cm <sup>2</sup> (MPa) | 淨重<br>Weight<br>(kg) | 搭配<br>油壓缸型號<br>Matching<br>Cylinder | 夾持範圍<br>Gripping<br>Range |       |           |             |    |     |       |
| CL-05                     | 15                                | 6.4                                             | 5500                                             | 800 (7.8)                              | 2450 (24)                                    | 25 (2.5)                                                            | 6                    | L0815                               | ø8~ø135                   |       |           |             |    |     |       |
| CL-06                     | 20                                | 8.5                                             | 5000                                             | 1730 (17)                              | 5200 (51)                                    | 25 (2.5)                                                            | 11.4                 | L1020(L1020R)                       | ø18~ø165                  |       |           |             |    |     |       |
| CL-08                     | 21                                | 8.8                                             | 4600                                             | 2440 (24)                              | 7440 (73)                                    | 25 (2.5)                                                            | 21.9                 | L1225(L1225R)                       | ø12~ø210                  |       |           |             |    |     |       |
| CL-10                     | 25                                | 8.8                                             | 4000                                             | 2850 (28)                              | 10810 (106)                                  | 29 (2.8)                                                            | 33.4                 | L1225(L1225R)                       | ø16~ø254                  |       |           |             |    |     |       |
| CL-12                     | 30                                | 10.5                                            | 3200                                             | 4080 (40)                              | 15500 (152)                                  | 29 (2.8)                                                            | 58.5                 | L1530(L1530R)                       | ø18~ø304                  |       |           |             |    |     |       |
| CLT-06                    | 20                                | 8.5                                             | 5000                                             | 1220 (12)                              | 3460 (34)                                    | 17 (1.7)                                                            | 11.1                 | L1020(L1020R)                       | ø9~ø165                   |       |           |             |    |     |       |
| CLT-08                    | 21                                | 8.8                                             | 4000                                             | 1630 (16)                              | 4990 (49)                                    | 16 (1.6)                                                            | 21.3                 | L1225(L1225R)                       | ø12~ø210                  |       |           |             |    |     |       |
| CLT-10                    | 25                                | 8.8                                             | 3500                                             | 1930 (19)                              | 7140 (70)                                    | 19 (1.9)                                                            | 32.6                 | L1225(L1225R)                       | ø15~ø254                  |       |           |             |    |     |       |
| CLT-12                    | 30                                | 10.5                                            | 3000                                             | 2750 (27)                              | 10300 (101)                                  | 20 (2.0)                                                            | 57.0                 | L1530(L1530R)                       | ø20~ø304                  |       |           |             |    |     |       |

# CL-DP 3-JAW SOLID CHUCK WITH ANTI-CHIPS SEALED

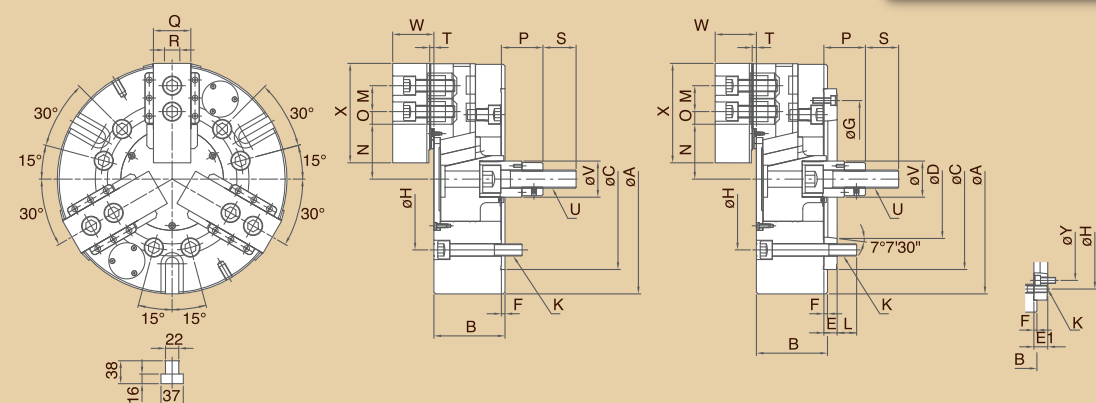
## 三爪中實油壓夾頭

防塵專利結構可以防止鐵屑進入本體內部。  
Dustproof patent structure can prevent the metal chips get into chuck inside.

新產品  
**NEW**



尺寸圖 » Dimensions



規格表 » Specifications

| 型式/規格<br>MODEL<br>/ SPEC. | 主軸鼻端番號<br>Nose Of<br>Spindle           | A    | B   | C<br>(h6) | D       | E  | E1 | F | G     | H     | K          | L  | M  |
|---------------------------|----------------------------------------|------|-----|-----------|---------|----|----|---|-------|-------|------------|----|----|
| CL-12DP                   | A <sub>2</sub> -8                      | 304  | 110 | 220       | 139.719 | 18 | -- | 6 | 190   | 171.4 | 6-M16x2P   | 20 | 30 |
| CL-15DP                   | A <sub>2</sub> -11                     | 381  | 118 | 300       | 196.869 | 22 | -- | 6 | 260   | 235   | 6-M20x2.5P | 32 | 43 |
| CL-18DP                   | A <sub>2</sub> -11                     | 450  | 118 | 300       | 196.869 | 22 | -- | 6 | 260   | 235   | 6-M20x2.5P | 32 | 43 |
| CL-21DP                   | A <sub>2</sub> -15(A <sub>2</sub> -11) | 530  | 129 | 380       | 285.775 | 27 | 41 | 6 | 330.2 | 330.2 | 6-M24x3P   | 33 | 60 |
| CL-24DP                   | A <sub>2</sub> -15(A <sub>2</sub> -11) | 610  | 129 | 380       | 285.775 | 27 | 41 | 6 | 330.2 | 330.2 | 6-M24x3P   | 33 | 60 |
| CL-32DP                   | A <sub>2</sub> -15(A <sub>2</sub> -11) | 800  | 129 | 380       | 285.775 | 27 | 41 | 6 | 330.2 | 330.2 | 6-M24x3P   | 33 | 60 |
| CL-40DP                   | A <sub>2</sub> -15(A <sub>2</sub> -11) | 1000 | 129 | 380       | 285.775 | 27 | 41 | 6 | 330.2 | 330.2 | 6-M24x3P   | 33 | 60 |

| 型式/規格<br>MODEL<br>/ SPEC. | N<br>max. | N<br>min. | O<br>max. | O<br>min. | P<br>max. | P<br>min. | Q  | R    | S  | T | U        | V  | W    | X   | Y   |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----|------|----|---|----------|----|------|-----|-----|
| CL-12DP                   | 60.63     | 55.32     | 48.55     | 20.05     | 163       | 133       | 50 | 18   | 36 | 5 | M20x2.5P | 50 | 54   | 129 | -   |
| CL-15DP                   | 69.05     | 60.97     | 58.05     | 40.05     | 104       | 69        | 62 | 25.5 | 55 | 7 | M30x3.5P | 60 | 68   | 165 | --- |
| CL-18DP                   | 99.46     | 91.38     | 58.05     | 40.05     | 92        | 57        | 62 | 25.5 | 55 | 7 | M30x3.5P | 60 | 68   | 165 | --  |
| CL-21DP                   | 80.49     | 72.41     | 101.8     | 41.8      | 96.95     | 61.95     | 65 | 25   | 55 | 7 | M30x3.5P | 60 | 75.5 | 180 | 235 |
| CL-24DP                   | 119.49    | 111.41    | 101.8     | 41.8      | 96.95     | 61.95     | 65 | 25   | 55 | 7 | M30x3.5P | 60 | 75.5 | 180 | 235 |
| CL-32DP                   | 119.49    | 111.39    | 197.8     | 41.8      | 97        | 61.95     | 65 | 25   | 55 | 7 | M30x3.5P | 60 | 75.5 | 180 | 235 |
| CL-40DP                   | 119.49    | 111.39    | 299.8     | 41.8      | 97        | 62        | 65 | 25   | 55 | 7 | M30x3.5P | 60 | 75.5 | 180 | 235 |

| 型式/規格<br>MODEL<br>/ SPEC. | 柱塞行程<br>Plunger<br>Stroke<br>(mm) | 爪行程<br>(直徑)<br>Jaw Stroke<br>[Diameter]<br>(mm) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 最大拉力<br>Max. Pull<br>Force<br>kgf<br>(kN) | 最大靜夾持力<br>Max. Gripping<br>Force<br>kgf<br>(kN) | 最大設定<br>油壓壓力<br>Max. Hydr.<br>Pressure<br>kgf/cm <sup>2</sup><br>(MPa) | 淨重<br>Weight<br>(kg) | 搭配<br>油壓缸型號<br>Matching<br>Cylinder | 夾持範圍<br>Gripping<br>Range |
|---------------------------|-----------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------|----------------------|-------------------------------------|---------------------------|
| CL-12DP                   | 30                                | 10.5                                            | 3200                                             | 4080 (40)                                 | 15500 (152)                                     | 29 (2.8)                                                               | 64.4                 | L1530(L1530RE)                      | ø18~ø304                  |
| CL-15DP                   | 35                                | 16                                              | 3000                                             | 8260 (81)                                 | 25290 (248)                                     | 32 (3.1)                                                               | 104.1                | L2035(L2035RE)                      | ø68~ø381                  |
| CL-18DP                   | 35                                | 16                                              | 2700                                             | 8260 (81)                                 | 25290 (248)                                     | 32 (3.1)                                                               | 138.5                | L2035(L2035RE)                      | ø100~ø450                 |
| CL-21DP                   | 35                                | 16                                              | 1900                                             | 8650 (85)                                 | 27000 (265)                                     | 33 (3.2)                                                               | 204.8                | L2035(L2035RE)                      | ø80~ø530                  |
| CL-24DP                   | 35                                | 16                                              | 1700                                             | 8650 (85)                                 | 27000 (265)                                     | 33 (3.2)                                                               | 260                  | L2035(L2035RE)                      | ø155~ø610                 |
| CL-32DP                   | 35                                | 16                                              | 1100                                             | 8650 (85)                                 | 27000 (265)                                     | 33 (3.2)                                                               | 455.4                | L2035(L2035RE)                      | ø155~ø800                 |
| CL-40DP                   | 35                                | 16                                              | 800                                              | 8650 (85)                                 | 27000 (265)                                     | 33 (3.2)                                                               | --                   | L2035(L2035RE)                      | ø155~ø1000                |

# VL-DP 3-JAW SOLID CHUCK WITH ANTI-CHIPS SEALED & WATER-PROOF FLANGE PLATE FOR VERTICAL LATHE

## 立車用中實油壓夾頭 (含連結板)

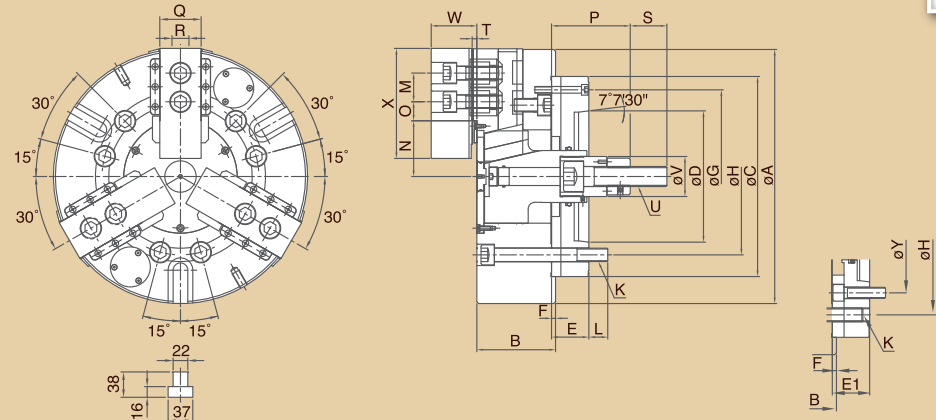
- 1.防塵專利結構可以防止鐵屑進入本體內部。
- 2.清潔孔設計可以吹氣強制帶出來頭內部殘留細屑及切屑液。
- 3.排水盤結構設計，防止切屑液進入主軸內部。

新產品  
**NEW**

專利產品  
Patent Protected



尺寸圖 » Dimensions



- 1.Dustproof patent structure can prevent the metal chips get into chuck inside.
- 2.The clean hole design can blow air into chuck internal to clean out the residual chips and coolant.
- 3.The drainage plate structure design can prevent the coolant get into spindle internal.

規格表 » Specifications

| 型式/規格<br>MODEL<br>/ SPEC. | 主軸鼻端番號<br>Nose Of<br>Spindle           | A   | B   | C<br>(h6) | D       | E  | E1 | F | G     | H     | K          | L  | M  |
|---------------------------|----------------------------------------|-----|-----|-----------|---------|----|----|---|-------|-------|------------|----|----|
| VL-12DP                   | A <sub>2</sub> -8(A <sub>2</sub> -6)   | 304 | 110 | 220       | 139.719 | 38 | 38 | 6 | 190   | 171.4 | 6-M16x2P   | 20 | 30 |
| VL-15DP                   | A <sub>2</sub> -11(A <sub>2</sub> -8)  | 381 | 118 | 300       | 196.869 | 54 | 54 | 6 | 260   | 235   | 6-M20x2.5P | 30 | 43 |
| VL-18DP                   | A <sub>2</sub> -11(A <sub>2</sub> -8)  | 450 | 118 | 300       | 196.869 | 48 | 48 | 6 | 260   | 235   | 6-M20x2.5P | 26 | 43 |
| VL-21DP                   | A <sub>2</sub> -15(A <sub>2</sub> -11) | 530 | 129 | 380       | 285.775 | 55 | 50 | 6 | 330.2 | 330.2 | 6-M24x3P   | 36 | 60 |
| VL-24DP                   | A <sub>2</sub> -15(A <sub>2</sub> -11) | 610 | 129 | 380       | 285.775 | 55 | 50 | 6 | 330.2 | 330.2 | 6-M24x3P   | 36 | 60 |
| VL-32DP                   | A <sub>2</sub> -15(A <sub>2</sub> -11) | 800 | 129 | 380       | 285.775 | 55 | 50 | 6 | 330.2 | 330.2 | 6-M24x3P   | 36 | 60 |

| 型式/規格<br>MODEL<br>/ SPEC. | N<br>max. | N<br>min. | O<br>max. | O<br>min. | P<br>max. | P<br>min. | Q  | R    | S  | T | U        | V  | W    | X   | Y     |
|---------------------------|-----------|-----------|-----------|-----------|-----------|-----------|----|------|----|---|----------|----|------|-----|-------|
| VL-12DP                   | 60.63     | 55.32     | 48.55     | 20.05     | 183       | 153       | 50 | 18   | 36 | 5 | M20x2.5P | 50 | 54   | 129 | 133.4 |
| VL-15DP                   | 69.05     | 60.97     | 58.05     | 40.05     | 136       | 101       | 62 | 25.5 | 55 | 7 | M30x3.5P | 60 | 68   | 165 | 171.4 |
| VL-18DP                   | 99.46     | 91.38     | 58.05     | 40.05     | 130       | 96        | 62 | 25.5 | 55 | 7 | M30x3.5P | 60 | 68   | 165 | 171.4 |
| VL-21DP                   | 80.49     | 72.41     | 101.8     | 41.8      | 132       | 97        | 65 | 25   | 55 | 7 | M30x3.5P | 60 | 75.5 | 180 | 235   |
| VL-24DP                   | 119.49    | 111.41    | 101.8     | 41.8      | 132       | 97        | 65 | 25   | 55 | 7 | M30x3.5P | 60 | 75.5 | 180 | 235   |
| VL-32DP                   | 119.49    | 111.39    | 197.8     | 41.8      | 132       | 97        | 65 | 25   | 55 | 7 | M30x3.5P | 60 | 75.5 | 180 | 235   |

| 型式/規格<br>MODEL<br>/ SPEC. | 柱塞行程<br>Plunger<br>Stroke<br>(mm) | 爪行程<br>(直徑)<br>Jaw Stroke<br>[Diameter]<br>(mm) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 最大拉力<br>Max. Pull<br>Force<br>kgf<br>(kN) | 最大靜夾持力<br>Max. Gripping<br>Force<br>kgf<br>(kN) | 最大設定<br>油壓壓力<br>Max. Hydr.<br>Pressure<br>kgf/cm <sup>2</sup><br>(MPa) | 淨重<br>Weight<br>(kg) | 搭配<br>油壓缸型號<br>Matching<br>Cylinder | 夾持範圍<br>Gripping<br>Range |
|---------------------------|-----------------------------------|-------------------------------------------------|--------------------------------------------------|-------------------------------------------|-------------------------------------------------|------------------------------------------------------------------------|----------------------|-------------------------------------|---------------------------|
| VL-12DP                   | 30                                | 10.5                                            | 3200                                             | 4080 (40)                                 | 15500 (152)                                     | 29 (2.8)                                                               |                      | L1530(L1530RE)                      | ø18~ø304                  |
| VL-15DP                   | 35                                | 16                                              | 3000                                             | 8260 (81)                                 | 25290 (248)                                     | 32 (3.1)                                                               |                      | L2035(L2035RE)                      | ø68~ø381                  |
| VL-18DP                   | 35                                | 16                                              | 2700                                             | 8260 (81)                                 | 25290 (248)                                     | 32 (3.1)                                                               |                      | L2035(L2035RE)                      | ø100~ø450                 |
| VL-21DP                   | 35                                | 16                                              | 1900                                             | 8650 (85)                                 | 27000 (265)                                     | 33 (3.2)                                                               |                      | L2035(L2035RE)                      | ø80~ø530                  |
| VL-24DP                   | 35                                | 16                                              | 1700                                             | 8650 (85)                                 | 27000 (265)                                     | 33 (3.2)                                                               |                      | L2035(L2035RE)                      | ø155~ø610                 |
| VL-32DP                   | 35                                | 16                                              | 1100                                             | 8650 (85)                                 | 27000 (265)                                     | 33 (3.2)                                                               |                      | L2035(L2035RE)                      | ø155~ø800                 |

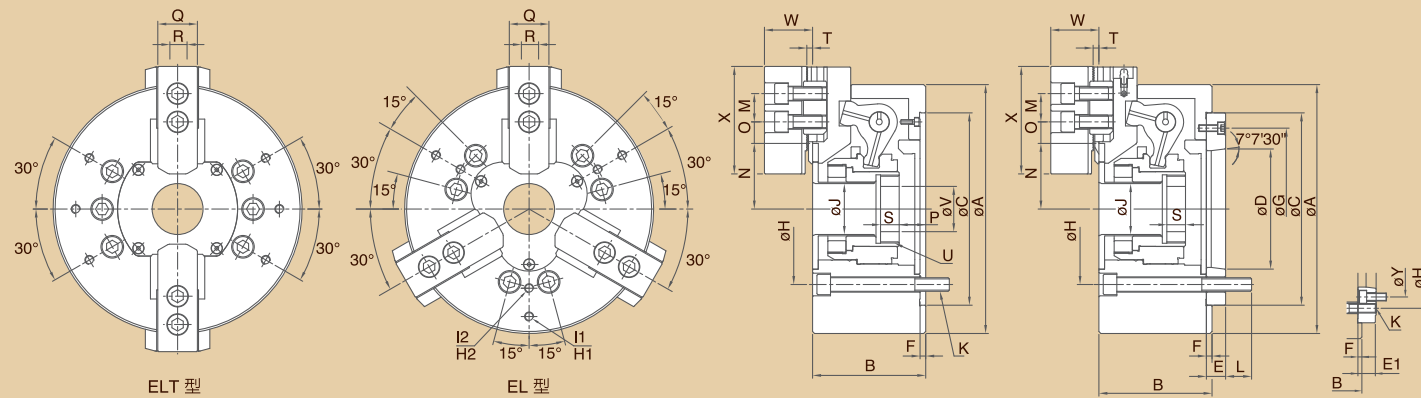
# EL,ELT CRANK TYPE LONG JAW STROKE HOLLOW POWER CHUCKS

## 中空超長行程 油壓夾頭

新產品  
**NEW**  
專利產品  
Patent Protected



尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | 主軸鼻端番號<br>Nose Of<br>Spindle             | A                                                | B                                      | C                                            | D                                                               | E                                   | E1                        | F         | G         | H         | I1                                   | H1                             |
|---------------------------|------------------------------------------|--------------------------------------------------|----------------------------------------|----------------------------------------------|-----------------------------------------------------------------|-------------------------------------|---------------------------|-----------|-----------|-----------|--------------------------------------|--------------------------------|
| EL-06                     | A2-5                                     | 178                                              | 87                                     | 140                                          | 82.563                                                          | 15                                  | --                        | 5         | 116       | 104.8     | 3-M8x1.25P                           | PCDø160                        |
| EL-08                     | A2-6(A2-5)                               | 220                                              | 100                                    | 170                                          | 106.375                                                         | 17                                  | 23                        | 5         | 150       | 133.4     | 3-M8x1.25P                           | PCDø190                        |
| EL-10                     | A2-8(A2-6)                               | 265                                              | 113                                    | 220                                          | 139.719                                                         | 18                                  | 28                        | 5         | 190       | 171.4     | 3-M12x1.75P                          | PCDø230                        |
| ELT-06                    | A2-5                                     | 178                                              | 87                                     | 140                                          | 82.563                                                          | 15                                  | --                        | 5         | 116       | 104.8     | 6-M8x1.25P                           | PCDø145                        |
| ELT-08                    | A2-6(A2-5)                               | 220                                              | 100                                    | 170                                          | 106.375                                                         | 17                                  | 23                        | 5         | 150       | 133.4     | 6-M8x1.25P                           | PCDø180                        |
| ELT-10                    | A2-8(A2-6)                               | 265                                              | 113                                    | 220                                          | 139.719                                                         | 18                                  | 28                        | 5         | 190       | 171.4     | 6-M12x1.75P                          | PCDø230                        |
| 型式/規格<br>MODEL<br>/ SPEC. | I2                                       | H2                                               | J                                      | K                                            | L                                                               | M                                   | N<br>max.                 | N<br>min. | O<br>max. | O<br>min. | P<br>max.                            |                                |
| EL-06                     | 3-M8x1.25P                               | PCDø120                                          | 34                                     | 6-M10x1.5P                                   | 15.85                                                           | 20                                  | 50.13                     | 38.03     | 19.55     | 10.55     | 15.95                                |                                |
| EL-08                     | 3-M8x1.25P                               | PCDø140                                          | 42                                     | 6-M12x1.75P                                  | 18.85                                                           | 25                                  | 61                        | 44.96     | 20.55     | 11.55     | 19.95                                |                                |
| EL-10                     | 3-M12x1.75P                              | PCDø180                                          | 66                                     | 6-M16x2P                                     | 21.85                                                           | 30                                  | 78.16                     | 59.37     | 24.55     | 11.05     | 13.45                                |                                |
| ELT-06                    | --                                       | --                                               | 34                                     | 6-M10x1.5P                                   | 15.85                                                           | 20                                  | 50.13                     | 38.03     | 19.55     | 10.55     | 15.95                                |                                |
| ELT-08                    | --                                       | --                                               | 42                                     | 6-M12x1.75P                                  | 18.85                                                           | 25                                  | 61                        | 44.96     | 20.55     | 11.55     | 19.95                                |                                |
| ELT-10                    | --                                       | --                                               | 66                                     | 6-M16x2P                                     | 21.85                                                           | 30                                  | 78.16                     | 59.37     | 24.55     | 11.55     | 13.45                                |                                |
| 型式/規格<br>MODEL<br>/ SPEC. | P<br>min.                                | Q                                                | R                                      | S                                            | T                                                               | U                                   | V                         | W         | X         | Y         | 通孔直徑<br>Thru-Hole<br>[Diameter] (mm) | 柱塞行程<br>Plunger Stroke<br>(mm) |
| EL-06                     | 0.95                                     | 31                                               | 12                                     | 15                                           | 2                                                               | M55x2P                              | 20                        | 37.5      | 73        | --        | 34                                   | 15                             |
| EL-08                     | -0.05                                    | 35                                               | 14                                     | 16.5                                         | 2                                                               | M60x2P                              | 30                        | 39.5      | 95        | 104.8     | 42                                   | 20                             |
| EL-10                     | -11.55                                   | 40                                               | 16                                     | 20                                           | 2                                                               | M85x2P                              | 40                        | 43        | 110       | 133.4     | 66                                   | 25                             |
| ELT-06                    | 0.95                                     | 31                                               | 12                                     | 15                                           | 2                                                               | M55x2P                              | 20                        | 37.5      | 73        | --        | 34                                   | 15                             |
| ELT-08                    | -0.05                                    | 35                                               | 14                                     | 16.5                                         | 2                                                               | M60x2P                              | 30                        | 39.5      | 95        | 104.8     | 42                                   | 20                             |
| ELT-10                    | -11.55                                   | 40                                               | 16                                     | 20                                           | 2                                                               | M85x2P                              | 40                        | 43        | 110       | 133.4     | 66                                   | 25                             |
| 型式/規格<br>MODEL<br>/ SPEC. | 爪行程〔直徑〕<br>Jaw Stroke<br>[Diameter] (mm) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 最大拉力<br>Max. Pull<br>Force<br>kgf (kN) | 最大靜夾持力<br>Max. Gripping<br>Force<br>kgf (kN) | 最大設定油壓壓力<br>Max. Hydr.<br>Pressure<br>kgf/cm <sup>2</sup> (MPa) | 搭配<br>油壓缸型號<br>Matching<br>Cylinder | 夾持範圍<br>Gripping<br>Range |           |           |           |                                      |                                |
| EL-06                     | 24                                       | 3200                                             | 2375 (23.2)                            | 2670 (26)                                    | 29 (2.8)                                                        | P1246                               | ø25~ø178                  |           |           |           |                                      |                                |
| EL-08                     | 32                                       | 2800                                             | 3612 (35.4)                            | 3900 (38.2)                                  | 28 (2.7)                                                        | P1552                               | ø30~ø220                  |           |           |           |                                      |                                |
| EL-10                     | 37.5                                     | 2400                                             | 4941 (48.4)                            | 5586 (54.7)                                  | 30 (2.9)                                                        | P1875                               | ø45~ø265                  |           |           |           |                                      |                                |
| ELT-06                    | 24                                       | 3200                                             | 1600 (15.7)                            | 1790 (17.6)                                  | 19.5 (1.9)                                                      | P1246                               | ø25~ø178                  |           |           |           |                                      |                                |
| ELT-08                    | 32                                       | 2800                                             | 2322 (22.7)                            | 2600 (25.5)                                  | 18 (1.8)                                                        | P1552                               | ø30~ø220                  |           |           |           |                                      |                                |
| ELT-10                    | 37.5                                     | 2400                                             | 3294 (32.3)                            | 3724 (36.5)                                  | 20 (2.0)                                                        | P1875                               | ø45~ø265                  |           |           |           |                                      |                                |

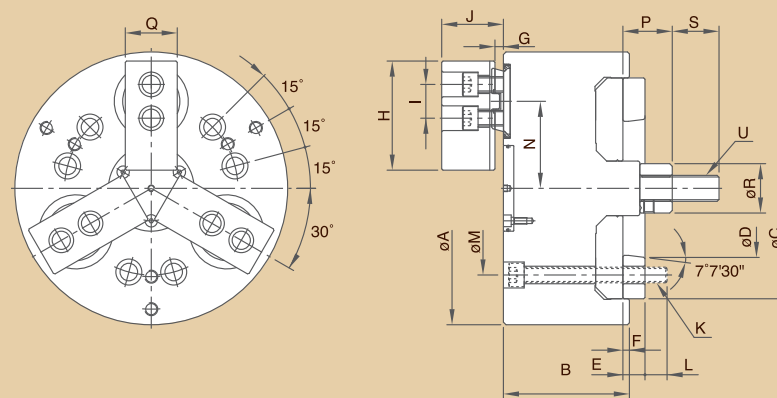
# PL PULL BACK POWER CHUCKS

## 後拉式油壓夾頭

後拉式油壓夾頭作徑向夾持同時強力後拉，工件不會上浮，適用於鑄件及鍛件的加工。

- 1.後拉式夾持將工件緊貼在基準面上，使夾持穩固，適於重切削。
- 2.圓柱滑動結構，可長期使用，並確保重覆夾持的優異精度。
- 3.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。
- 4.可採用到位偵測，配合自動化系統。

尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/SPEC. | A                                         | B           | C                                                            | D       | E                                    | F         | G<br>max.                                        | G<br>min. | H                                   | J<br>max. | J<br>min. |
|--------------------------|-------------------------------------------|-------------|--------------------------------------------------------------|---------|--------------------------------------|-----------|--------------------------------------------------|-----------|-------------------------------------|-----------|-----------|
| PL-06                    | 169                                       | 83          | 140                                                          | 82.563  | 15                                   | 5         | 15                                               | 5         | 70                                  | 46        | 36        |
| PL-08                    | 210                                       | 97          | 170                                                          | 106.375 | 17                                   | 5         | 16.5                                             | 6.5       | 84                                  | 57        | 47        |
| PL-10                    | 254                                       | 110         | 220                                                          | 139.719 | 18                                   | 5         | 22                                               | 6         | 100                                 | 68        | 52        |
| PL-12                    | 304                                       | 125         | 220                                                          | 139.719 | 18                                   | 5         | 21.5                                             | 5.5       | 120                                 | 72.5      | 56.5      |
| 型式/規格<br>MODEL<br>/SPEC. | I                                         | K           | L                                                            | M       | N<br>max.                            | N<br>min. | P<br>max.                                        | P<br>min. | Q                                   | R         |           |
| PL-06                    | --                                        | 6-M10x1.5P  | 14                                                           | 104.8   | 56.65                                | 54        | 33                                               | 23        | 35                                  | 32        |           |
| PL-08                    | 26                                        | 6-M12x1.75P | 17                                                           | 133.4   | 69.65                                | 67        | 38                                               | 28        | 40                                  | 38        |           |
| PL-10                    | 32                                        | 6-M16x2P    | 24                                                           | 171.4   | 87.8                                 | 82        | 48                                               | 32        | 50                                  | 50        |           |
| PL-12                    | 36                                        | 6-M16x2P    | 20                                                           | 171.4   | 102.8                                | 97        | 47                                               | 31        | 60                                  | 52        |           |
| 型式/規格<br>MODEL<br>/SPEC. | S                                         | U           | 柱塞行程<br>Plunger Stroke<br>(mm)                               |         | 爪行程直徑<br>Jaw Stroke<br>(Diameter) mm |           | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) |           | 最大拉力<br>Max. Pull Force<br>kgf (kN) |           |           |
| PL-06                    | 36                                        | M16x2P      | 10                                                           |         | 5.3                                  |           | 3500                                             |           | 1420 (14)                           |           |           |
| PL-08                    | 36                                        | M20x2.5P    | 10                                                           |         | 5.3                                  |           | 3000                                             |           | 2240 (22)                           |           |           |
| PL-10                    | 46                                        | M24x3P      | 16                                                           |         | 11.6                                 |           | 2500                                             |           | 3160 (31)                           |           |           |
| PL-12                    | 50                                        | M27x3P      | 16                                                           |         | 11.6                                 |           | 2000                                             |           | 4480 (44)                           |           |           |
| 型式/規格<br>MODEL<br>/SPEC. | 最大靜夾持力<br>Max. Gripping Force<br>kgf (kN) |             | 最大設定油壓壓力<br>Max. Hydr. Pressure<br>kgf/cm <sup>2</sup> (MPa) |         | 淨重<br>Weight<br>(kg)                 |           | 搭配油壓缸型號<br>Matching<br>Cylinder                  |           | 夾持範圍<br>Gripping<br>Range           |           |           |
| PL-06                    | 2950                                      | (29)        | 22                                                           | (2.2)   | 15.4                                 |           | L1020                                            |           | ø35~ø160                            |           |           |
| PL-08                    | 4890                                      | (48)        | 22                                                           | (2.2)   | 27.8                                 |           | L1225                                            |           | ø40~ø210                            |           |           |
| PL-10                    | 4990                                      | (49)        | 30                                                           | (2.9)   | 45.9                                 |           | L1225                                            |           | ø50~ø254                            |           |           |
| PL-12                    | 7240                                      | (71)        | 30                                                           | (2.9)   | 75.7                                 |           | L1530                                            |           | ø50~ø304                            |           |           |

Pull back feature of radial gripping will lead to almost no work piece uplifting displacement; CHANDOX Pull Back Power Chucks are ideal for machining casting and forging parts;

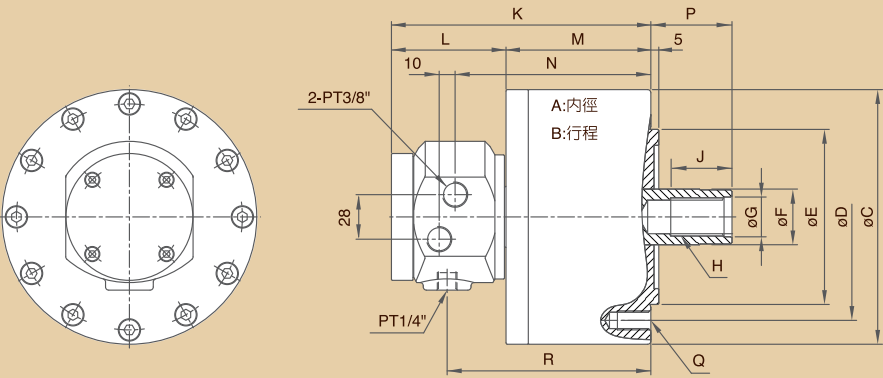
1. By appressing the gripped work piece to the surface, CHANDOX Pull Back Power Chucks are suitable for heavy machining.
2. Chuck Actuators with cylindrical structure are durable and ensures high gripping repeatability.
3. Accurate self-centering and pull back features are adequate for precise length control machining requirements.
4. Optional components can be selected for detecting the right position on an automated loading machine.

