



動力夾頭  
空油壓迴轉缸  
自動化夾持系列

**POWER CHUCKS    ROTARY CYLINDERS    CLAMPING SERIES**



# AEROVIEW OF AUTOGRIP COMPANY

## 佳賀精機股份有限公司 AUTOGRIP MACHINERY COMPANY

佳賀精機 1989 年成立於台灣，以 AUTOGRIP 品牌行銷全球，專注於動力夾頭、空油壓迴轉缸與自動化夾持系列產品的研發與製造，為工件夾持提供最適化的解決方案與服務。

### 廠區位置 LOCATION OF AUTOGRIP

佳賀精機公司總廠座落於台灣彰化埔心，佔地 4000 坪，配備先進的生產設備，定位為研發中心，專門進行少量多樣的客製化零件製造以及新產品開發。我們秉持世界級標準，致力於滿足客戶需求，確保高水平的客戶滿意度。

二廠則位於雲林科技工業區，為自動化標準品的專業生產線，主要生產 6 吋、8 吋及 10 吋的中空動力夾頭及迴轉油壓缸，專注於大批量生產，旨在滿足市場對快速出貨的需求。

### 經營理念 AUTOGRIP'S BUSINESS PHILOSOPHY

秉持誠信與專業精神，致力於提供最專業的產品與服務。

AUTOGRIP machinery was established in 1989 in Taiwan. Our product lines focus on the power chucks, rotary cylinders and automatic clamping series.

We provide the optimized solutions and services for our customers worldwide.

AUTOGRIP Machinery's main factory is located in Puxin, Changhua, Taiwan, covering an area of 13,223 square meters. It is equipped with advanced production equipment and serves as the company's R&D center, focusing on the production of small-volume, customized parts and new product development. We adhere to world-class standards to meet customer needs and ensure high customer satisfaction.

The second factory, located in Yunlin Technology Industrial Park, is an automated production line specializing in standard products. It mainly produces 6", 8", and 10" hollow power chucks and rotary hydraulic cylinders. With a focus on mass production, it meets the market demand for quick delivery.

Committed to integrity and professionalism, we strive to provide the most professional products and services.

# AUTOGRIP®



佳賀精機彰化總廠

## 我們來自台灣 WE ARE FROM TAIWAN

佳賀精機所有的產品都是在 - 台灣所設計與製造，所以您可以發現我們的產品有很強的台灣精神 - 堅實耐用，擁有高剛性與高精度的高品質。我們的產品在業界擁有好口碑，佳賀致力於提供最適化的工件夾持解決方案與服務。

All the products of AUTOGRIP are designed and made in our hometown-Taiwan. You can find that our products have a strong Taiwan spirit- solid and durable, with high rigidity and high precision.

Our company has a good reputation in the industry. AUTOGRIP is devoted to providing the optimized solutions and service for the workpiece clamping needs.



佳賀精機雲林廠



## 佳賀機械性能測試實驗室 AUTOGRIP MECHANICAL TESTING LAB.



佳賀機械性能測試實驗室不斷開發可靠的測試設備與技術，為產品品質提供最嚴格的控管。新產品上市前，需經過一連串嚴格的測試，證明產品性能及精度符合設計規範。產品於製造過程中也需接受檢驗，確保產品的優良品質與一致性，替客戶的權益把關，提供客戶最安心的產品使用經驗。



AUTOGRIP mechanical testing lab. continues to develop reliable test equipments and technique for controlling the product quality. Before the new product is launched to the market, the products will go through a series of tests to ensure that the performance and accuracy meet the design specifications. Products in the manufacturing process are also tested regularly to ensure the products are of good quality and consistent.

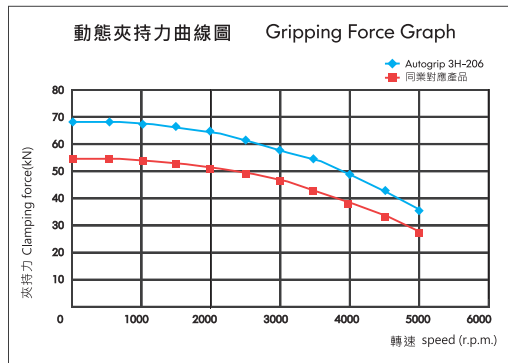
The Lab controls the quality for the customers and provides customers with the most satisfied experience when using the products.





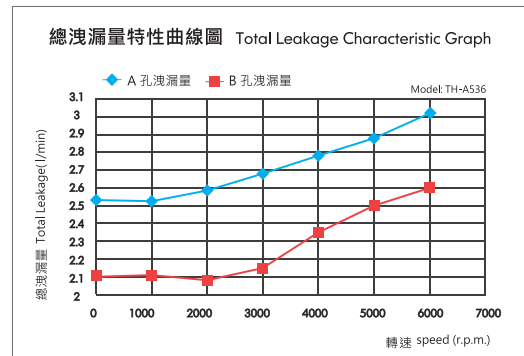
### 動態夾持力測試 Dynamic Gripping Force Test

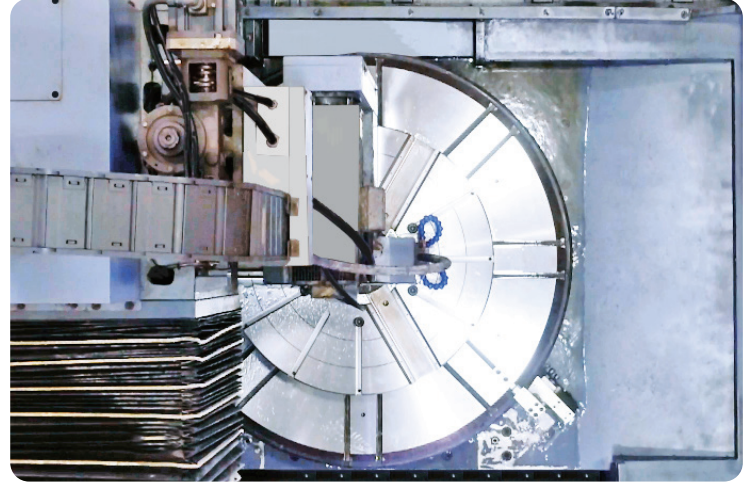
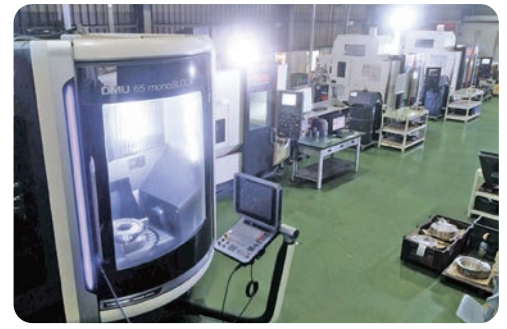
- 利用夾持力感測器，量測額定油壓缸出力下，夾頭夾持力隨主軸轉速的變化。
- The curve of gripping force against rotary speed is obtained via force sensor at a given test condition.



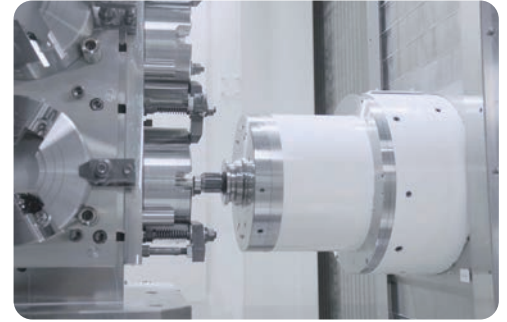
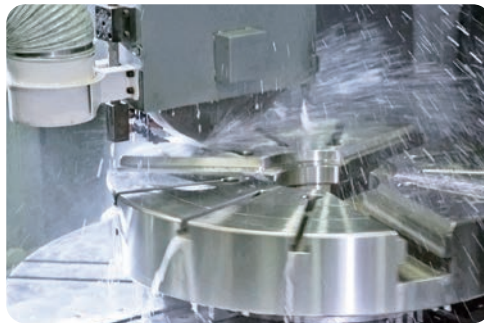
### 動態洩漏量測試 Dynamic Oil Leaking Test

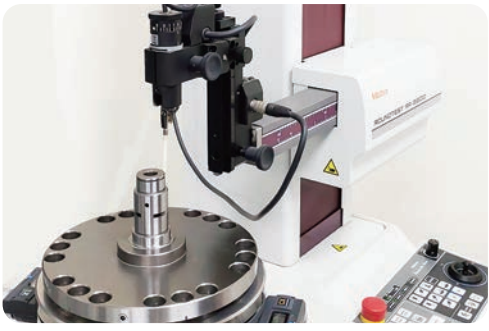
- 量測油壓缸在不同轉速下的洩漏量，確保其符合規範。
- The oil leaking of cylinder is measured at different rotary speed to ensure it is within engineering specification.





## YOUR TRUSTED PARTNER ON **WORKHOLDING**





## 佳賀精機是您工件夾持的最佳夥伴！ Why AUTOGRIP?

### 1. 我們提供客製化的設計與生產

客製化項目如：自動化夾持及氣密檢知解決方案、特殊空油壓缸、迴轉分流閥及迴轉接頭、特殊夾爪，針對特殊產品需求提供解決方案。

### 2. 各種動力夾頭和空油壓迴轉缸

動力夾頭：單爪 ~ 六爪，超長爪行程，後拉式，立置式，筒夾夾頭與各式專業的自動化夾持系列。

迴轉缸：提供中空、中實、行程控制、注水 / 注氣、油壓 / 氣壓、單缸 / 雙缸與短型整合型等多樣選擇。

### 3. 快速的交貨和滿意的服務

AUTOGRIP 自成立以來一直以客戶滿意度為首要目標，我們的專業團隊將竭誠為您提供優質的產品和服務。

### 1. Custom design service

Example: Solution of automatic workholding and workpiece seating confirmation, special requirement on air/hydraulic cylinder, rotary valve, rotary joint, or customized soft jaw/hard jaw.

### 2. Variety of chucks & cylinders

Chuck: 1-jaw to 6-jaw chuck from 3" to 79", Extra long stroke, Pull back, Stationary chucks, Collet chucks and other clamping solution.

Cylinder: through-hole, Non-through hole, Stroke control, Coolant/air connection, Air cylinder, Double rod, Compact style.

### 3. Faster delivery and satisfied service.

Since its establishment, AUTOGRIP has always prioritized customer satisfaction as our primary goal. Our professional team is dedicated to providing you with high-quality products and services.



GRIPPING FORCE SENSOR

夾持力感測器

AUTOGRIP

# GFS-100

## 夾持力感測器 GRIPPING FORCE SENSOR



### 特色 / FEATURES

- 藍牙 5.0 傳輸穩定。
- Type-C 充電便利。
- 高性能鋰電池。
- 支援 Android 和 iOS。
- 可配置 2 爪或 3 爪操作。
- Stable Bluetooth 5.0 Transmission.
- Convenient Type-C Charging.
- High-Performance Lithium Battery.
- Supports Android and iOS.
- Configurable for 2-Jaw or 3-Jaw Operation.



夾持力感測器規格、寸法，請參閱零附件頁面。GFS-100 specifications and dimensions, Please refer to Accessories pages.





# VR

## 動力定心虎鉗 POWER CENTERING VISE

### 特色 / FEATURES

- 斜楔式驅動於加工過程中持續高夾持力。
- 外型薄、短型適用於銑床或加工中心機，可充分增加作業空間。
- 內建油壓缸，可使用氣壓或油壓為動力源。
- 夾具上就有側向氣源介面，安裝簡易隨插即用。
- Constantly high clamping forces are ensured while machining.
- Compact design, suitable for milling machines or machining centers.
- With built-in cylinder, it could be either pneumatically or hydraulically operated.
- Plug & Play, easy to install.



## SWING TYPE THREE-JAW CHUCK

### 擺動型後拉三爪夾頭

AUTOGRIP



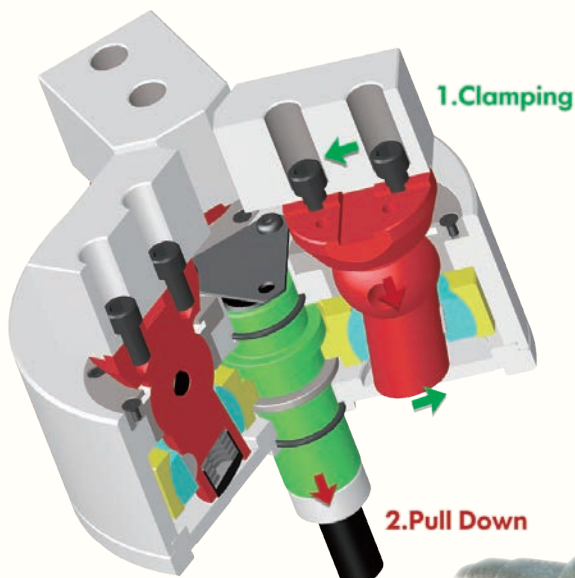
台灣精品 2020  
TAIWAN EXCELLENCE

# 3W

## 擺動型後拉三爪夾頭 SWING TYPE THREE-JAW CHUCK

### 特色 / FEATURES

- 徑向夾持工件後，再施予後拉力量。
- 適合鍛件及鑄件的短錐度面夾持，角度最大 20 度。
- 夾爪具有最大 5 度的旋轉補償機制。
- 具防水及防切屑設計。
- Grip the work piece in radial direction and then pull down.
- Gripping on forging or casting part with taper up to 20°
- Jaw equalizing: 5°Max.
- Anti-dust and Seal proof for cutting fluid, easy to maintain.



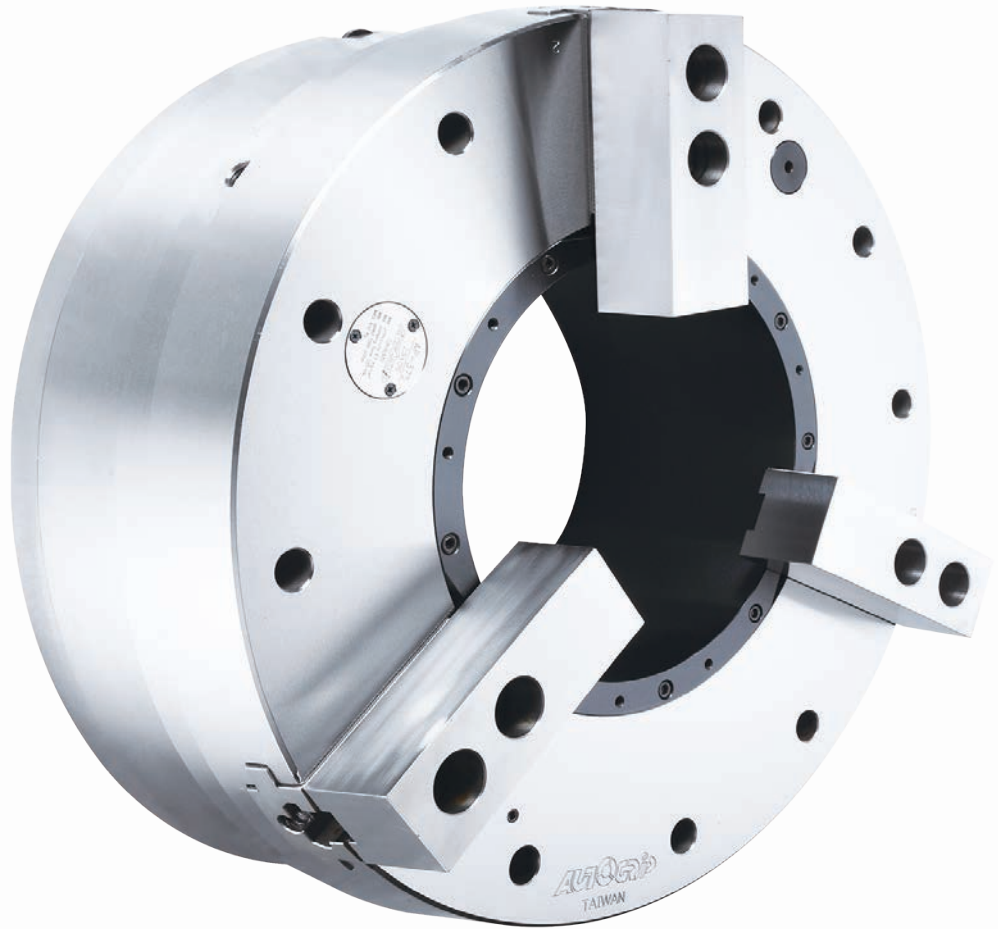
## LARGE THRU-HOLE AIR CHUCK

# 大孔徑中空氣動夾頭

AUTOGRIP



台灣精品 2018  
TAIWAN EXCELLENCE



# AP 三爪 中空型

### 特色 / FEATURES

- 超大通孔徑：Ø52mm~Ø375mm。
- 適合大型管材加工。
- 專利注氣系統，內建氣壓缸。
- 無需傳統配氣環，節省安裝及維修成本。
- Large thru-hole : Ø52mm~Ø375mm.
- No distributor ring needed.
- Easy to install.
- Less maintenance.