L SOLID ROTARY HYDRAULIC CYLINDERS

中實油壓迴轉缸



尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A                                 | B     | C                                                    | D         | E<br>(h7)                                                  | F  | G<br>(H8)        | H                             |                                                                 | J                                                 | K             | L                                                    |                      |
|---------------------------|-----------------------------------|-------|------------------------------------------------------|-----------|------------------------------------------------------------|----|------------------|-------------------------------|-----------------------------------------------------------------|---------------------------------------------------|---------------|------------------------------------------------------|----------------------|
| L0815                     | 75                                | 15    | 115                                                  | 90        | 65                                                         | 30 | 21               | M20x2.5P                      |                                                                 | 35                                                | 137           | 72                                                   |                      |
| L1020                     | 105                               | 20    | 135                                                  | 100       | 80                                                         | 30 | 21               | M20x2.5P                      |                                                                 | 35                                                | 155           | 72                                                   |                      |
| L1225                     | 125                               | 25    | 160                                                  | 130       | 110                                                        | 35 | 25               | M24x3P                        |                                                                 | 45                                                | 163           | 72                                                   |                      |
| L1530                     | 150                               | 30    | 190                                                  | 130       | 110                                                        | 45 | 31               | M30x3.5P                      |                                                                 | 45                                                | 173           | 72                                                   |                      |
| L2035                     | 200                               | 35    | 245                                                  | 145       | 120                                                        | 55 | 37               | M36x4P                        |                                                                 | 60                                                | 191.5         | 72                                                   |                      |
| 型式/規格<br>MODEL<br>/ SPEC. | M                                 | N     | P<br>max.                                            | P<br>min. | Q                                                          |    | R                | 活塞行程<br>Piston Stroke<br>(mm) |                                                                 | 最高迴轉速<br>Max. Speed<br>r.p.m (min <sup>-1</sup> ) |               | 慣性矩I<br>Moment<br>of Inertia<br>(kg·m <sup>2</sup> ) |                      |
| L0815                     | 65                                | 97    | 46                                                   | 31        | 6-M8x1.25P                                                 |    | 102              | 15                            |                                                                 | 6000                                              |               | 0.006                                                |                      |
| L1020                     | 83                                | 115   | 45                                                   | 25        | 6-M10x1.5P                                                 |    | 120              | 20                            |                                                                 | 5500                                              |               | 0.013                                                |                      |
| L1225                     | 91                                | 123   | 51                                                   | 26        | 6-M12x1.75P                                                |    | 128              | 25                            |                                                                 | 5500                                              |               | 0.023                                                |                      |
| L1530                     | 101                               | 133   | 56                                                   | 26        | 12-M12x1.75P                                               |    | 138              | 30                            |                                                                 | 4000                                              |               | 0.048                                                |                      |
| L2035                     | 119.5                             | 151.5 | 69                                                   | 34        | 12-M16x2P                                                  |    | 156.5            | 35                            |                                                                 | 4000                                              |               | 0.098                                                |                      |
| 型式/規格<br>MODEL<br>/ SPEC. | 流量<br>Oil Leakage Rate<br>(ℓ/min) |       | 最高使用壓力<br>Max. Pressure<br>kgf/cm <sup>2</sup> (MPa) |           | 活塞面積<br>Piston Area (cm <sup>2</sup> )<br>推力側<br>Push Side |    | 拉力側<br>Pull Side |                               | 最大推(拉)力<br>Max. Operating Force<br>kgf (kN)<br>推力側<br>Push Side |                                                   |               |                                                      | 淨重<br>Weight<br>(kg) |
| L0815                     | 0.8                               |       | 40 (3.9)                                             |           | 44                                                         |    | 37               |                               | 1600 (15.7)                                                     |                                                   | 1400 (13.7)   |                                                      | 4.2                  |
| L1020                     | 0.8                               |       | 40 (3.9)                                             |           | 86                                                         |    | 79               |                               | 3100 (30.4)                                                     |                                                   | 2900 (28.4)   |                                                      | 5.9                  |
| L1225                     | 0.8                               |       | 40 (3.9)                                             |           | 122                                                        |    | 113              |                               | 4500 (44.1)                                                     |                                                   | 4100 (40.2)   |                                                      | 8.1                  |
| L1530                     | 0.8                               |       | 40 (3.9)                                             |           | 176                                                        |    | 160              |                               | 6300 (61.8)                                                     |                                                   | 6000 (58.8)   |                                                      | 11.9                 |
| L2035                     | 0.8                               |       | 40 (3.9)                                             |           | 314                                                        |    | 290              |                               | 11300 (110.8)                                                   |                                                   | 10400 (102.0) |                                                      | 21.4                 |

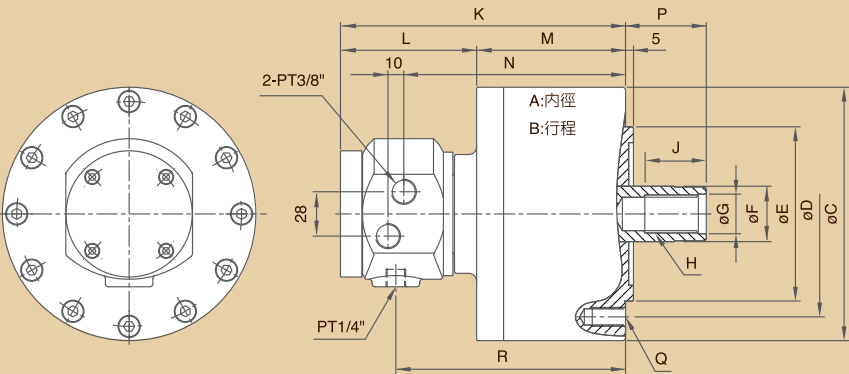
★流量測試標準-壓力:30kgf/cm²(2.94MPa) 油溫:50°C ★Test standard of oil leakage: Pressure-30 kgf/cm²(2.94MPa), Oil temperature-50°C

L-R SOLID ROTARY HYDRAULIC CYLINDERS (BUILT-IN CHECK VALVE)

中實油壓迴轉缸 (附止逆裝置)



尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A                                 | B                                                      | C                                                           | D                | E<br>(h7)                                                       | F                            | G<br>(H8)                     | H                                                 | J                                                    | K     | L  |
|---------------------------|-----------------------------------|--------------------------------------------------------|-------------------------------------------------------------|------------------|-----------------------------------------------------------------|------------------------------|-------------------------------|---------------------------------------------------|------------------------------------------------------|-------|----|
| L1020R                    | 105                               | 20                                                     | 135                                                         | 100              | 80                                                              | 30                           | 21                            | M20x2.5P                                          | 35                                                   | 172   | 86 |
| L1225R                    | 125                               | 25                                                     | 160                                                         | 130              | 110                                                             | 35                           | 25                            | M24x3P                                            | 45                                                   | 180   | 86 |
| L1530R                    | 150                               | 30                                                     | 190                                                         | 130              | 110                                                             | 45                           | 31                            | M30x3.5P                                          | 45                                                   | 189   | 84 |
| L2035R                    | 200                               | 35                                                     | 245                                                         | 145              | 120                                                             | 55                           | 37                            | M36x4P                                            | 60                                                   | 206.5 | 83 |
| 型式/規格<br>MODEL<br>/ SPEC. | M                                 | N                                                      | P<br>max.                                                   | P<br>min.        | Q                                                               | R                            | 活塞行程<br>Piston Stroke<br>(mm) | 最高迴轉速<br>Max. Speed<br>r.p.m (min <sup>-1</sup> ) | 慣性矩I<br>Moment<br>of Inertia<br>(kg·m <sup>2</sup> ) |       |    |
| L1020R                    | 86                                | 132                                                    | 45                                                          | 25               | 6-M10x1.5P                                                      | 137                          | 20                            | 6000                                              | 0.013                                                |       |    |
| L1225R                    | 94                                | 140                                                    | 51                                                          | 26               | 6-M12x1.75P                                                     | 145                          | 25                            | 6000                                              | 0.023                                                |       |    |
| L1530R                    | 105                               | 149                                                    | 56                                                          | 26               | 12-M12x1.75P                                                    | 154                          | 30                            | 5500                                              | 0.048                                                |       |    |
| L2035R                    | 123.5                             | 166.5                                                  | 69                                                          | 34               | 12-M16x2P                                                       | 171.5                        | 35                            | 5500                                              | 0.098                                                |       |    |
| 型式/規格<br>MODEL<br>/ SPEC. | 流量<br>Oil Leakage Rate<br>(ℓ/min) | 最高使用壓力<br>Max. Pressure<br>kgf / cm <sup>2</sup> (MPa) | 活塞面積<br>Piston Area ( cm <sup>2</sup> )<br>推力側<br>Push Side | 拉力側<br>Pull Side | 最大推(拉)力<br>Max. Operating Force<br>kgf (kN)<br>推力側<br>Push Side | 拉力側<br>Pull Side<br>kgf (kN) | 淨重<br>Weight<br>(kg)          |                                                   |                                                      |       |    |
| L1020R                    | 0.8                               | 40 (3.9)                                               | 86                                                          | 79               | 3100 (30.4)                                                     | 2900 (28.4)                  | 6.6                           |                                                   |                                                      |       |    |
| L1225R                    | 0.8                               | 40 (3.9)                                               | 122                                                         | 113              | 4500 (44.1)                                                     | 4100 (40.2)                  | 8.8                           |                                                   |                                                      |       |    |
| L1530R                    | 0.8                               | 40 (3.9)                                               | 176                                                         | 160              | 6300 (61.8)                                                     | 6000 (58.8)                  | 12.8                          |                                                   |                                                      |       |    |
| L2035R                    | 0.8                               | 40 (3.9)                                               | 314                                                         | 290              | 11300 (110.8)                                                   | 10400 (102.0)                | 22.5                          |                                                   |                                                      |       |    |

★流量測試標準-壓力:30kgf/cm²(2.94MPa) 油溫:50°C ★Test standard of oil leakage: Pressure-30 kgf/cm²(2.94MPa), Oil temperature-50°C

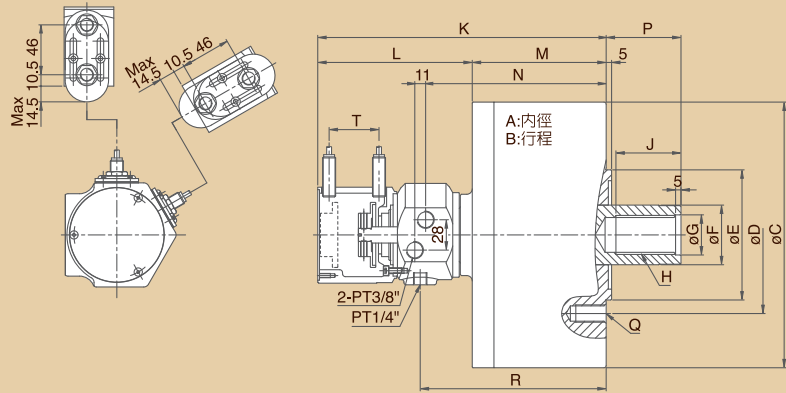
L-RE SOLID ROTARY HYDRAULIC CYLINDERS (BUILT-IN CHECK VALVE & SENSOR)

中實油壓迴轉缸  
(附止逆及檢知裝置)



註：近接開關為特殊附件  
Note: Proximity switch is an extra option.

尺寸圖 » Dimensions



規格表 » Specifications

| 型式/規格<br>MODEL<br>/ SPEC. | A                                                       | B                                      | C                | D                             | E<br>(h7)                                                          | F                                                    | G<br>(H8)                            | H        |
|---------------------------|---------------------------------------------------------|----------------------------------------|------------------|-------------------------------|--------------------------------------------------------------------|------------------------------------------------------|--------------------------------------|----------|
| L1020RE                   | 105                                                     | 20                                     | 135              | 100                           | 80                                                                 | 30                                                   | 21                                   | M20x2.5P |
| L1225RE                   | 125                                                     | 25                                     | 160              | 130                           | 110                                                                | 35                                                   | 25                                   | M24x3P   |
| L1530RE                   | 150                                                     | 30                                     | 190              | 130                           | 110                                                                | 45                                                   | 31                                   | M30x3.5P |
| L2035RE                   | 200                                                     | 35                                     | 245              | 145                           | 120                                                                | 55                                                   | 37                                   | M36x4P   |
| 型式/規格<br>MODEL<br>/ SPEC. | J                                                       | K                                      | L                | M                             | N                                                                  | P<br>max.                                            | P<br>min.                            |          |
| L1020RE                   | 35                                                      | 231.5                                  | 145.5            | 86                            | 132                                                                | 45                                                   | 25                                   |          |
| L1225RE                   | 45                                                      | 239.5                                  | 145.5            | 94                            | 140                                                                | 51                                                   | 26                                   |          |
| L1530RE                   | 45                                                      | 248.5                                  | 143.5            | 105                           | 149                                                                | 56                                                   | 26                                   |          |
| L2035RE                   | 60                                                      | 266                                    | 142.5            | 123.5                         | 166.5                                                              | 69                                                   | 34                                   |          |
| 型式/規格<br>MODEL<br>/ SPEC. | Q                                                       | R                                      | T                | 活塞行程<br>Piston Stroke<br>(mm) | 最高迴轉速<br>Max. Speed<br>r.p.m (min <sup>-1</sup> )                  | 慣性矩I<br>Moment<br>of Inertia<br>(kg·m <sup>2</sup> ) | 流量<br>Oil Leakage<br>Rate<br>(ℓ/min) |          |
| L1020RE                   | 6-M10x1.5P                                              | 137                                    | 46               | 20                            | 6000                                                               | 0.013                                                | 0.8                                  |          |
| L1225RE                   | 6-M12x1.75P                                             | 145                                    | 46               | 25                            | 6000                                                               | 0.023                                                | 0.8                                  |          |
| L1530RE                   | 12-M12x1.75P                                            | 154                                    | 46               | 30                            | 5500                                                               | 0.048                                                | 0.8                                  |          |
| L2035RE                   | 12-M16x2P                                               | 171.5                                  | 46               | 35                            | 5500                                                               | 0.098                                                | 0.8                                  |          |
| 型式/規格<br>MODEL<br>/ SPEC. | 最高使用壓力<br>Max. Pressure<br>kgf/cm <sup>2</sup><br>(MPa) | 活塞面積<br>Piston Area (cm <sup>2</sup> ) | 推力側<br>Push Side | 拉力側<br>Pull Side              | 最大推(拉)力<br>Max. Operating Force<br>推力側<br>Push Side<br>kgf<br>(kN) | 拉力側<br>Pull Side<br>kgf<br>(kN)                      | 淨重<br>Weight<br>(kg)                 |          |
| L1020RE                   | 40<br>(3.9)                                             | 84                                     | 79               | 3000<br>(29.4)                | 2900<br>(28.4)                                                     | --                                                   |                                      |          |
| L1225RE                   | 40<br>(3.9)                                             | 120                                    | 113              | 4400<br>(43.1)                | 4100<br>(40.2)                                                     | 9.7                                                  |                                      |          |
| L1530RE                   | 40<br>(3.9)                                             | 174                                    | 160              | 6200<br>(60.8)                | 5700<br>(55.9)                                                     | 13.7                                                 |                                      |          |
| L2035RE                   | 40<br>(3.9)                                             | 312                                    | 290              | 11200<br>(109.8)              | 10400<br>(102.0)                                                   | 23.3                                                 |                                      |          |

★流量測試標準-壓力:30kgf/cm²(2.94MPa) 油溫:50°C ★Test standard of oil leakage: Pressure-30 kgf/cm²(2.94MPa), Oil temperature-50°C

L-RA,L-RC SOLID ROTARY HYDRAULIC CYLINDERS (BUILT-IN CHECK VALVE)

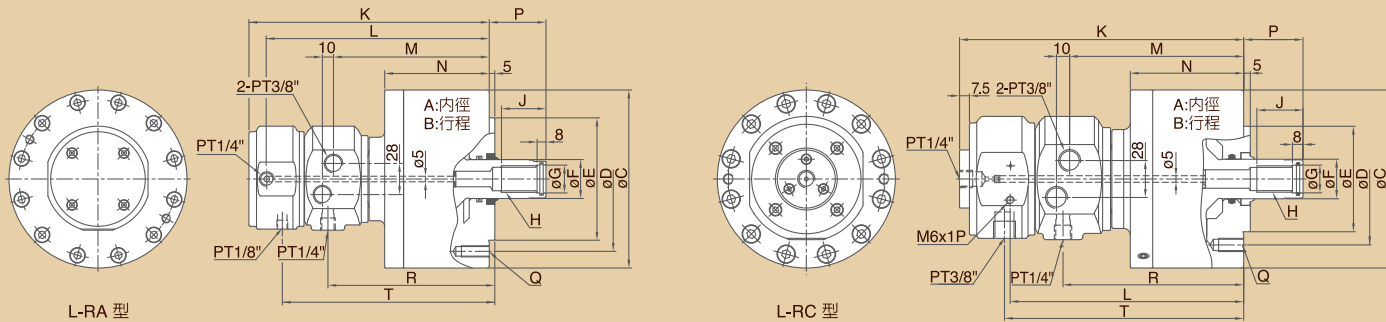
中實油壓迴轉缸(含止逆裝置)

L-RA: 注氣型 Air Connection  
L-RC: 注水型 Coolant Connection

新產品  
NEW



尺寸圖 » Dimensions



規格表 » Specifications

| 型式/規格<br>MODEL<br>/ SPEC. | A                                      | B                                                                  | C                               | D                                                                            | E<br>(h7)                                                                        | F                                    | G<br>(H8)                                               | H            |
|---------------------------|----------------------------------------|--------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------|---------------------------------------------------------|--------------|
| L1020RA                   | 105                                    | 20                                                                 | 135                             | 100                                                                          | 80                                                                               | 30                                   | 21                                                      | M20x2.5P     |
| L1225RA                   | 125                                    | 25                                                                 | 160                             | 130                                                                          | 110                                                                              | 35                                   | 25                                                      | M24x3P       |
| L1530RA                   | 150                                    | 30                                                                 | 190                             | 130                                                                          | 110                                                                              | 45                                   | 32                                                      | M30x3.5P     |
| L1020RC                   | 105                                    | 20                                                                 | 135                             | 100                                                                          | 80                                                                               | 30                                   | 21                                                      | M20x2.5P     |
| L1225RC                   | 125                                    | 25                                                                 | 160                             | 130                                                                          | 110                                                                              | 35                                   | 25                                                      | M24x3P       |
| L1530RC                   | 150                                    | 30                                                                 | 190                             | 130                                                                          | 110                                                                              | 45                                   | 32                                                      | M30x3.5P     |
| 型式/規格<br>MODEL<br>/ SPEC. | J                                      | K                                                                  | L                               | M                                                                            | N                                                                                | P<br>max.                            | P<br>min.                                               | Q            |
| L1020RA                   | 35                                     | 208                                                                | 193.5                           | 132                                                                          | 86                                                                               | 45                                   | 25                                                      | 6-M10x1.5P   |
| L1225RA                   | 45                                     | 216                                                                | 201.5                           | 140                                                                          | 94                                                                               | 51                                   | 26                                                      | 6-M12x1.75P  |
| L1530RA                   | 45                                     | 225                                                                | 210.5                           | 149                                                                          | 105                                                                              | 56                                   | 26                                                      | 12-M12x1.75P |
| L1020RC                   | 35                                     | 215.5                                                              | 177.1                           | 132                                                                          | 86                                                                               | 45                                   | 25                                                      | 6-M10x1.5P   |
| L1225RC                   | 45                                     | 223.5                                                              | 185.1                           | 140                                                                          | 94                                                                               | 51                                   | 26                                                      | 6-M12x1.75P  |
| L1530RC                   | 45                                     | 232.5                                                              | 194.1                           | 149                                                                          | 105                                                                              | 56                                   | 26                                                      | 12-M12x1.75P |
| 型式/規格<br>MODEL<br>/ SPEC. | R                                      | T                                                                  | 活塞行程<br>Piston Stroke<br>(mm)   | 最高迴轉速<br>Max. Speed<br>r.p.m (min <sup>-1</sup> )                            | 慣性矩I<br>Moment<br>of Inertia<br>(kg·m <sup>2</sup> )                             | 流量<br>Oil Leakage<br>Rate<br>(ℓ/min) | 最高使用壓力<br>Max. Pressure<br>kgf/cm <sup>2</sup><br>(MPa) |              |
| L1020RA                   | 137                                    | 178                                                                | 20                              | 6000                                                                         | 0.013                                                                            | 1.2                                  | 40<br>(3.9)                                             |              |
| L1225RA                   | 145                                    | 186                                                                | 25                              | 6000                                                                         | 0.023                                                                            | 1.2                                  | 40<br>(3.9)                                             |              |
| L1530RA                   | 154                                    | 195                                                                | 30                              | 5500                                                                         | 0.048                                                                            | 1.2                                  | 40<br>(3.9)                                             |              |
| L1020RC                   | 137                                    | 181.4                                                              | 20                              | 6000                                                                         | 0.013                                                                            | 1.2                                  | 40<br>(3.9)                                             |              |
| L1225RC                   | 145                                    | 189.4                                                              | 25                              | 6000                                                                         | 0.023                                                                            | 1.2                                  | 40<br>(3.9)                                             |              |
| L1530RC                   | 154                                    | 198.4                                                              | 30                              | 5500                                                                         | 0.048                                                                            | 1.2                                  | 40<br>(3.9)                                             |              |
| 型式/規格<br>MODEL<br>/ SPEC. | 活塞面積<br>Piston Area (cm <sup>2</sup> ) | 最大推(拉)力<br>Max. Operating Force<br>推力側<br>Push Side<br>kgf<br>(kN) | 拉力側<br>Pull Side<br>kgf<br>(kN) | 注氣孔最高使用壓力<br>Air connection<br>Max. Pressure<br>kgf/cm <sup>2</sup><br>(MPa) | 注水孔最高使用壓力<br>Coolant connection<br>Max. Pressure<br>kgf/cm <sup>2</sup><br>(MPa) |                                      |                                                         |              |
| L1020RA                   | 85                                     | 79                                                                 | 3100<br>(30.4)                  | 3000<br>(29.4)                                                               | 8<br>(0.8)                                                                       | --                                   | --                                                      | --           |
| L1225RA                   | 121                                    | 113                                                                | 4400<br>(43.1)                  | 4200<br>(41.2)                                                               | 8<br>(0.8)                                                                       | --                                   | --                                                      | --           |
| L1530RA                   | 175                                    | 160                                                                | 6300<br>(61.8)                  | 6000<br>(58.8)                                                               | 8<br>(0.8)                                                                       | --                                   | --                                                      | --           |
| L1020RC                   | 85                                     | 79                                                                 | 3100<br>(30.4)                  | 3000<br>(29.4)                                                               | --                                                                               | 10<br>(1.0)                          | --                                                      | --           |
| L1225RC                   | 121                                    | 113                                                                | 4400<br>(43.1)                  | 4200<br>(41.2)                                                               | --                                                                               | 10<br>(1.0)                          | --                                                      | --           |
| L1530RC                   | 175                                    | 160                                                                | 6300<br>(61.8)                  | 6000<br>(58.8)                                                               | --                                                                               | 10<br>(1.0)                          | --                                                      | --           |

★流量測試標準-壓力:30kgf/cm²(2.94MPa) 油溫:50°C ★Test standard of oil leakage: Pressure-30 kgf/cm²(2.94MPa), Oil temperature-50°C

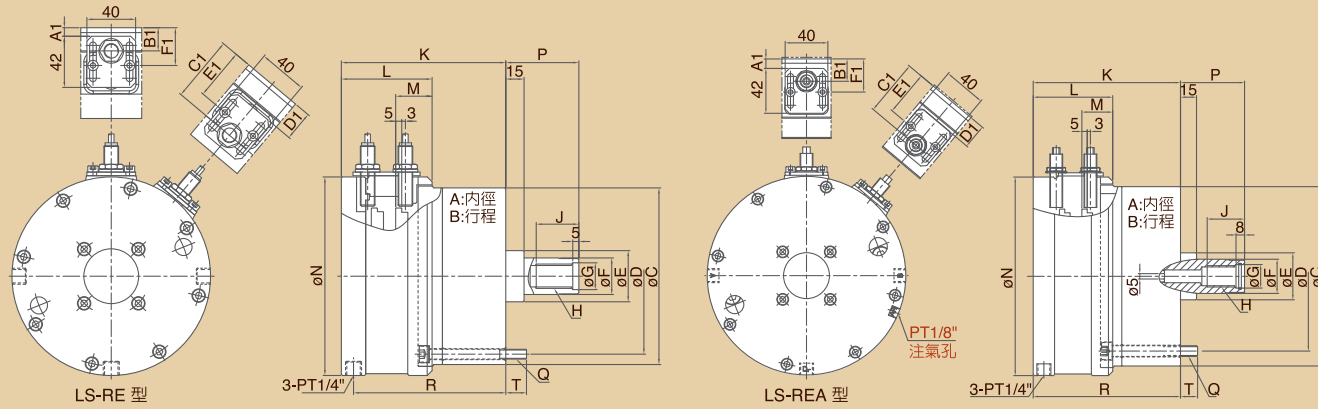
# LS-RE(A) COMPACT SOLID ROTARY HYDRAULIC CYLINDER (BUILT-IN CHECK VALVE & SENSOR)

## 超薄型中實油壓迴轉缸 (附止逆及檢知裝置)

REA: 注氣型 Air Connection



尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A                                              | B                                      | C<br>(h7)        | D                | E                                                          | F                             | E1                                                | F1                                                                | G<br>(H8)                            | H        |
|---------------------------|------------------------------------------------|----------------------------------------|------------------|------------------|------------------------------------------------------------|-------------------------------|---------------------------------------------------|-------------------------------------------------------------------|--------------------------------------|----------|
| LS1120RE                  | 110                                            | 20                                     | 145              | 128              | 42                                                         | 30                            | 42.5                                              | 31                                                                | 22                                   | M20x2.5P |
| LS1221RE                  | 120                                            | 21                                     | 168              | 145              | 44                                                         | 32                            | 42.5                                              | 31                                                                | 22                                   | M20x2.5P |
| LS1330RE                  | 130                                            | 30                                     | 168              | 150              | 51                                                         | 36                            | 52.5                                              | 32.5                                                              | 26                                   | M24x3P   |
| LS1120REA                 | 110                                            | 20                                     | 145              | 128              | 42                                                         | 30                            | 42.5                                              | 31                                                                | 22                                   | M20x2.5P |
| LS1221REA                 | 120                                            | 21                                     | 168              | 145              | 44                                                         | 32                            | 42.5                                              | 31                                                                | 22                                   | M20x2.5P |
| LS1330REA                 | 130                                            | 30                                     | 168              | 150              | 51                                                         | 36                            | 52.5                                              | 32.5                                                              | 26                                   | M24x3P   |
| 型式/規格<br>MODEL<br>/ SPEC. | J                                              | K                                      | A1               | B1               | C1                                                         | D1                            | L                                                 | M<br>max.                                                         | M<br>min.                            | N        |
| LS1120RE                  | 35                                             | 135                                    | 9.9              | 21.9             | 52.9                                                       | 22.9                          | 74.5                                              | 49.9                                                              | 29.9                                 | 163      |
| LS1221RE                  | 35                                             | 138                                    | 8.9              | 20.9             | 52.9                                                       | 22.9                          | 74.5                                              | 49.9                                                              | 28.9                                 | 186      |
| LS1330RE                  | 35                                             | 155                                    | 10               | 22               | 63                                                         | 33                            | 84.5                                              | 60                                                                | 30                                   | 186      |
| LS1120REA                 | 35                                             | 135                                    | 9.9              | 21.9             | 52.9                                                       | 22.9                          | 74.5                                              | 49.9                                                              | 29.9                                 | 163      |
| LS1221REA                 | 35                                             | 138                                    | 8.9              | 20.9             | 52.9                                                       | 22.9                          | 74.5                                              | 49.9                                                              | 28.9                                 | 186      |
| LS1330REA                 | 35                                             | 155                                    | 10               | 22               | 63                                                         | 33                            | 84.5                                              | 60                                                                | 30                                   | 186      |
| 型式/規格<br>MODEL<br>/ SPEC. | P<br>max.                                      | P<br>min.                              | Q                | R                | T                                                          | 活塞行程<br>Piston Stroke<br>(mm) | 最高迴轉速<br>Max. Speed<br>r.p.m (min <sup>-1</sup> ) | 慣性矩I<br>Moment<br>of Inertia<br>(kg·m <sup>2</sup> )              | 流量<br>Oil Leakage<br>Rate<br>(ℓ/min) |          |
| LS1120RE                  | 60                                             | 40                                     | 6-M8x1.25P       | 125              | 17                                                         | 20                            | 6000                                              | 0.02                                                              | 1.2                                  |          |
| LS1221RE                  | 60                                             | 39                                     | 6-M10x1.5P       | 128              | 16                                                         | 21                            | 6000                                              | 0.03                                                              | 1.2                                  |          |
| LS1330RE                  | 60                                             | 30                                     | 6-M10x1.5P       | 145              | 19                                                         | 30                            | 6000                                              | 0.03                                                              | 1.2                                  |          |
| LS1120REA                 | 60                                             | 40                                     | 6-M8x1.25P       | 125              | 17                                                         | 20                            | 6000                                              | 0.02                                                              | 1.2                                  |          |
| LS1221REA                 | 60                                             | 39                                     | 6-M10x1.5P       | 128              | 16                                                         | 21                            | 6000                                              | 0.03                                                              | 1.2                                  |          |
| LS1330REA                 | 60                                             | 30                                     | 6-M10x1.5P       | 145              | 19                                                         | 30                            | 6000                                              | 0.03                                                              | 1.2                                  |          |
| 型式/規格<br>MODEL<br>/ SPEC. | 最高使用壓力<br>Max. Pressure<br>kgf/cm <sup>2</sup> | 活塞面積<br>Piston Area (cm <sup>2</sup> ) | 推力側<br>Push Side | 拉力側<br>Pull Side | 最大推(拉)力<br>Max. Operating Force<br>推力側<br>Push Side<br>kgf | 拉力側<br>Pull Side<br>kgf       | 淨重<br>Weight<br>(kg)                              | 注氣壓力<br>Air Connection<br>Max. Press<br>kgf/cm <sup>2</sup> (MPa) |                                      |          |
| LS1120RE                  | 35 (3.4)                                       | 89.6                                   | 84.8             | 2800 (27.5)      | 2700 (26.5)                                                | 8.2                           | --                                                |                                                                   |                                      |          |
| LS1221RE                  | 40 (3.9)                                       | 107.7                                  | 102              | 3900 (38)        | 3800 (37)                                                  | 10.8                          | --                                                |                                                                   |                                      |          |
| LS1330RE                  | 40 (3.9)                                       | 127.4                                  | 119.4            | 4600 (45)        | 4300 (42)                                                  | 11.4                          | --                                                |                                                                   |                                      |          |
| LS1120REA                 | 35 (3.4)                                       | 88.6                                   | 84.8             | 2800 (27.5)      | 2700 (26.5)                                                | 8.25                          | 10.2(1.0)                                         |                                                                   |                                      |          |
| LS1221REA                 | 40 (3.9)                                       | 106.7                                  | 102              | 3900 (38)        | 3800 (37)                                                  | 10.8                          | 10.2(1.0)                                         |                                                                   |                                      |          |
| LS1330REA                 | 40 (3.9)                                       | 126.4                                  | 119.4            | 4600 (45)        | 4300 (42)                                                  | 11.4                          | 10.2(1.0)                                         |                                                                   |                                      |          |

★流量測試標準-壓力:30kgf/cm<sup>2</sup>(2.94MPa) 油溫:50°C ★Test standard of oil leakage: Pressure-30 kgf/cm<sup>2</sup>(2.94MPa), Oil temperature-50°C

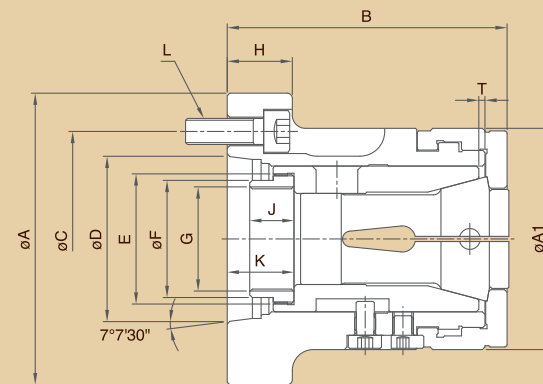
# CK COLLET CHUCKS

## 筒夾夾頭

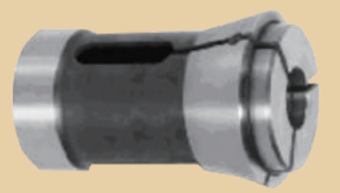


使用筒夾必須符合DIN 6343規範  
Use collect which conform with DIN6343

尺寸圖 » Dimensions



Multibore Collet



Spring Collet

規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A                             | A1               | B                             | C                    | D                                                 | E                            |                              |
|---------------------------|-------------------------------|------------------|-------------------------------|----------------------|---------------------------------------------------|------------------------------|------------------------------|
| CK30A4                    | 112                           | 85               | 107.5                         | 82.6                 | 63.513                                            | M50x1.5P                     |                              |
| CK42A5                    | 135                           | 100              | 127                           | 104.8                | 82.563                                            | M66x1.5P                     |                              |
| CK42A6                    | 165                           | 100              | 127                           | 133.4                | 106.375                                           | M66x1.5P                     |                              |
| CK52A5                    | 135                           | 110              | 127                           | 104.8                | 82.563                                            | M72x1.5P                     |                              |
| CK52A6                    | 165                           | 130              | 150                           | 133.4                | 106.375                                           | M90x1.5P                     |                              |
| CK60A6                    | 165                           | 130              | 150                           | 133.4                | 106.375                                           | M90x1.5P                     |                              |
| 型式/規格<br>MODEL<br>/ SPEC. | F                             | G                | H                             | J                    | K<br>max.                                         | K<br>min.                    |                              |
| CK30A4                    | 45                            | M40x1.5P         | 25                            | 17                   | 28                                                | 23                           |                              |
| CK42A5                    | 60                            | M55x2P           | 27                            | 25                   | 34                                                | 28                           |                              |
| CK42A6                    | 65.8                          | M60x2P           | 32                            | 25                   | 34                                                | 28                           |                              |
| CK52A5                    | 67                            | M60x2P           | 27                            | 15                   | 34                                                | 28                           |                              |
| CK52A6                    | 67                            | M60x2P           | 27                            | 30                   | 38                                                | 32                           |                              |
| CK60A6                    | 82                            | M75x2P           | 27                            | 30                   | 38                                                | 32                           |                              |
| 型式/規格<br>MODEL<br>/ SPEC. | L                             | T                | 套筒行程<br>Sleeve Stroke<br>(mm) | 淨重<br>Weight<br>(kg) | 最高迴轉速<br>Max. Speed<br>r.p.m (min <sup>-1</sup> ) | 搭配油壓缸型號<br>Matching Cylinder |                              |
| CK30A4                    | 3-M10x1.5P                    | 2.3              | 5                             | 4.0                  | 7000                                              | P1036                        |                              |
| CK42A5                    | 4-M10x1.5P                    | 3.2              | 6                             | 6.2                  | 6000                                              | P1246                        |                              |
| CK42A6                    | 4-M12x1.75P                   | 3.2              | 6                             | 7.6                  | 6000                                              | P1552                        |                              |
| CK52A5                    | 4-M10x1.5P                    | 3.2              | 6                             | 6.7                  | 6000                                              | P1552                        |                              |
| CK52A6                    | 4-M12x1.75P                   | 3.2              | 6                             | 12.1                 | 6000                                              | P1552                        |                              |
| CK60A6                    | 4-M12x1.75P                   | 3.2              | 6                             | 11.1                 | 5000                                              | P1875                        |                              |
| 型式/規格<br>MODEL<br>/ SPEC. | 搭配筒夾型號<br>Matching Collet Ref |                  | 夾持範圍<br>GrippingRange         |                      |                                                   | 最大推力<br>Max. Push Force      | 最大靜夾持力<br>Max. GrippingForce |
|                           | Spring Collet                 | Multibore Collet | 圓棒<br>Round                   | 六角材<br>Hexagonal     | 方材<br>Square                                      | kgf (kN)                     | kgf (kN)                     |
| CK30A4                    | 163E                          | M-669            | ø3~ø30                        | 4~27                 | 5~20                                              | 2040(20)                     | 4488(44)                     |
| CK42A5                    | 173E                          | M-673            | ø3~ø42                        | 6~36                 | 6~30                                              | 2550(25)                     | 5610(55)                     |
| CK42A6                    | 173E                          | M-673            | ø3~ø42                        | 6~36                 | 6~30                                              | 2550(25)                     | 5610(55)                     |
| CK52A5                    | 177E                          | --               | ø5~ø52                        | 8~45                 | 7~36                                              | 2850(28)                     | 6620(61)                     |
| CK52A6                    | 177E                          | --               | ø5~ø52                        | 8~45                 | 7~36                                              | 2850(28)                     | 6620(61)                     |
| CK60A6                    | 185E                          | M-677            | ø4~ø60                        | 8~52                 | 7~42                                              | 3060(30)                     | 6630(65)                     |

# IC, TB-IC INDEXING CHUCKS, HYDRAULIC FEED TUBE

## 分度夾頭/油壓迴轉器

- 1.適合多軸向加工需求例如閥體、十字軸、管接頭等
- 2.自動化設計：搭配迴轉器與自動控制系統。主軸運轉時自動執行90度分度定位。
- 3.離心力補償系統：主軸高速迴轉時能自動補償並減少離心力造成的夾持力損失，使夾持更加穩定並提升工作效率。
- 4.高剛性與高精度結構：最佳化設計的高剛性結構能確保工作時的精度需求與長時間使用的穩定性。

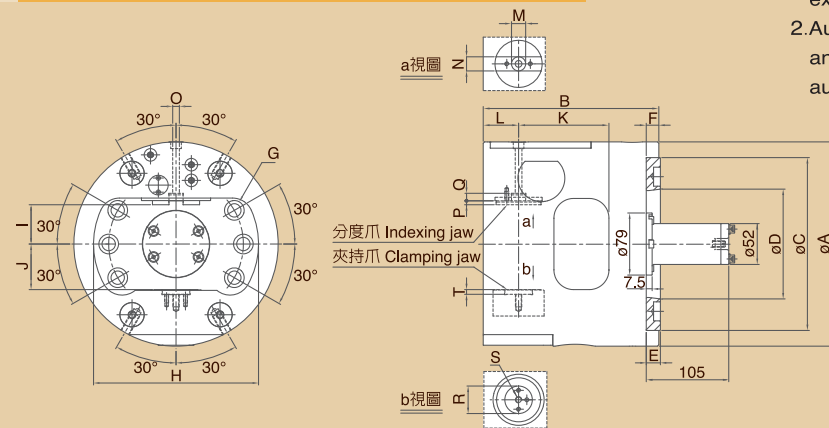
新產品  
**NEW**

專利產品  
**Patent Protected**

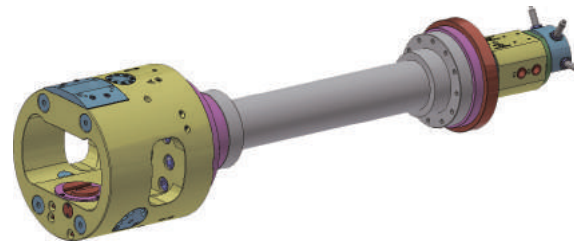


- 1.Specialize for multi-axis manufacturing requirement, ex: Valve, Cross bearing, hose joint...etc.
- 2.Automatic mechanism: With the special hydraulic feeder and automatic control unit, the chuck could 90 indexing automatically during the spindle turning.
- 3.Centrifugal force compensation: Compensation structure could reduce the clamping force lost during high speed turning and stabilize the work-clamping.
- 4.The optimal structure design provides the best rigidity and precision.

### 尺寸圖 » Dimensions



### 應用實例 » Operation Example



單位/UNIT:mm

| 規格表 » Specifications      |                                                 |           |                                      |         |                                           |    |                                            |                                                                    |      |
|---------------------------|-------------------------------------------------|-----------|--------------------------------------|---------|-------------------------------------------|----|--------------------------------------------|--------------------------------------------------------------------|------|
| 型式/規格<br>MODEL<br>/ SPEC. | A                                               | B         | C                                    | D       | E                                         | F  | G                                          | H                                                                  | I    |
| IC-260                    | 260                                             | 223.5     | 220                                  | 139.719 | 18                                        | 16 | 6-M16x2P(PCDø171.4)                        | 210                                                                | 50   |
| 型式/規格<br>MODEL<br>/ SPEC. | J<br>max.                                       | J<br>min. | K                                    | L       | M                                         | N  | O                                          | P                                                                  | Q    |
| IC-260                    | 58                                              | 40        | 115                                  | 45      | 18                                        | 18 | 8.5                                        | 5                                                                  | 9.55 |
| 型式/規格<br>MODEL<br>/ SPEC. | S                                               | øR        |                                      | T       | 分度角度<br>Index Angle                       |    | 活塞面積<br>Piston Area<br>(cm²)               | 柱塞行程<br>Plunger Stroke<br>(mm)                                     |      |
| IC-260                    | M8x1.25P                                        | 35        |                                      | 6       | 4x90°                                     |    | 43                                         | 18                                                                 |      |
| 型式/規格<br>MODEL<br>/ SPEC. | 最大設定油壓壓力<br>Max. Hydr Pressure<br>Kgf/cm² (MPa) |           | 最高迴轉速<br>Max. Speed<br>r.p.m (min⁻¹) |         | 最大靜夾持力<br>Max. Gripping Force<br>kgf (kN) |    | 搭配油壓迴轉器<br>Matching Hydraulic<br>feed tube | 夾持範圍<br>Gripping Range<br>最大迴轉直徑 厚度<br>Max. rotation dia Thickness |      |
| IC-260                    | 45 (4.4)                                        |           | 3600                                 |         | 1800 (17.6)                               |    | TB-IC                                      | 200 70                                                             |      |

# PLVE PULL BACK POWER CHUCK FIXTURES

## 後拉式油壓夾盤

後拉式油壓夾盤在工作台面的鉗、銑加工時，夾持工件穩固不會上浮，適用重切削或鑄件及鍛件的加工。

新產品  
**NEW**

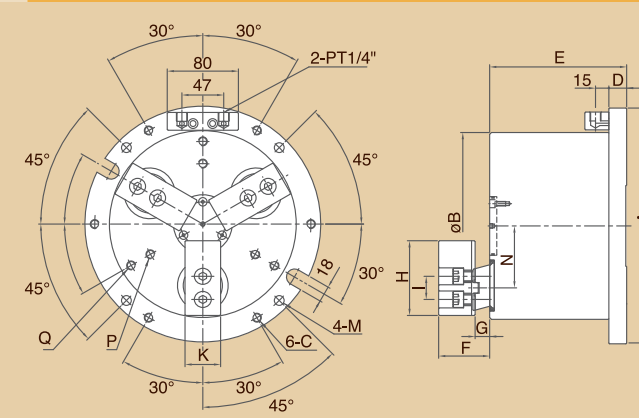
- 1.氣缸防銹處理：在潮濕及工作環境較差的情況，氣缸內部經防銹處理，不會生銹或卡死。
- 2.防塵裝置：在工作台上的鉗銑加工、切屑及冷卻液不會進入夾盤內部，確保夾盤的使用壽命及精度。
- 3.重力夾持設計：搭配油壓系統作重力夾持工件，結構設計穩固不會變形。



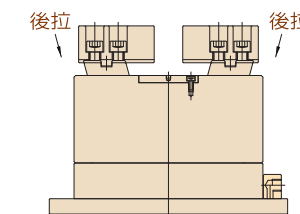
Pull Back Power Chuck Fixture is ideal for machining application on working table, workpiece can be clamped firmly not lift up; it is suitable for heavy cutting as well as the casting and forging machining.

- 1.Rust-proof for Pneumatic Cylinder: Inside wall of cylinder being rustproof treated; cylinder can work under wet or high moisture circumstances without rusty or seized trouble.
- 2.Dusts-proof and Waterproof: Dust-proof and Waterproof structure prevents work-chips and coolant water from entering into inside of chuck cylinder to maintain its accuracy and lead to longer service life.
- 3.Heavy Duty Clamping Design: Collocating hydraulic system to do heavy duty clamping, the chuck structure is steady and won't deform.

### 尺寸圖 » Dimensions



### 應用實例 » Operation Example



| 規格表 » Specifications      |                                |     |                                          |           |                                           |           |                                                    |           |                              |     |    |    | 單位/UNIT:mm |
|---------------------------|--------------------------------|-----|------------------------------------------|-----------|-------------------------------------------|-----------|----------------------------------------------------|-----------|------------------------------|-----|----|----|------------|
| 型式/規格<br>MODEL<br>/ SPEC. | A                              | B   | C                                        | D         | E                                         | F<br>Max. | F<br>min.                                          | G<br>Max. | G<br>min.                    | H   | I  | K  |            |
| PLVE-06                   | 224                            | 169 | M10x1.5P(PCDø202)                        | 17        | 140                                       | 45.65     | 35.65                                              | 14.65     | 4.65                         | 70  | -- | 35 |            |
| PLVE-08                   | 265                            | 210 | M10x1.5P(PCDø243)                        | 17        | 154                                       | 57.15     | 47.15                                              | 16.15     | 6.15                         | 84  | 26 | 40 |            |
| PLVE-10                   | 315                            | 254 | M12x1.75P(PCDø285)                       | 20        | 185                                       | 67.6      | 51.6                                               | 21.6      | 5.6                          | 100 | 32 | 50 |            |
| 型式/規格<br>MODEL<br>/ SPEC. | M                              |     | N<br>Max.                                | N<br>min. | P                                         |           | Q                                                  |           | 活塞面積<br>Piston Area<br>(cm²) |     |    |    |            |
| PLVE-06                   | ø11(PCD ø202)                  |     | 56.69                                    | 54.01     | 3-M6x1P(PCDø80)                           |           | 3-M6x1P(PCDø120)                                   |           | 91                           |     |    |    |            |
| PLVE-08                   | ø11(PCD ø243)                  |     | 69.56                                    | 66.88     | 3-M10x1.5P(PCDø136)                       |           | 3-M10x1.5P(PCDø186)                                |           | 160                          |     |    |    |            |
| PLVE-10                   | ø13(PCD ø285)                  |     | 87.44                                    | 81.61     | 3-M12x1.75P(PCDø170)                      |           | 3-M12x1.75P(PCDø230)                               |           | 215                          |     |    |    |            |
| 型式/規格<br>MODEL<br>/ SPEC. | 柱塞行程<br>Plunger Stroke<br>(mm) |     | 爪行程〔直徑〕<br>Jaw Stroke [Diameter]<br>(mm) |           | 最大靜夾持力<br>Max. Gripping Force<br>kgf (kN) |           | 最大設定油壓壓力<br>Max. Pressure Setting<br>kgf/cm² (MPa) |           | 夾持範圍<br>Gripping Range       |     |    |    |            |
| PLVE-06                   | 10                             |     | 5.3                                      |           | 2950 (29)                                 |           | 16 (1.57)                                          |           | ø35~ø160                     |     |    |    |            |
| PLVE-08                   | 10                             |     | 5.3                                      |           | 4890 (48)                                 |           | 15 (1.47)                                          |           | ø40~ø210                     |     |    |    |            |
| PLVE-10                   | 16                             |     | 11.6                                     |           | 4990 (49)                                 |           | 16 (1.57)                                          |           | ø50~ø254                     |     |    |    |            |

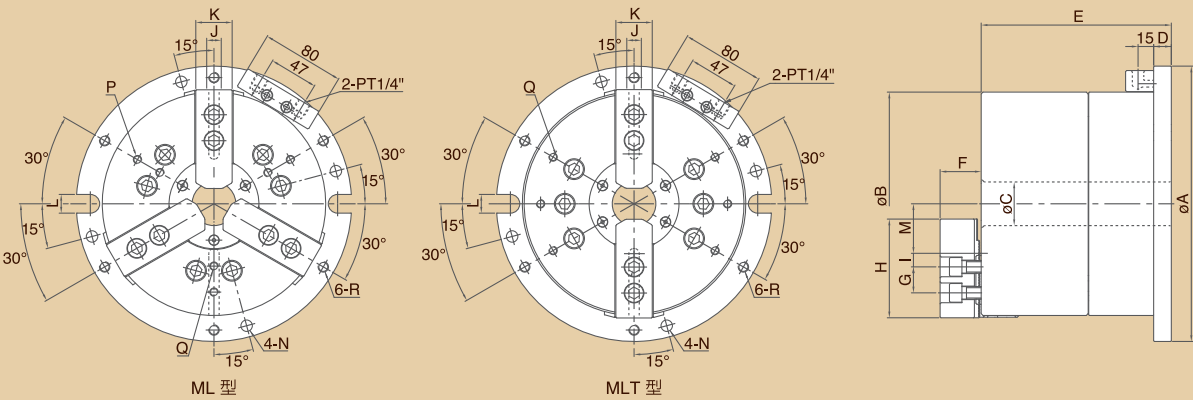
# ML,MLT LONG STROKE HOLLOW POWER CHUCK FIXTURES

中空長行程  
油壓夾盤

新產品  
**NEW**



尺寸圖 » Dimensions



規格表 » Specifications

| 型式/規格<br>MODEL<br>/ SPEC. | A                                         | B                              | C                                        | D                                         | E                                                            | F                      | G         | H   |
|---------------------------|-------------------------------------------|--------------------------------|------------------------------------------|-------------------------------------------|--------------------------------------------------------------|------------------------|-----------|-----|
| ML-06                     | 224                                       | 173                            | 36                                       | 17                                        | 160                                                          | 37.5                   | 20        | 73  |
| ML-08                     | 265                                       | 215                            | 42                                       | 17                                        | 183                                                          | 39.5                   | 25        | 95  |
| ML-10                     | 315                                       | 256                            | 61                                       | 20                                        | 211                                                          | 43                     | 30        | 110 |
| MLT-06                    | 224                                       | 173                            | 36                                       | 17                                        | 160                                                          | 37.5                   | 20        | 73  |
| MLT-08                    | 265                                       | 215                            | 42                                       | 17                                        | 183                                                          | 39.5                   | 25        | 95  |
| MLT-10                    | 315                                       | 256                            | 61                                       | 20                                        | 211                                                          | 43                     | 30        | 110 |
| 型式/規格<br>MODEL<br>/ SPEC. | I<br>max.                                 | I<br>min.                      | J                                        | K                                         | L                                                            | M<br>max.              | M<br>min. |     |
| ML-06                     | 21.05                                     | 10.55                          | 12                                       | 31                                        | 18                                                           | 39.07                  | 33.46     |     |
| ML-08                     | 25.05                                     | 14.55                          | 14                                       | 35                                        | 18                                                           | 47.85                  | 39.66     |     |
| ML-10                     | 29.05                                     | 12.55                          | 16                                       | 40                                        | 18                                                           | 61.34                  | 52.06     |     |
| MLT-06                    | 21.05                                     | 10.55                          | 12                                       | 31                                        | 18                                                           | 39.07                  | 33.46     |     |
| MLT-08                    | 25.05                                     | 14.55                          | 14                                       | 35                                        | 18                                                           | 47.85                  | 39.66     |     |
| MLT-10                    | 29.05                                     | 12.55                          | 16                                       | 40                                        | 18                                                           | 61.34                  | 52.06     |     |
| 型式/規格<br>MODEL<br>/ SPEC. | N                                         | P                              | Q                                        | R                                         | 通孔直徑<br>Thru-Hole<br>[Diameter] (mm)                         |                        |           |     |
| ML-06                     | ø11(PCDø202)                              | 3-M8x1.25P(PCDø140)            | 3-M8x1.25P(PCDø90)                       | M10x1.5P(PCDø202)                         | 36                                                           |                        |           |     |
| ML-08                     | ø11(PCDø243)                              | 3-M8x1.25P(PCDø170)            | 3-M8x1.25P(PCDø120)                      | M10x1.5P(PCDø243)                         | 42                                                           |                        |           |     |
| ML-10                     | ø13(PCDø285)                              | 3-M12x1.75P(PCDø220)           | 3-M12x1.75P(PCDø160)                     | M12x1.75P(PCDø285)                        | 61                                                           |                        |           |     |
| MLT-06                    | ø11(PCDø202)                              | --                             | 6-M10x1.5P(PCDø145)                      | M10x1.5P(PCDø202)                         | 36                                                           |                        |           |     |
| MLT-08                    | ø11(PCDø243)                              | --                             | 6-M10x1.5P(PCDø180)                      | M10x1.5P(PCDø243)                         | 42                                                           |                        |           |     |
| MLT-10                    | ø13(PCDø285)                              | --                             | 6-M12x1.75P(PCDø225)                     | M12x1.75P(PCDø285)                        | 61                                                           |                        |           |     |
| 型式/規格<br>MODEL<br>/ SPEC. | 活塞面積<br>Piston Area<br>(cm <sup>2</sup> ) | 柱塞行程<br>Plunger Stroke<br>(mm) | 爪行程〔直徑〕<br>Jaw Stroke [Diameter]<br>(mm) | 最大靜夾持力<br>Max. Gripping Force<br>kgf (kN) | 最大設定油壓壓力<br>Max. Hydr. Pressure<br>kgf/cm <sup>2</sup> (MPa) | 夾持範圍<br>Gripping Range |           |     |
| ML-06                     | 85                                        | 15                             | 10.8                                     | 4080 (40)                                 | 29 (2.9)                                                     | ø20~ø173               |           |     |
| ML-08                     | 154                                       | 22                             | 16                                       | 5910 (58)                                 | 24 (2.4)                                                     | ø25~ø215               |           |     |
| ML-10                     | 199                                       | 25                             | 18                                       | 7540 (74)                                 | 23 (2.3)                                                     | ø40~ø256               |           |     |
| MLT-06                    | 85                                        | 15                             | 10.8                                     | 2650 (26)                                 | 19 (1.9)                                                     | ø20~ø173               |           |     |
| MLT-08                    | 154                                       | 22                             | 16                                       | 3870 (38)                                 | 16 (1.6)                                                     | ø25~ø215               |           |     |
| MLT-10                    | 199                                       | 25                             | 18                                       | 4990 (49)                                 | 16 (1.6)                                                     | ø40~ø256               |           |     |