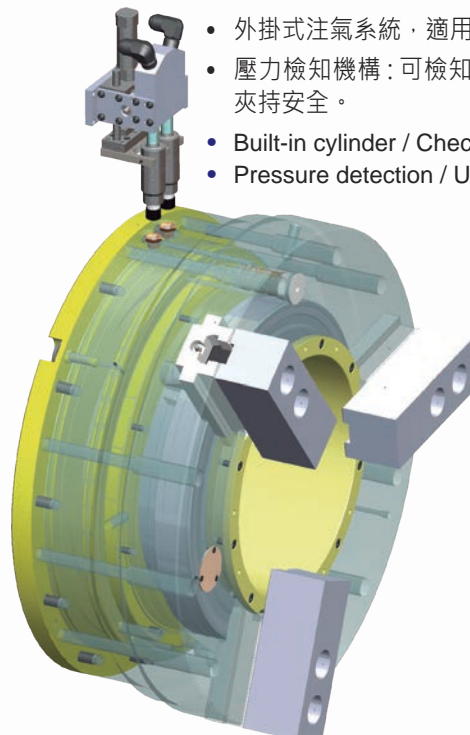
### 專利字號 PRODUCT PATENTED

|     |  |
|-----|--|
| 美國  | US8770222 B2(U.S.A.)                           |
| 台灣  | M440159 / M415011 (Taiwan)                     |
| 德國  | 20.2011.101.818.4/20.2012.102.498.5(Germany)   |
| 日本  | 3169457 / 3178706(Japan)                       |
| 歐盟  | EP 2517822 B1(EU)                              |
| 大陸  | ZL 2011 2 0141324.9/ZL 2012 2 0274549.6(China) |
| 義大利 | 0000278076(Italy)                              |

### 專利注氣系統

#### PATENTED AIR FEED SYSTEM

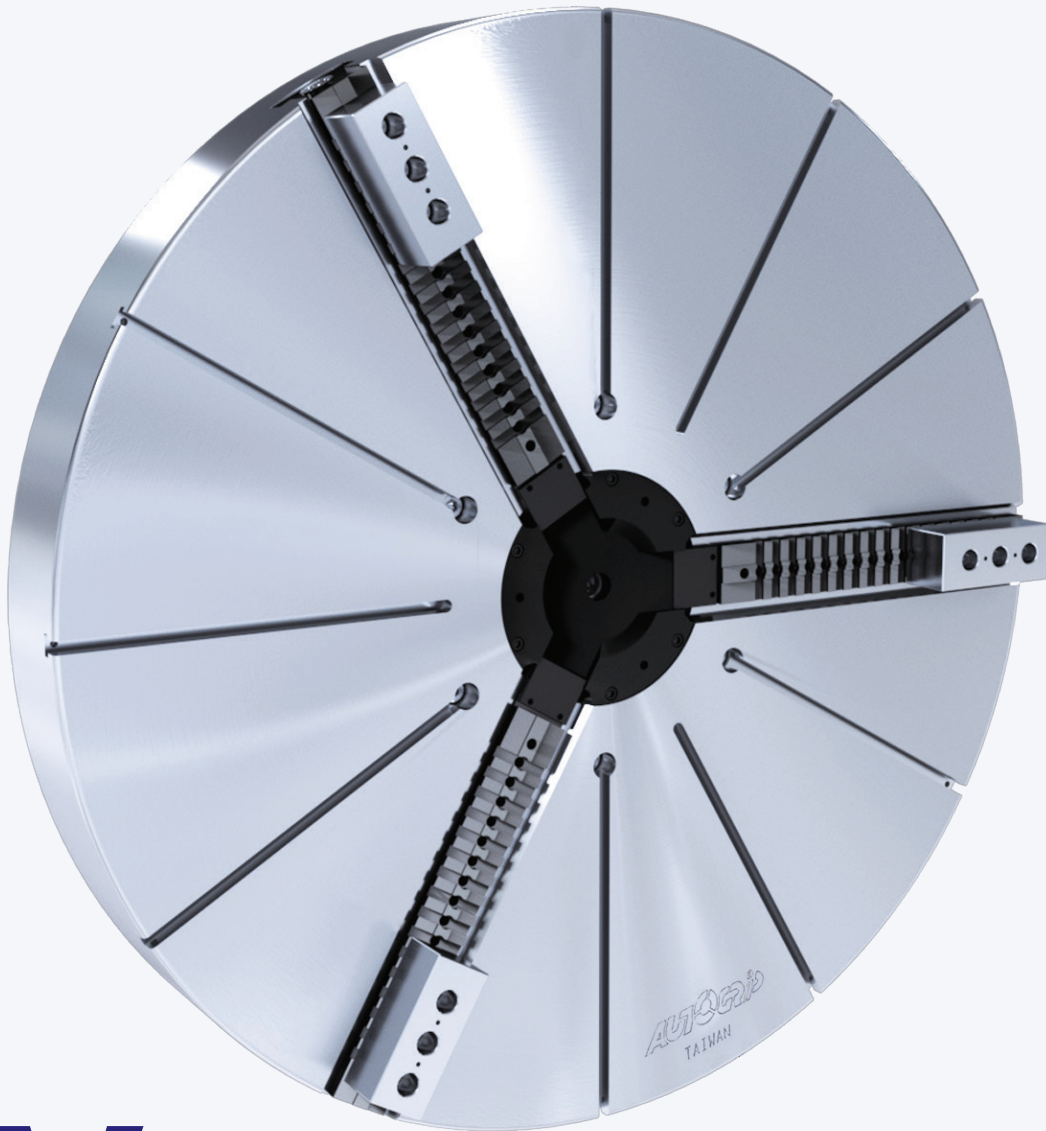
- 外掛式注氣系統，適用於具 C 軸定位車床。
- 壓力檢知機構：可檢知內部壓力驟降，確保夾持安全。
- Built-in cylinder / Check valve.
- Pressure detection / Unique design.



POWER CHUCK FOR VERTICAL LATHE

楔形中實防切屑及防水動力夾頭

AUTOGRIP



# 3V 系列 series

最大直徑可達 The maximum diameter is  
**2000mm(79")**

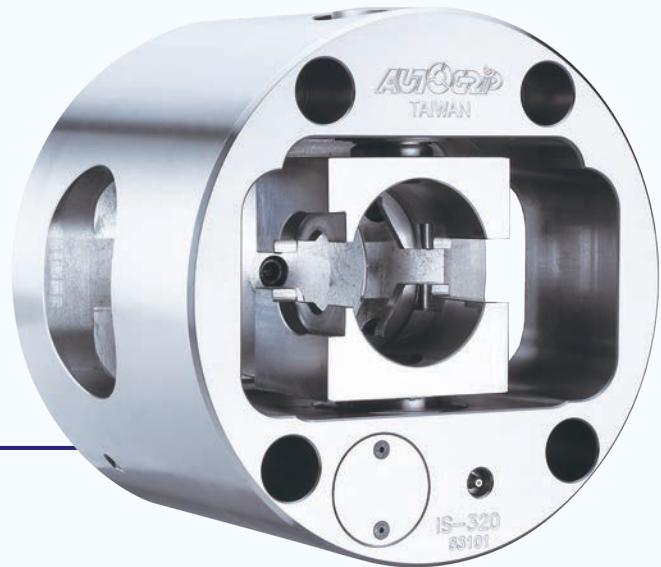
## 特色 / FEATURES

- 楔形三爪中實夾頭。
- 主爪可手動調整行程，以利工件求心。
- 防切屑及防水設計，特別適合使用於立式車床。
- It's a WEDGE-HOOK type 3-jaw high speed power chuck.
- With manual radial setting of master jaws for the workpieces centering.
- Sealed against swarf, chips and coolant, suitable for vertical lathe.



- 產品型號 / 尺寸: 有 3, 4 或 6 爪等型式。
- 直徑: 12"~79" 種類齊全。
- 適用迴轉油壓缸: RE 系列。
- Various Models / Size:  
Available in 3, 4 and 6-jaw versions .
- with sizes 12 to 79 inch diameter.
- Rotary cylinder : RE series .

IS



## 自動分度夾頭

Power Indexing Chuck

### 特色 / FEATURES

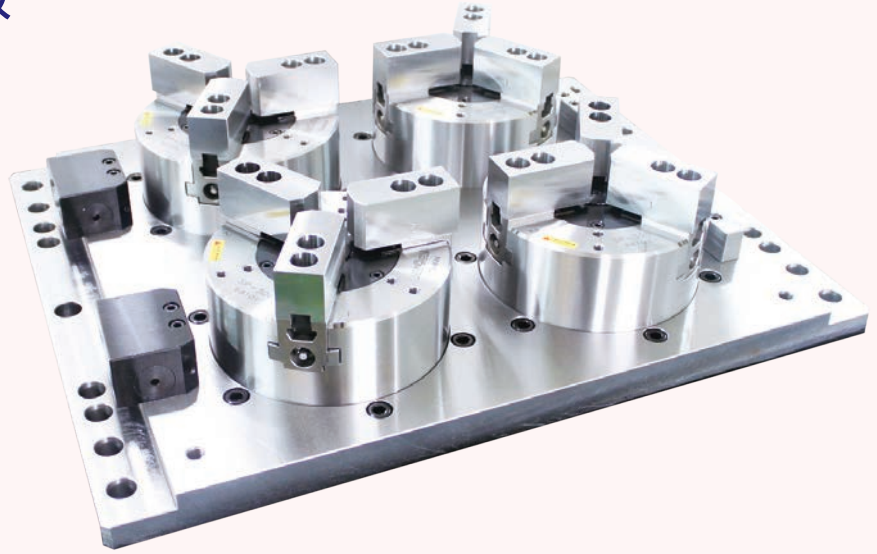
- 主軸運轉過程中進行分度操作，可於多個工作軸之間進行快速轉換。
  - 夾頭內部零件均經硬化及精密研磨，並直接潤滑。
  - 防水及防切屑設計。
  - 高剛性結構及高重複精度。
  - 獨特的分度系統及液壓系統，夾頭有壓力檢知機構，可靠性高。
- 
- Indexing operates during the spindle rotation, can perform a quick change between multiple working axes.
  - All parts of chuck hardened, ground and lubricated directly.
  - Sealed against swarf, chips and coolant.
  - High rigidity and high repeatability precision.
  - Unique indexing system and hydraulic system, with pressure detection device in chuck, high reliability.



## STATIONARY CHUCK BASE PLATE

# 立置夾頭座板

AUTOGRIP



# MP4

## 立置夾頭座板 MULTI-PLATE.4-PLATE

### 特色 / FEATURES

- 適用於銑床 / 綜合加工中心機。
- 同時加工四個工件 (可訂製 2,3,6 工件數的盤面)。
- 可搭配 SP/SM/SD/SU/SE 立置夾頭。
- 適用油壓 / 氣壓。
- 每個夾頭為獨立迴路控制。
- 特殊油路設計、可降低夾頭工作面高度。
- 保壓裝置 (選配)。
- 氣密檢知 (選配)。
- For milling machine / machine center.
- Allow simultaneous machining with up to 4 grippers. (Order can be customized for 2,3,6 grippers).
- Work with SP/SM/SD/SU/SE vertical chuck.
- Driven by Hydraulic or Pneumatic.
- Individual circuit for each chuck.
- Special design and reduce the height of working surface.
- Lock valve unit (optional).
- Air tight detection function(optional).



### 立置式夾頭系列 STATIONARY CHUCK SERIES



SP - 立置式三爪夾頭  
SP-STATIONARY CHUCK

- 斜楔式。
- Wedge-hook type.



SD - 立置式後拉夾頭  
SD-STATIONARY PULL DOWN CHUCK

- 後拉式 / 重切削 / 氣密檢知。
- Pull down / Heavy duty machining
- Air tight detection.



SE - 立置式內張後拉夾頭  
SE-STATIONARY EXPANSIBLE  
PULL LOCK CHUCK

- 後拉式 / 內徑夾持 / 氣密檢知。
- Pull lock / Inner dia. clamping /
- Air tight detection.



SM - 立置式長行程夾頭  
SM-LONG JAW STROKE  
STATIONARY CHUCK

- 超長爪行程 / 氣密檢知。
- Long jaw stroke
- Air tight detection.



SU - 立置式爪背托後拉夾頭  
SU-STATIONARY PULL LOCK CHUCK

- 後拉式 / 重切削 / 氣密檢知。
- Pull lock / Heavy duty machining
- Air tight detection.

# 還在使用傳統的彈性筒夾嗎？ 推薦您 **橡膠筒夾**

車床用



CBD



RG

**高精度 防切屑 快換爪**

銑床用：內建油（氣）缸



SCB



卸爪器



RG

單一規格夾持範圍可達  $\pm 0.5\text{mm}$

## ROTARY CYLINDER & LINEAR POSITION SENSOR

### 超短型中空 / 中實迴轉油壓缸附線性定位系統機構

AUTOGRIP



減少停機時間 = 增加產出利潤

#### 特色 / FEATURES

- 全行程檢知。
- 更換工件時不需手動調整近接開關。
- 減少停機時間，增加工作效率。
- 全系列空油壓迴轉缸皆可選配。
- Entire stroke range position monitoring.
- Position setup by teach-in function.
- Manual adjustment for proximity switch is unnecessary when changing workpiece.
- Suitable for sub-spindle or vertical lathes with limited space.
- Reduce idle time, increase throughput.