# MEL,MELT CRANK TYPE LONG JAW STROKE HOLLOW POWER CHUCK FIXTURES

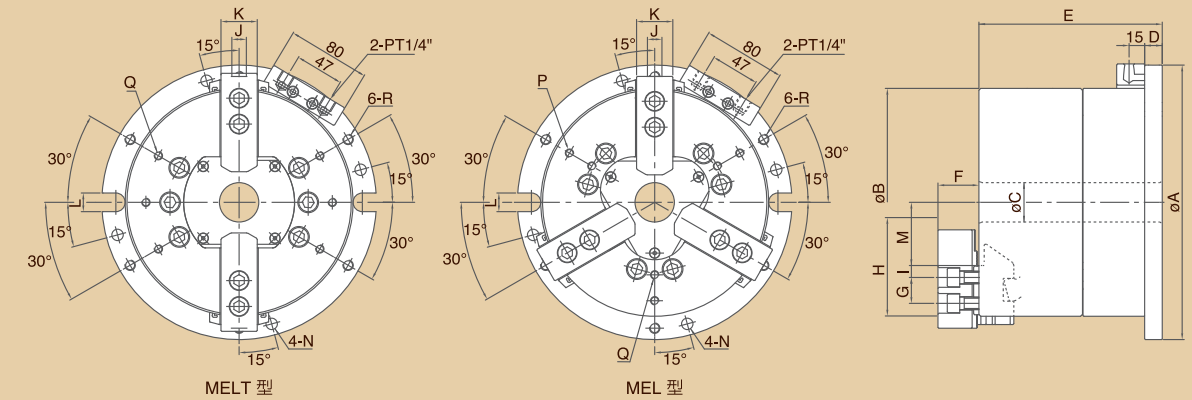
中空超長行程  
油壓夾盤

新產品  
**NEW**

專利產品  
Patent Protected



尺寸圖 » Dimensions



規格表 » Specifications

| 型式/規格<br>MODEL<br>/ SPEC. | A                                         | B                              | C                                        | D                                         | E                                                            | F                      | G         | H   |
|---------------------------|-------------------------------------------|--------------------------------|------------------------------------------|-------------------------------------------|--------------------------------------------------------------|------------------------|-----------|-----|
| MEL-06                    | 224                                       | 178                            | 28                                       | 17                                        | 157                                                          | 37.6                   | 20        | 73  |
| MEL-08                    | 265                                       | 220                            | 38                                       | 17                                        | 177                                                          | 39.5                   | 25        | 95  |
| MEL-10                    | 315                                       | 265                            | 61                                       | 20                                        | 212                                                          | 43.1                   | 30        | 110 |
| MELT-06                   | 224                                       | 178                            | 28                                       | 17                                        | 157                                                          | 37.6                   | 20        | 73  |
| MELT-08                   | 265                                       | 220                            | 38                                       | 17                                        | 177                                                          | 39.5                   | 25        | 95  |
| MELT-10                   | 315                                       | 265                            | 61                                       | 20                                        | 212                                                          | 43.1                   | 30        | 110 |
| 型式/規格<br>MODEL<br>/ SPEC. | I<br>max.                                 | I<br>min.                      | J                                        | K                                         | L                                                            | M<br>max.              | M<br>min. |     |
| MEL-06                    | 19.55                                     | 10.55                          | 12                                       | 31                                        | 18                                                           | 50.13                  | 38.03     |     |
| MEL-08                    | 20.55                                     | 11.55                          | 14                                       | 35                                        | 18                                                           | 61.0                   | 44.96     |     |
| MEL-10                    | 24.55                                     | 11.05                          | 16                                       | 40                                        | 18                                                           | 78.16                  | 59.37     |     |
| MELT-06                   | 19.55                                     | 10.55                          | 12                                       | 31                                        | 18                                                           | 50.13                  | 38.03     |     |
| MELT-08                   | 20.55                                     | 11.55                          | 14                                       | 35                                        | 18                                                           | 61.0                   | 44.96     |     |
| MELT-10                   | 24.55                                     | 11.05                          | 16                                       | 40                                        | 18                                                           | 78.16                  | 59.37     |     |
| 型式/規格<br>MODEL<br>/ SPEC. | N                                         | P                              | Q                                        | R                                         | 通孔直徑<br>Thru-Hole<br>[Diameter] (mm)                         |                        |           |     |
| MEL-06                    | ø11(PCDø202)                              | 3-M8x1.25P(PCDø160)            | 3-M8x1.25P(PCDø120)                      | M10x1.5P(PCDø202)                         | 28                                                           |                        |           |     |
| MEL-08                    | ø11(PCDø243)                              | 3-M8x1.25P(PCDø190)            | 3-M8x1.25P(PCDø140)                      | M10x1.5P(PCDø243)                         | 38                                                           |                        |           |     |
| MEL-10                    | ø13(PCDø285)                              | 3-M12x1.75P(PCDø230)           | 3-M12x1.75P(PCDø180)                     | M12x1.75P(PCDø285)                        | 61                                                           |                        |           |     |
| MELT-06                   | ø11(PCDø202)                              | --                             | 6-M8x1.25P(PCDø145)                      | M10x1.5P(PCDø202)                         | 28                                                           |                        |           |     |
| MELT-08                   | ø11(PCDø243)                              | --                             | 6-M10x1.5P(PCDø180)                      | M10x1.5P(PCDø243)                         | 38                                                           |                        |           |     |
| MELT-10                   | ø13(PCDø285)                              | --                             | 6-M12x1.75P(PCDø230)                     | M12x1.75P(PCDø285)                        | 61                                                           |                        |           |     |
| 型式/規格<br>MODEL<br>/ SPEC. | 活塞面積<br>Piston Area<br>(cm <sup>2</sup> ) | 柱塞行程<br>Plunger Stroke<br>(mm) | 爪行程〔直徑〕<br>Jaw Stroke [Diameter]<br>(mm) | 最大靜夾持力<br>Max. Gripping Force<br>kgf (kN) | 最大設定油壓壓力<br>Max. Hydr. Pressure<br>kgf/cm <sup>2</sup> (MPa) | 夾持範圍<br>Gripping Range |           |     |
| MEL-06                    | 85                                        | 15                             | 24                                       | 2670 (26)                                 | 30 (3.0)                                                     | ø25~ø178               |           |     |
| MEL-08                    | 154                                       | 20                             | 32                                       | 3900 (38.2)                               | 24 (2.4)                                                     | ø30~ø220               |           |     |
| MEL-10                    | 199                                       | 25                             | 37.5                                     | 5586 (54.7)                               | 26.5 (2.6)                                                   | ø45~ø265               |           |     |
| MELT-06                   | 85                                        | 15                             | 24                                       | 1790 (17.6)                               | 20 (2.0)                                                     | ø25~ø178               |           |     |
| MELT-08                   | 154                                       | 20                             | 32                                       | 2600 (25.5)                               | 16 (1.6)                                                     | ø30~ø220               |           |     |
| MELT-10                   | 199                                       | 25                             | 37.5                                     | 3724 (36.5)                               | 18 (1.8)                                                     | ø45~ø265               |           |     |

内藏式中空油壓夾盤

内藏式中空油壓夾盤適用於工作台面的鑽、銑加工而設計。

1.氣缸防銹處理：在潮溼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。

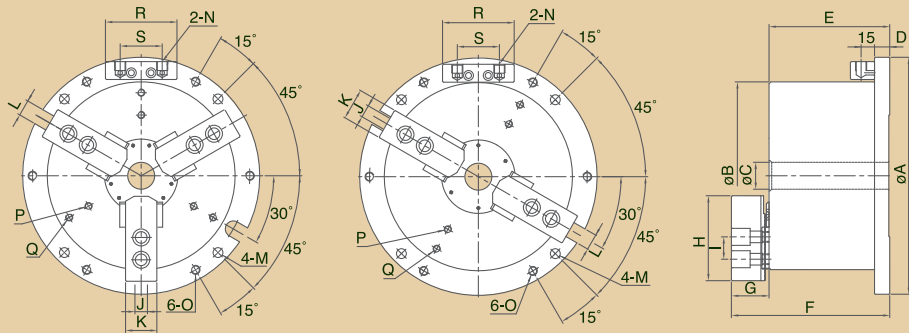
2.防塵裝置：在工作台上的鉗銑工作、切屑及冷卻液不易進入夾盤內部，確保夾盤的使用壽命及精度。

3.内藏式油缸特性：把油缸直接裝置於夾頭內部，更能確保連結的穩定性、提升夾持力，適用於重切削及夾持精度的保持，倍增機械效益。



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

尺寸圖 » Dimensions



- 1.Rust-proof for Pneumatic Cylinder:  
Inside wall of cylinder being rustproof treated; cylinder can work under wet or high moisture circumstances without rusty or seized trouble.
- 2.Dusts-proof and Waterproof:  
Dust-proof and Waterproof structure prevents work-chips and coolant water from entering into inside of chuck cylinder to maintain its accuracy and lead to longer service life.
- 3.Benefit of Built-in Cylinder:  
The cylinder is connected to chuck itself directly for obtaining better stability, less space, and higher machining efficiency.

大孔徑内藏式油壓夾盤

内藏式中空油壓夾盤適用於工作台面的鑽、銑加工而設計。

1.氣缸防銹處理：在潮溼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。

2.防塵裝置：在工作台上的鉗銑工作、切屑及冷卻液不易進入夾盤內部，確保夾盤的使用壽命及精度。

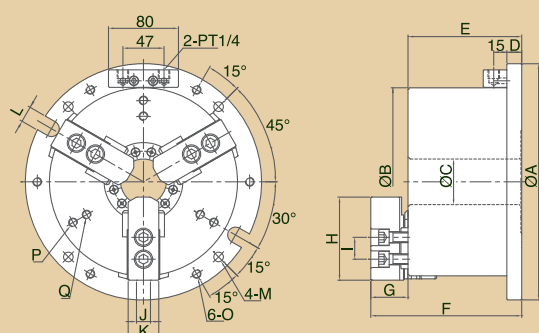
3.内藏式油缸特性：把油缸直接裝置於夾頭內部，更能確保連結的穩定性、提升夾持力，適用於重切削及夾持精度的保持，倍增機械效益。

新產品  
NEW



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

尺寸圖 » Dimensions



- 1.Rust-proof for Pneumatic Cylinder:  
Inside wall of cylinder being rustproof treated; cylinder can work under wet or high moisture circumstances without rusty or seized trouble.
- 2.Dusts-proof and Waterproof:  
Dust-proof and Waterproof structure prevents work-chips and coolant water from entering into inside of chuck cylinder to maintain its accuracy and lead to longer service life.
- 3.Benefit of Built-in Cylinder:  
The cylinder is connected to chuck itself directly for obtaining better stability, less space, and higher machining efficiency.

規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A                              | B                                        | C                                        | D                                                | E                    | F                      | G                         | H    | I  | J  | K  | L  | M             |
|---------------------------|--------------------------------|------------------------------------------|------------------------------------------|--------------------------------------------------|----------------------|------------------------|---------------------------|------|----|----|----|----|---------------|
| MO-04                     | 157                            | 115                                      | --                                       | 15                                               | 77.5                 | 104                    | 26                        | 49.5 | 14 | 10 | 23 | 13 | ø9(PCD ø135)  |
| MO-05                     | 185                            | 135                                      | --                                       | 15                                               | 95                   | 128                    | 33                        | 62   | 14 | 10 | 25 | 13 | ø9(PCD ø165)  |
| MO-06                     | 224                            | 169                                      | 25                                       | 16                                               | 118                  | 158                    | 40                        | 73   | 20 | 12 | 31 | 18 | ø11(PCD ø202) |
| MO-08                     | 265                            | 210                                      | 30                                       | 20                                               | 138                  | 180                    | 42                        | 95   | 25 | 14 | 35 | 18 | ø11(PCD ø243) |
| MO-10                     | 315                            | 254                                      | 52                                       | 23                                               | 150                  | 196                    | 46                        | 110  | 30 | 16 | 40 | 18 | ø13(PCD ø285) |
| MO-12                     | 375                            | 304                                      | 80                                       | 23                                               | 165                  | 219                    | 54                        | 129  | 30 | 21 | 50 | 18 | ø17(PCD ø340) |
| MOT-04                    | 157                            | 115                                      | --                                       | 15                                               | 77.5                 | 104                    | 26                        | 49.5 | 14 | 10 | 23 | 13 | ø9(PCD ø135)  |
| MOT-05                    | 185                            | 135                                      | --                                       | 15                                               | 95                   | 128                    | 33                        | 62   | 14 | 10 | 25 | 13 | ø9(PCD ø165)  |
| MOT-06                    | 224                            | 169                                      | 25                                       | 16                                               | 118                  | 158                    | 40                        | 73   | 20 | 12 | 31 | 18 | ø11(PCD ø202) |
| MOT-08                    | 265                            | 210                                      | 30                                       | 20                                               | 138                  | 180                    | 42                        | 95   | 25 | 14 | 35 | 18 | ø11(PCD ø243) |
| MOT-10                    | 315                            | 254                                      | 52                                       | 23                                               | 150                  | 196                    | 46                        | 110  | 30 | 16 | 40 | 18 | ø13(PCD ø285) |
| 型式/規格<br>MODEL<br>/ SPEC. | N                              | O                                        | P                                        | R                                                | S                    | Q                      | 活塞面積<br>Piston Area (cm²) |      |    |    |    |    |               |
| MO-04                     | PT1/8                          | M8x1.25P                                 | 3-M8x1.25P(PCDø90)                       | 64                                               | 47                   | --                     | 57                        |      |    |    |    |    |               |
| MO-05                     | PT1/4                          | M8x1.25P                                 | 3-M8x1.25P(PCDø100)                      | 80                                               | 47                   | --                     | 74                        |      |    |    |    |    |               |
| MO-06                     | PT1/4                          | M10x1.5P                                 | 3-M8x1.25P(PCDø134)                      | 80                                               | 47                   | --                     | 97                        |      |    |    |    |    |               |
| MO-08                     | PT1/4                          | M10x1.5P                                 | 3-M10x1.5P(PCDø136)                      | 80                                               | 47                   | 3-M10x1.5P(PCDø186)    | 156                       |      |    |    |    |    |               |
| MO-10                     | PT1/4                          | M12x1.75P                                | 3-M12x1.75P(PCDø170)                     | 80                                               | 47                   | 3-M12x1.75P(PCDø230)   | 235                       |      |    |    |    |    |               |
| MO-12                     | PT3/8                          | M16x2P                                   | 3-M12x1.75P(PCDø200)                     | 80                                               | 55                   | 3-M12x1.75P(PCDø260)   | 292                       |      |    |    |    |    |               |
| MOT-04                    | PT1/8                          | M8x1.25P                                 | 2-M8x1.25P(PCDø90)                       | 64                                               | 47                   | --                     | 57                        |      |    |    |    |    |               |
| MOT-05                    | PT1/4                          | M8x1.25P                                 | 2-M8x1.25P(PCDø100)                      | 80                                               | 47                   | --                     | 74                        |      |    |    |    |    |               |
| MOT-06                    | PT1/4                          | M10x1.5P                                 | 2-M8x1.25P(PCDø134)                      | 80                                               | 47                   | --                     | 97                        |      |    |    |    |    |               |
| MOT-08                    | PT1/4                          | M10x1.5P                                 | 2-M10x1.5P(PCDø136)                      | 80                                               | 47                   | 2-M10x1.5P(PCDø186)    | 156                       |      |    |    |    |    |               |
| MOT-10                    | PT1/4                          | M12x1.75P                                | 2-M12x1.75P(PCDø170)                     | 80                                               | 47                   | 2-M12x1.75P(PCDø230)   | 235                       |      |    |    |    |    |               |
| 型式/規格<br>MODEL<br>/ SPEC. | 柱塞行程<br>Plunger Stroke<br>(mm) | 爪行程(直徑)<br>Jaw Stroke<br>(Diameter) (mm) | 最大靜夾持力<br>Max.Gripping Force<br>kgf (kN) | 最大設定油壓壓力<br>Max. Hydr. Pressure<br>kgf/cm² (MPa) | 淨重<br>Weight<br>(kg) | 夾持範圍<br>Gripping Range |                           |      |    |    |    |    |               |
| MO-04                     | 9                              | 3.8                                      | 2400 (23.5)                              | 15 (1.5)                                         | 7.05                 | ø9~ø115                |                           |      |    |    |    |    |               |
| MO-05                     | 10                             | 5.4                                      | 3285 (32.2)                              | 20 (2.0)                                         | 11.2                 | ø12~ø135               |                           |      |    |    |    |    |               |
| MO-06                     | 12                             | 5.5                                      | 5040 (49.4)                              | 20 (2.0)                                         | 21.0                 | ø15~ø169               |                           |      |    |    |    |    |               |
| MO-08                     | 16                             | 7.4                                      | 8100 (79.4)                              | 20 (2.0)                                         | 36.8                 | ø20~ø210               |                           |      |    |    |    |    |               |
| MO-10                     | 19                             | 8.8                                      | 12210 (119.7)                            | 20 (2.0)                                         | 56.4                 | ø33~ø254               |                           |      |    |    |    |    |               |
| MO-12                     | 23                             | 10.6                                     | 14500 (142.1)                            | 20 (2.0)                                         | 88.5                 | ø40~ø304               |                           |      |    |    |    |    |               |
| MOT-04                    | 9                              | 3.8                                      | 1900 (18.6)                              | 12 (1.2)                                         | 6.9                  | ø9~ø115                |                           |      |    |    |    |    |               |
| MOT-05                    | 10                             | 5.4                                      | 2620 (25.6)                              | 16 (1.6)                                         | 11.2                 | ø12~ø135               |                           |      |    |    |    |    |               |
| MOT-06                    | 12                             | 5.5                                      | 4030 (39.5)                              | 16 (1.6)                                         | 21.0                 | ø15~ø169               |                           |      |    |    |    |    |               |
| MOT-08                    | 16                             | 7.4                                      | 6480 (63.5)                              | 16 (1.6)                                         | 36.8                 | ø20~ø210               |                           |      |    |    |    |    |               |
| MOT-10                    | 19                             | 8.8                                      | 9760 (95.6)                              | 16 (1.6)                                         | 56.4                 | ø33~ø254               |                           |      |    |    |    |    |               |

規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A                              | B                                       | C                                        | D                                                | E                      | F                    | G                         | H   | I  | J  |
|---------------------------|--------------------------------|-----------------------------------------|------------------------------------------|--------------------------------------------------|------------------------|----------------------|---------------------------|-----|----|----|
| MB-06                     | 228                            | 173                                     | 45                                       | 16                                               | 118                    | 158                  | 40                        | 73  | 20 | 12 |
| MB-08                     | 270                            | 215                                     | 52                                       | 17                                               | 130                    | 172.5                | 42                        | 95  | 25 | 14 |
| MB-10                     | 315                            | 256                                     | 75                                       | 19                                               | 146                    | 190.5                | 46                        | 110 | 30 | 16 |
| 型式/規格<br>MODEL<br>/ SPEC. | K                              | L                                       | M                                        | O                                                | P                      | Q                    | 活塞面積<br>Piston Area (cm²) |     |    |    |
| MB-06                     | 31                             | 18                                      | 4-ø11(PCDø202)                           | M10x1.5P                                         | 3-M8x1.25P(PCDø134)    | --                   | 97                        |     |    |    |
| MB-08                     | 35                             | 18                                      | 4-ø11(PCDø243)                           | M10x1.5P                                         | 3-M10x1.5P(PCDø150)    | 3-M10x1.5P(PCDø186)  | 156                       |     |    |    |
| MB-10                     | 40                             | 18                                      | 4-ø13(PCDø285)                           | M12x1.75P                                        | 3-M12x1.75P(PCDø182)   | 3-M12x1.75P(PCDø232) | 226                       |     |    |    |
| 型式/規格<br>MODEL<br>/ SPEC. | 柱塞行程<br>Plunger Stroke<br>(mm) | 爪行程(直徑)<br>Jaw Stroke<br>(Diameter)(mm) | 最大靜夾持力<br>Max.Gripping Force<br>kgf (kN) | 最大設定油壓壓力<br>Max. Hydr. Pressure<br>kgf/cm² (MPa) | 夾持範圍<br>Gripping Range | 淨重<br>Weight<br>(kg) |                           |     |    |    |
| MB-06                     | 12                             | 5.5                                     | 5040 (49.4)                              | 20 (2.0)                                         | ø20~ø173               | 21.7                 |                           |     |    |    |
| MB-08                     | 16                             | 7.4                                     | 8100 (79.4)                              | 20 (2.0)                                         | ø25~ø215               | 35.5                 |                           |     |    |    |
| MB-10                     | 19                             | 8.8                                     | 12330 (120.9)                            | 21 (2.1)                                         | ø37~ø256               | 54                   |                           |     |    |    |

# MD,MD-M 3-JAW AIR CHUCKS FIXTURE(SINGLE PISTON)

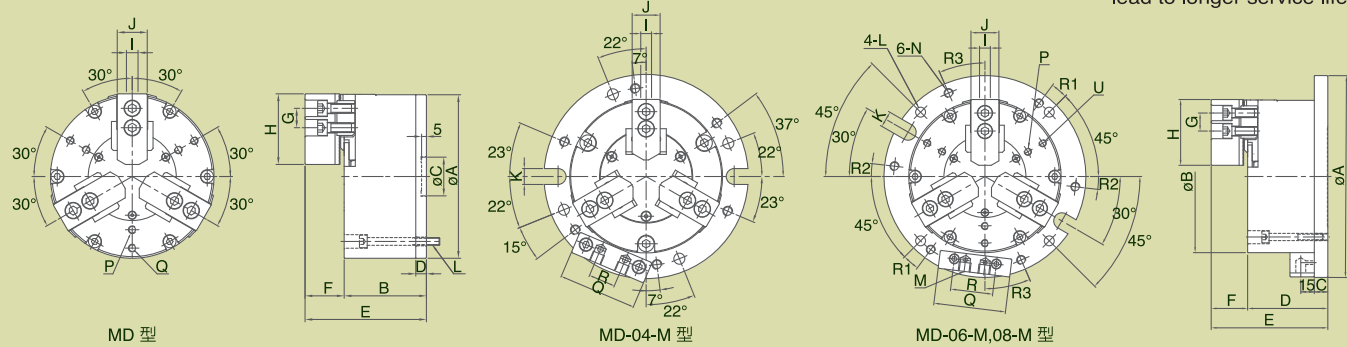
## 內藏式前鎖型 三爪氣壓夾盤 (單活塞)

新產品  
**NEW**  
專利產品  
Patent Protected

內藏式前鎖型氣壓夾盤特點：

- 1.前鎖型設計，安裝便利、節省空間。
- 2.可搭配治具板，安排模組化並列，配合量產需求。
- 3.汽缸防銹處理，更符合加工環境需求。
- 4.完整防塵設計，提升夾盤使用壽命及精度。

### 尺寸圖 » Dimensions



Air Chuck Fixture Special Features:

- 1.Front-lock design, easy installation & save a space.
- 2.Available on multi-plate for mass production.
- 3.Rust-proof for pneumatic cylinder.
- 4.Dusts-proof & water-proof design to maintain its accuracy and lead to longer service life.

# MFR,MFR-M 3-JAW AIR CHUCKS FIXTURE(DOUBLE PISTON)

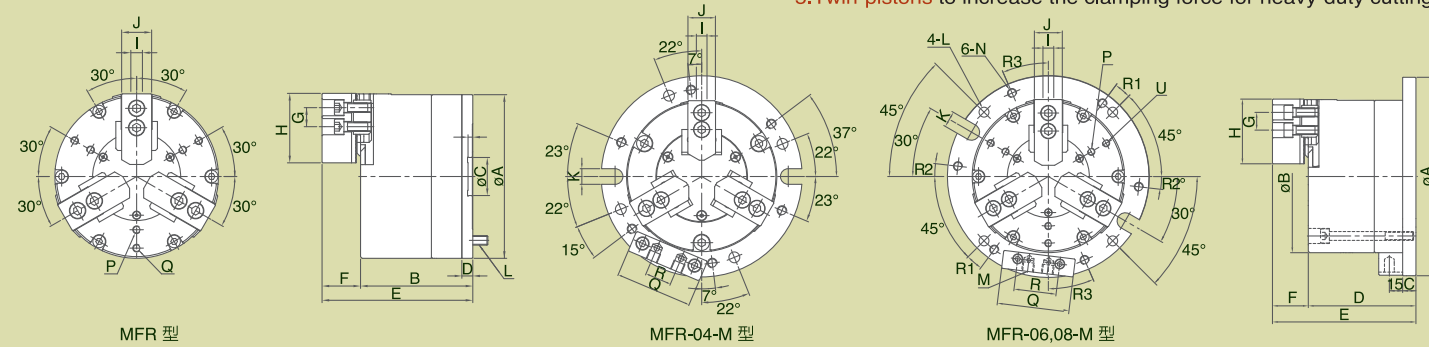
## 內藏式前鎖型 三爪氣壓夾盤 (雙活塞)

新產品  
**NEW**  
專利產品  
Patent Protected

內藏式前鎖型氣壓夾盤特點：

- 1.前鎖型設計，安裝便利、節省空間。
- 2.可搭配治具板，安排模組化並列，配合量產需求。
- 3.汽缸防銹處理，更符合加工環境需求。
- 4.完整防塵設計，提升夾盤使用壽命及精度。
- 5.雙活塞結構大幅提升夾持力，適合重切銷加工。

### 尺寸圖 » Dimensions



Air Chuck Fixture Special Features:

- 1.Front-lock design, easy installation & save a space.
- 2.Available on multi-plate for mass production.
- 3.Rust-proof for pneumatic cylinder.
- 4.Dusts-proof & water-proof design to maintain its accuracy and lead to longer service life.
- 5.Twin-pistons to increase the clamping force for heavy-duty cutting.