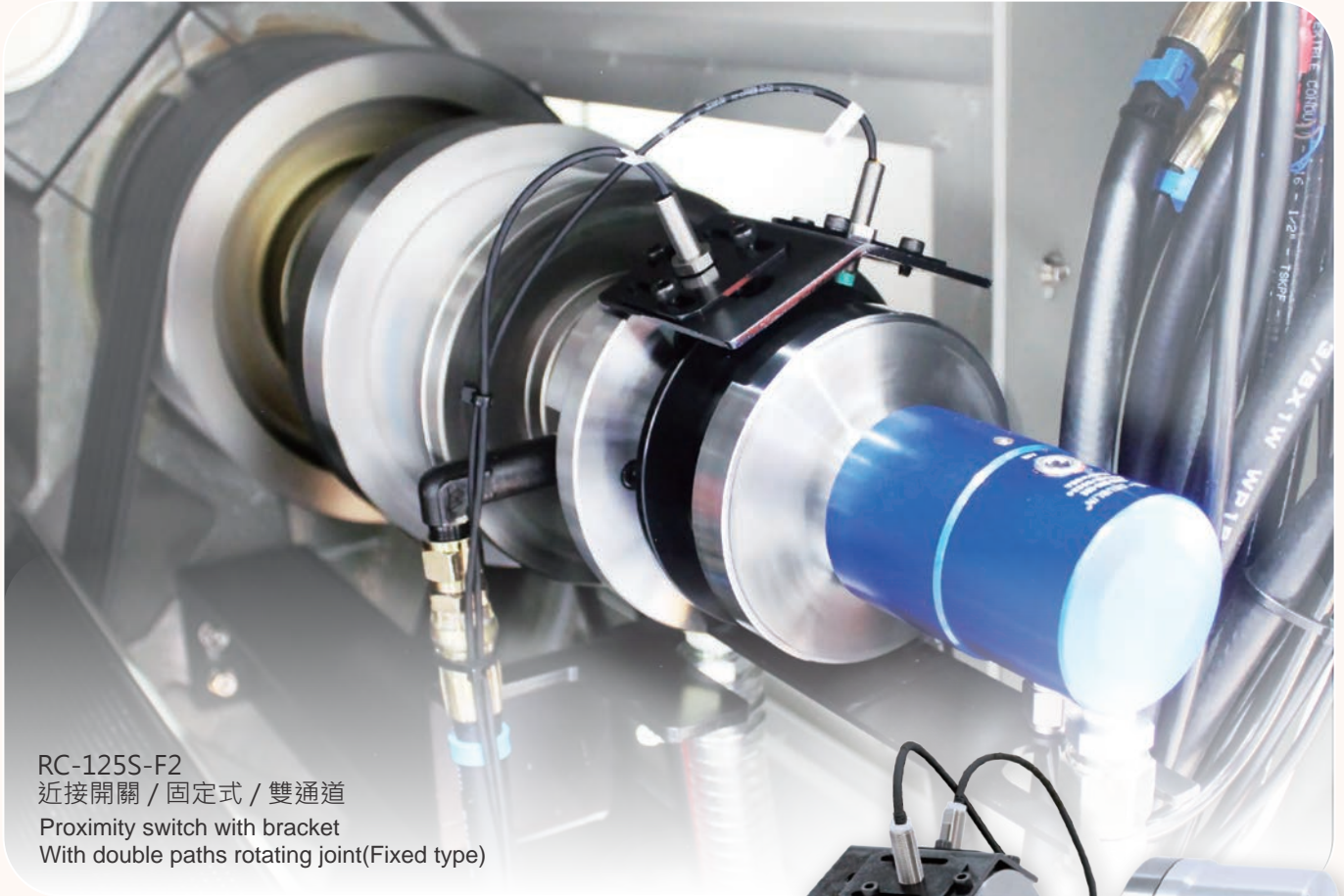
立式車床  
油壓缸



## HYDRAULIC CYLINDER WITH ROTATING JOINT

### 迴轉接頭外接型迴轉油壓缸

AUTOGRIP



RC-125S-F2  
近接開關 / 固定式 / 雙通道  
Proximity switch with bracket  
With double paths rotating joint(Fixed type)

# RC series

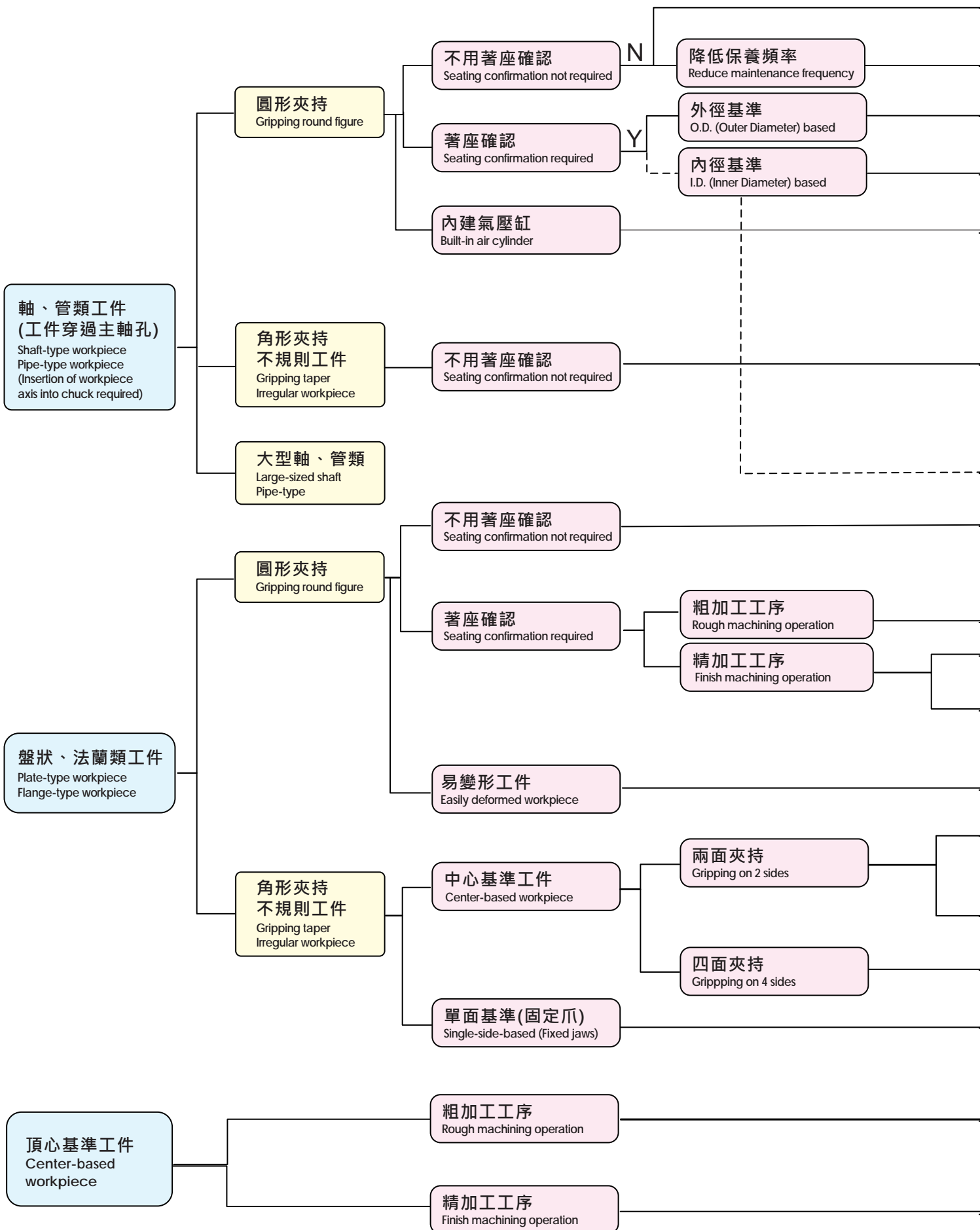


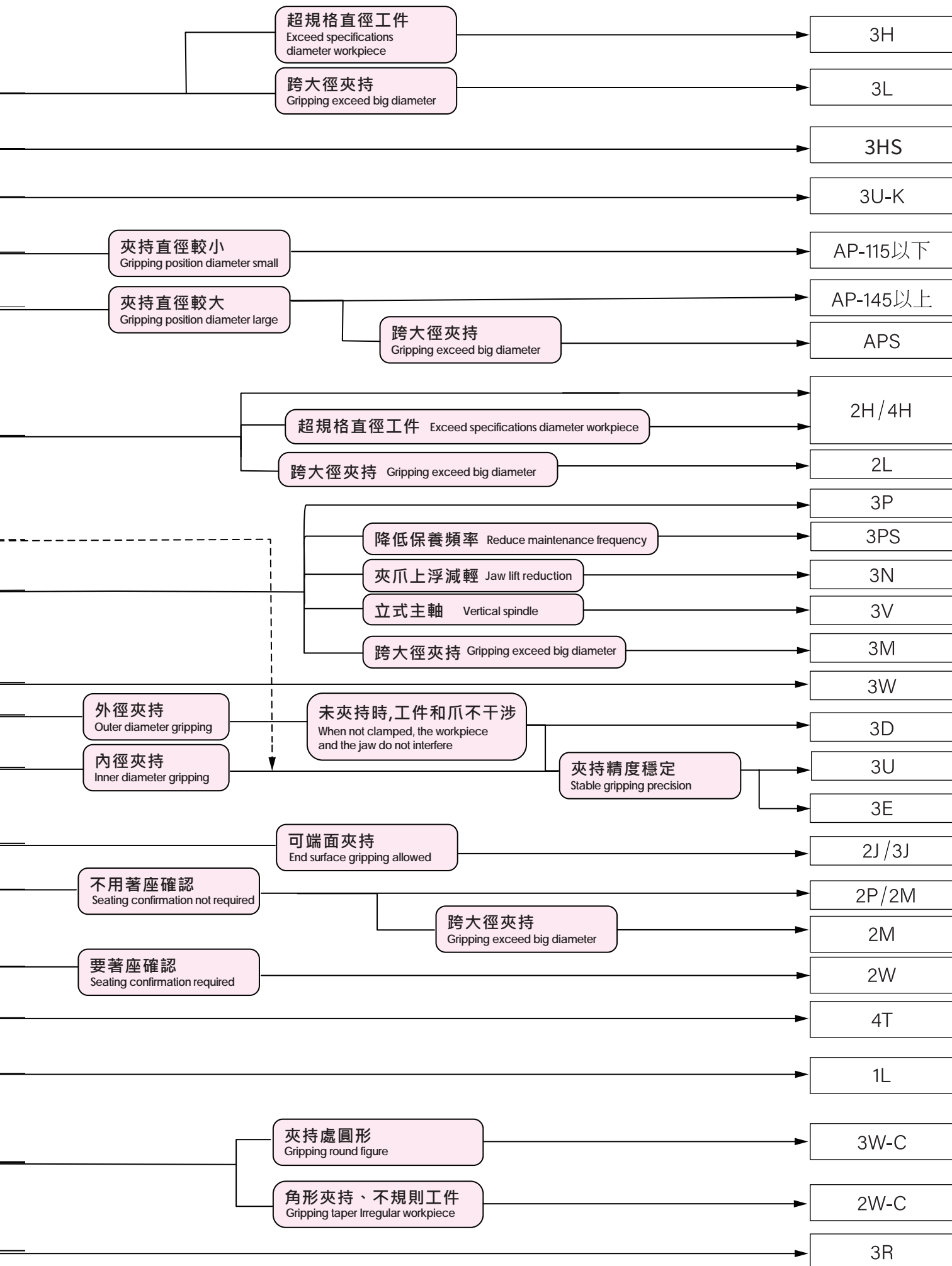
## 迴轉接頭外接型迴轉油壓缸

### HYDRAULIC CYLINDER WITH ROTATING JOINT

#### 特色 / FEATURES

- 中實型帶通道油壓缸。
- 可外接單通道或雙通道迴轉接頭，同時滿足氣密檢測及中心出水的需求。
- 內建逆止閥自鎖機構。
- 可選擇所合適的近接開關或線性位移感測器進行行程控制。
- 近接開關及外接單通道或雙通道迴轉接頭為選購品。
- Medium and solid hydraulic cylinder with channel.
- Can choose an external rotary joint with either single or double paths.
- It meets the demand for coolant through spindle and airtight pressure detect function.
- Has a built-in check valve for safety.
- The proximity switch and single or double paths rotating joint are optional.
- Stroke control via proximity switch or linear positioning system.





\* 本表中的內容如有更改，恕不另行通知。

\*The contents in this chart are subject to change without notice for further improvement, etc.

# INDEX [Product Description]

## 動力夾頭 Power Chucks

|  |  |  |
|--|--|--|
|  <p><b>3H-2/3H-2A</b><br/>中空動力夾頭<br/>LARGE THRU-HOLE POWER CHUCK<br/>中空型 THRU-HOLE<br/>三爪 3-JAW</p> <p>1</p>            |  <p><b>3H/3H-A</b><br/>中空動力夾頭<br/>THRU-HOLE POWER CHUCK<br/>中空型 THRU-HOLE<br/>三爪 3-JAW</p> <p>3</p>                                   |  <p><b>2H/2H-A</b><br/>中空動力夾頭<br/>THRU-HOLE POWER CHUCK<br/>中空型 THRU-HOLE<br/>二爪 2-JAW</p> <p>4</p>                     |
|  <p><b>4H/4H-A</b><br/>中空動力夾頭<br/>THRU-HOLE POWER CHUCK<br/>中空型 THRU-HOLE<br/>四爪 4-JAW</p> <p>5</p>                     |  <p><b>3P/3P-A</b><br/>中實動力夾頭<br/>POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>三爪 3-JAW</p> <p>6</p>   |  <p><b>2P/2P-A</b><br/>中實動力夾頭<br/>POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>二爪 2-JAW</p> <p>9</p>                           |
|  <p><b>3L/3L-A</b><br/>超長爪行程動力夾頭<br/>EXTRA LONG JAW STROKE<br/>POWER CHUCK<br/>中空型 THRU-HOLE<br/>三爪 3-JAW</p> <p>10</p> |  <p><b>2L/2L-A</b><br/>超長爪行程動力夾頭<br/>EXTRA LONG JAW STROKE<br/>POWER CHUCK<br/>中空型 THRU-HOLE<br/>二爪 2-JAW</p> <p>11</p>               |  <p><b>1L</b><br/>超長爪行程動力夾頭<br/>EXTRA LONG JAW STROKE<br/>POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>單爪 1-JAW</p> <p>13</p>  |
|  <p><b>3M</b><br/>中實長爪行程夾頭<br/>LONG JAW STROKE POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>三爪 3-JAW</p> <p>14</p>             |  <p><b>2M</b><br/>中實長爪行程夾頭<br/>LONG JAW STROKE<br/>POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>二爪 2-JAW</p> <p>16</p>                       |  <p><b>3V-A</b><br/>立車用中實動力夾頭<br/>POWER CHUCK FOR<br/>VERTICAL LATHE<br/>中實型 NON-THRU-HOLE<br/>三爪 3-JAW</p> <p>17</p>   |
|  <p><b>4V-A</b><br/>立車用中實動力夾頭<br/>POWER CHUCK FOR<br/>VERTICAL LATHE<br/>中實型 NON-THRU-HOLE<br/>四爪 4-JAW</p> <p>19</p>  |  <p><b>3HS</b><br/>三爪中空低保養動力夾頭<br/>THRU-HOLE FULLY SEALED<br/>TYPE POWER CHUCK<br/>全密封型 fully sealed type<br/>三爪 3-JAW</p> <p>21</p> |  <p><b>3PS</b><br/>三爪中實低保養動力夾頭<br/>FULLY SEALED TYPE POWER CHUCK<br/>全密封型 fully sealed type<br/>三爪 3-JAW</p> <p>22</p> |

## 特殊動力夾頭 Special Purpose Power Chucks

|   |   |  |
|---|---|--|
|  <p><b>IS</b><br/>自動分度夾頭<br/>POWER INDEXING CHUCK</p> <p>23</p>  |  <p><b>3N</b><br/>斜爪式中實三爪夾頭<br/>INCLINED MASTER JAWS<br/>POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>三爪 3-JAW</p> <p>24</p>              |  <p><b>4T</b><br/>四爪雙動型夾頭<br/>FOUR-JAW TWO MOTION<br/>TYPE POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>四爪 4-JAW</p> <p>25</p>                         |
|  <p><b>3D</b><br/>後拉式動力夾頭<br/>PULL DOWN POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>三爪 3-JAW</p> <p>26</p>                     |  <p><b>2D</b><br/>後拉式動力夾頭<br/>PULL DOWN POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>二爪 2-JAW</p> <p>27</p>                               |  <p><b>3U</b><br/>後拉固鎖式動力夾頭<br/>PULL LOCK POWER CHUCK<br/>中空型 THRU-HOLE<br/>三爪 3-JAW</p> <p>28</p>  |
|  <p><b>3U-K</b><br/>後拉固鎖式動力夾頭<br/>PULL LOCK POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>三爪 3-JAW</p> <p>29</p>                 |  <p><b>3E</b><br/>內張後拉式動力夾頭<br/>EXPANSIBLE PULL LOCK<br/>POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>三爪 3-JAW</p> <p>30</p>              |  <p><b>3W/3W-C</b><br/>擺動型後拉三爪夾頭<br/>SWING TYPE 3-JAW POWER CHUCK<br/>擺動型 SWING TYPE<br/>三爪 3-JAW</p> <p>31</p>                                 |
|  <p><b>3RF</b><br/>軸車削用夾頭<br/>RETRACTABLE-JAW 3-JAW<br/>SHAFT CHUCK<br/>補償型 COMPENSATING TYPE<br/>三爪 3-JAW</p> <p>33</p> |  <p><b>3R</b><br/>擺動補償型三爪夾頭<br/>SWING COMPENSATING TYPE<br/>3-JAW POWER CHUCK<br/>補償型 COMPENSATING TYPE<br/>三爪 3-JAW</p> <p>34</p> |  <p><b>3J</b><br/>中實指形動力夾頭<br/>FINGER POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>三爪 3-JAW</p> <p>35</p>  |
|  <p><b>2J</b><br/>中實指形動力夾頭<br/>FINGER POWER CHUCK<br/>中實型 NON-THRU-HOLE<br/>二爪 2-JAW</p> <p>36</p>                       |  <p><b>AP</b><br/>大孔徑中空氣動夾頭<br/>LARGE THRU-HOLE AIR CHUCK<br/>中空型 THRU-HOLE<br/>三爪 3-JAW</p> <p>37</p>                             |  <p><b>APS</b><br/>大孔徑中空氣動夾頭<br/>(二段式行程)<br/>LARGE THRU-HOLE AIR CHUCK<br/>(DOUBLE SPEED JAW STROKE)<br/>中空型 THRU-HOLE / 三爪 3-JAW</p> <p>39</p> |

## 筒夾夾頭 Collet Chucks



**CL**  
筒夾夾頭  
COLLET CHUCK  
中空型 THRU-HOLE

40



**CL-A**  
筒夾夾頭  
COLLET CHUCK  
中空型 THRU-HOLE

41



**CB/CB-A**  
後拉式筒夾夾頭  
DRAW BACK COLLET CHUCK  
中空型 THRU-HOLE

42



**CBE/CBE-A**  
後拉定位式橡膠筒夾夾頭  
END STOP COLLET CHUCK  
中空型 THRU-HOLE

43



**CBD/CBD-A**  
前推固定式橡膠筒夾夾頭  
DEAD LENGTH COLLET CHUCK  
中空型 THRU-HOLE

44



**SCB**  
立置式後拉筒夾夾頭  
STATIONARY DRAW COLLET CHUCK  
中空型 THRU-HOLE

45



**RG**  
橡膠筒夾  
RUBBER GRIP COLLET

46



**DIN6343**  
彈性筒夾  
STEEL COLLET  
彈性筒夾 STEEL COLLET

47

## 立置式夾頭 Stationary Chucks



**VH**  
中空立置式夾頭  
STATIONARY CHUCK WITH  
THRU-HOLE  
中空立置式 THRU-HOLE STATIONARY  
二 / 三爪 2/3-JAW

48



**VP**  
中實立置式夾頭  
STATIONARY CHUCK  
中實立置式 NON-THRU-HOLE  
STATIONARY  
二 / 三爪 2/3-JAW

49



**SM**  
立置式長行程夾頭  
LONG JAW STROKE  
STATIONARY CHUCK  
中實型 NON-THRU-HOLE  
三爪 3-JAW

50



**SP**  
立置式夾頭  
STATIONARY CHUCK  
中實型 NON-THRU-HOLE  
中空型 THRU-HOLE  
二 / 三爪 2/3-JAW

51



**SD**  
立置式後拉夾頭  
STATIONARY PULL DOWN CHUCK  
中實型 NON-THRU-HOLE  
三爪 3-JAW

53



**SU**  
立置式爪背托後拉夾頭  
STATIONARY PULL LOCK CHUCK  
中實型 NON-THRU-HOLE  
三爪 3-JAW

54



**SE**  
立置式內張後拉夾頭  
STATIONARY EXPANSIBLE  
PULL LOCK CHUCK  
中實型 NON-THRU-HOLE  
三爪 3-JAW

55



**MP4**  
立置夾頭座板  
STATIONARY CHUCK BASE PLATE

56



**VH-201**  
手動切換閥  
HAND OPERATED AIR VALVE  
零配件 ACCESSORIES

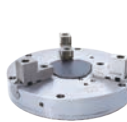
56

## 轉盤用氣壓夾頭 Pneumatic Rotary Chuck



**RAP**  
轉盤用氣壓三爪夾頭  
PNEUMATIC ROTARY CHUCK  
轉盤用氣壓型 Pneumatic rotary TYPE

57



**3MF**  
薄型手動求心三爪夾頭  
SELF-CENTERING 3-JAW  
MANUAL CHUCK  
中實型 NON-THRU-HOLE  
三爪 3-JAW

58



**VR**  
動力定心虎鉗  
POWER CENTERING VISE  
斜楔式 Wedge Type

59

## 展刀搪溝頭 Facing Heads



**FA**  
展刀搪溝頭  
SINGLE-SLIDE FACING HEAD  
單向型 SINGLE SLIDE

60



**FD**  
雙向展刀搪溝頭  
DOUBLE-SLIDE FACING HEAD  
雙向型 DOUBLE SLIDE

62

## 同步夾具 Synchronous Clamp



**CP**  
同步夾具  
SYNCHRONOUS CLAMP  
曲柄型 Crank Type

63



**CW**  
斜楔式同步夾具  
WEDGE-DRIVEN  
SYNCHRONOUS CLAMP  
斜楔式 Wedge-Driven

64

## 空油壓迴轉缸 Rotary Cylinders



**TK**  
超短型中空迴轉油壓缸  
SHORT TYPE ROTATING HYDRAULIC  
CYLINDER WITH THRU-HOLE  
AND SAFETY DEVICE  
中空型 THRU-HOLE  
油壓 HYDRAULIC

65



**TS**  
大孔徑超短型中空迴轉油壓缸  
SHORT TYPE ROTARY HYDRAULIC  
CYLINDER WITH BIG-BORE  
THRU-HOLE AND SAFETY DEVICE  
中空型 THRU-HOLE  
油壓 HYDRAULIC

69



**TH**  
中空迴轉油壓缸  
ROTATING HYDRAULIC CYLINDER  
WITH THRU-HOLE  
AND SAFETY DEVICE  
中空型 THRU-HOLE  
油壓 HYDRAULIC

70



**TR**  
輕短型中空迴轉油壓缸  
SMALL TYPE ROTARY HYDRAULIC  
CYLINDER WITH THRU-HOLE  
AND SAFETY DEVICE  
中空型 THRU-HOLE  
油壓 HYDRAULIC

71



**RK**  
附逆止閥中實迴轉油壓缸  
ROTATING HYDRAULIC CYLINDER  
WITH SAFETY DEVICE  
中實型 NON-THRU-HOLE  
油壓 HYDRAULIC

72



**RK-N**  
中實迴轉油壓缸  
ROTATING HYDRAULIC CYLINDER  
中實型 NON-THRU-HOLE  
油壓 HYDRAULIC

73



**RH**  
中實迴轉油壓缸  
ROTATING HYDRAULIC CYLINDER  
中實型 NON-THRU-HOLE  
油壓 HYDRAULIC

74



**RA**  
中實迴轉空壓缸  
ROTATING AIR CYLINDER  
中實型 NON-THRU-HOLE  
空壓 AIR

75



**RS**  
附逆止閥行程控制型迴轉油壓缸  
ROTATING-HYDRAULIC CYLINDER  
WITH STROKE CONTROL  
AND SAFETY DEVICE  
行程控制型 STROKE CONTROL  
油壓 HYDRAULIC

76



**RS-N**  
行程控制型迴轉油壓缸  
ROTATING HYDRAULIC CYLINDER  
WITH STROKE CONTROL  
行程控制型 STROKE CONTROL  
油壓 HYDRAULIC

77



**RL**  
附逆止閥注水型迴轉油壓缸  
ROTATING HYDRAULIC CYLINDER  
WITH COOLANT CONNECTION  
AND SAFETY DEVICE  
注水型 COOLANT CONNECTION  
油壓 HYDRAULIC

78



**RL-N**  
注水型迴轉油壓缸  
ROTATING HYDRAULIC CYLINDER  
WITH COOLANT CONNECTION  
注水型 COOLANT CONNECTION  
油壓 HYDRAULIC

79



**RL-AN**  
注氣型迴轉油壓缸  
ROTATING HYDRAULIC CYLINDER  
WITH AIR CONNECTION  
注氣型 AIR CONNECTION  
油壓 HYDRAULIC

80



**RC**  
迴轉接頭外接型轉油壓缸  
HYDRAULIC CYLINDER WITH  
ROTATING JOINT  
迴轉接頭外接型  
ROTATING JOINT

81



**RE**  
精短整合型中實迴轉油壓缸  
COMPACT STYLE HYDRAULIC CYLINDER  
WITH STROKE CONTROL  
AND SAFETY DEVICE  
精短整合型 COMPACT STYLE  
油壓 HYDRAULIC

83



**RE-A**  
精短整合型注氣迴轉油壓缸  
COMPACT STYLE HYDRAULIC  
CYLINDER WITH AIR CONNECTION  
AND SAFETY DEVICE  
精短整合型 COMPACT STYLE  
油壓 HYDRAULIC

85



**RE-L**  
精短整合型注水迴轉油壓缸  
COMPACT STYLE HYDRAULIC  
CYLINDER WITH COOLANT  
CONNECTION AND SAFETY DEVICE  
精短整合型 COMPACT STYLE  
油壓 HYDRAULIC

87



**RD**  
附逆止閥雙桿型迴轉油壓缸  
DOUBLE ROD ROTATING CYLINDER  
WITH SAFETY DEVICE  
雙桿型 DOUBLE-ROD  
油壓 HYDRAULIC

89



**RD-N**  
雙桿型迴轉油壓缸  
DOUBLE ROD ROTATING CYLINDER  
雙桿型 DOUBLE-ROD  
油壓 HYDRAULIC

90

## 迴轉分流閥 Rotary Valves



**RV**  
油壓迴轉分流閥  
HYDRAULIC ROTARY VALVE  
油路分配器  
OIL CIRCUIT DISTRIBUTOR

91



**RV-A**  
空壓迴轉分流閥  
AIR ROTARY VALVE  
空壓 AIR

91

## 迴轉接頭 Rotary Joints



**RJ-80**  
冷卻液迴轉接頭  
COOLANT ROTATING JOINT  
迴轉接頭 COOLANT JOINT

92



**RJ-92**  
冷卻液迴轉接頭內附  
止水閥自動開閉機構  
COOLANT ROTATING JOINT WITH  
AUTOMATIC ON/OFF SEAL  
迴轉接頭 COOLANT JOINT

92

## 油壓中心架 Self-Centering Steady Rest



**SR**  
油壓中心架  
SELF-CENTERING STEADY REST  
基本型 BASIC TYPE

93



**SRR**  
油壓中心架  
SELF-CENTERING STEADY REST  
進階型 ADVANCED TYPE

95



**SRB**  
油壓中心架  
SELF-CENTERING STEADY REST  
側置型 SIDE-MOUNTED TYPE

96

## 零附件與其他 Parts and Accessories



**GFS-100**  
夾持力感測器  
GRIPPING FORCE SENSOR

97



**SJ**  
標準生爪  
STANDARD SOFT BLANK JAW  
標準生爪 STANDARD SOFT JAW

98



**HJ**  
標準硬爪  
STANDARD HARDENED JAW  
標準硬爪 STANDARD HARDENED JAW

102



**T-NUT**  
T形螺帽  
T-NUT  
T形螺帽 T-NUT

104



**FL**  
夾頭法蘭  
CHUCK ADAPTORS  
法蘭 ADAPTOR

105



**CT/CT-S**  
集水盒與行程確認裝置  
COOLANT COLLECTOR WITH STROKE CONTROL  
集水盒 COOLANT COLLECTOR

106



**CT-SB/CT-SBS**  
集水盒與行程確認裝置  
COOLANT COLLECTOR WITH STROKE CONTROL  
集水盒 COOLANT COLLECTOR

107



**FV**  
立式氣缸用自鎖閥  
STATIONARY CYLINDER LOCK VALVE FOR AIR STATIONARY CHUCK  
零配件 ACCESSORIES

108

### DRAW TUBE

中空拉桿的長度計算  
THE CALCULATION OF DRAW TUBE LENGTH  
中空 DRAW TUBE

109

### DRAW BAR

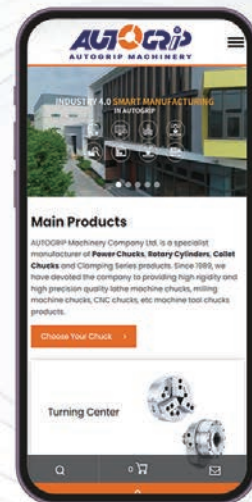
中實拉桿的長度計算  
THE CALCULATION OF DRAW BAR LENGTH  
中實 DRAW BAR

110

瀏覽官網，即刻掌握最新訊息!

**BROWSE THE WEBSITE AND INSTANTLY GRASP INFORMATION!**

| **AUTOGRIP 佳賀精機**



\*2D圖檔(PDF、DWG格式)、3D圖檔(STEP格式) 可以從官網下載。

\*You can download the outline drawing (in pdf or dwg format) and 3D step at AUTOGRIP WEB.