### 模組化治具氣壓夾盤 » FIXTURE CHUCKS MODLE

詳細資訊請洽營業部



氣壓切換閥  
(一對二)  
Pneumatic switching valve (1 to 2)

氣壓切換閥 (一對一)  
Pneumatic switching valve(1 to 1)

模組化並列  
Modular parallel

### 規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A                    | B     | C  | D                            | E     | F                              | G                 | H                                       | I  | J                         | K  | R                                                                         | R1                  | R2   | R3    |
|---------------------------|----------------------|-------|----|------------------------------|-------|--------------------------------|-------------------|-----------------------------------------|----|---------------------------|----|---------------------------------------------------------------------------|---------------------|------|-------|
| MD-04                     | 125                  | 78.5  | 40 | 11.5                         | 105.2 | 26.7                           | 14                | 49.5                                    | 10 | 23                        | -- | --                                                                        | --                  | --   | --    |
| MD-06                     | 172                  | 90    | 40 | 11.5                         | 130.4 | 40.4                           | 20                | 73                                      | 12 | 31                        | -- | --                                                                        | --                  | --   | --    |
| MD-08                     | 210                  | 108.5 | 40 | 14                           | 150.9 | 42.4                           | 25                | 95                                      | 14 | 35                        | -- | --                                                                        | --                  | --   | --    |
| MD-04-M                   | 167                  | 125   | 15 | 82                           | 108.7 | 26.7                           | 14                | 49.5                                    | 10 | 23                        | 13 | 47                                                                        | --                  | --   | --    |
| MD-06-M                   | 224                  | 172   | 15 | 93.5                         | 133.9 | 40.4                           | 20                | 73                                      | 12 | 31                        | 18 | 47                                                                        | 8.5°                | 6.5° | 23.5° |
| MD-08-M                   | 265                  | 210   | 20 | 114.5                        | 156.9 | 42.4                           | 25                | 95                                      | 14 | 35                        | 18 | 47                                                                        | 9.5°                | 5.5° | 24.5° |
| 型式/規格<br>MODEL<br>/ SPEC. | L                    |       |    | M                            |       |                                | N                 |                                         |    | P                         |    |                                                                           | Q                   |      |       |
| MD-04                     | 3-M8x1.25P(PCDø110)  |       |    | --                           |       |                                | --                |                                         |    | --                        |    |                                                                           | --                  |      |       |
| MD-06                     | 6-M10x1.5P(PCDø155)  |       |    | --                           |       |                                | --                |                                         |    | 3-M8x1.25P(PCDø110)       |    |                                                                           | 3-M8x1.25P(PCDø148) |      |       |
| MD-08                     | 6-M12x1.75P(PCDø185) |       |    | --                           |       |                                | --                |                                         |    | 3-M10x1.5P(PCDø136)       |    |                                                                           | 3-M10x1.5P(PCDø186) |      |       |
| MD-04-M                   | ø9(PCDø145)          |       |    | 2-PT1/8"                     |       |                                | M8x1.25P(PCDø145) |                                         |    | --                        |    |                                                                           | 64                  |      |       |
| MD-06-M                   | ø11(PCDø202)         |       |    | 2-PT1/4"                     |       |                                | M10x1.5P(PCDø202) |                                         |    | 3-M8x1.25P(PCDø110)       |    |                                                                           | 80                  |      |       |
| MD-08-M                   | ø11(PCDø243)         |       |    | 2-PT1/4"                     |       |                                | M10x1.5P(PCDø243) |                                         |    | 3-M10x1.5P(PCDø136)       |    |                                                                           | 80                  |      |       |
| 型式/規格<br>MODEL<br>/ SPEC. | U                    |       |    | 活塞面積<br>Piston Area<br>(cm²) |       | 柱塞行程<br>Plunger Stroke<br>(mm) |                   | 爪行程(直徑)<br>Jaw Stroke(Diameter)<br>(mm) |    | 夾持範圍<br>Gripping<br>Range |    | 空壓夾持力<br>Gripping Force At Air Pressure<br>7 kgf/cm² (0.7MPa)<br>kgf (kN) |                     |      |       |
| MD-04                     | --                   |       |    | 67                           |       | 10                             |                   | 3.5                                     |    | ø16~ø125                  |    | 1800 (17.6)                                                               |                     |      |       |
| MD-06                     | --                   |       |    | 136                          |       | 12                             |                   | 4.2                                     |    | ø24~ø172                  |    | 3700 (36.2)                                                               |                     |      |       |
| MD-08                     | --                   |       |    | 191                          |       | 18                             |                   | 6.3                                     |    | ø25~ø210                  |    | 5150 (50.5)                                                               |                     |      |       |
| MD-04-M                   | --                   |       |    | 67                           |       | 10                             |                   | 3.5                                     |    | ø16~ø125                  |    | 1800 (17.4)                                                               |                     |      |       |
| MD-06-M                   | 3-M8x1.25P(PCDø148)  |       |    | 136                          |       | 12                             |                   | 4.2                                     |    | ø24~ø172                  |    | 3700 (36.2)                                                               |                     |      |       |
| MD-08-M                   | 3-M10x1.5P(PCDø186)  |       |    | 191                          |       | 18                             |                   | 6.3                                     |    | ø25~ø210                  |    | 5150 (50.5)                                                               |                     |      |       |

### 模組化治具氣壓夾盤 » FIXTURE CHUCKS MODLE

詳細資訊請洽營業部



氣壓切換閥  
(一對二)  
Pneumatic switching valve (1 to 2)

氣壓切換閥 (一對一)  
Pneumatic switching valve(1 to 1)

模組化並列  
Modular parallel

### 規格表 » Specifications

單位/UNIT:mm

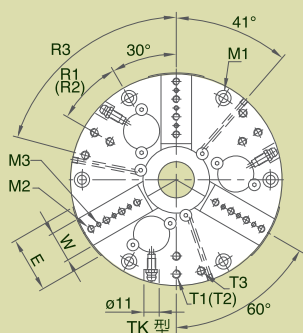
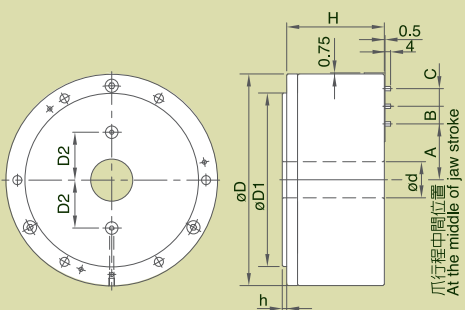
| 型式/規格<br>MODEL<br>/ SPEC. | A                   | B   | C  | D                            | E     | F                              | G                 | H                                       | I  | J                         | K  | R                                                                         | R1                  | R2   | R3    |
|---------------------------|---------------------|-----|----|------------------------------|-------|--------------------------------|-------------------|-----------------------------------------|----|---------------------------|----|---------------------------------------------------------------------------|---------------------|------|-------|
| MFR-04                    | 125                 | 105 | 40 | 11.5                         | 131.7 | 26.7                           | 14                | 49.5                                    | 10 | 23                        | -- | --                                                                        | --                  | --   | --    |
| MFR-06                    | 172                 | 118 | 40 | 11.5                         | 158.4 | 40.4                           | 20                | 73                                      | 12 | 31                        | -- | --                                                                        | --                  | --   | --    |
| MFR-08                    | 210                 | 145 | 40 | 14                           | 187.4 | 42.4                           | 25                | 95                                      | 14 | 35                        | -- | --                                                                        | --                  | --   | --    |
| MFR-04-M                  | 167                 | 125 | 15 | 108.5                        | 135.2 | 26.7                           | 14                | 49.5                                    | 10 | 23                        | 13 | 47                                                                        | --                  | --   | --    |
| MFR-06-M                  | 224                 | 172 | 15 | 121.5                        | 161.9 | 40.4                           | 20                | 73                                      | 12 | 31                        | 18 | 47                                                                        | 8.5°                | 6.5° | 23.5° |
| MFR-08-M                  | 265                 | 210 | 20 | 151                          | 193.4 | 42.4                           | 25                | 95                                      | 14 | 35                        | 18 | 47                                                                        | 9.5°                | 5.5° | 24.5° |
| 型式/規格<br>MODEL<br>/ SPEC. | L                   |     |    | M                            |       |                                | N                 |                                         |    | P                         |    |                                                                           | Q                   |      |       |
| MFR-04                    | 3-M8x1.25P(PCDø110) |     |    | --                           |       |                                | --                |                                         |    | --                        |    |                                                                           | --                  |      |       |
| MFR-06                    | 6-M10x1.5P(PCDø155) |     |    | --                           |       |                                | --                |                                         |    | 3-M8x1.25P(PCDø110)       |    |                                                                           | 3-M8x1.25P(PCDø148) |      |       |
| MFR-08                    | 6-M12x1.5P(PCDø185) |     |    | --                           |       |                                | --                |                                         |    | 3-M10x1.5P(PCDø136)       |    |                                                                           | 3-M10x1.5P(PCDø186) |      |       |
| MFR-04-M                  | ø9(PCDø145)         |     |    | 2-PT1/8"                     |       |                                | M8x1.25P(PCDø145) |                                         |    | --                        |    |                                                                           | 64                  |      |       |
| MFR-06-M                  | ø11(PCDø202)        |     |    | 2-PT1/4"                     |       |                                | M10x1.5P(PCDø202) |                                         |    | 3-M8x1.25P(PCDø110)       |    |                                                                           | 80                  |      |       |
| MFR-08-M                  | ø11(PCDø243)        |     |    | 2-PT1/4"                     |       |                                | M10x1.5P(PCDø243) |                                         |    | 3-M10x1.5P(PCDø136)       |    |                                                                           | 80                  |      |       |
| 型式/規格<br>MODEL<br>/ SPEC. | U                   |     |    | 活塞面積<br>Piston Area<br>(cm²) |       | 柱塞行程<br>Plunger Stroke<br>(mm) |                   | 爪行程(直徑)<br>Jaw Stroke(Diameter)<br>(mm) |    | 夾持範圍<br>Gripping<br>Range |    | 空壓夾持力<br>Gripping Force At Air Pressure<br>7 kgf/cm² (0.7MPa)<br>kgf (kN) |                     |      |       |
| MFR-04                    | --                  |     |    | 133                          |       | 9                              |                   | 3.8                                     |    | ø16~ø125                  |    | 2980 (29.2)                                                               |                     |      |       |
| MFR-06                    | --                  |     |    | 270                          |       | 10                             |                   | 5.3                                     |    | ø24~ø172                  |    | 5280 (51.7)                                                               |                     |      |       |
| MFR-08                    | --                  |     |    | 380                          |       | 16                             |                   | 7.4                                     |    | ø25~ø210                  |    | 7800 (76.4)                                                               |                     |      |       |
| MFR-04-M                  | --                  |     |    | 133                          |       | 9                              |                   | 3.8                                     |    | ø16~ø125                  |    | 2980 (29.2)                                                               |                     |      |       |
| MFR-06-M                  | 3-M8x1.25P(PCDø148) |     |    | 270                          |       | 10                             |                   | 5.3                                     |    | ø24~ø172                  |    | 5280 (51.7)                                                               |                     |      |       |
| MFR-08-M                  | 3-M10x1.5P(PCDø186) |     |    | 380                          |       | 16                             |                   | 7.4                                     |    | ø25~ø210                  |    | 7800 (76.4)                                                               |                     |      |       |

# TK,TK-T SUPER PRECISION AIR CHUCKS

## 超精密氣壓夾頭

- 1.預設治具孔及預留自動潤滑管道：爪殼預設治具孔，有額外固定需要時不須再追加加工；且預留自動潤滑管道，可與自動潤滑裝置連結。
- 2.內藏式汽缸：汽缸與夾盤直結設計，確保作動及夾持的穩定性。
- 3.生爪精密定位：設有定位銷使生爪在重複拆裝時仍保持良好的定位精度。
- 4.超高精度夾持提高工作效率：夾持工件的同軸度及重覆夾持精度可達 $\mu$ 級，簡化操作，實現高效率的精密加工。

### 尺寸圖 » Dimensions



- 1.Pre-machined tapped holes and lubrication path:  
There are tapped holes for fixing jigs, thus, additional screw machining is not necessary, and pre-machined lubrication path can connect to auto-lubrication unit to lubricate the chuck automatically.
- 2.Built-in Cylinder: Connect cylinder directly to the chuck for stabl gripping.
- 3.Precise soft jaw positioning:  
It's easy to remount soft jaw to the correct position with dowel pins on it.
- 4.High gripping precision brings better quality and efficiency:  
Good coaxiality and repeatability of gripping are able to achieve the accuracy of " $\mu$  degree" machining processes can be simplified or shortened to make high precision machining with high efficiency come true.

本產品精密度可達 $\mu$ 級

This product reaches the repeatability of " $\mu$  degree"

### 應用範例 » Operation Example



單位/UNIT:mm

### 規格表 » Specifications

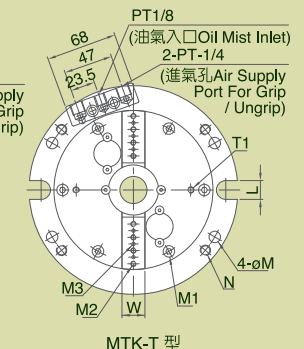
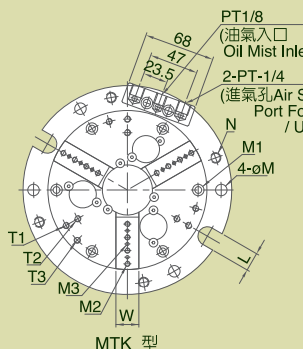
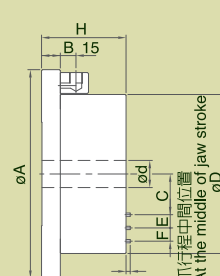
| 型式/規格<br>MODEL<br>/ SPEC. | A          | B       | C                                        | D                                                             | E                      | D1                                               | d<br>(H7)            | D2   | H    | h   | W  | M1                     |
|---------------------------|------------|---------|------------------------------------------|---------------------------------------------------------------|------------------------|--------------------------------------------------|----------------------|------|------|-----|----|------------------------|
| TK-04                     | 20.75      | 12.7    | 12.7                                     | 101.6                                                         | 30                     | 82.55                                            | 18                   | 25   | 70.3 | 3.2 | 16 | 6-M5x0.8P(PCDø88.9)    |
| TK-06                     | 39.75      | 12.7    | 12.7                                     | 152.4                                                         | 40                     | 124.97                                           | 26                   | 34.5 | 70.3 | 3.2 | 22 | 6-M6x1P(PCDø135.89)    |
| TK-08                     | 65.75      | 25.4    | --                                       | 203.2                                                         | 45                     | 167.64                                           | 50                   | 50   | 99.5 | 7.0 | 25 | 6-M10x1.5P(PCDø182.88) |
| TK-04T                    | 20.75      | 12.7    | 12.7                                     | 101.6                                                         | 30                     | 82.55                                            | 18                   | 25   | 70.3 | 3.2 | 16 | 6-M5x0.8P(PCDø88.9)    |
| TK-06T                    | 39.75      | 12.7    | 12.7                                     | 152.4                                                         | 40                     | 124.97                                           | 26                   | 34.5 | 70.3 | 3.2 | 22 | 6-M6x1P(PCDø135.89)    |
| TK-08T                    | 65.75      | 25.4    | --                                       | 203.2                                                         | 45                     | 167.64                                           | 50                   | 50   | 99.5 | 7.0 | 25 | 6-M10x1.5P(PCDø182.88) |
| 型式/規格<br>MODEL<br>/ SPEC. | M2         | M3      | T1                                       | T2                                                            | T3                     | R1                                               |                      |      |      |     |    |                        |
| TK-04                     | 6-M5x0.8P  | 9-ø3.18 | 3-M5x0.8P(PCDø88.9)                      | --                                                            | --                     | 30°                                              |                      |      |      |     |    |                        |
| TK-06                     | 12-M5x0.8P | 9-ø3.18 | 3-M6x1P(PCDø135.89)                      | 3-M6x1P(PCDø110)                                              | 3-M6x1P(PCDø135.89)    | 30°                                              |                      |      |      |     |    |                        |
| TK-08                     | 6-M10x1.5P | 6-ø6.36 | 3-M8x1.25P(PCDø182.88)                   | 3-M8x1.25P(PCDø150)                                           | 3-M8x1.25P(PCDø100)    | 30°                                              |                      |      |      |     |    |                        |
| TK-04T                    | 4-M5x0.8P  | 6-ø3.18 | 2-M5x0.8P(PCDø70)                        | --                                                            | --                     | --                                               |                      |      |      |     |    |                        |
| TK-06T                    | 8-M5x0.8P  | 6-ø3.18 | 2-M6x1P(PCDø110)                         | --                                                            | --                     | --                                               |                      |      |      |     |    |                        |
| TK-08T                    | 4-M10x1.5P | 4-ø6.36 | 2-M8x1.25P(PCDø150)                      | --                                                            | --                     | --                                               |                      |      |      |     |    |                        |
| 型式/規格<br>MODEL<br>/ SPEC. | R2         | R3      | 爪行程〔直徑〕<br>Jaw Stroke<br>[Diameter] (mm) | 空壓夾持力<br>At Air Pressure 7kgf/cm <sup>2</sup> (0.7MPa)<br>kgf | Gripping Force<br>(kN) | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 淨重<br>Weight<br>(kg) |      |      |     |    |                        |
| TK-04                     | --         | --      | 3                                        | 800                                                           | (7.8)                  | 4500                                             | 4.4                  |      |      |     |    |                        |
| TK-06                     | 30°        | 75°     | 3                                        | 1200                                                          | (11.7)                 | 4200                                             | 9.8                  |      |      |     |    |                        |
| TK-08                     | 30°        | 30°     | 3                                        | 1800                                                          | (17.6)                 | 2500                                             | 26.3                 |      |      |     |    |                        |
| TK-04T                    | --         | --      | 3                                        | 800                                                           | (7.8)                  | 3500                                             | 4.2                  |      |      |     |    |                        |
| TK-06T                    | --         | --      | 3                                        | 1200                                                          | (11.7)                 | 3500                                             | 9.5                  |      |      |     |    |                        |
| TK-08T                    | --         | --      | 3                                        | 1800                                                          | (17.6)                 | 2000                                             | 25.1                 |      |      |     |    |                        |

# MTK,MTK-T SUPER PRECISION AIR CHUCK FIXTURES

## 內藏式超精密氣壓夾盤

- 1.預設治具孔及預留自動潤滑管道：爪殼預設治具孔，有額外固定需要時不須再追加加工；且預留自動潤滑管道，可與自動潤滑裝置連結。
- 2.內藏式汽缸：汽缸與夾盤直結設計，確保作動及夾持的穩定性。
- 3.生爪精密定位：設有定位銷使生爪在重複拆裝時仍保持良好的定位精度。
- 4.超高精度夾持提高工作效率：夾持工件的同軸度及重覆夾持精度可達 $\mu$ 級，簡化操作，實現高效率的精密加工。

### 尺寸圖 » Dimensions



- 1.Pre-machined tapped holes and lubrication path:  
There are tapped holes for fixing jigs, thus, additional screw machining is not necessary, and pre-machined lubrication path can connect to auto-lubrication unit to lubricate the chuck automatically.
- 2.Built-in Cylinder:  
Connect cylinder directly to the chuck for stable gripping.
- 3.Precise soft jaw positioning:  
It's easy to remount soft jaw to the correct position with dowel pins on it.
- 4.High gripping precision brings better quality and efficiency:  
Good coaxiality and repeatability of gripping are able to achieve the accuracy of " $\mu$  degree" machining processes can be simplified or shortened to make high precision machining with high efficiency come true.

本產品精密度可達 $\mu$ 級

This product reaches the repeatability of " $\mu$  degree"

### 應用範例 » Operation Example

氣壓切換閥連接方式 / 特殊附件  
Examples of Attaching Pneumatic Manual Switch / Optional Accessories

### 規格表 » Specifications

| 型式/規格<br>MODEL<br>/ SPEC. | A                 | B                    | C                                           | D                                                              | d<br>(H7)              | E                    | F    | H  | W  | L  |
|---------------------------|-------------------|----------------------|---------------------------------------------|----------------------------------------------------------------|------------------------|----------------------|------|----|----|----|
| MTK-04                    | 148               | 17                   | 20.75                                       | 101.6                                                          | 18                     | 12.7                 | 12.7 | 80 | 16 | 13 |
| MTK-06                    | 200               | 18                   | 39.75                                       | 152.4                                                          | 26                     | 12.7                 | 12.7 | 81 | 22 | 18 |
| MTK-04T                   | 148               | 17                   | 20.75                                       | 101.6                                                          | 18                     | 12.7                 | 12.7 | 80 | 16 | 13 |
| MTK-06T                   | 200               | 18                   | 39.75                                       | 152.4                                                          | 26                     | 12.7                 | 12.7 | 81 | 22 | 18 |
| 型式/規格<br>MODEL<br>/ SPEC. | M                 | M1                   | M2                                          | M3                                                             | N                      | T1                   |      |    |    |    |
| MTK-04                    | ø9(PCDø130)       | 6-M5x0.8P(PCDø88.9)  | 6-M5x0.8P                                   | 9-ø3.18                                                        | 3-M8x1.25P             | 3-M5x0.8P(PCDø88.9)  |      |    |    |    |
| MTK-06                    | ø11(PCDø180)      | 6-M6x1P(PCDø135.89)  | 12-M5x0.8P                                  | 9-ø3.18                                                        | 4-M10x1.5P             | 3-M6x1P(PCDø135.89)  |      |    |    |    |
| MTK-04T                   | ø9(PCDø130)       | 6-M5x0.8P(PCDø88.9)  | 4-M5x0.8P                                   | 6-ø3.18                                                        | 3-M8x1.25P             | 2-M5x0.8P(PCDø70)    |      |    |    |    |
| MTK-06T                   | ø11(PCDø180)      | 6-M6x1P(PCDø135.89)  | 8-M5x0.8P                                   | 6-ø3.18                                                        | 4-M10x1.5P             | 2-M6x1P(PCDø110)     |      |    |    |    |
| 型式/規格<br>MODEL<br>/ SPEC. | T2                | T3                   | 爪行程(直徑)<br>Jaw Stroke<br>(Diameter)<br>(mm) | 空壓夾持力<br>At Air Pressure 7 kgf/cm <sup>2</sup> (0.7MPa)<br>kgf | Gripping Force<br>(kN) | 淨重<br>Weight<br>(kg) |      |    |    |    |
| MTK-04                    | --                | --                   | 3                                           | 800                                                            | (7.8)                  | 6.2                  |      |    |    |    |
| MTK-06                    | 3-M6x1P(PCD ø110) | 3-M6x1P(PCD ø135.89) | 3                                           | 1200                                                           | (11.7)                 | 13                   |      |    |    |    |
| MTK-04T                   | --                | --                   | 3                                           | 800                                                            | (7.8)                  | 6                    |      |    |    |    |
| MTK-06T                   | --                | --                   | 3                                           | 1200                                                           | (11.7)                 | 12.6                 |      |    |    |    |



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

單位/UNIT:mm



# RT ROTARY AIR CHUCK FIXTURES (INTERMITTENT OPERATION)

## 迴轉氣壓夾盤 間歇性運轉

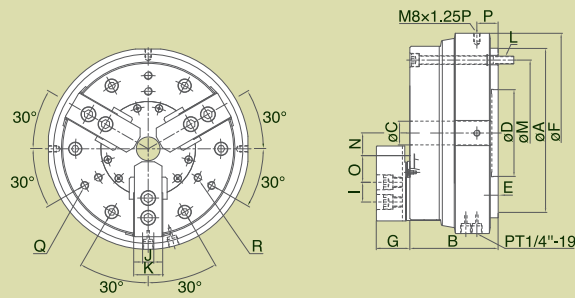
- 輕切削加工適用  
迴轉式氣壓夾盤適用於分度盤，具可隨分度盤主軸旋轉功能，動力夾持加工物作角度分割或旋轉切削。
- 1.提供NC分度盤間歇性迴轉的配套使用，轉速需在限制範圍內。
  - 2.氣缸防銹處理：在潮溼及工作環境較差的情況，氣缸內部經防銹處理，不會生銹或卡死。
  - 3.前置式氣缸：氣缸與夾盤直結設計，確保夾持的穩定性，更方便於組裝及操作。



Suitable for light cutting  
It's Ideal for dividing or cutting work pieces by mounting the chuck on indexing table or rotary table. The distinctive feature is that chuck rotates with the spindle of indexing table or rotary table.

- 1.The chuck is designed for intermittently rotate in limited rotary speed with rotary table.
- 2.Rustproof treated cylinder:  
The cylinder won't get rusty and seized even in wet or high moisture working environment.
- 3.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.

### 尺寸圖 » Dimensions



### 規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B   | C  | D   | E | F   | G    | H  | I  | J  | K  |
|---------------------------|-----|-----|----|-----|---|-----|------|----|----|----|----|
| RT-05                     | 140 | 85  | 16 | 60  | 6 | 182 | 33.6 | 62 | 14 | 10 | 25 |
| RT-06                     | 170 | 93  | 20 | 80  | 7 | 215 | 40.4 | 73 | 20 | 12 | 31 |
| RT-08                     | 215 | 112 | 30 | 110 | 8 | 255 | 42.4 | 95 | 25 | 14 | 35 |

| 型式/規格<br>MODEL<br>/ SPEC. | L          | M       | N<br>max. | N<br>min. | O<br>max. | O<br>min. | P  | Q                   | R                   | 通孔直徑<br>Thru-Hole<br>(Diameter)<br>(mm) |
|---------------------------|------------|---------|-----------|-----------|-----------|-----------|----|---------------------|---------------------|-----------------------------------------|
| RT-05                     | 6-M8x1.25P | PCDø118 | 26.93     | 24.62     | 20.05     | 6.55      | 26 | --                  | 3-M8x1.25P(PCDø92)  | 16                                      |
| RT-06                     | 6-M8x1.25P | PCDø147 | 36.46     | 33.69     | 21.55     | 15.55     | 26 | --                  | 3-M10x1.5P(PCDø130) | 20                                      |
| RT-08                     | 6-M10x1.5P | PCDø185 | 44.92     | 41.52     | 29.55     | 17.55     | 27 | 3-M10x1.5P(PCDø186) | 3-M10x1.5P(PCDø146) | 30                                      |

| 型式/規格<br>MODEL<br>/ SPEC. | 活塞面積<br>Piston Area<br>( cm <sup>2</sup> ) | 柱塞行程<br>Plunger Stroke<br>( mm ) | 爪行程(直徑)<br>Jaw Stroke<br>( Diameter )<br>( mm ) | 最高轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 最大設定壓力<br>Max. Pressure<br>kgf/cm <sup>2</sup> (MPa) | 氣壓夾持力<br>Gripping Force<br>At Air Pressure 7kgf/cm <sup>2</sup> (0.7MPa)<br>kgf | 夾持範圍<br>Gripping<br>Range |
|---------------------------|--------------------------------------------|----------------------------------|-------------------------------------------------|-------------------------------------------------|------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------|
| RT-05                     | 74                                         | 10                               | 4.6                                             | 51                                              | 7 (0.7)                                              | 1340                                                                            | ø4-ø140                   |
| RT-06                     | 120                                        | 13                               | 5.5                                             | 41                                              | 7 (0.7)                                              | 2330                                                                            | ø25-ø170                  |
| RT-08                     | 190                                        | 16                               | 6.8                                             | 33                                              | 7 (0.7)                                              | 3730                                                                            | ø33-ø215                  |

# RTS, RTS-T ROTARY AIR CHUCK FIXTURE (LOW TORQUE) (BUILT-IN CHECK VALVE) (CONTINUOUS ROTATING)

## 迴轉氣壓夾盤 低扭矩 含止逆閥 可連續運轉

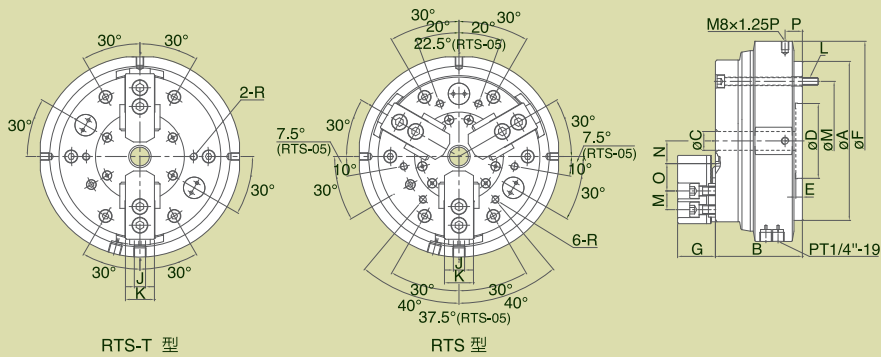
- 1.提高轉速：較高的轉速能夠對應更廣範圍的應用。
- 2.內藏式止逆裝置：內藏式止逆閥設計，夾持狀態下不需持續供氣也能保持夾持力，並且大幅降低工作扭矩減少負載。
- 3.防塵排水專利結構可以防止工作中鐵屑及切屑液進入夾頭內部，維持夾頭正常運作。
- 4.前置式氣缸設計：氣缸與夾盤直結設計，確保夾持的穩定性，更方便於組裝及操作。
- 5.氣缸防銹處理：在潮溼及工作環境較差的情況，氣缸內部經防銹處理，不會生銹或卡死。

新產品  
**NEW**  
專利產品  
Patent Protected



- 1.Higher Rotation Speed: Higher rotation speed to fit with more kind of working.
- 2.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.
- 3.Dustproof and drainage patent structure can prevent the metal chips and coolant get into chuck inside while processing, and maintain.
- 4.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.
- 5.Rustproof treated cylinder: The cylinder won't get rusty and seized even wet or high moisture working environment.

### 尺寸圖 » Dimensions



### 規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B   | C  | D   | E | F   | G    | H   | I  | J  | K  |
|---------------------------|-----|-----|----|-----|---|-----|------|-----|----|----|----|
| RTS-05                    | 140 | 85  | 16 | 60  | 6 | 182 | 33.6 | 62  | 14 | 10 | 25 |
| RTS-06                    | 170 | 93  | 20 | 80  | 7 | 215 | 40.4 | 73  | 20 | 12 | 31 |
| RTS-08                    | 215 | 112 | 30 | 110 | 8 | 255 | 42.4 | 95  | 25 | 14 | 35 |
| RTS-10                    | 255 | 120 | 43 | 140 | 8 | 300 | 46.4 | 110 | 30 | 16 | 40 |
| RTS-05T                   | 140 | 85  | 16 | 60  | 6 | 182 | 33.6 | 62  | 14 | 10 | 25 |
| RTS-06T                   | 170 | 93  | 20 | 80  | 7 | 215 | 40.4 | 73  | 20 | 12 | 31 |

| 型式/規格<br>MODEL<br>/ SPEC. | L          | M       | N<br>max. | N<br>min. | O<br>max. | O<br>min. | P    | R                    | 通孔直徑<br>Thru-Hole<br>(Diameter)<br>(mm) | 活塞面積<br>Piston Area<br>( cm <sup>2</sup> ) |
|---------------------------|------------|---------|-----------|-----------|-----------|-----------|------|----------------------|-----------------------------------------|--------------------------------------------|
| RTS-05                    | 6-M8x1.25P | PCDø118 | 26.93     | 24.62     | 20.05     | 6.55      | 18.5 | 6-M6x1P(PCDø92)      | 16                                      | 74                                         |
| RTS-06                    | 6-M8x1.25P | PCDø147 | 36.46     | 33.69     | 21.55     | 15.55     | 18.5 | 6-M8x1.25P(PCDø120)  | 20                                      | 120                                        |
| RTS-08                    | 6-M10x1.5P | PCDø185 | 44.92     | 41.52     | 29.55     | 17.55     | 19.5 | 6-M10x1.5P(PCDø155)  | 30                                      | 190                                        |
| RTS-10                    | 6-M10x1.5P | PCDø220 | 53.63     | 49.59     | 36.55     | 17.05     | 21.5 | 6-M12x1.75P(PCDø190) | 43                                      | 280                                        |
| RTS-05T                   | 6-M8x1.25P | PCDø118 | 26.93     | 24.62     | 20.05     | 6.55      | 18.5 | 2-M6x1P(PCDø92)      | 16                                      | 74                                         |
| RTS-06T                   | 6-M8x1.25P | PCDø147 | 36.46     | 33.69     | 21.55     | 15.55     | 18.5 | 2-M8x1.25P(PCDø115)  | 20                                      | 120                                        |

| 型式/規格<br>MODEL<br>/ SPEC. | 柱塞行程<br>Plunger Stroke<br>( mm ) | 爪行程(直徑)<br>Jaw Stroke<br>( Diameter )<br>( mm ) | 最高轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 壓力範圍<br>Pressure<br>Setting Range<br>kgf/cm <sup>2</sup> (MPa) | 氣壓夾持力<br>Gripping Force<br>At Air Pressure 7kgf/cm <sup>2</sup> (0.7MPa)<br>kgf | 夾持範圍<br>Gripping<br>Range | 淨重<br>Weight<br>( kg ) |
|---------------------------|----------------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------|------------------------|
| RTS-05                    | 10                               | 4.6                                             | 450                                             | 2-7 (0.2-0.7)                                                  | 1340 (13.1)                                                                     | ø4-ø136                   | 10                     |
| RTS-06                    | 13                               | 5.5                                             | 350                                             | 2-7 (0.2-0.7)                                                  | 2330 (22.8)                                                                     | ø25-ø166                  | 16.8                   |
| RTS-08                    | 16                               | 6.8                                             | 300                                             | 2-7 (0.2-0.7)                                                  | 3730 (36.5)                                                                     | ø33-ø215                  | 30.6                   |
| RTS-10                    | 19                               | 8.0                                             | 250                                             | 2-7 (0.2-0.7)                                                  | 5480 (53.7)                                                                     | ø43-ø255                  | 45.1                   |
| RTS-05T                   | 10                               | 4.6                                             | 450                                             | 2-7 (0.2-0.7)                                                  | 1340 (13.1)                                                                     | ø4-ø136                   | 9.7                    |
| RTS-06T                   | 13                               | 5.5                                             | 350                                             | 2-7 (0.2-0.7)                                                  | 2330 (22.8)                                                                     | ø25-ø166                  | 16.3                   |

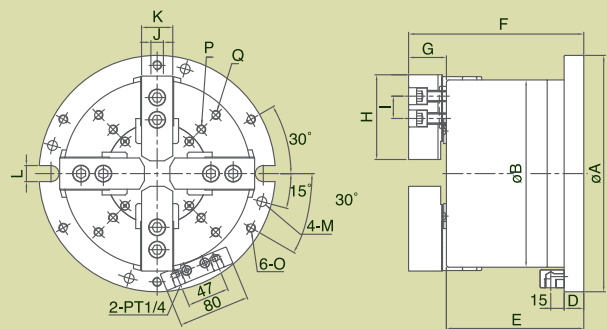
# MA2 ACTUATING AXES SELF-CENTERING SOLID AIR CHUCK FIXTURES

## 兩軸自動求心氣壓夾盤

兩軸自動求心氣壓夾盤專供中心機及各式工作台面的加工而設計，在X,Y兩軸間同時夾持任何異形工件具快速自定工件中心之功能。具3大特色：

- 1.氣缸防銹處理：在潮溼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。
- 2.防塵裝置：在工作台上的鉋銑工作、切屑及冷卻液不易進入夾盤內部，確保夾盤的使用壽命及精度。
- 3.多邊夾持、自定中心：有別於虎鉗的單一軸向夾持，兩軸自動求心氣壓夾盤分別在X,Y兩軸向分割成兩組夾持動作，且同時自定工件中心，能快速準確的固定工件，在任一軸向銑削均能達到穩固的效果。

### 尺寸圖 » Dimensions



2 actuating axes self-centering solid air chuck fixtures is great for machining center. Two pairs of jaws clamp one after another to assure a workpiece to be locked completely.