領英(LinkedIn)



公眾號



佳賀精機 AUTOGRIP



AUTOGRIP MACHINERY

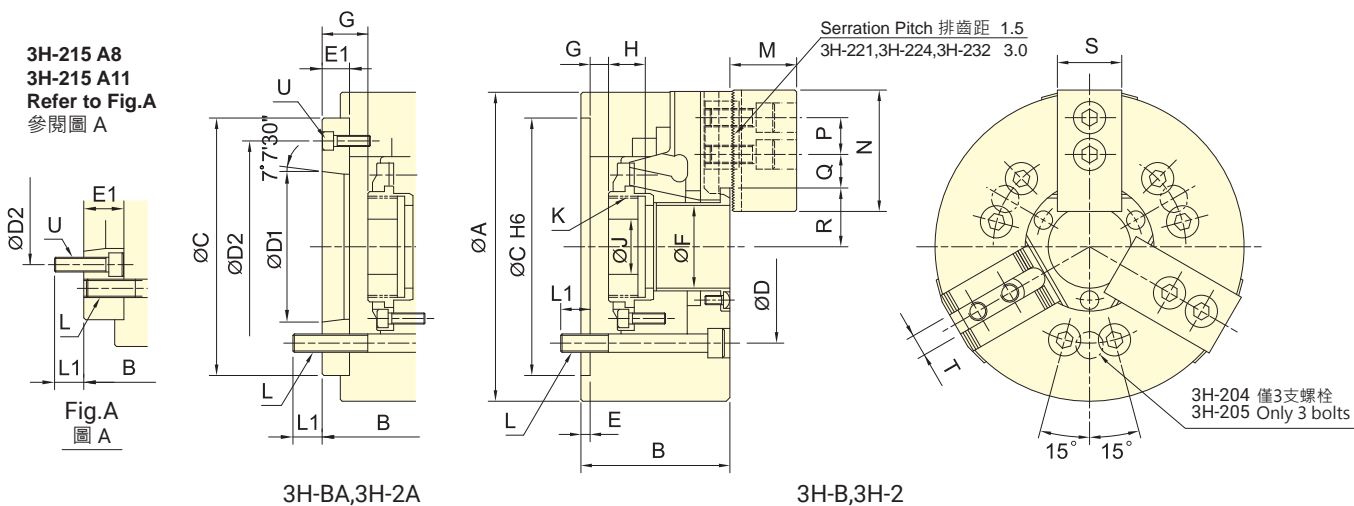


AUTOGRIP佳賀固力普





- 楔形三爪超大貫穿孔徑。
- 摺動面均經硬化及精密研磨，並直接潤滑。
- 高剛性結構及高夾持精度。
- WEDGE-HOOK type 3-jaw with the extra large through-hole.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- High rigidity and high clamping accuracy.
- J 值為連結螺帽未車製螺牙時之孔徑。  
K Default 值為未指定規格之出廠值。  
K max 值為連結螺帽可車製螺牙之最大規格，可依實際需求訂製。
- J is the hole diameter of blank draw nut.  
If not notified, AUTOGRIP will adopt the K Default as K value.  
K is the maximum thread specification and it could be customize.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持直徑<br>Chuck Dia. |            | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg |       | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |         |
|-------------|------------------------------|---|--------------------|------------|--------------------------------------|--|---|---|--------------------|-------|------------------------|---|---------|
|             |                              |   | 最大<br>Max.         | 最小<br>Min. |                                      |  |   |   |                    |       |                        |   |         |
| 3H-204      | A4                           | 13  | 5.5                | 113        | 7                                    | 13.7(1400)                               | 36.0(3670)  | 8000  | 0.012              | 4.22  | 5.34                   | TK-A528   | 2.0(20) |
| 3H-205      | A4                           | 13  | 5.5                | 138        | 10                                   | 17.2(1750)                               | 48(4890)  | 7000  | 0.02               | 6.3   | 7.1                    | TK-A533   | 2.5(25) |
| 3H-206      | A5                           | 14  | 6                  | 170        | 13                                   | 23.3(2375)                               | 66.8(6810)  | 6000  | 0.06               | 13.1  | 14.9                   | TK-A646   | 2.5(25) |
| 3H-208      | A6                           | 18  | 7.6                | 210        | 17                                   | 31.9(3250)                               | 107(10900)  | 5000  | 0.15               | 21.8  | 23.4                   | TK-A853   | 2.6(26) |
| 3H-210      | A8                           | 21  | 8.9                | 260        | 37                                   | 49.1(5010)                               | 152(15500)  | 4500  | 0.32               | 37.5  | 43                     | TK-A1075  | 3.2(32) |
| 3H-212      | A11                          | 25  | 10.6               | 315        | 43                                   | 58.8(6000)                               | 157(16010)  | 3700  | 0.74               | 58.6  | 64.7                   | TK-A1512  | 1.9(19) |
| 3H-215      | A8                           | 25  | 10.6               | 405        | 49                                   | 71(7240)                                 | 180(18350)  | 2500  | 2.8                | 127   | 149                    | TK-2114   | 2.1(21) |
| 3H-215      | A11                          | 25  | 10.6               | 405        | 49                                   | 71(7240)                                 | 180(18350)  | 2500  | 2.8                | 127   | 143.3                  | TK-2114   | 2.1(21) |
| 3H-215      | A15                          | 25  | 10.6               | 405        | 49                                   | 71(7240)                                 | 180(18350)  | 2500  | 2.8                | 127   | 135.6                  | TK-2114   | 2.1(21) |
| 3H-18B      | A15                          | 23  | 10.6               | 456        | 79                                   | 71(7240)                                 | 180(18350)  | 2000  | 4.8                | 162.4 | 173.4                  | TK-2416   | 1.9(19) |
| 3H-221      | A15                          | 28  | 12.9               | 530        | 105                                  | 90(9175)                                 | 234(23860)  | 1800  | 7.5                | 223   | 234                    | TK-2416   | 2.4(24) |
| 3H-224      | A20                          | 28  | 12.9               | 610        | 135                                  | 100(10200)                               | 240(24500)  | 1500  | 15.8               | 270   | 284                    | TK-2820   | 2.1(21) |
| 3H-232      | A20                          | 34  | 18                 | 800        | 205                                  | 100(10200)                               | 240(24500)  | 1200  | 47                 | 546   | 560                    | TK-2820   | 2.1(21) |

紅色數據為 3H-2A、3H-BA 型之寸法 (The dimensions and the specifications of 3H-2A, 3H-BA type are in red data.)



### 外型尺寸 DIMENSIONS

| Model  | A   | B   | C   | D   | D1  | D2    | E      | E1    | F | G max. | G min. | H    | J    |       |      |      |     |
|--------|-----|-----|-----|-----|-----|-------|--------|-------|---|--------|--------|------|------|-------|------|------|-----|
| 3H-204 | A4  | 113 | 59  | 83  | 85  | 70.6  | 63.51  | 82.6  | 4 | 28     | 32     | 3.5  | 31.5 | -9.5  | 18.5 | 17.5 | 12  |
| 3H-205 | A4  | 138 | 60  | 71  | 110 | 82.6  | 63.51  | 96    | 4 | 15     | 39     | 1    | 16   | -12   | 3    | 20   | 12  |
| 3H-206 | A5  | 170 | 81  | 91  | 140 | 104.8 | 82.56  | 116   | 5 | 15     | 53     | 13   | 28   | -1    | 14   | 17.5 | 20  |
| 3H-208 | A6  | 210 | 91  | 103 | 170 | 133.4 | 106.38 | 150   | 5 | 17     | 66     | 16.5 | 33.5 | -1.5  | 15.5 | 20   | 30  |
| 3H-210 | A8  | 260 | 102 | 115 | 220 | 171.4 | 139.72 | 190   | 5 | 18     | 86     | 10.5 | 28.5 | -10.5 | 7.5  | 25   | 45  |
| 3H-212 | A11 | 315 | 110 | 126 | 300 | 235   | 196.87 | 260   | 6 | 22     | 106    | 10   | 32   | -15   | 7    | 28   | 50  |
| 3H-215 | A8  | 405 | 132 | 159 | 380 | 330.2 | 139.72 | 171.4 | 6 | 33     | 145    | 11   | 44   | -14   | 19   | 39   | 60  |
| 3H-215 | A11 | 405 | 132 | 166 | 380 | 330.2 | 196.87 | 235   | 6 | 40     | 145    | 11   | 51   | -14   | 26   | 39   | 60  |
| 3H-215 | A15 | 405 | 132 | 153 | 380 | 330.2 | 285.78 | 330.2 | 6 | 27     | 145    | 11   | 38   | -14   | 13   | 39   | 60  |
| 3H-18B | A15 | 456 | 145 | 166 | 380 | 330.2 | 285.78 | 330.2 | 6 | 27     | 165    | 18   | 45   | -5    | 22   | 40   | 60  |
| 3H-221 | A15 | 530 | 140 | 161 | 380 | 330.2 | 285.78 | 330.2 | 6 | 27     | 180    | 15   | 42   | -13   | 14   | 40   | 80  |
| 3H-224 | A20 | 610 | 145 | 166 | 520 | 463.6 | 412.78 | 463.6 | 6 | 27     | 210    | 15   | 42   | -13   | 14   | 41   | 80  |
| 3H-232 | A20 | 800 | 150 | 170 | 520 | 463.6 | 412.78 | 463.6 | 6 | 27     | 275    | 24   | 51   | -10   | 17   | 42   | 100 |

| Model  | K max. | K Default | L       | L1     | M      | N     | P    | Q max. | Q min. | R max. | R min. | S     | T     | U  |      |       |      |       |
|--------|--------|-----------|---------|--------|--------|-------|------|--------|--------|--------|--------|-------|-------|----|------|-------|------|-------|
| 3H-204 | A4     | M38x1.5   | M32x1.5 | 3~M10  | 16.0   | 15    | 24   | 52     | 14     | 12.75  | 6.75   | 25    | 22.25 | 23 | 10   | 3~M10 |      |       |
| 3H-205 | A4     | M45x1.5   | M40x1.5 | 3~M10  | 14.5   | 14.5  | 31   | 62     | 14     | 20.25  | 6.75   | 29.5  | 26.8  | 25 | 10   | 3~M6  |      |       |
| 3H-206 | A5     | M60x2     | M55x2   | 6~M10  | 16.0   | 16    | 37   | 73     | 20     | 21.25  | 9.25   | 36    | 33    | 31 | 12   | 3~M6  |      |       |
| 3H-208 | A6     | M75x2     | M60x2   | 6~M12  | 17.0   | 15    | 38   | 95     | 25     | 23.7   | 10.2   | 45.7  | 41.9  | 35 | 14   | 3~M6  |      |       |
| 3H-210 | A8     | M95x2     | M85x2   | 6~M16  | 20.0   | 22    | 43   | 110    | 30     | 32.2   | 12.7   | 56.5  | 52.05 | 40 | 16   | 3~M8  |      |       |
| 3H-212 | A11    | M115x2    | M115x2  | 6~M20  | 30.0   | 28    | 51   | 130    | 30     | 44.75  | 14.75  | 67.8  | 62.5  | 50 | 21   | 3~M10 |      |       |
| 3H-215 | A8     | M155x3    | M115x2  | M155x3 | M100x2 | 6~M24 | 36.0 | 24     | 63     | 165    | 43     | 49.75 | 19.75 | 90 | 84.7 | 62    | 25.5 | 6~M16 |
| 3H-215 | A11    | M155x3    | M155x3  | 6~M24  | 36.0   | 31    | 63   | 165    | 43     | 49.75  | 19.75  | 90    | 84.7  | 62 | 25.5 | 6~M20 |      |       |
| 3H-215 | A15    | M155x3    | M155x3  | 6~M24  | 36.0   | 34    | 63   | 165    | 43     | 49.75  | 19.75  | 90    | 84.7  | 62 | 25.5 | 3~M12 |      |       |
| 3H-18B | A15    | M175x3    | M175x3  | 6~M24  | 38.0   | 36    | 63   | 165    | 43     | 64     | 20.5   | 102   | 96.7  | 62 | 25.5 | 3~M12 |      |       |
| 3H-221 | A15    | M190x3    | M190x3  | 6~M24  | 33.0   | 36    | 73   | 180    | 60     | 69.5   | 24.5   | 113.5 | 107.1 | 65 | 25   | 3~M12 |      |       |
| 3H-224 | A20    | M225x3    | M225x3  | 6~M24  | 35.0   | 33    | 73   | 180    | 60     | 93.5   | 24.5   | 128   | 121.5 | 65 | 25   | 3~M12 |      |       |
| 3H-232 | A20    | M295x3    | M295x3  | 6~M24  | 36.0   | 34    | 73   | 180    | 60     | 150.5  | 24.5   | 166   | 157   | 65 | 25   | 3~M12 |      |       |

紅色數據為 3H-2A、3H-BA 型之寸法 (The dimensions and the specifications of 3H-2A,3H-BA type are in red data.)



此中空動力夾頭系列為超大孔徑設計，所推薦 4"~10" 的迴轉缸僅適用於業界標準孔徑之夾頭，請依夾頭孔徑實際需求或安裝界面之不同，選擇其它適用迴轉缸。若有不明瞭之處，請逕洽本公司業務部。

The 3H-2 series are power chucks with extra large thru-hole design.

The rotary cylinders are recommended based on power chucks that from 4"~10" are common used in the industry.

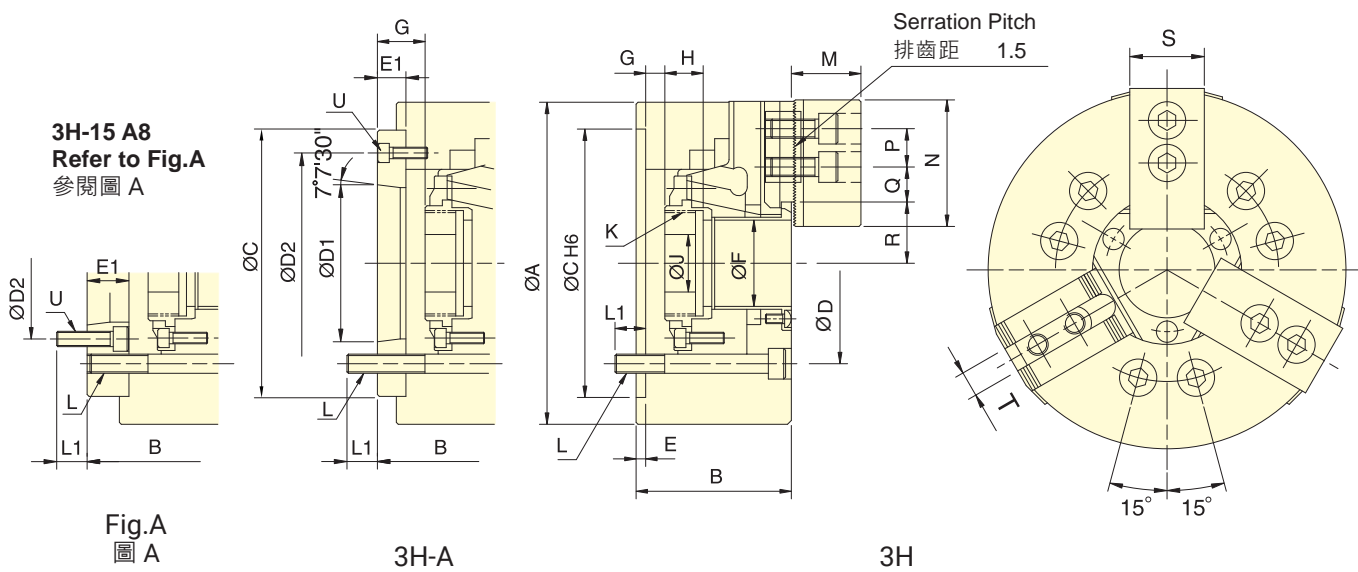
If you find that you need different bore size or installation interface, please just contact us.

We have many standard and customized rotary cylinders for option and meet your needs.

Please contact AUTOGRIP for more detailed information. Thanks.