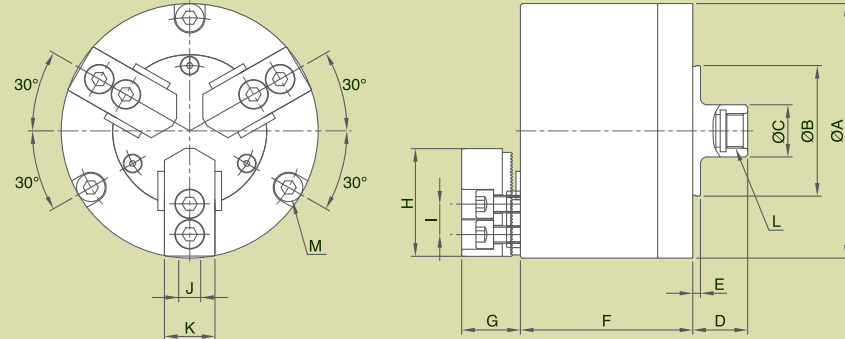
- 1.Rust-proof for Pneumatic Cylinder:  
Inside wall of cylinder being rustproof treated; cylinder can work under wet or high moisture circumstances without rusty or seized trouble.
- 2.Dusts-proof and Waterproof:  
Dust-proof and Waterproof structure prevents work-chips and coolant water from entering into inside of chuck cylinder to maintain its accuracy and lead to longer service life.
- 3.4-jaw Clamping and Self-centering:  
4-jaw clamping are steadier for machining. Two pairs of jaws are moved independently to assure complete lock and self-centering.

# MR3-JAW AIR CHUCKS

## 三爪氣壓夾頭

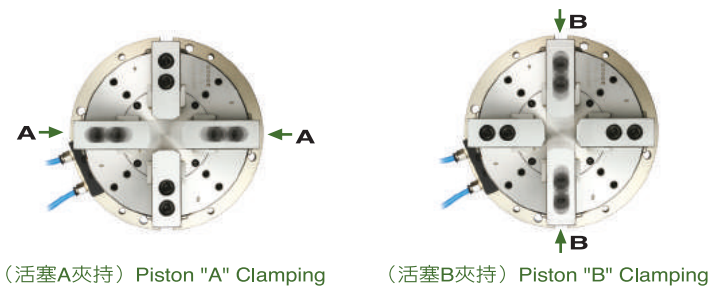


### 尺寸圖 » Dimensions



### 應用實例 » Operation Example

快速、準確、自動化  
Speed, Accurate, Automatic  
兩段分割夾持，自定中心  
4-jaws clamping and self-center



(活塞A夾持) Piston "A" Clamping (活塞B夾持) Piston "B" Clamping  
單位/UNIT:mm

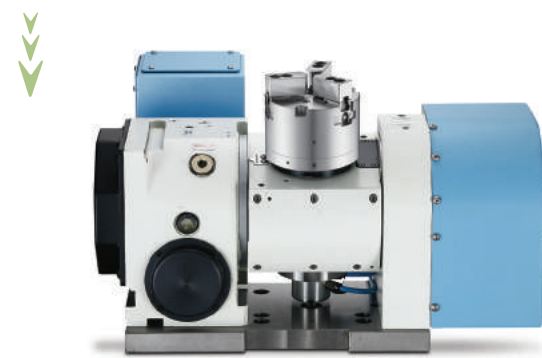
### 規格表 » Specifications

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B   | D  | E   | F   | G  | H   | I  | J  | K  | L  | M            |
|---------------------------|-----|-----|----|-----|-----|----|-----|----|----|----|----|--------------|
| MA-06                     | 224 | 175 | 20 | 130 | 170 | 40 | 73  | 20 | 12 | 31 | 18 | ø11(PCDø202) |
| MA-08                     | 265 | 210 | 22 | 154 | 196 | 42 | 95  | 25 | 14 | 35 | 18 | ø11(PCDø243) |
| MA-10                     | 315 | 250 | 25 | 176 | 222 | 46 | 110 | 30 | 16 | 40 | 18 | ø13(PCDø285) |

| 型式/規格<br>MODEL<br>/ SPEC. | O                   | P                    | Q                    | A 活塞面積<br>推力側<br>Push Side | Piston Area (cm²)<br>拉力側<br>Pull Side |
|---------------------------|---------------------|----------------------|----------------------|----------------------------|---------------------------------------|
| MA-06                     | M10x1.5P(PCD ø202)  | 4-M8x1.25P(PCD ø124) | 4-M8x1.25P(PCD ø156) | 127                        | 108                                   |
| MA-08                     | M10x1.5P(PCD ø243)  | 4-M10x1.5P(PCD ø140) | 4-M10x1.5P(PCD ø186) | 184                        | 157                                   |
| MA-10                     | M12x1.75P(PCD ø285) | 4-M10x1.5P(PCD ø176) | 4-M10x1.5P(PCD ø224) | 270                        | 239                                   |

| 型式/規格<br>MODEL<br>/ SPEC. | B 活塞面積<br>推力側<br>Push Side | Piston Area (cm²)<br>拉力側<br>Pull Side | 柱塞行程<br>Plunger<br>Stroke<br>(mm) | 爪行程 (直徑)<br>Jaw Stroke<br>(Diameter)<br>(mm) | 空壓夾持力<br>Gripping Force At Air Pressure<br>7kgf/cm² (0.7MPa)<br>(kN) | 淨重<br>Weight<br>( kg ) | 夾持範圍<br>Gripping<br>Range |
|---------------------------|----------------------------|---------------------------------------|-----------------------------------|----------------------------------------------|----------------------------------------------------------------------|------------------------|---------------------------|
| MA-06                     | 122                        | 117                                   | 12                                | 5.5                                          | 4500 (44)                                                            | 24.8                   | ø25~ø175                  |
| MA-08                     | 176                        | 169                                   | 16                                | 7.4                                          | 6400 (63)                                                            | 41.3                   | ø30~ø210                  |
| MA-10                     | 254                        | 241                                   | 19                                | 8.8                                          | 9500 (93)                                                            | 65.6                   | ø35~ø250                  |

### 分度盤使用範例 » Operation Example for rotary table



### CNC車床使用範例 » Operation Example for CNC Lathe



### 規格表 » Specifications

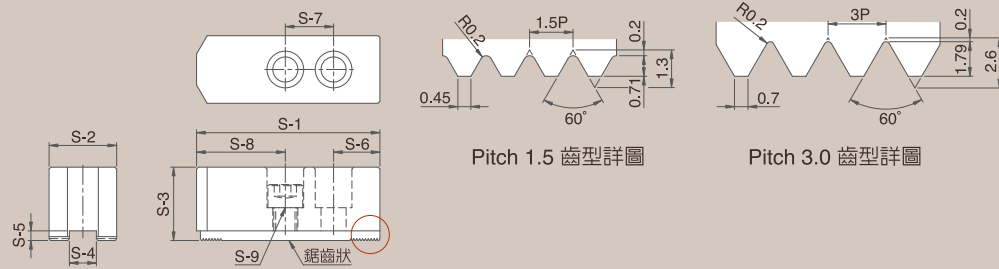
| 型式/規格<br>MODEL<br>/ SPEC. | A   | B  | C  | D  | E   | F    | G    | H    | I  | J  | L          | K  | M                   |
|---------------------------|-----|----|----|----|-----|------|------|------|----|----|------------|----|---------------------|
| MR-04                     | 117 | 60 | 24 | 25 | 3.5 | 84.5 | 26.7 | 49.5 | 14 | 10 | 5/8"-32UNF | 23 | 3-M8x1.25P(PCDø104) |

| 型式/規格<br>MODEL<br>/ SPEC. | 活塞面積<br>Piston Area<br>(cm²) | 柱塞行程<br>Plunger Stroke<br>(mm) | 爪行程直徑<br>Jaw Stroke<br>(Diameter)<br>mm | 空壓夾持力<br>At Air Pressure<br>kgf | Gripping Force<br>At Air Pressure 7 kgf/cm²(0.7MPa)<br>(kN) | 最高迴轉速<br>Max.Speed<br>r.p.m (min⁻¹) | 夾持範圍<br>Gripping<br>Range |
|---------------------------|------------------------------|--------------------------------|-----------------------------------------|---------------------------------|-------------------------------------------------------------|-------------------------------------|---------------------------|
| MR-04                     | 57                           | 9                              | 3.8                                     | 1100                            | (10.8)                                                      | 3800                                | ø10~ø117                  |

# SJ SOFT JAWS (SJ-SERIES) FOR HYDRAULIC CHUCKS

## 油壓生爪

### 尺寸圖 » Dimensions



### 規格表 » Specifications

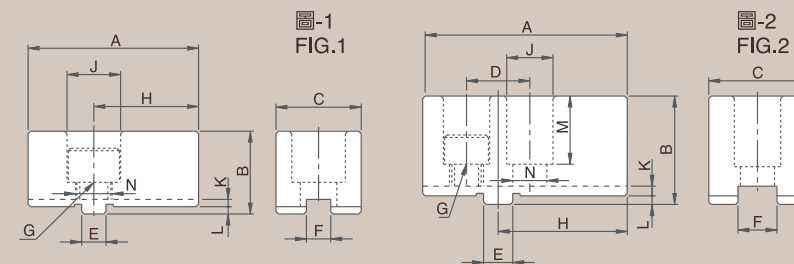
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | S-1  | S-2 | S-3 | S-4      | S-5  | S-6 | S-7 | S-8  | S-9             | 鋸齒狀節距<br>Serration Pitch | 淨重<br>Weight (kg) |
|---------------------------|------|-----|-----|----------|------|-----|-----|------|-----------------|--------------------------|-------------------|
| SJ-04                     | 49.5 | 23  | 23  | 10       | 4.5  | 10  | 14  | 25.5 | M8x1.25P        | 1.5 x 60°                | 0.42              |
| SJ-05                     | 62   | 25  | 30  | 10       | 4.5  | 10  | 14  | 38   | M8x1.25P        | 1.5 x 60°                | 0.85              |
| SJ-06                     | 73   | 31  | 36  | 12       | 5    | 15  | 20  | 38   | M10x1.5P        | 1.5 x 60°                | 1.5               |
| SJ-08                     | 95   | 35  | 38  | 14       | 5    | 24  | 25  | 46   | M12x1.75P       | 1.5 x 60°                | 2.4               |
| SJ-10                     | 110  | 40  | 42  | 16       | 5    | 30  | 30  | 50   | M12x1.75P       | 1.5 x 60°                | 3.6               |
| SJ-12                     | 129  | 50  | 50  | 21(18)   | 6    | 39  | 30  | 60   | M16x2P (M14x2P) | 1.5 x 60°                | 6.1               |
| SJ-15                     | 165  | 62  | 62  | 22(25.5) | 8(5) | 37  | 43  | 85   | M20x2.5P        | 1.5 x 60°                | 12.5              |
| SJ-18                     | 165  | 62  | 62  | 22(25.5) | 8(5) | 37  | 43  | 85   | M20x2.5P        | 1.5 x 60°                | 12.5              |
| SJ-21                     | 180  | 65  | 70  | 25       | 9    | 40  | 60  | 80   | M20x2.5P        | 3.0 x 60°                | 16.2              |
| SJ-24                     | 180  | 65  | 70  | 25       | 9    | 40  | 60  | 80   | M20x2.5P        | 3.0 x 60°                | 16.2              |
| SJ-32                     | 180  | 65  | 70  | 25       | 9    | 40  | 60  | 80   | M20x2.5P        | 3.0 x 60°                | 16.2              |
| SJ-40                     | 180  | 65  | 70  | 25       | 9    | 40  | 60  | 80   | M20x2.5P        | 3.0 x 60°                | 16.2              |

# S SOFT JAWS FOR PULL BACK POWER CHUCKS

## 後拉式夾頭專用生爪

### 尺寸圖 » Dimensions



### 規格表 » Specifications

單位/UNIT:mm

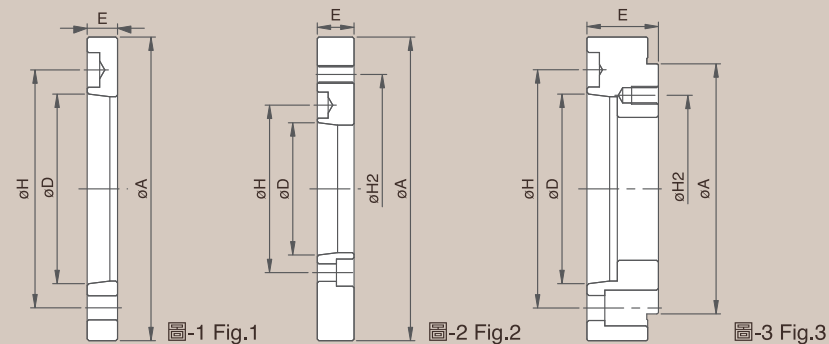
| 型式/規格<br>MODEL<br>/ SPEC. | A   | B    | C  | D  | E  | F  | G         | H  | J  | K   | L   | M  | N    | 參考圖<br>Reference Drawing |
|---------------------------|-----|------|----|----|----|----|-----------|----|----|-----|-----|----|------|--------------------------|
| S-06                      | 70  | 34   | 35 | -- | 10 | 10 | M14x2P    | 43 | 23 | 3.0 | 3.0 | 21 | 15.5 | 圖-1 fig.1                |
| 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-2 fig.2                |
| S-12                      | 120 | 54.5 | 60 | 36 | 17 | 20 | M16x2P    | 78 | 26 | 3.5 | 3.5 | 36 | 17.5 | 圖-2 fig.2                |

## MOUNTING PLATES

## 連結盤

- 各種鼻端規格，干島連結盤均能選配使用。
- " Chadox " mounting plates are available to any kinds of spindle noses.

### 尺寸圖 » Dimensions



### 規格表 » Specifications

單位/UNIT:mm

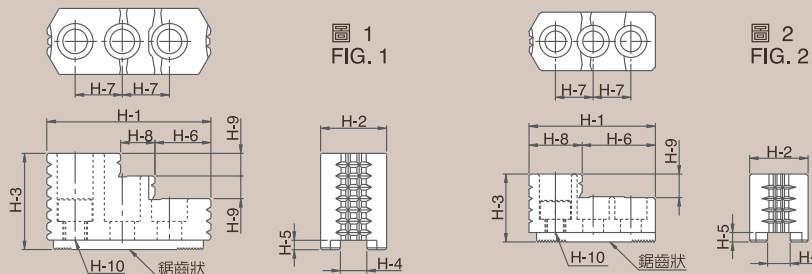
| 型式/規格<br>MODEL<br>/ SPEC. | 鼻端番號<br>Nose of Spindle<br>D | A   | H     | H2 | E  | 參考圖<br>Reference Drawing |
|---------------------------|------------------------------|-----|-------|----|----|--------------------------|
| T005A <sub>2</sub> 4      | A <sub>2</sub> 4             | 110 | 82.6  | -- | 20 | 圖-1 fig.1                |
| T006A <sub>2</sub> 5      | A <sub>2</sub> 5             | 140 | 104.8 | -- | 15 | 圖-1 fig.1                |
| T008A <sub>2</sub> 6      | A <sub>2</sub> 6             | 170 | 133.4 | -- | 17 | 圖-1 fig.1                |
| T010A <sub>2</sub> 8      | A <sub>2</sub> 8             | 220 | 171.4 | -- | 18 | 圖-1 fig.1                |
| T012A <sub>2</sub> 8      | A <sub>2</sub> 8             | 220 | 171.4 | -- | 18 | 圖-1 fig.1                |
| T015A <sub>2</sub> 11     | A <sub>2</sub> 11            | 300 | 235   | -- | 22 | 圖-1 fig.1                |
| T018A <sub>2</sub> 11     | A <sub>2</sub> 11            | 300 | 235   | -- | 22 | 圖-1 fig.1                |
| T021A <sub>2</sub> 15     | A <sub>2</sub> 15            | 380 | 330.2 | -- | 27 | 圖-1 fig.1                |
| T024A <sub>2</sub> 20     | A <sub>2</sub> 20            | 520 | 463.6 | -- | 27 | 圖-1 fig.1                |
| T032A <sub>2</sub> 15     | A <sub>2</sub> 15            | 380 | 330.2 | -- | 27 | 圖-1 fig.1                |
| T040A <sub>2</sub> 15     | A <sub>2</sub> 15            | 380 | 330.2 | -- | 27 | 圖-1 fig.1                |

| 型式/規格<br>MODEL<br>/ SPEC. | 鼻端番號<br>Nose of Spindle<br>D | A   | H     | H2    | E  | 參考圖<br>Reference Drawing |
|---------------------------|------------------------------|-----|-------|-------|----|--------------------------|
| T004A <sub>2</sub> 4      | A <sub>2</sub> 4             | 85  | 82.6  | 70.6  | 40 | 圖-3 fig.3                |
| T005A <sub>2</sub> 5      | A <sub>2</sub> 5             | 110 | 104.8 | 82.6  | 45 | 圖-3 fig.3                |
| T006A <sub>2</sub> 4      | A <sub>2</sub> 4             | 140 | 82.6  | 104.8 | 20 | 圖-2 fig.2                |
| T006A <sub>2</sub> 6      | A <sub>2</sub> 6             | 140 | 133.4 | 104.8 | 40 | 圖-3 fig.3                |
| T008A <sub>2</sub> 5      | A <sub>2</sub> 5             | 170 | 104.8 | 133.4 | 23 | 圖-2 fig.2                |
| T008A <sub>2</sub> 8      | A <sub>2</sub> 8             | 170 | 171.4 | 133.4 | 45 | 圖-3 fig.3                |
| T010A <sub>2</sub> 6      | A <sub>2</sub> 6             | 220 | 133.4 | 171.4 | 28 | 圖-2 fig.2                |
| T012A <sub>2</sub> 6      | A <sub>2</sub> 6             | 220 | 133.4 | 171.4 | 28 | 圖-2 fig.2                |
| T012A <sub>2</sub> 11     | A <sub>2</sub> 11            | 220 | 235   | 171.4 | 54 | 圖-3 fig.3                |
| T015A <sub>2</sub> 8      | A <sub>2</sub> 8             | 300 | 171.4 | 235   | 33 | 圖-2 fig.2                |
| T018A <sub>2</sub> 8      | A <sub>2</sub> 8             | 300 | 171.4 | 235   | 33 | 圖-2 fig.2                |
| T021A <sub>2</sub> 8      | A <sub>2</sub> 8             | 380 | 171.4 | 330.2 | 41 | 圖-2 fig.2                |
| T021A <sub>2</sub> 11     | A <sub>2</sub> 11            | 380 | 235   | 330.2 | 41 | 圖-2 fig.2                |
| T024A <sub>2</sub> 11     | A <sub>2</sub> 11            | 520 | 235   | 463.6 | 42 | 圖-2 fig.2                |
| T024A <sub>2</sub> 15     | A <sub>2</sub> 15            | 520 | 330.2 | 463.6 | 42 | 圖-2 fig.2                |
| T032A <sub>2</sub> 11     | A <sub>2</sub> 11            | 380 | 235   | 330.2 | 41 | 圖-2 fig.2                |
| T040A <sub>2</sub> 11     | A <sub>2</sub> 11            | 380 | 235   | 330.2 | 41 | 圖-2 fig.2                |

# HJ HARD JAWS (HJ-SERIES) FOR HYDRAULIC CHUCKS

## 油壓硬爪

### 尺寸圖 » Dimensions



### 規格表 » Specifications

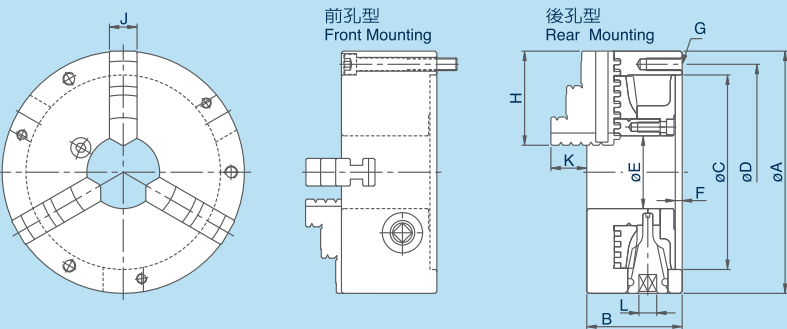
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | H-1   | H-2 | H-3 | H-4      | H-5  | H-6  | H-7 | H-8 | H-9 | H-10           | 鋸齒狀節距<br>Serration Pitch | 淨重<br>Weight (kg) | 參考圖<br>Reference Drawing |
|---------------------------|-------|-----|-----|----------|------|------|-----|-----|-----|----------------|--------------------------|-------------------|--------------------------|
| HJ-04                     | 53    | 23  | 28  | 10       | 4    | 29   | 14  | 24  | 10  | M8x1.25P       | 1.5 x 60°                | 0.4               | 圖-2 Fig.2                |
| HJ-05                     | 53    | 23  | 28  | 10       | 4    | 29   | 14  | 24  | 10  | M8x1.25P       | 1.5 x 60°                | 0.4               | 圖-2 Fig.2                |
| HJ-06                     | 67    | 31  | 36  | 12       | 5    | 39   | 20  | 28  | 12  | M10x1.5P       | 1.5 x 60°                | 0.95              | 圖-2 Fig.2                |
| HJ-08                     | 87    | 35  | 51  | 14       | 5    | 29.5 | 25  | 18  | 12  | M12x1.75P      | 1.5 x 60°                | 1.9               | 圖-1 Fig.1                |
| HJ-10                     | 101   | 40  | 54  | 16       | 5    | 45.5 | 30  | 18  | 13  | M12x1.75P      | 1.5 x 60°                | 2.8               | 圖-1 Fig.1                |
| HJ-12                     | 108   | 50  | 67  | 21(18)   | 4(5) | 49   | 30  | 20  | 16  | M16x2P(M14x2P) | 1.5 x 60°                | 3.5               | 圖-1 Fig.1                |
| HJ-15                     | 143   | 62  | 86  | 22(25.5) | 8(5) | 55   | 43  | 38  | 20  | M20x2.5P       | 1.5 x 60°                | 9.5               | 圖-1 Fig.1                |
| HJ-18                     | 143   | 62  | 86  | 22(25.5) | 8(5) | 55   | 43  | 38  | 20  | M20x2.5P       | 1.5 x 60°                | 9.5               | 圖-1 Fig.1                |
| HJ-21                     | 159.5 | 80  | 90  | 25       | 9    | 97.5 | 50  | 62  | 40  | M20x2.5P       | 3 x 60°                  | 15.3              | 圖-2 Fig.2                |
| HJ-24                     | 159.5 | 80  | 90  | 25       | 9    | 97.5 | 50  | 62  | 40  | M20x2.5P       | 3 x 60°                  | 15.3              | 圖-2 Fig.2                |
| HJ-32                     | 159.5 | 80  | 90  | 25       | 9    | 97.5 | 50  | 62  | 40  | M20x2.5P       | 3 x 60°                  | 15.3              | 圖-2 Fig.2                |
| HJ-40                     | 159.5 | 80  | 90  | 25       | 9    | 97.5 | 50  | 62  | 40  | M20x2.5P       | 3 x 60°                  | 15.3              | 圖-2 Fig.2                |

# SC3-JAW SCROLL CHUCKS

## 普通型三爪夾頭

尺寸圖 » Dimensions



規格表 » Specifications

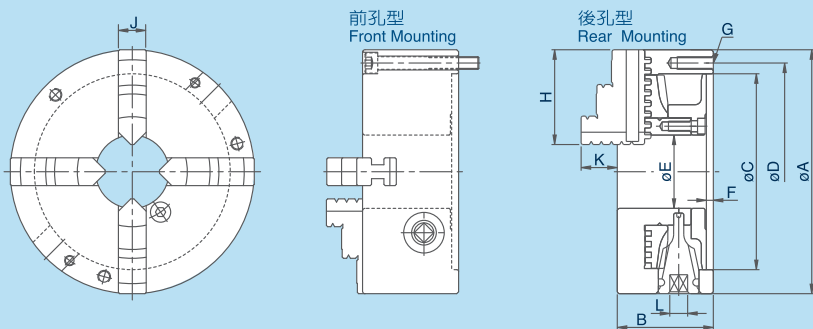
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B   | C   | D   | E   | F   | G           | H   | J  | K    | L  | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>Max. Gripping Diameter<br>外徑把握<br>O.D.Clamping<br>內徑把握<br>I.D.Clamping | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|-----|-----|-----|-----|-----|-------------|-----|----|------|----|--------------------------------------------------|--------------------------------------------------------------------------------|----------------------|
| SC-03                     | 85  | 45  | 60  | 73  | 16  | 3.5 | 3-M6x1P     | 35  | 11 | 15   | 7  | 2500                                             | ø2-ø70                                                                         | 1.5                  |
| SC-04                     | 112 | 58  | 80  | 95  | 24  | 4.5 | 3-M8x1.25P  | 42  | 14 | 17   | 8  | 2500                                             | ø3-ø90                                                                         | 3.3                  |
| SC-05                     | 132 | 60  | 100 | 115 | 32  | 4.5 | 3-M8x1.25P  | 50  | 16 | 20   | 8  | 2500                                             | ø3-ø110                                                                        | 4.6                  |
| SC-06                     | 167 | 66  | 130 | 147 | 45  | 5   | 3-M10x1.5P  | 65  | 19 | 23   | 10 | 2000                                             | ø4-ø160                                                                        | 7.9                  |
| SC-07                     | 193 | 76  | 155 | 172 | 58  | 5   | 3-M10x1.5P  | 75  | 22 | 28   | 11 | 2000                                             | ø4-ø180                                                                        | 12.0                 |
| SC-08                     | 203 | 76  | 160 | 176 | 58  | 5   | 3-M10x1.5P  | 75  | 22 | 28   | 11 | 2000                                             | ø4-ø180                                                                        | 13.3                 |
| SC-09                     | 233 | 84  | 190 | 210 | 70  | 5.5 | 3-M12x1.75P | 85  | 24 | 34.5 | 12 | 2000                                             | ø5-ø220                                                                        | 19.3                 |
| SC-10                     | 273 | 86  | 230 | 250 | 89  | 5.5 | 3-M12x1.75P | 98  | 28 | 39   | 12 | 1800                                             | ø6-ø260                                                                        | 26.2                 |
| SC-12                     | 310 | 96  | 260 | 285 | 105 | 7   | 3-M12x1.75P | 110 | 30 | 45   | 14 | 1800                                             | ø10-ø300                                                                       | 37.6                 |
| SC-14                     | 355 | 112 | 300 | 328 | 127 | 7   | 6-M12x1.75P | 132 | 35 | 50   | 15 | 1500                                             | ø12-ø350                                                                       | 57.2                 |
| SC-16                     | 405 | 122 | 345 | 375 | 160 | 8   | 6-M14x2P    | 146 | 40 | 56   | 15 | 1500                                             | ø14-ø400                                                                       | 80.7                 |

# PS4-JAW SCROLL CHUCKS

## 連動型四爪夾頭

尺寸圖 » Dimensions



規格表 » Specifications

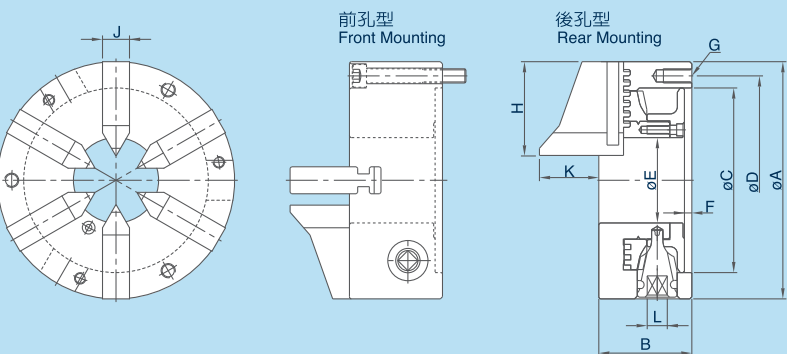
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B   | C   | D   | E   | F   | G           | H   | J  | K    | L  | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>Max. Gripping Diameter<br>外徑把握<br>O.D.Clamping<br>內徑把握<br>I.D.Clamping | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|-----|-----|-----|-----|-----|-------------|-----|----|------|----|--------------------------------------------------|--------------------------------------------------------------------------------|----------------------|
| PS-07                     | 193 | 76  | 155 | 172 | 58  | 5   | 3-M10x1.5P  | 75  | 22 | 28   | 11 | 2000                                             | ø4-ø180                                                                        | 12.1                 |
| PS-09                     | 233 | 84  | 190 | 210 | 70  | 5.5 | 3-M12x1.75P | 85  | 24 | 34.5 | 12 | 2000                                             | ø5-ø220                                                                        | 19.4                 |
| PS-12                     | 310 | 96  | 260 | 285 | 105 | 7   | 3-M12x1.75P | 110 | 30 | 45   | 14 | 1800                                             | ø10-ø300                                                                       | 38.1                 |
| PS-16                     | 405 | 122 | 345 | 375 | 160 | 8   | 6-M14x2P    | 146 | 40 | 56   | 15 | 1500                                             | ø14-ø400                                                                       | 82.4                 |

# AS6-JAW AWL TYPE CHUCKS

## 錐型六爪夾頭

尺寸圖 » Dimensions



規格表 » Specifications

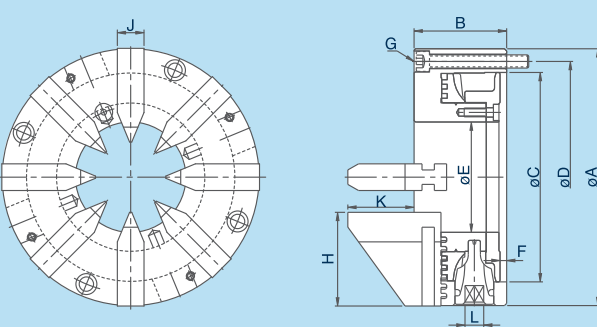
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B  | C   | D   | E  | F   | G          | H  | J  | K  | L  | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>Max. Gripping Diameter<br>外徑把握<br>O.D.Clamping | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|----|-----|-----|----|-----|------------|----|----|----|----|--------------------------------------------------|--------------------------------------------------------|----------------------|
| 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                  |

# AE8-JAW AWL TYPE CHUCKS

## 錐型八爪夾頭

尺寸圖 » Dimensions



規格表 » Specifications

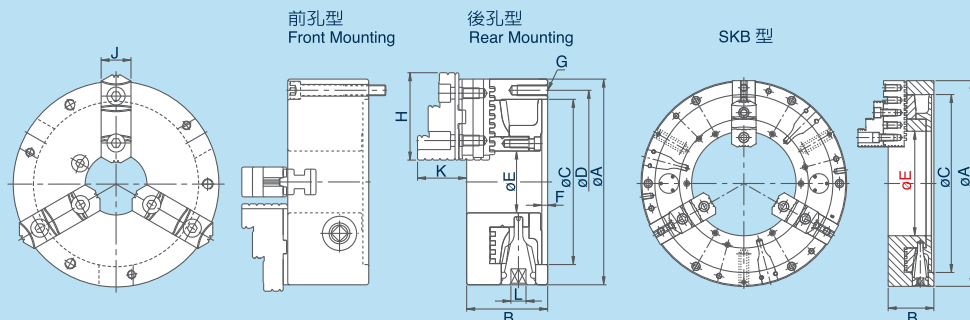
單位/UNIT:mm

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

# SK3-JAW POWERFUL TYPE SCROLL CHUCKS

## 強力型三爪夾頭 SKB:大孔徑 Larger Through Hole

尺寸圖 » Dimensions



規格表 » Specifications

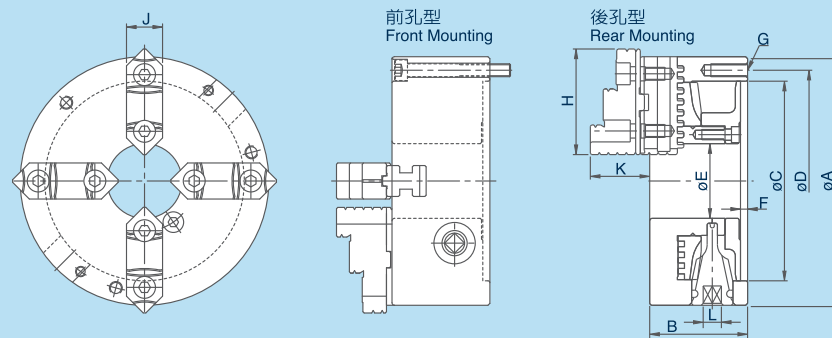
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B   | C   | D   | E   | F   | G           | H   | J  | K    | L  | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>Max. Gripping Diameter<br>外徑把握<br>O.D.Clamping<br>內徑把握<br>I.D.Clamping | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|-----|-----|-----|-----|-----|-------------|-----|----|------|----|--------------------------------------------------|--------------------------------------------------------------------------------|----------------------|
| SK-04                     | 112 | 58  | 80  | 95  | 24  | 4.5 | 3-M8x1.25P  | 47  | 19 | 31.5 | 8  | 2500                                             | ø3-ø100<br>ø35-ø93                                                             | 3.45                 |
| SK-05                     | 132 | 60  | 100 | 115 | 32  | 4.5 | 3-M8x1.25P  | 57  | 24 | 36   | 8  | 2500                                             | ø3-ø123<br>ø43-ø122                                                            | 5.0                  |
| SK-06                     | 167 | 66  | 130 | 147 | 45  | 5   | 3-M10x1.5P  | 68  | 26 | 39   | 10 | 2000                                             | ø8-ø160<br>ø55-ø150                                                            | 8.6                  |
| SK-07                     | 193 | 76  | 155 | 172 | 58  | 5   | 3-M10x1.5P  | 82  | 28 | 43   | 11 | 2000                                             | ø8-ø180<br>ø62-ø170                                                            | 12.8                 |
| SK-08                     | 203 | 76  | 160 | 176 | 58  | 5   | 3-M10x1.5P  | 82  | 28 | 43   | 11 | 2000                                             | ø8-ø180<br>ø62-ø170                                                            | 14.1                 |
| SK-09                     | 233 | 84  | 190 | 210 | 70  | 5.5 | 3-M12x1.75P | 93  | 32 | 50   | 12 | 2000                                             | ø11-ø220<br>ø70-ø210                                                           | 20.4                 |
| SK-10                     | 273 | 86  | 230 | 250 | 89  | 5.5 | 3-M12x1.75P | 102 | 35 | 54.5 | 12 | 1800                                             | ø12-ø260<br>ø80-ø250                                                           | 26.7                 |
| SK-12                     | 310 | 96  | 260 | 285 | 105 | 7   | 3-M12x1.75P | 118 | 40 | 56   | 14 | 1800                                             | ø15-ø300<br>ø90-ø290                                                           | 39.3                 |
| SK-14                     | 355 | 112 | 300 | 328 | 127 | 7   | 6-M12x1.75P | 139 | 45 | 70.5 | 15 | 1500                                             | ø25-ø350<br>ø110-ø320                                                          | 60.7                 |
| SK-16                     | 405 | 122 | 345 | 375 | 160 | 8   | 6-M14x2P    | 150 | 50 | 75   | 15 | 1500                                             | ø30-ø400<br>ø110-ø380                                                          | 82.3                 |
| SK-20                     | 500 | 140 | 420 | 458 | 205 | 5.5 | 6-M16x2P    | 140 | 55 | 84   | 19 | 1000                                             | ø25-ø480<br>ø125-ø460                                                          | 145.5                |
| SK-25                     | 630 | 140 | 545 | 586 | 275 | 6.5 | 6-M16x2P    | 140 | 70 | 92   | 19 | 850                                              | ø80-ø630<br>ø198-ø601                                                          | 221.3                |
| SKB-25                    | 630 | 140 | 545 | 586 | 320 | 6.5 | 6-M16x2P    | 140 | 70 | 92   | 19 | 850                                              | ø160-ø630<br>ø274-ø646                                                         | 208.5                |

# PSK4-JAW POWERFUL TYPE SCROLL CHUCKS

## 強力連動型四爪 夾頭 PSKB:大孔徑 Larger Through Hole

尺寸圖 » Dimensions



規格表 » Specifications

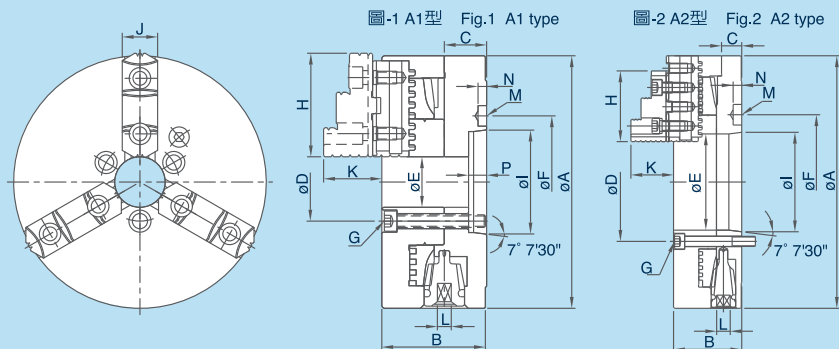
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B   | C   | D   | E   | F   | G           | H   | J  | K  | L  | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>Max. Gripping Diameter<br>外徑把握<br>O.D.Clamping<br>內徑把握<br>I.D.Clamping | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|-----|-----|-----|-----|-----|-------------|-----|----|----|----|--------------------------------------------------|--------------------------------------------------------------------------------|----------------------|
| PSK-07                    | 193 | 76  | 155 | 172 | 58  | 5   | 3-M10x1.5P  | 82  | 28 | 43 | 11 | 2000                                             | ø8-ø180<br>ø62-ø170                                                            | 12.7                 |
| PSK-09                    | 233 | 84  | 190 | 210 | 70  | 5.5 | 3-M12x1.75P | 93  | 32 | 50 | 12 | 2000                                             | ø11-ø220<br>ø70-ø210                                                           | 20.8                 |
| PSK-12                    | 310 | 96  | 260 | 285 | 105 | 7   | 3-M12x1.75P | 118 | 40 | 56 | 14 | 1800                                             | ø15-ø300<br>ø90-ø290                                                           | 43                   |
| PSK-16                    | 405 | 122 | 345 | 375 | 160 | 8   | 6-M14x2P    | 150 | 50 | 75 | 15 | 1500                                             | ø30-ø400<br>ø110-ø380                                                          | 86.7                 |
| PSK-20                    | 500 | 140 | 420 | 458 | 205 | 5.5 | 6-M16x2P    | 140 | 55 | 84 | 19 | 1000                                             | ø25-ø480<br>ø125-ø460                                                          | 149                  |
| PSKB-25                   | 630 | 140 | 545 | 586 | 320 | 6.5 | 6-M16x2P    | 140 | 70 | 92 | 19 | 850                                              | ø160-ø630<br>ø274-ø646                                                         | 215                  |

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

## 直裝型三爪夾頭

尺寸圖 » Dimensions



規格表 » Specifications

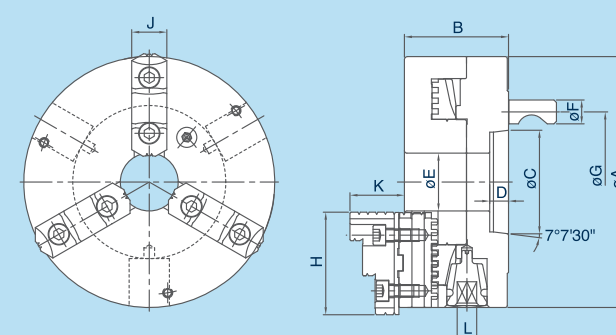
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B    | C    | D    | E     | F      | G           | H   | I       | J  | K  | L  | P     | M     | N    | 參考圖<br>Reference<br>Drawing | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>Max. Gripping Diameter<br>外徑把握<br>O.D.Clamping<br>內徑把握<br>I.D.Clamping | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|------|------|------|-------|--------|-------------|-----|---------|----|----|----|-------|-------|------|-----------------------------|--------------------------------------------------|--------------------------------------------------------------------------------|----------------------|
| A15-08"                   | 200 | 83   | 33.5 | 61.9 | 40    | ø104.8 | 3-M10x1.5P  | 82  | 82.563  | 28 | 43 | 11 | 14.29 | ø16.3 | 6.8  | 圖-1 fig.1                   | 2000                                             | ø8-ø180<br>ø62-ø170                                                            | 17.4                 |
| A16-08"                   | 200 | 83   | 33.5 | 82.6 | 56    | ø133.4 | 3-M12x1.75P | 82  | 106.375 | 28 | 43 | 11 | 15.88 | ø19.3 | 6.8  | 圖-1 fig.1                   | 2000                                             | ø8-ø180<br>ø62-ø170                                                            | 18                   |
| A16-10"                   | 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  | 圖-1 fig.1                   | 1800                                             | ø11-ø240<br>ø70-ø230                                                           | 30.6                 |
| A211-20"                  | 500 | 135  | 40   | 235  | 190.5 | ø235   | 6-M20x2.5P  | 140 | 196.869 | 55 | 84 | 19 | --    | ø29.4 | 10.7 | 圖-2 fig.2                   | 1000                                             | ø25-ø480<br>ø125-ø460                                                          | 161.5                |

# D13-JAW D1 TYPE CHUCKS

## 直裝型三爪夾頭

尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

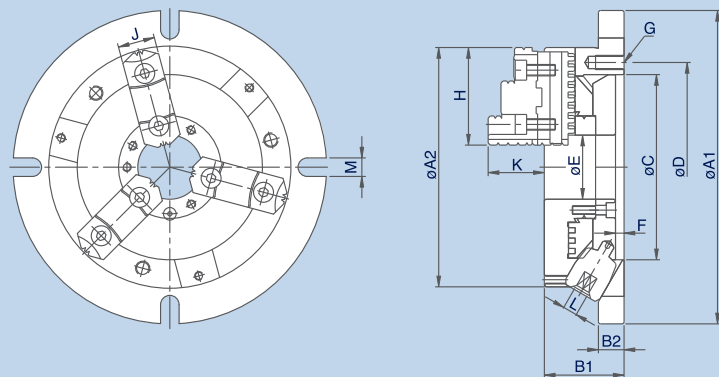
| 型式/規格<br>MODEL<br>/ SPEC. | A   | B   | C       | D  | E     | F    | G     | H   | J  | K  | L  | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>Max. Gripping Diameter<br>外徑把握<br>O.D.Clamping<br>內徑把握<br>I.D.Clamping | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|-----|---------|----|-------|------|-------|-----|----|----|----|--------------------------------------------------|--------------------------------------------------------------------------------|----------------------|
| D15-08"                   | 200 | 83  | 82.563  | 15 | 46    | 19   | 104.8 | 82  | 28 | 43 | 11 | 2000                                             | ø8-ø180<br>ø62-ø170                                                            | 17.8                 |
| D16-08"                   | 200 | 83  | 106.375 | 16 | 58    | 22.2 | 133.4 | 82  | 28 | 43 | 11 | 2000                                             | ø8-ø180<br>ø62-ø170                                                            | 17.3                 |
| D16-10"                   | 255 | 94  | 106.375 | 16 | 76    | 22.2 | 133.4 | 93  | 32 | 50 | 12 | 1800                                             | ø11-ø240<br>ø70-ø230                                                           | 31.3                 |
| D18-10"                   | 255 | 94  | 139.719 | 18 | 76    | 25.4 | 171.4 | 93  | 32 | 50 | 12 | 1800                                             | ø11-ø240<br>ø70-ø230                                                           | 30.9                 |
| D18-12"                   | 310 | 105 | 139.719 | 18 | 103   | 25.4 | 171.4 | 118 | 40 | 56 | 14 | 1800                                             | ø15-ø300<br>ø90-ø290                                                           | 51.1                 |
| D111-20"                  | 500 | 135 | 196.869 | -- | 190.5 | 30.2 | 235   | 140 | 55 | 84 | 19 | 1000                                             | ø25-ø480<br>ø125-ø460                                                          | 165.5                |

## 強力超薄型夾盤

- 1.把手和盤面成30°角，旋轉操作更便利。
- 2.薄型設計，可增加機械加工之容許長度。
- 3.外徑成凸緣設計，裝卸容易。
- 4.強力型設計可共用生爪。



尺寸圖 » Dimensions



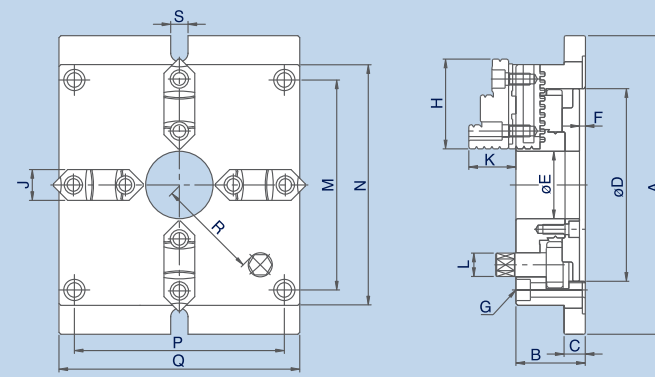
- 1.The handle with an angle of 30 degrees is much convenient for operations.
- 2.The "super thin thickness" design of chucks increase the "allowable distance" of machining operations.
- 3.Chuck flange makes loading and unloading operations simpler and more convenient.
- 4.Hard jaws and Soft jaws can be used alternatively.

## 方型超薄夾盤

- 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。



尺寸圖 » Dimensions



- 1.MC chucks are precisely ground, the tolerances of W,X,Y,Z among chucks are within 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 within 0.02mm.
- 4.Parallel gripping accuracy with hard jaws can be controlled within 0.05mm after aligning sides of chucks.

規格表 » Specifications

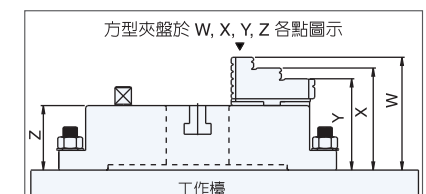
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A1  | A2  | B1  | B2 | C   | D   |
|---------------------------|-----|-----|-----|----|-----|-----|
| NBK-06                    | 220 | 170 | 58  | 18 | 130 | 147 |
| NBK-08                    | 270 | 210 | 65  | 20 | 155 | 172 |
| NBK-10                    | 315 | 255 | 73  | 20 | 190 | 210 |
| NBK-12                    | 370 | 305 | 80  | 22 | 250 | 285 |
| NBK-16                    | 470 | 405 | 105 | 24 | 345 | 375 |
| NBK-20                    | 570 | 500 | 121 | 29 | 420 | 458 |

| 型式/規格<br>MODEL<br>/ SPEC. | E   | F | G           | H   | J  | K  |
|---------------------------|-----|---|-------------|-----|----|----|
| NBK-06                    | 45  | 6 | 3-M10x1.5P  | 68  | 26 | 40 |
| NBK-08                    | 60  | 6 | 3-M10x1.5P  | 82  | 28 | 43 |
| NBK-10                    | 80  | 6 | 3-M12x1.75P | 93  | 32 | 52 |
| NBK-12                    | 105 | 5 | 3-M12x1.75P | 118 | 40 | 59 |
| NBK-16                    | 160 | 7 | 6-M14x2P    | 150 | 50 | 75 |
| NBK-20                    | 220 | 7 | 6-M16x2P    | 140 | 55 | 84 |

| 型式/規格<br>MODEL<br>/ SPEC. | L  | M  | 把握範圍<br>Max.Gripping Diameter |                              | 淨重<br>Weight<br>(kg) |
|---------------------------|----|----|-------------------------------|------------------------------|----------------------|
|                           |    |    | 外徑把握<br>O.D.Clamping<br>(mm)  | 內徑把握<br>I.D.Clamping<br>(mm) |                      |
| NBK-06                    | 10 | 13 | ø8~ø160                       | ø48~ø150                     | 10.6                 |
| NBK-08                    | 11 | 13 | ø11~ø200                      | ø62~ø190                     | 18.1                 |
| NBK-10                    | 12 | 16 | ø12~ø250                      | ø72~ø240                     | 27.9                 |
| NBK-12                    | 14 | 18 | ø15~ø300                      | ø86~ø290                     | 42.9                 |
| NBK-16                    | 15 | 18 | ø60~ø410                      | ø145~ø388                    | --                   |
| NBK-20                    | 19 | 18 | ø86~ø500                      | ø245~ø488                    | 150                  |

使用範例 » Operation Example



單位/UNIT:mm

規格表 » Specifications

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B  | C  | D   | E   | F   | G           | H   | J  | K  | L  | M   |
|---------------------------|-----|----|----|-----|-----|-----|-------------|-----|----|----|----|-----|
| MC-06                     | 215 | 57 | 18 | 130 | 40  | 5.5 | 4-M10x1.5P  | 68  | 26 | 39 | 14 | 144 |
| MC-08                     | 250 | 65 | 20 | 160 | 55  | 6   | 4-M12x1.75P | 82  | 28 | 43 | 17 | 174 |
| MC-10                     | 310 | 72 | 22 | 200 | 70  | 6   | 4-M14x2P    | 93  | 32 | 50 | 21 | 218 |
| MC-12                     | 380 | 85 | 25 | 260 | 100 | 7   | 4-M16x2P    | 118 | 40 | 56 | 23 | 274 |

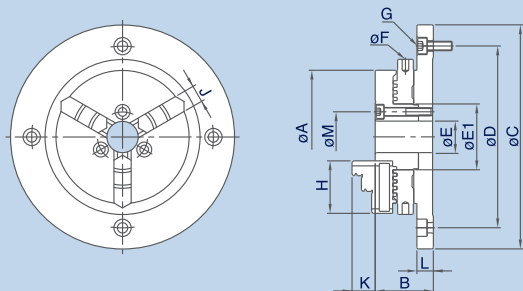
| 型式/規格<br>MODEL<br>/ SPEC. | N   | P   | Q   | R   | S  | 把握範圍<br>Max.Gripping Diameter |                              | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|-----|-----|-----|----|-------------------------------|------------------------------|----------------------|
|         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

# SE SUPER THIN CHUCKS

## 超薄型夾盤 SE-ST: 不銹鋼 Stainless Steel

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

### 尺寸圖 » Dimensions



- By the compactness comes from " Light, Thin, Short, Small " designing concept; the chucks are most fitting to hold work pieces for measuring.
- Just rotate the chuck knob directly for gripping and loosening, A handle is not necessary to be used.
- Chuck body is made of very durable steel.
- Jaws can be reversibly used; gripping of various sizes becomes much convenient.
- 2" chucks can even grip up to the smallest size of 0.8mm.

### 規格表 » Specifications

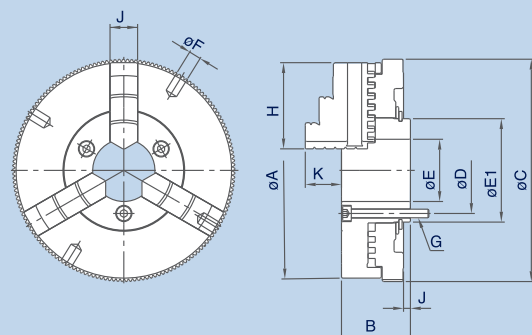
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B  | C   | D   | E  | E1 | F | G          | H  | J  | K  | L    | M  | 把握範圍<br>Max.Gripping Diameter |                              | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|----|-----|-----|----|----|---|------------|----|----|----|------|----|-------------------------------|------------------------------|----------------------|
|                           |     |    |     |     |    |    |   |            |    |    |    |      |    | 外徑把握<br>O.D.Clamping<br>(mm)  | 內徑把握<br>I.D.Clamping<br>(mm) |                      |
| SE-02                     | 63  | 28 | 118 | 100 | 16 | -- | 4 | 4-M5x0.8P  | 27 | 8  | 13 | 8    | 26 | ø0.8~ø63                      | ø23~ø58                      | 1.2                  |
| SE-03                     | 85  | 37 | 143 | 116 | 20 | -- | 4 | 4-M6x1P    | 35 | 11 | 15 | 10.5 | 32 | ø1~ø81                        | ø31~ø70                      | 2.9                  |
| SE-04                     | 110 | 39 | 168 | 140 | 26 | -- | 5 | 4-M6x1P    | 42 | 14 | 19 | 10   | 40 | ø1~ø100                       | ø36~ø90                      | 4.3                  |
| SE-05                     | 130 | 45 | 202 | 168 | 32 | -- | 6 | 4-M8x1.25P | 50 | 16 | 21 | 11.5 | 49 | ø1.5~ø116                     | ø43~ø106                     | 6.2                  |
| SE-06                     | 160 | 52 | 248 | 208 | 50 | -- | 8 | 4-M10x1.5P | 65 | 19 | 26 | 15   | 70 | ø1.5~ø160                     | ø52~ø148                     | 11.1                 |
| SE-04ST                   | 110 | 39 | 168 | 140 | 26 | 51 | 5 | 4-M6x1P    | 42 | 14 | 19 | 10   | 40 | ø1~ø100                       | ø36~ø90                      | 4.3                  |

# SZ SUPER THIN CHUCKS

## 超薄型夾盤

### 尺寸圖 » Dimensions



### 規格表 » Specifications

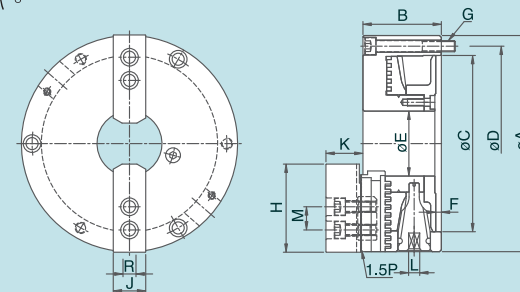
| 型式/規格<br>MODEL<br>/ SPEC. | A   | B  | C   | D  | E  | E1 | F   | G         | H  | J   | 把握範圍<br>Max.Gripping Diameter |                              | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|----|-----|----|----|----|-----|-----------|----|-----|-------------------------------|------------------------------|----------------------|
|                           |     |    |     |    |    |    |     |           |    |     | 外徑把握<br>O.D.Clamping<br>(mm)  | 內徑把握<br>I.D.Clamping<br>(mm) |                      |
| SZ-02                     | 63  | 25 | 76  | 26 | 16 | 33 | 4.2 | 3-M4x0.7P | 27 | 2.4 | ø0.8~ø63                      | ø15~ø58                      |                      |
| SZ-03                     | 85  | 34 | 90  | 30 | 20 | 38 | 4.2 | 3-M4x0.7P | 35 | 4   | ø1~ø78.5                      | ø24~ø72.5                    |                      |
| SZ-04                     | 110 | 37 | 120 | 42 | 32 | 50 | 5.2 | 3-M4x0.7P | 42 | 4   | ø1~ø105                       | ø27~ø97                      |                      |
| SZ-05                     | 125 | 40 | 135 | 50 | 36 | 60 | 6.2 | 3-M5x0.8P | 50 | 4   | ø3~ø120                       | ø33~ø110                     |                      |
| SZ-06                     | 160 | 46 | 170 | 56 | 42 | 70 | 8.2 | 3-M6x1P   | 65 | 4   | ø3~ø152                       | ø42~ø146                     |                      |

# TNT 2-JAW STEEL BODY CHUCKS

## 齒式二爪鋼殼夾頭

- 可替代修整油壓生爪成型盤。
- 爪仔可前後任意調整，加大夾持工件範圍。
- 生爪及硬爪與CNC車床油壓爪共用。
- 鋼殼結構於高速迴轉時安全性高，耐磨性強，使用壽命長。
- 轉動板手扭力較小操作順暢。
- 兩爪夾頭僅提供強力生爪。

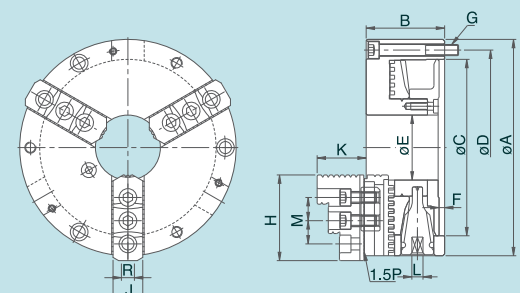
### 尺寸圖 » Dimensions



# NT 3-JAW STEEL BODY CHUCKS

## 齒式三爪鋼殼夾頭

### 尺寸圖 » Dimensions



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

### 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.



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  
Soft jaws are interchangeable with those of power chucks.