- 楔形三爪大貫通孔徑。
  - 摺動面均經硬化及精密研磨，並直接潤滑。
  - 高剛性結構及高夾持精度。
  - WEDGE-HOOK type 3-jaw with the large through-hole.
  - Matching surfaces of all parts hardened, ground and lubricated directly.
  - High rigidity and high clamping accuracy.
- J 值為連結螺帽未車製螺牙時之孔徑。  
K Default 值為未指定規格之出廠值。  
K max 值為連結螺帽可車製螺牙之最大規格，可依實際需求訂製。
  - J is the hole diameter of blank draw nut.  
If not notified, AUTOGRIP will adopt the K Default as K value.  
K is the maximum thread specification and it could be customize.



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

### 技術規格 SPECIFICATIONS

| 型號    | 楔心行程           | 爪行程 (直徑)          | 夾持直徑 Chucking Dia. |         | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     | 適用迴轉缸         | 最大使用壓力                     |          |         |
|-------|----------------|-------------------|--------------------|---------|----------------|---------------------|----------------------------|---------------------|--------|---------------|----------------------------|----------|---------|
| Model | Plunger stroke | Jaw stroke (Dia.) | 最大 Max.            | 最小 Min. | Max. D.B. pull | Max. Clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl. | Max. pressure              |          |         |
|       | mm             | mm                | mm                 | mm      | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |               | MPa (kgf/cm <sup>2</sup> ) |          |         |
| 3H-12 | A8             | 25                | 10.6               | 304     | 34             | 54.9(5600)          | 143.7(14650)               | 3300                | 0.77   | 56.6          | 59.3                       | TK-A1291 | 2.5(25) |
| 3H-15 | A8             | 25                | 10.6               | 381     | 50             | 71(7250)            | 179.8(18350)               | 2500                | 2.28   | 120           | 134                        | TK-A1512 | 2.3(23) |
| 3H-15 | A11            | 25                | 10.6               | 381     | 50             | 71(7250)            | 179.8(18350)               | 2500                | 2.28   | 120           | 127                        | TK-A1512 | 2.3(23) |
| 3H-18 | A11            | 25                | 10.6               | 450     | 50             | 71(7250)            | 180.3(18400)               | 2000                | 4.46   | 160           | 174                        | TK-A1512 | 2.3(23) |

### 外型尺寸 DIMENSIONS

| Model | A   | B   | C   | D   | D1  | D2    | E      | E1    | F | G max. |     | G min. |    | H   | J  |    |    |
|-------|-----|-----|-----|-----|-----|-------|--------|-------|---|--------|-----|--------|----|-----|----|----|----|
| 3H-12 | A8  | 304 | 110 | 122 | 220 | 171.4 | 139.72 | 190   | 6 | 18     | 91  | 10     | 28 | -15 | 3  | 28 | 50 |
| 3H-15 | A8  | 381 | 132 | 159 | 300 | 235   | 139.72 | 171.4 | 6 | 33     | 120 | 11     | 44 | -14 | 19 | 39 | 60 |
| 3H-15 | A11 | 381 | 132 | 148 | 300 | 235   | 196.87 | 260   | 6 | 22     | 120 | 11     | 33 | -14 | 8  | 39 | 60 |
| 3H-18 | A11 | 450 | 132 | 148 | 300 | 235   | 196.87 | 260   | 6 | 22     | 120 | 11     | 33 | -14 | 8  | 39 | 60 |

| Model | K max. | K Default |        | L      | L1     | M     | N    | P   | Q max. | Q min. | R max. | R min. | S     | T    | U    |      |            |       |
|-------|--------|-----------|--------|--------|--------|-------|------|-----|--------|--------|--------|--------|-------|------|------|------|------------|-------|
| 3H-12 | A8     | M100x2    |        | 6~M16  | 23     | 25    | 51.3 | 130 | 30     | 44.75  | 14.75  | 61.3   | 56    | 50   | 21   | 3~M8 |            |       |
| 3H-15 | A8     | M130x2    | M115x2 | M130x2 | M100x2 | 6~M20 | 30   | 24  | 63     | 165    | 43     | 49.75  | 19.75 | 77.5 | 72.2 | 62   | 25.5 or 22 | 6~M16 |
| 3H-15 | A11    | M130x2    |        | M130x2 |        | 6~M20 | 30   | 28  | 63     | 165    | 43     | 49.75  | 19.75 | 77.5 | 72.2 | 62   | 25.5 or 22 | 3~M10 |
| 3H-18 | A11    | M130x2    |        | M130x2 |        | 6~M20 | 31   | 29  | 63     | 165    | 43     | 83.5   | 20.5  | 77.5 | 72.2 | 62   | 25.5 or 22 | 3~M10 |

紅色數據為 3H-A 型之寸法 (The dimensions and the specifications of 3H-A type are in red data.)

# 2H/2H-A 中空動力夾頭

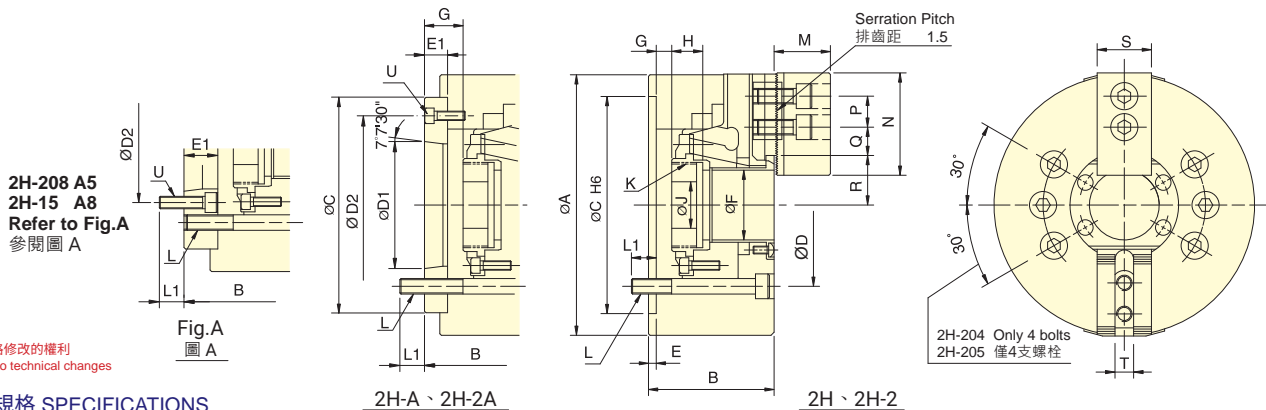
## THRU-HOLE POWER CHUCK

二爪高速中空型

動力夾頭



- 楔形二爪大貫通孔徑，特別適合異形物的夾持。
  - 摺動面均經硬化及精密研磨，並直接潤滑。
  - 高剛性結構及高夾持精度。
  - WEDGE-HOOK type 2-jaw with the large through-hole.
  - Matching surfaces of all parts hardened, ground and lubricated directly.
  - High rigidity and high clamping accuracy.
- J 值為連結螺帽未車製螺牙時之孔徑。  
K Default 值為未指定規格之出廠值。  
K max 值為連結螺帽可車製螺牙之最大規格，可依實際需求訂製。
  - J is the hole diameter of blank draw nut.  
If not notified, AUTOGRIP will adopt the K Default as K value.  
K is the maximum thread specification and it could be customize.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke | 爪行程<br>(直徑)<br>Jaw stroke (Dia.) | 夾持直徑<br>Chuck Dia. |            | 容許最大入力<br>Max. D.B. pull | 最大夾持力<br>Max. Clamping force | 最高迴轉數<br>Max. speed | I<br>Moment of inertia | 重量<br>Weight | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure |          |          |
|-------------|------------------------|----------------------------------|--------------------|------------|--------------------------|------------------------------|---------------------|------------------------|--------------|------------------------|-------------------------|----------|----------|
|             |                        |                                  | 最大<br>Max.         | 最小<br>Min. |                          |                              |                     |                        |              |                        |                         | kN (kgf) | kN (kgf) |
| 2H-204      | A4                     | 13                               | 5.5                | 113        | 7                        | 9.2(940)                     | 19.4(1980)          | 8000                   | 0.012        | 4.2                    | 4.8                     | TK-A528  | 1.3(13)  |
| 2H-205      | A4                     | 13                               | 5.5                | 138        | 10                       | 11.4(1167)                   | 32(3260)            | 7000                   | 0.02         | 6.8                    | 7.6                     | TK-A533  | 1.6(16)  |
| 2H-206      | A5                     | 14                               | 6                  | 170        | 13                       | 15.5(1580)                   | 44.4(4530)          | 6000                   | 0.06         | 13.1                   | 14.9                    | TK-A646  | 1.6(16)  |
| 2H-208      | A5                     | 18                               | 7.6                | 210        | 17                       | 23.1(2360)                   | 57.3(5840)          | 5000                   | 0.17         | 21.3                   | 24.2                    | TK-A853  | 1.8(18)  |
| 2H-208      | A6                     | 18                               | 7.6                | 210        | 17                       | 23.1(2360)                   | 57.3(5840)          | 5000                   | 0.17         | 21.3                   | 22.4                    | TK-A853  | 1.8(18)  |
| 2H-210      | A8                     | 21                               | 8.9                | 260        | 37                       | 32.9(3355)                   | 101.9(10385)        | 4500                   | 0.31         | 33.5                   | 36.2                    | TK-A1075 | 2.2(22)  |
| 2H-12       | A8                     | 23                               | 10.6               | 304        | 34                       | 36.7(3740)                   | 95.8(9780)          | 3300                   | 0.70         | 59.7                   | 62.7                    | TK-A1291 | 1.7(17)  |
| 2H-15       | A8                     | 23                               | 10.6               | 381        | 50                       | 46.9(4790)                   | 119.6(12200)        | 2500                   | 2.42         | 115                    | 129                     | TK-A1512 | 1.5(15)  |
| 2H-15       | A11                    | 23                               | 10.6               | 381        | 50                       | 46.9(4790)                   | 119.6(12200)        | 2500                   | 2.34         | 115                    | 122                     | TK-A1512 | 1.5(15)  |

### 外型尺寸 DIMENSIONS

| Model  | A   | B   | C   | D   | D1  | D2    | E      | E1    | F | G max. | G min. | H    | J    |       |      |      |    |
|--------|-----|-----|-----|-----|-----|-------|--------|-------|---|--------|--------|------|------|-------|------|------|----|
| 2H-204 | A4  | 113 | 59  | 83  | 85  | 70.6  | 63.51  | 82.6  | 4 | 28     | 32     | 3.5  | 31.5 | -9.5  | 18.5 | 17.5 | 12 |
| 2H-205 | A4  | 138 | 60  | 71  | 110 | 82.6  | 63.51  | 96    | 4 | 15     | 39     | 1    | 16   | -12   | 3    | 20   | 12 |
| 2H-206 | A5  | 170 | 81  | 91  | 140 | 104.8 | 82.56  | 116   | 5 | 15     | 53     | 13   | 28   | -1    | 14   | 17.5 | 20 |
| 2H-208 | A5  | 210 | 91  | 109 | 170 | 133.4 | 82.56  | 104.8 | 5 | 23     | 66     | 16.5 | 39.5 | -1.5  | 21.5 | 20   | 30 |
| 2H-208 | A6  | 210 | 91  | 103 | 170 | 133.4 | 106.38 | 150   | 5 | 17     | 66     | 16.5 | 33.5 | -1.5  | 15.5 | 20   | 30 |
| 2H-210 | A8  | 260 | 102 | 115 | 220 | 171.4 | 139.72 | 190   | 5 | 18     | 86     | 10.5 | 28.5 | -10.5 | 7.5  | 25   | 45 |
| 2H-12  | A8  | 304 | 110 | 122 | 220 | 171.4 | 139.72 | 190   | 6 | 18     | 91     | 8    | 26   | -15   | 3    | 28   | 50 |
| 2H-15  | A8  | 381 | 133 | 160 | 300 | 235   | 139.72 | 171.4 | 6 | 33     | 120    | 11   | 44   | -12   | 21   | 39   | 60 |
| 2H-15  | A11 | 381 | 133 | 149 | 300 | 235   | 196.87 | 260   | 6 | 22     | 120    | 11   | 33   | -12   | 10   | 39   | 60 |

| Model  | K max. | K Default | L       | L1     | M      | N     | P  | Q max. | Q min. | R max. | R min. | S    | T     | U  |            |       |            |       |
|--------|--------|-----------|---------|--------|--------|-------|----|--------|--------|--------|--------|------|-------|----|------------|-------|------------|-------|
| 2H-204 | A4     | M38x1.5   | M32x1.5 | 4-M10  | 16     | 15    | 24 | 52     | 14     | 12.75  | 6.75   | 25   | 22.25 | 23 | 10         | 3-M10 |            |       |
| 2H-205 | A4     | M45x1.5   | M40x1.5 | 4-M10  | 14.5   | 14.5  | 31 | 62     | 14     | 20.25  | 6.75   | 29.5 | 26.75 | 25 | 10         | 3-M6  |            |       |
| 2H-206 | A5     | M60x2     | M55x2   | 6-M10  | 16     | 16    | 37 | 73     | 20     | 22.75  | 9.25   | 36   | 33    | 31 | 12         | 3-M6  |            |       |
| 2H-208 | A5     | M75x2     | M60x2   | 6-M12  | 17     | 18    | 38 | 95     | 25     | 23.7   | 10.2   | 45.7 | 41.9  | 35 | 14         | 6-M10 |            |       |
| 2H-208 | A6     | M75x2     | M60x2   | 6-M12  | 17     | 15    | 38 | 95     | 25     | 23.7   | 10.2   | 45.7 | 41.9  | 35 | 14         | 3-M6  |            |       |
| 2H-210 | A8     | M95x2     | M85x2   | 6-M16  | 20     | 22    | 43 | 110    | 30     | 32.2   | 12.7   | 56.5 | 52.05 | 40 | 16         | 3-M8  |            |       |
| 2H-12  | A8     | M100x2    | M100x2  | 6-M16  | 23     | 25    | 51 | 130    | 30     | 45.8   | 15.8   | 61.3 | 56    | 50 | 21         | 3-M8  |            |       |
| 2H-15  | A8     | M130x2    | M115x2  | M130x2 | M100x2 | 6-M20 | 30 | 24     | 63     | 165    | 43     | 47.3 | 18.2  | 80 | 74.7       | 62    | 25.5 or 22 | 6-M16 |
| 2H-15  | A11    | M130x2    | M130x2  | 6-M20  | 30     | 28    | 63 | 165    | 43     | 47.3   | 18.2   | 80   | 74.7  | 62 | 25.5 or 22 | 3-M10 |            |       |

紅色數據為 2H-A、2H-2A 型之寸法 (The dimensions and the specifications of 2H-A、2H-2A type are in red data.)