選配附件  
Optional accessory: Mounting plate.

### 規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B  | C   | D   | E  | F   | G           | H  | J  | K  | L  | M  | R  | 最高轉速<br>Max.<br>Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>Max.Gripping Diameter |                              | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|----|-----|-----|----|-----|-------------|----|----|----|----|----|----|-----------------------------------------------------|-------------------------------|------------------------------|----------------------|
|                           |     |    |     |     |    |     |             |    |    |    |    |    |    |                                                     | 外徑把握<br>O.D.Clamping<br>(mm)  | 內徑把握<br>I.D.Clamping<br>(mm) |                      |
| TNT-07                    | 193 | 78 | 155 | 172 | 58 | 5   | 3-M10x1.5P  | 73 | 31 | 38 | 11 | 20 | 12 | 3200                                                | ø8~ø235                       | ø66~ø235                     | 14.4                 |
| TNT-09                    | 233 | 85 | 190 | 210 | 70 | 5.5 | 3-M12x1.75P | 95 | 35 | 40 | 12 | 25 | 14 | 2800                                                | ø11~ø280                      | ø85~ø280                     | 22.3                 |

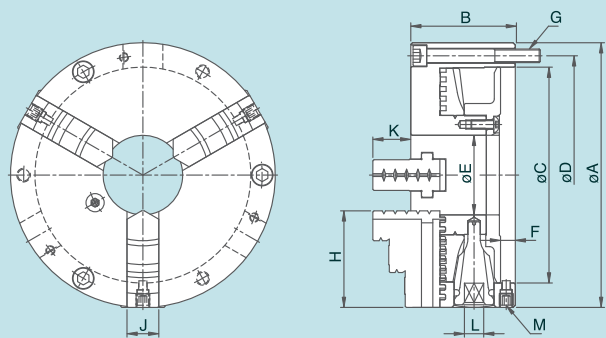
### 規格表 » Specifications

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B   | C   | D   | E   | F   | G           | H     | J  | K  | L  | M  | R  | 最高轉速<br>Max.<br>Speed<br>r.p.m.(min <sup>-1</sup> ) | 外徑把握<br>O.D.Clamping<br>(mm) | 內徑把握<br>I.D.Clamping<br>(mm) | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|-----|-----|-----|-----|-----|-------------|-------|----|----|----|----|----|-----------------------------------------------------|------------------------------|------------------------------|----------------------|
| NT-07                     | 193 | 78  | 155 | 172 | 58  | 5   | 3-M10x1.5P  | 78    | 28 | 46 | 11 | 20 | 12 | 3200                                                | ø8~ø235                      | ø66~ø235                     | 13.1                 |
| NT-09                     | 233 | 85  | 190 | 210 | 70  | 5.5 | 3-M12x1.75P | 92    | 32 | 52 | 12 | 25 | 14 | 2800                                                | ø11~ø280                     | ø85~ø280                     | 21.2                 |
| NT-10                     | 275 | 91  | 230 | 250 | 89  | 5.5 | 3-M12x1.75P | 101.5 | 37 | 56 | 12 | 30 | 16 | 2400                                                | ø12~ø330                     | ø92~ø330                     | 30.5                 |
| NT-12                     | 310 | 104 | 260 | 285 | 105 | 7   | 3-M12x1.75P | 116   | 47 | 67 | 14 | 30 | 21 | 2100                                                | ø15~ø370                     | ø104~ø370                    | 46.1                 |

# CT3-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS

## 可調式普通型三爪鋼殼夾頭

尺寸圖 » Dimensions



規格表 » Specifications

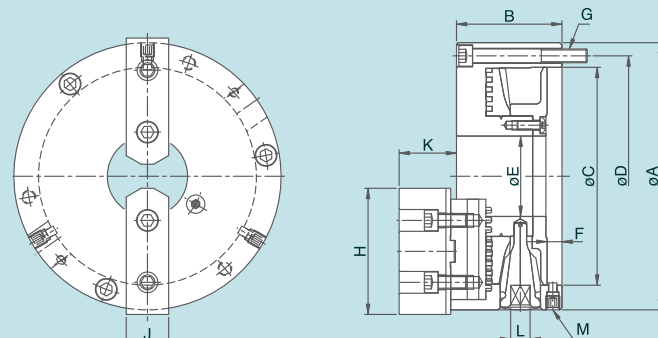
單位/UNIT:mm

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

# TKT2-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS

## 可調式強力型二爪鋼殼夾頭

尺寸圖 » Dimensions



兩爪夾頭僅提供強力生爪。  
2-jaw Steel Body only provide the powerful type soft jaws.

規格表 » Specifications

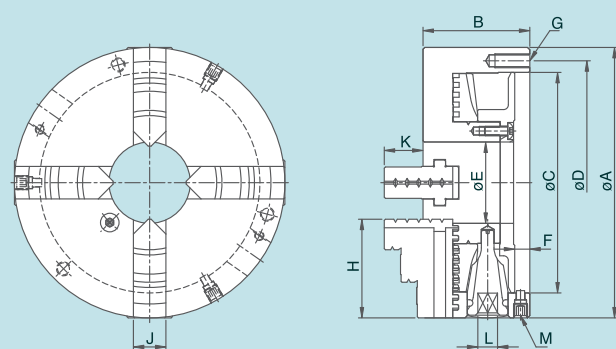
單位/UNIT:mm

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

# FCT4-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS

## 可調式普通型四爪鋼殼夾頭

尺寸圖 » Dimensions



規格表 » Specifications

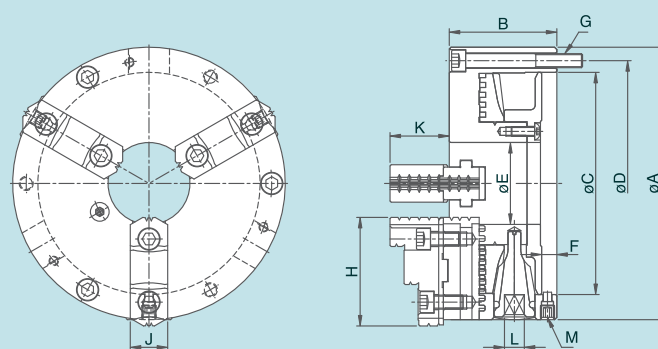
單位/UNIT:mm

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

# KT3-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS

## 可調式強力型三爪鋼殼夾頭

尺寸圖 » Dimensions



規格表 » Specifications

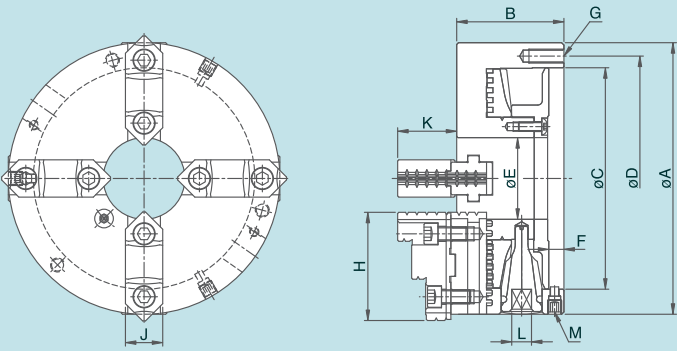
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B    | C   | D   | E   | F    | G           | H   | J  | K  | L  | M           | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>外徑把握<br>O.D.Clamping | Max. Gripping Diameter<br>內徑把握<br>I.D.Clamping | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|------|-----|-----|-----|------|-------------|-----|----|----|----|-------------|--------------------------------------------------|------------------------------|------------------------------------------------|----------------------|
| KT-06                     | 167 | 75.5 | 130 | 147 | 45  | 12   | 3-M10x1.5P  | 68  | 26 | 39 | 10 | 3-M12x1.75P | 4000                                             | ø8~ø160                      | ø55~ø150                                       | 9.7                  |
| KT-07                     | 193 | 85   | 155 | 172 | 58  | 12   | 3-M10x1.5P  | 82  | 28 | 43 | 11 | 3-M12x1.75P | 3500                                             | ø8~ø180                      | ø62~ø170                                       | 13.6                 |
| KT-09                     | 233 | 92   | 190 | 210 | 70  | 12.5 | 3-M12x1.75P | 93  | 32 | 51 | 12 | 3-M12x1.75P | 2900                                             | ø11~ø220                     | ø70~ø210                                       | 21.5                 |
| KT-10                     | 275 | 98   | 230 | 250 | 89  | 12.5 | 3-M12x1.75P | 102 | 35 | 54 | 12 | 3-M12x1.75P | 2500                                             | ø12~ø260                     | ø80~ø250                                       | 30.4                 |
| KT-12                     | 310 | 111  | 260 | 285 | 105 | 14   | 3-M12x1.75P | 118 | 40 | 58 | 14 | 3-M12x1.75P | 2200                                             | ø15~ø300                     | ø90~ø290                                       | 45.4                 |

# FKT 4-JAW POWERFUL TYPE ADJUSTMENT STEEL BODY CHUCKS

## 可調式強力型四爪鋼殼夾頭

尺寸圖 » Dimensions



規格表 » Specifications

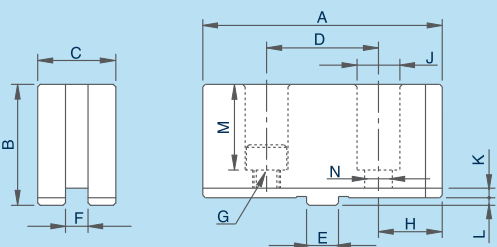
單位/UNIT:mm

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

# SO POWER SOFT JAWS

## 強力生爪

尺寸圖 » Dimensions



規格表 » Specifications

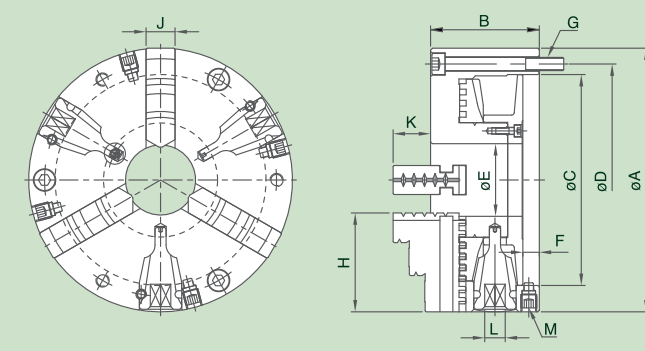
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B  | C  | D    | E     | F    | G         | H     | J  | K   | L   | M  | N  | 淨重<br>Weight<br>(kg) |
|---------------------------|-----|----|----|------|-------|------|-----------|-------|----|-----|-----|----|----|----------------------|
| SO04Jaw                   | 52  | 30 | 19 | 24   | 9.53  | 7.94 | M6x1P     | 14    | 11 | 3   | 2.5 | 21 | 7  | 0.45                 |
| SO05Jaw                   | 62  | 35 | 24 | 32   | 12.68 | 7.94 | M8x1.25P  | 15    | 14 | 3.5 | 3   | 24 | 9  | 0.9                  |
| SO06Jaw                   | 73  | 37 | 26 | 38.1 | 12.68 | 7.94 | M8x1.25P  | 17.45 | 14 | 3.5 | 3   | 25 | 9  | 1.3                  |
| SO07Jaw                   | 95  | 48 | 31 | 44.4 | 12.68 | 7.94 | M10x1.5P  | 25.3  | 17 | 3.8 | 3   | 34 | 11 | 2.6                  |
| SO09Jaw                   | 110 | 48 | 37 | 54   | 19.03 | 12.7 | M12x1.75P | 28    | 19 | 4.2 | 3   | 34 | 13 | 3.6                  |
| SO12Jaw                   | 125 | 54 | 42 | 63.5 | 19.03 | 12.7 | M12x1.75P | 30.75 | 19 | 4.2 | 3   | 38 | 13 | 5.5                  |
| SO16Jaw                   | 160 | 70 | 50 | 76.2 | 19.03 | 12.7 | M16x2P    | 41.9  | 25 | 5.5 | 6   | 48 | 17 | 10.4                 |
| SO20Jaw                   | 160 | 80 | 55 | 76.2 | 19.03 | 12.7 | M20x2.5P  | 41.9  | 32 | 5.5 | 6   | 58 | 21 | --                   |
| SO25Jaw                   | 160 | 80 | 75 | 76.2 | 19.03 | 12.7 | M20x2.5P  | 41.9  | 32 | 5.5 | 6   | 58 | 21 | --                   |

# 歐規 DIN6350 3DACT 3-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS

## 可調式普通型三爪鋼殼夾頭

尺寸圖 » Dimensions



規格表 » Specifications

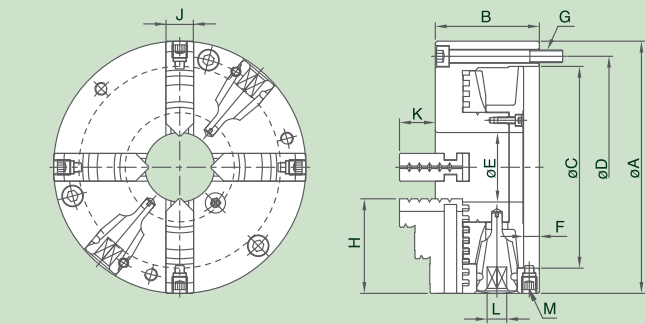
單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B    | C   | D   | E   | F    | G           | H   | J  | K    | M           | L  | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>外徑把握<br>O.D.Clamping | Max. Gripping Diameter<br>內徑把握<br>I.D.Clamping |
|---------------------------|-----|------|-----|-----|-----|------|-------------|-----|----|------|-------------|----|--------------------------------------------------|------------------------------|------------------------------------------------|
| 3DACT-04                  | 100 | 60   | 70  | 83  | 20  | 10   | 3-M8x1.25P  | 42  | 14 | 17   | 4-M8x1.25P  | 8  | 5200                                             | ø3-ø95                       | ø30-ø83                                        |
| 3DACT-05                  | 125 | 65   | 95  | 108 | 32  | 10.5 | 3-M8x1.25P  | 50  | 16 | 20   | 4-M10x1.5P  | 8  | 4800                                             | ø3-ø122                      | ø35-ø111                                       |
| 3DACT-06                  | 160 | 72.5 | 125 | 140 | 42  | 12   | 3-M10x1.5P  | 65  | 19 | 23   | 4-M12x1.75P | 10 | 4200                                             | ø4-ø160                      | ø46-ø155                                       |
| 3DACT-08                  | 200 | 82.5 | 160 | 176 | 55  | 12   | 3-M10x1.5P  | 75  | 22 | 28   | 4-M12x1.75P | 11 | 3500                                             | ø4-ø197                      | ø51-ø184                                       |
| 3DACT-10                  | 250 | 91   | 200 | 224 | 76  | 13   | 3-M12x1.75P | 98  | 28 | 38.5 | 4-M12x1.75P | 12 | 2600                                             | ø6-ø267                      | ø70-ø252                                       |
| 3DACT-12                  | 315 | 103  | 260 | 286 | 103 | 14   | 3-M16x2P    | 110 | 30 | 44.5 | 4-M12x1.75P | 14 | 2200                                             | ø10-ø325                     | ø81-ø308                                       |
| 3DACT-15                  | 400 | 122  | 330 | 362 | 136 | 15   | 3-M16x2P    | 146 | 40 | 56   | 4-M12x1.75P | 17 | 1600                                             | ø14-ø428                     | ø106-ø410                                      |

# 歐規 DIN6350 4DACT 4-JAW ADJUSTMENT STEEL BODY SCROLL CHUCKS

## 可調式普通型四爪鋼殼夾頭

尺寸圖 » Dimensions



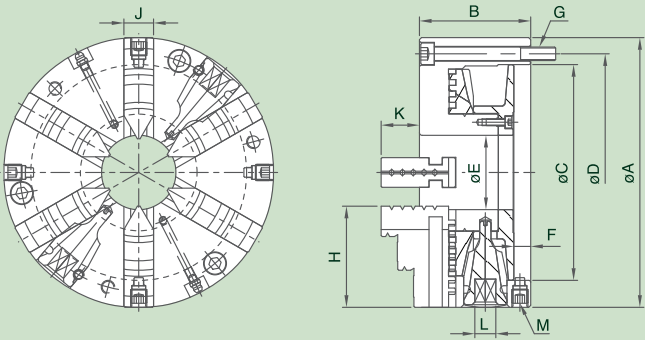
規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B    | C   | D   | E   | F  | G           | H   | J  | K    | M           | L  | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>外徑把握<br>O.D.Clamping | Max. Gripping Diameter<br>內徑把握<br>I.D.Clamping |
|---------------------------|-----|------|-----|-----|-----|----|-------------|-----|----|------|-------------|----|--------------------------------------------------|------------------------------|------------------------------------------------|
| 4DACT-08                  | 200 | 82.5 | 160 | 176 | 55  | 12 | 3-M10x1.5P  | 75  | 22 | 28   | 4-M12x1.75P | 11 | 3500                                             | ø4-ø197                      | ø51-ø184                                       |
| 4DACT-10                  | 250 | 91   | 200 | 224 | 76  | 13 | 3-M12x1.75P | 98  | 28 | 38.5 | 4-M12x1.75P | 12 | 2600                                             | ø6-ø265                      | ø70-ø250                                       |
| 4DACT-12                  | 315 | 103  | 260 | 286 | 103 | 14 | 3-M16x2P    | 110 | 30 | 44.5 | 4-M12x1.75P | 14 | 2200                                             | ø10-ø325                     | ø81-ø308                                       |
| 4DACT-15                  | 400 | 122  | 330 | 362 | 136 | 15 | 3-M16x2P    | 146 | 40 | 56   | 4-M12x1.75P | 17 | 1600                                             | ø14-ø408                     | ø106-ø389                                      |

可調式普通型六爪鋼殼夾頭

尺寸圖 » Dimensions



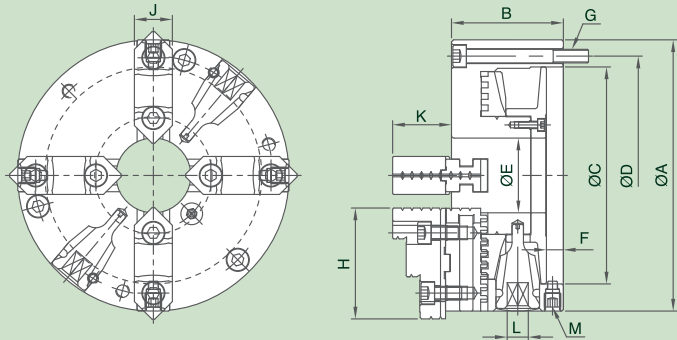
規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B    | C   | D   | E   | G           | F  | H   | J  | K    | L  | M           | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>外徑把握<br>O.D.Clamping | Max. Gripping Diameter<br>內徑把握<br>I.D.Clamping |
|---------------------------|-----|------|-----|-----|-----|-------------|----|-----|----|------|----|-------------|--------------------------------------------------|------------------------------|------------------------------------------------|
| 6DAKT-08                  | 200 | 82.5 | 160 | 176 | 55  | 3-M10×1.5P  | 12 | 75  | 22 | 28   | 11 | 4-M12×1.75P | 2900                                             | ø4-ø183                      | ø51-ø170                                       |
| 6DAKT-10                  | 250 | 91   | 200 | 224 | 76  | 3-M12×1.75P | 13 | 98  | 28 | 38.5 | 12 | 4-M12×1.75P | 2200                                             | ø6-ø249                      | ø70-ø233                                       |
| 6DAKT-12                  | 315 | 103  | 260 | 286 | 103 | 3-M16×2P    | 14 | 110 | 30 | 44.5 | 14 | 4-M12×1.75P | 1800                                             | ø10-ø305                     | ø81-ø288                                       |
| 6DAKT-15                  | 400 | 122  | 330 | 362 | 136 | 3-M16×2P    | 15 | 146 | 40 | 56   | 17 | 4-M12×1.75P | 1300                                             | ø14-ø406                     | ø105-ø387                                      |

可調式強力型四爪鋼殼夾頭

尺寸圖 » Dimensions



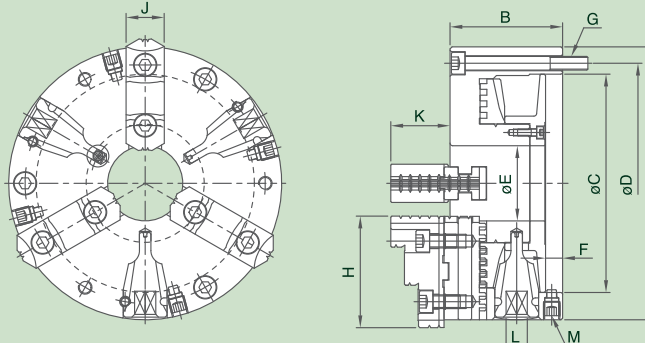
規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B    | C   | D   | E   | G           | F  | H     | J  | K    | L  | M           | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>外徑把握<br>O.D.Clamping | Max. Gripping Diameter<br>內徑把握<br>I.D.Clamping |
|---------------------------|-----|------|-----|-----|-----|-------------|----|-------|----|------|----|-------------|--------------------------------------------------|------------------------------|------------------------------------------------|
| 4DAKT-08                  | 200 | 82.5 | 160 | 176 | 55  | 3-M10×1.5P  | 12 | 82    | 28 | 43   | 11 | 4-M12×1.75P | 3500                                             | ø8-ø205                      | ø59-ø190                                       |
| 4DAKT-10                  | 250 | 91   | 200 | 224 | 76  | 3-M12×1.75P | 13 | 102   | 35 | 54.5 | 12 | 4-M12×1.75P | 2600                                             | ø12-ø265                     | ø78-ø249                                       |
| 4DAKT-12                  | 315 | 103  | 260 | 286 | 103 | 3-M16×2P    | 14 | 117.5 | 40 | 56.5 | 14 | 4-M12×1.75P | 2200                                             | ø15-ø323                     | ø86-ø296                                       |
| 4DAKT-15                  | 400 | 122  | 330 | 362 | 136 | 3-M16×2P    | 15 | 150   | 50 | 74.5 | 17 | 4-M12×1.75P | 1600                                             | ø30-ø419                     | ø124-ø396                                      |

可調式強力型三爪鋼殼夾頭

尺寸圖 » Dimensions



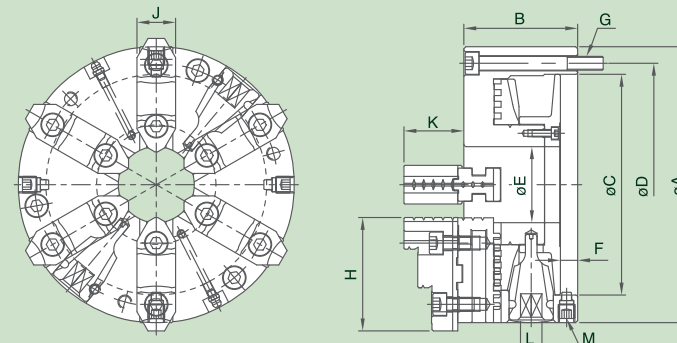
規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B    | C   | D   | E   | G           | F    | H     | J  | K    | L  | M           | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>外徑把握<br>O.D.Clamping | Max. Gripping Diameter<br>內徑把握<br>I.D.Clamping |
|---------------------------|-----|------|-----|-----|-----|-------------|------|-------|----|------|----|-------------|--------------------------------------------------|------------------------------|------------------------------------------------|
| 3DAKT-05                  | 125 | 65   | 95  | 108 | 32  | 3-M8×1.25P  | 10.5 | 57    | 24 | 36   | 8  | 4-M10×1.5P  | 4800                                             | ø3-ø121                      | ø44-ø120                                       |
| 3DAKT-06                  | 160 | 72.5 | 125 | 140 | 42  | 3-M10×1.5P  | 12   | 68    | 26 | 38.5 | 10 | 4-M12×1.75P | 4200                                             | ø8-ø169                      | ø50-ø158                                       |
| 3DAKT-08                  | 200 | 82.5 | 160 | 176 | 55  | 3-M10×1.5P  | 12   | 82    | 28 | 43   | 11 | 4-M12×1.75P | 3500                                             | ø8-ø206                      | ø58-ø191                                       |
| 3DAKT-10                  | 250 | 91   | 200 | 224 | 76  | 3-M12×1.75P | 13   | 102   | 35 | 54.5 | 12 | 4-M12×1.75P | 2600                                             | ø12-ø266                     | ø77-ø250                                       |
| 3DAKT-12                  | 315 | 103  | 260 | 286 | 103 | 3-M16×2P    | 14   | 117.5 | 40 | 56.5 | 14 | 4-M12×1.75P | 2200                                             | ø15-ø340                     | ø85-ø313                                       |
| 3DAKT-15                  | 400 | 122  | 330 | 362 | 136 | 3-M16×2P    | 15   | 150   | 50 | 74.5 | 17 | 4-M12×1.75P | 1600                                             | ø30-ø440                     | ø123-ø416                                      |

可調式強力型六爪鋼殼夾頭

尺寸圖 » Dimensions



規格表 » Specifications

單位/UNIT:mm

| 型式/規格<br>MODEL<br>/ SPEC. | A   | B    | C   | D   | E   | G           | F  | H     | J  | K    | L  | M           | 最高迴轉速<br>Max.Speed<br>r.p.m.(min <sup>-1</sup> ) | 把握範圍<br>外徑把握<br>O.D.Clamping | Max. Gripping Diameter<br>內徑把握<br>I.D.Clamping |
|---------------------------|-----|------|-----|-----|-----|-------------|----|-------|----|------|----|-------------|--------------------------------------------------|------------------------------|------------------------------------------------|
| 6DAKT-08                  | 200 | 82.5 | 160 | 176 | 55  | 3-M10×1.5P  | 12 | 82    | 28 | 43   | 11 | 4-M12×1.75P | 2900                                             | ø17-ø193                     | ø67-ø178                                       |
| 6DAKT-10                  | 250 | 91   | 200 | 224 | 76  | 3-M12×1.75P | 13 | 102   | 35 | 54.5 | 12 | 4-M12×1.75P | 2200                                             | ø19-ø248                     | ø84-ø232                                       |
| 6DAKT-12                  | 315 | 103  | 260 | 286 | 103 | 3-M16×2P    | 14 | 117.5 | 40 | 56.5 | 14 | 4-M12×1.75P | 1800                                             | ø23-ø323                     | ø93-ø296                                       |
| 6DAKT-15                  | 400 | 122  | 330 | 362 | 136 | 3-M16×2P    | 15 | 150   | 50 | 74.5 | 17 | 4-M12×1.75P | 1300                                             | ø30-ø419                     | ø124-ø396                                      |

手動夾頭精度檢查標準  
THE INSTALLATION AND CLAMPING PRECISION STANDARD



| 尺寸<br>SIZE<br>型式<br>MODEL | 本體偏擺<br>Radical & Axial Runout |   | 板手孔位<br>Pinion Arrow Position                               | 校正圓棒偏擺<br>Gripped Test-Bar Runout |              |              |      |              |      |
|---------------------------|--------------------------------|---|-------------------------------------------------------------|-----------------------------------|--------------|--------------|------|--------------|------|
|                           | a                              | b |                                                             | l                                 | c            | d            | e    | f            | g    |
| 3"                        | 0.02                           |   | 標準孔<br>Master Pinion<br><br>任意孔<br>Other Than Master Pinion | 38                                | 0.03<br>0.05 | 0.05<br>0.05 | 0.02 | 0.05<br>0.05 | 0.02 |
| 4"                        | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 5"                        | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 6"                        | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 7"                        | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 8"                        | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 9"                        | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 10"                       | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 12"                       | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 14"                       | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 16"                       | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 20"                       | 0.02                           |   |                                                             |                                   |              |              |      |              |      |
| 25"                       | 0.02                           |   |                                                             |                                   |              |              |      |              |      |

| 尺寸<br>SIZE  | 型式<br>MODEL | 校正圓棒 (mm)<br>Dia. of Test Bar |     |     | 校正圓環 Test Ring(mm) |               |              |
|-------------|-------------|-------------------------------|-----|-----|--------------------|---------------|--------------|
|             |             |                               |     |     | 內徑 Inner Dia.      | 外徑 Outer Dia. | 厚度 Thickness |
| 3"          |             | 8                             | 10  | --  | 30                 | 60            | 20           |
| 4"          |             | 10                            | 20  | --  | 55                 | 90            | 20           |
| 5"          |             | 10                            | 20  | 30  | 60                 | 100           | 20           |
| 6"          |             | 20                            | 30  | 40  | 75                 | 125           | 30           |
| 7"          |             | 20                            | 30  | 40  | 85                 | 150           | 30           |
| 8"          |             | 20                            | 30  | 40  | 85                 | 150           | 30           |
| 9"          |             | 30                            | 40  | 50  | 110                | 175           | 30           |
| 10"         |             | 30                            | 40  | 50  | 135                | 215           | 30           |
| 12"         |             | 40                            | 50  | 70  | 150                | 235           | 40           |
| 14"         |             | 40                            | 50  | 70  | 170                | 270           | 40           |
| 16"         |             | 70                            | 95  | 120 | 180                | 310           | 40           |
| 20"         |             | 100                           | 140 | 180 | 275                | 365           | 40           |
| 25SK        |             | 130                           | 190 | 240 | 380                | 420           | 40           |
| 25SKB(PSKB) |             | 190                           | 240 | 290 |                    |               |              |