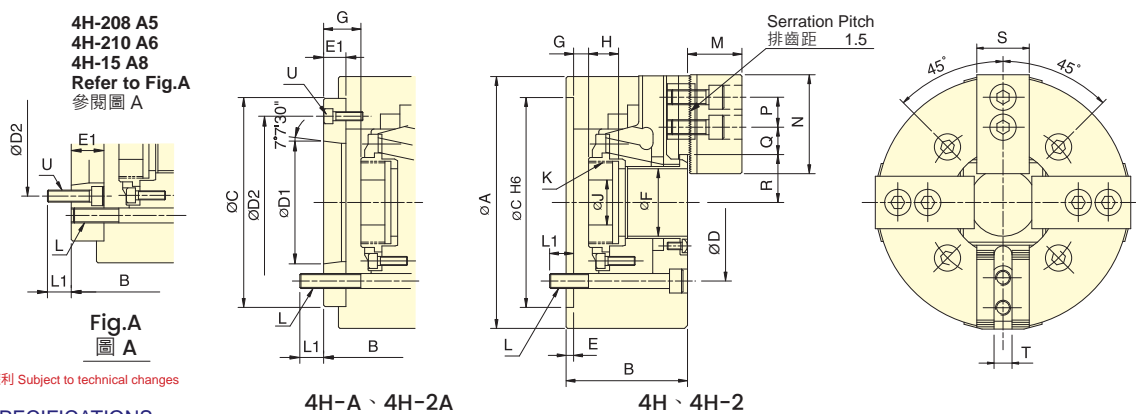
# 4H/4H-A 中空動力夾頭 THRU-HOLE POWER CHUCK

四爪高速中空型

動力夾頭



- 楔形四爪大貫通孔徑，特別適合異形物的夾持。
  - 摺動面均經硬化及精密研磨，並直接潤滑。
  - 高剛性結構及高夾持精度。
  - WEDGE-HOOK type 4-jaw with the large through-hole.
  - Matching surfaces of all parts hardened, ground and lubricated directly.
  - High rigidity and high clamping accuracy.
- J 值為連結螺帽未車製螺牙時之孔徑。  
K Default 值為未指定規格之出廠值。  
K max 值為連結螺帽可車製螺牙之最大規格，可依實際需求訂製。
- J is the hole diameter of blank draw nut.  
If not notified, AUTOGRIP will adopt the K Default as K value.  
K is the maximum thread specification and it could be customize.



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

## 技術規格 SPECIFICATIONS

| 型號     | 楔心行程           | 爪行程 (直徑)          | 夾持直徑 (直徑) |     | 容許最大入力   | 最大夾持力      | 最高迴轉數                      | I                   | 重量   | 適用迴轉缸 | 最大使用壓力                     |                |                     |
|--------|----------------|-------------------|-----------|-----|----------|------------|----------------------------|---------------------|------|-------|----------------------------|----------------|---------------------|
|        |                |                   | 最大        | 最小  |          |            |                            |                     |      |       |                            | Max. D.B. pull | Max. Clamping force |
| Model  | Plunger stroke | Jaw stroke (Dia.) | mm        | mm  | kN (kgf) | kN (kgf)   | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg   |       | MPa (kgf/cm <sup>2</sup> ) |                |                     |
| 4H-206 | A5             | 14                | 6.0       | 170 | 13       | 23.2(2375) | 66.7(6810)                 | 5000                | 0.06 | 12.5  | 16.7                       | TK-C646        | 2.5(25)             |
| 4H-208 | A5             | 18                | 7.6       | 210 | 17       | 34.3(3500) | 85.8(8750)                 | 4200                | 0.19 | 23.5  | 25.4                       | TK-A853        | 2.8(28)             |
| 4H-208 | A6             | 18                | 7.6       | 210 | 17       | 34.3(3500) | 85.8(8750)                 | 4200                | 0.19 | 23.5  | 24.3                       | TK-A853        | 2.8(28)             |
| 4H-210 | A6             | 21                | 8.9       | 260 | 37       | 49.1(5010) | 110.7(11300)               | 3800                | 0.4  | 38.7  | 44                         | TK-A1075       | 3.2(32)             |
| 4H-210 | A8             | 21                | 8.9       | 260 | 37       | 49.1(5010) | 110.7(11300)               | 3800                | 0.4  | 38.7  | 42.3                       | TK-A1075       | 3.2(32)             |
| 4H-12  | A8             | 25                | 10.6      | 304 | 34       | 54.9(5600) | 143.6(14650)               | 2700                | 0.77 | 62    | 65.7                       | TK-A1291       | 2.5(25)             |
| 4H-15  | A8             | 23                | 10.6      | 381 | 50       | 71(7250)   | 179.8(18350)               | 2000                | 2.5  | 123.7 | 137.7                      | TK-A1512       | 2.3(23)             |
| 4H-15  | A11            | 23                | 10.6      | 381 | 50       | 71(7250)   | 179.8(18350)               | 2000                | 2.42 | 123.7 | 130.7                      | TK-A1512       | 2.3(23)             |
| 4H-18  | A11            | 23                | 10.6      | 450 | 50       | 71(7250)   | 179.8(18350)               | 1700                | 4.85 | 170   | 184                        | TK-A1512       | 2.3(23)             |

## 外型尺寸 DIMENSIONS

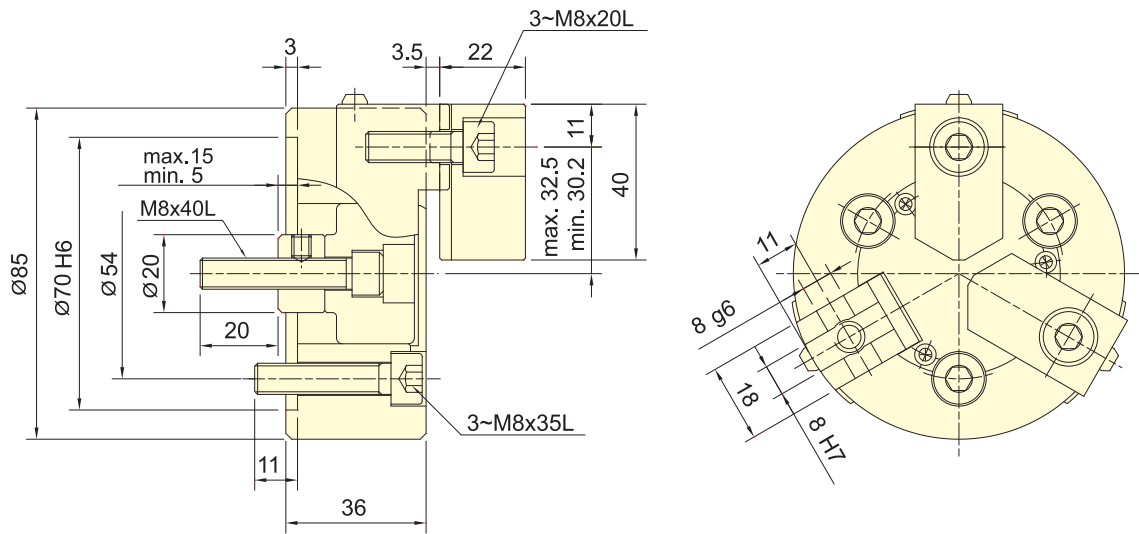
| Model  | A   | B   | C   | D   | D1  | D2    | E      | E1    | F | G max. | G min. | H    | J    |       |      |      |    |
|--------|-----|-----|-----|-----|-----|-------|--------|-------|---|--------|--------|------|------|-------|------|------|----|
| 4H-206 | A5  | 170 | 81  | 91  | 140 | 104.8 | 82.56  | 116   | 5 | 15     | 53     | 13   | 28   | -1    | 14   | 17.5 | 20 |
| 4H-208 | A5  | 210 | 91  | 109 | 170 | 133.4 | 82.56  | 104.8 | 5 | 23     | 66     | 16.5 | 39.5 | -1.5  | 21.5 | 20.5 | 30 |
| 4H-208 | A6  | 210 | 91  | 103 | 170 | 133.4 | 106.38 | 150   | 5 | 17     | 66     | 16.5 | 33.5 | -1.5  | 15.5 | 20.5 | 30 |
| 4H-210 | A6  | 260 | 102 | 122 | 220 | 171.4 | 106.38 | 133.4 | 5 | 25     | 86     | 10.5 | 35.5 | -10.5 | 14.5 | 25   | 45 |
| 4H-210 | A8  | 260 | 102 | 115 | 220 | 171.4 | 139.72 | 190   | 5 | 18     | 86     | 10.5 | 28.5 | -10.5 | 7.5  | 25   | 45 |
| 4H-12  | A8  | 304 | 110 | 122 | 220 | 171.4 | 139.72 | 190   | 6 | 18     | 91     | 10   | 28   | -15   | 3    | 28   | 50 |
| 4H-15  | A8  | 381 | 133 | 160 | 300 | 235   | 139.72 | 171.4 | 6 | 33     | 120    | 11   | 44   | -12   | 21   | 39   | 60 |
| 4H-15  | A11 | 381 | 133 | 149 | 300 | 235   | 196.87 | 260   | 6 | 22     | 120    | 11   | 33   | -12   | 10   | 39   | 60 |
| 4H-18  | A11 | 450 | 133 | 149 | 300 | 235   | 196.87 | 260   | 6 | 22     | 120    | 11   | 33   | -12   | 10   | 39   | 60 |

| Model  | K max. | K Default | L      | L1     | M      | N     | P    | Q max. | Q min. | R max. | R min. | S    | T     | U  |            |       |            |       |
|--------|--------|-----------|--------|--------|--------|-------|------|--------|--------|--------|--------|------|-------|----|------------|-------|------------|-------|
| 4H-206 | A5     | M60x2     | M55x2  | 4~M10  | 16     | 16    | 37   | 73     | 20     | 21.25  | 9.25   | 36   | 33    | 31 | 12         | 3~M6  |            |       |
| 4H-208 | A5     | M75x2     | M60x2  | 4~M12  | 17     | 18    | 38   | 95     | 25     | 23.7   | 10.2   | 45.7 | 41.9  | 35 | 14         | 6~M10 |            |       |
| 4H-208 | A6     | M75x2     | M60x2  | 4~M12  | 17     | 15    | 38   | 95     | 25     | 23.7   | 10.2   | 45.7 | 41.9  | 35 | 14         | 3~M6  |            |       |
| 4H-210 | A6     | M95x2     | M85x2  | 4~M16  | 20     | 18    | 43   | 110    | 30     | 32.2   | 12.7   | 56.5 | 52.05 | 40 | 16         | 6~M12 |            |       |
| 4H-210 | A8     | M95x2     | M85x2  | 4~M16  | 20     | 22    | 43   | 110    | 30     | 32.2   | 12.7   | 56.5 | 52.05 | 40 | 16         | 3~M8  |            |       |
| 4H-12  | A8     | M100x2    | M100x2 | 4~M16  | 23     | 25    | 51.3 | 130    | 30     | 44.75  | 14.75  | 61.3 | 56    | 50 | 21         | 3~M8  |            |       |
| 4H-15  | A8     | M130x2    | M115x2 | M130x2 | M100x2 | 4~M20 | 30   | 24     | 63     | 165    | 43     | 47.5 | 20.5  | 80 | 74.7       | 62    | 25.5 or 22 | 6~M16 |
| 4H-15  | A11    | M130x2    | M130x2 | 4~M20  | 30     | 28    | 63   | 165    | 43     | 47.5   | 20.5   | 80   | 74.7  | 62 | 25.5 or 22 | 3~M10 |            |       |
| 4H-18  | A11    | M130x2    | M130x2 | 4~M20  | 30     | 28    | 63   | 165    | 43     | 83.5   | 20.5   | 80   | 74.7  | 62 | 25.5 or 22 | 3~M10 |            |       |

紅色數據為 4H-A 型之寸法 (The dimensions and the specifications of 4H-A type are in red data.)



- 楔形三爪小型中實夾頭。
- 摺動面均經硬化及精密研磨，並直接潤滑。
- 適合使用於桌上型車床。
- WEDGE-HOOK type 3-jaw mini power chuck.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- Suitable for bench lathe.

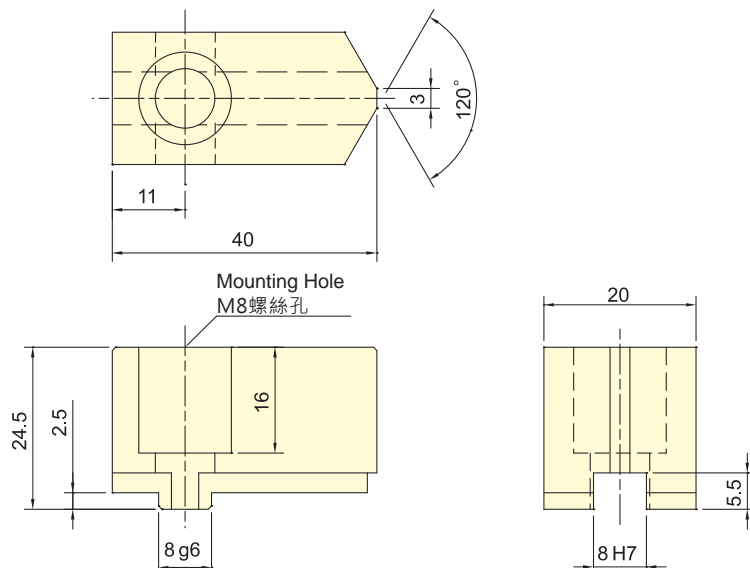


保留規格修改的權利  
Subject to technical changes

### 技術規格 SPECIFICATIONS

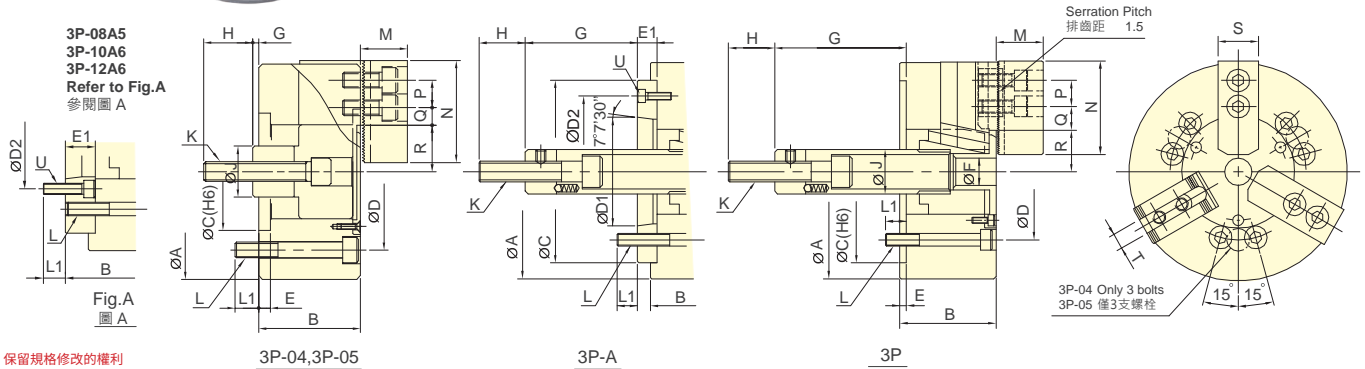
| 型號<br>Model  | 楔心行程<br>Plunger stroke | 爪行程<br>(直徑)<br>Jaw stroke (Dia.) | 夾持直徑<br>Chucking Dia. |            | 容許最大入力<br>Max. D.B. pull | 最大夾持力<br>Max. Clamping force | 最高迴轉數<br>Max. speed        | I                   | 重量<br>Weight | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure    |
|--------------|------------------------|----------------------------------|-----------------------|------------|--------------------------|------------------------------|----------------------------|---------------------|--------------|------------------------|----------------------------|
|              | mm                     | mm                               | 最大<br>Max.            | 最小<br>Min. | kN (kgf)                 | kN (kgf)                     | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg           |                        | MPa (kgf/cm <sup>2</sup> ) |
| <b>3P-03</b> | 10                     | 4.6                              | 85                    | 3          | 4.5(460)                 | 11.3(1150)                   | 7000                       | 0.004               | 1.8          | RK-75                  | 1.2(12.4)                  |

搭配之標準生爪 Standard Soft Jaw For 3P-03 Power Chuck  
SJ-K03





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



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持直徑<br>Chuck Dia. |                  | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping<br>force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment<br>of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用<br>壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |  |
|-------------|------------------------------|---|--------------------|------------------|--------------------------------------|---|---|--|--------------------|------------------------|---|--|
|             |                              |   | 最大<br>Max.<br>mm   | 最小<br>Min.<br>mm |                                      |   |   |  |                    |                        |   |  |
| 3P-04       | 15                           | 6.9                                       | 110                | 5                | 8.1(830)                             | 22.5(2300)                                  | 6000  | 0.01   | 4.1                | -                      | RK-75(N)<br>RA-130<br>2.2(22)<br>0.6(6)                   |  |
| 3P-05       | 15                           | 6.9                                       | 135                | 14               | 8.1(830)                             | 25(2550)                                    | 5500  | 0.02   | 6.2                | -                      | RK-75(N)<br>RA-130<br>2.2(22)<br>0.6(6)                   |  |
| 3P-06       | A5                           | 20  | 9.2                | 165              | 16                                   | 17.9(1830)                                  | 52.4(5350)  | 5250   | 0.05               | 13                     | 14  | RK-100(N)<br>RA-170<br>2.6(26)<br>0.6(6) |
| 3P-08       | A5                           | 21  | 9.7                | 210              | 21                                   | 25(2550)                                    | 74.5(7600)  | 4750   | 0.14               | 24                     | 28  | RK-125(N)<br>RA-220<br>2.3(23)<br>0.5(5) |
| 3P-08       | A6                           | 21  | 9.7                | 210              | 21                                   | 25(2550)                                    | 74.5(7600)  | 4750   | 0.14               | 24                     | 27  | RK-125(N)<br>RA-220<br>2.3(23)<br>0.5(5) |
| 3P-10       | A6                           | 25  | 8.8                | 254              | 24                                   | 28.9(2950)                                  | 107.8(11000)                                      | 4000   | 0.3                | 35                     | 42  | RK-125(N)<br>RA-220<br>2.6(26)<br>0.6(6) |
| 3P-10       | A8                           | 25  | 8.8                | 254              | 24                                   | 28.9(2950)                                  | 107.8(11000)                                      | 4000   | 0.3                | 35                     | 40  | RK-125(N)<br>RA-220<br>2.6(26)<br>0.6(6) |
| 3P-12       | A6                           | 30  | 10.5               | 304              | 24                                   | 41(4180)                                    | 155.8(15900)                                      | 3360   | 0.73               | 59                     | 65  | RK-150(N)<br>RA-270<br>2.6(26)<br>0.8(8) |
| 3P-12       | A8                           | 30  | 10.5               | 304              | 24                                   | 41(4180)                                    | 155.8(15900)                                      | 3360   | 0.73               | 59                     | 63  | RK-150(N)<br>RA-270<br>2.6(26)<br>0.8(8) |

### 外型尺寸 DIMENSIONS

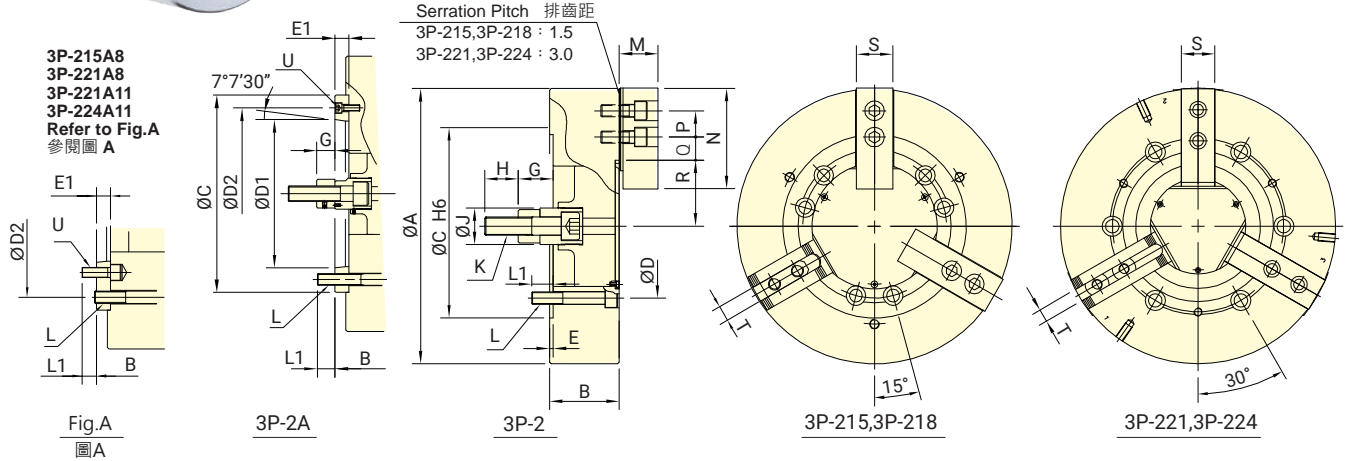
| Model | A   | B   | C   | D   | D1    | D2     | E     | E1 | F  | G max. | G min. | H    | J    |      |    |    |
|-------|-----|-----|-----|-----|-------|--------|-------|----|----|--------|--------|------|------|------|----|----|
| 3P-04 | 110 | 52  | -   | 60  | 80    | -      | -     | 6  | -  | 18     | -      | 25   | 26   |      |    |    |
| 3P-05 | 135 | 55  | -   | 80  | 100   | -      | -     | 7  | -  | 9      | -6     | 35   | 28   |      |    |    |
| 3P-06 | A5  | 165 | 84  | 140 | 104.8 | 82.56  | 116   | 5  | 15 | 21     | 102.6  | 87.6 | 82.6 | 67.6 | 35 | 34 |
| 3P-08 | A5  | 210 | 103 | 170 | 133.4 | 82.56  | 104.8 | 5  | 23 | 25     | 127    | 104  | 106  | 83   | 36 | 38 |
| 3P-08 | A6  | 210 | 97  | 170 | 133.4 | 106.38 | 150   | 5  | 17 | 25     | 127    | 110  | 106  | 89   | 36 | 38 |
| 3P-10 | A6  | 254 | 109 | 220 | 171.4 | 106.38 | 133.4 | 5  | 25 | 34     | 158    | 133  | 133  | 108  | 36 | 45 |
| 3P-10 | A8  | 254 | 102 | 220 | 171.4 | 139.72 | 190   | 5  | 18 | 34     | 158    | 140  | 133  | 115  | 36 | 45 |
| 3P-12 | A6  | 304 | 125 | 220 | 171.4 | 106.38 | 133.4 | 6  | 25 | 34     | 163    | 138  | 133  | 108  | 36 | 50 |
| 3P-12 | A8  | 304 | 118 | 220 | 171.4 | 139.72 | 190   | 6  | 18 | 34     | 163    | 145  | 133  | 115  | 36 | 50 |

| Model | K        | L       | L1    | M  | N  | P  | Q max. | Q min. | R max. | R min. | S     | T     | U  |          |       |
|-------|----------|---------|-------|----|----|----|--------|--------|--------|--------|-------|-------|----|----------|-------|
| 3P-04 | M10x1.5  | 3~M8    | 12    | -  | 24 | 52 | 14     | 11.2   | 6.7    | 23.6   | 20.15 | 23    | 10 | -        |       |
| 3P-05 | M12x1.75 | 3~M8    | 14    | -  | 31 | 62 | 14     | 15.7   | 5.2    | 30.4   | 26.95 | 25    | 10 | -        |       |
| 3P-06 | A5       | M16x2   | 6~M10 | 14 | 14 | 37 | 73     | 20     | 18.25  | 9.25   | 38.25 | 33.65 | 31 | 12       | 3~M6  |
| 3P-08 | A5       | M20x2.5 | 6~M12 | 20 | 17 | 38 | 95     | 25     | 25.25  | 11.75  | 46.3  | 41.45 | 35 | 14       | 6~M10 |
| 3P-08 | A6       | M20x2.5 | 6~M12 | 20 | 18 | 38 | 95     | 25     | 25.25  | 11.75  | 46.3  | 41.45 | 35 | 14       | 3~M6  |
| 3P-10 | A6       | M20x2.5 | 6~M16 | 18 | 18 | 43 | 110    | 30     | 35.25  | 12.75  | 51.1  | 46.7  | 40 | 16       | 6~M12 |
| 3P-10 | A8       | M20x2.5 | 6~M16 | 18 | 25 | 43 | 110    | 30     | 35.25  | 12.75  | 51.1  | 46.7  | 40 | 16       | 3~M8  |
| 3P-12 | A6       | M20x2.5 | 6~M16 | 18 | 18 | 51 | 130    | 30     | 48.75  | 12.75  | 61    | 55.75 | 50 | 18 or 21 | 6~M12 |
| 3P-12 | A8       | M20x2.5 | 6~M16 | 18 | 25 | 51 | 130    | 30     | 48.75  | 12.75  | 61    | 55.75 | 50 | 18 or 21 | 3~M8  |

紅色數據為 3P-A 型之尺寸 (The dimensions and the specifications of 3P-A type are in red data.)



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



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke | 爪行程<br>(直徑)<br>Jaw stroke (Dia.) | 夾持直徑<br>Chuck Dia. |            | 容許最大入力<br>Max. D.B. pull | 最大夾持力<br>Max. Clamping force | 最高迴轉數<br>Max. speed | I<br>Moment of inertia | 重量<br>Weight | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure |
|-------------|------------------------|----------------------------------|--------------------|------------|--------------------------|------------------------------|---------------------|------------------------|--------------|------------------------|-------------------------|
|             |                        |                                  | 最大<br>Max.         | 最小<br>Min. |                          |                              |                     |                        |              |                        |                         |
| 3P-215 A8   | 35                     | 16                               | 381                | 50         | 82(8360)                 | 249(25390)                   | 3000                | 1.8                    | 109.9        | RH-200 or RK-200(N)    | 2.8(28)                 |
| 3P-215 A11  | 35                     | 16                               | 381                | 50         | 82(8360)                 | 249(25390)                   | 3000                | 1.8                    | 109.9        | RH-200 or RK-200(N)    | 2.8(28)                 |
| 3P-218 A11  | 35                     | 16                               | 450                | 60         | 82(8360)                 | 249(25400)                   | 2800                | 2.32                   | 124          | RH-200 or RK-200(N)    | 2.8(28)                 |
| 3P-221 A8   | 35                     | 16                               | 530                | 59         | 82(8360)                 | 272.6(27800)                 | 1900                | 4.9                    | 177          | RH-200 or RK-200(N)    | 2.8(28)                 |
| 3P-221 A11  | 35                     | 16                               | 530                | 59         | 82(8360)                 | 272.6(27800)                 | 1900                | 4.9                    | 177          | RH-200 or RK-200(N)    | 2.8(28)                 |
| 3P-224 A11  | 35                     | 16                               | 610                | 152        | 82(8360)                 | 272.6(27800)                 | 1750                | 7                      | 230          | RH-200 or RK-200(N)    | 2.8(28)                 |
| 3P-224 A15  | 35                     | 16                               | 610                | 152        | 82(8360)                 | 272.6(27800)                 | 1750                | 7                      | 230          | RH-200 or RK-200(N)    | 2.8(28)                 |

### 外型尺寸 DIMENSIONS

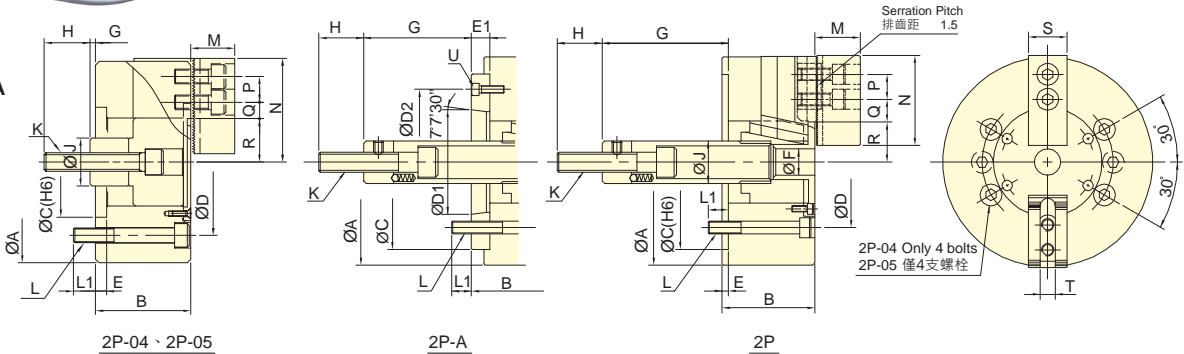
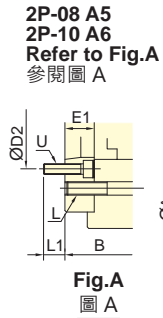
| Model      | A   | B   | C   | D   | D1    | D2     | E     | E1 | G max. | G min. | H  | J  | K  |    |    |         |
|------------|-----|-----|-----|-----|-------|--------|-------|----|--------|--------|----|----|----|----|----|---------|
| 3P-215 A8  | 381 | 114 | 141 | 300 | 235   | 139.72 | 171.4 | 6  | 33     | 104    | 71 | 69 | 36 | 55 | 60 | M30x3.5 |
| 3P-215 A11 | 381 | 114 | 130 | 300 | 235   | 196.87 | 260   | 6  | 22     | 104    | 82 | 69 | 47 | 55 | 60 | M30x3.5 |
| 3P-218 A11 | 450 | 114 | 130 | 300 | 235   | 196.87 | 260   | 6  | 22     | 92     | 70 | 57 | 35 | 55 | 60 | M30x3.5 |
| 3P-221 A8  | 530 | 125 | 152 | 380 | 330.2 | 139.72 | 171.4 | 6  | 33     | 97     | 64 | 62 | 29 | 55 | 60 | M30x3.5 |
| 3P-221 A11 | 530 | 125 | 146 | 380 | 330.2 | 196.87 | 235   | 6  | 27     | 97     | 70 | 62 | 35 | 55 | 60 | M30x3.5 |
| 3P-224 A11 | 610 | 125 | 146 | 380 | 330.2 | 196.87 | 235   | 6  | 27     | 97     | 70 | 62 | 35 | 55 | 60 | M30x3.5 |
| 3P-224 A15 | 610 | 125 | 146 | 380 | 330.2 | 285.78 | 330.2 | 6  | 27     | 97     | 70 | 62 | 35 | 55 | 60 | M30x3.5 |

| Model      | L     | L1 | M  | N    | P   | Q max. | Q min. | R max. | R min. | S    | T  | U    |       |
|------------|-------|----|----|------|-----|--------|--------|--------|--------|------|----|------|-------|
| 3P-215 A8  | 6~M20 | 30 | 24 | 63.3 | 165 | 43     | 51.25  | 18.25  | 77.5   | 69.5 | 62 | 25.5 | 6-M16 |
| 3P-215 A11 | 6~M20 | 30 | 33 | 63.3 | 165 | 43     | 51.25  | 18.25  | 77.5   | 69.5 | 62 | 25.5 | 3-M10 |
| 3P-218 A11 | 6~M20 | 35 | 33 | 63.3 | 165 | 43     | 52.75  | 18.25  | 108    | 100  | 62 | 25.5 | 3-M10 |
| 3P-221 A8  | 6~M24 | 31 | 24 | 71   | 180 | 60     | 96.5   | 24.5   | 86     | 78   | 65 | 25   | 6-M16 |
| 3P-221 A11 | 6~M24 | 31 | 28 | 71   | 180 | 60     | 96.5   | 24.5   | 86     | 78   | 65 | 25   | 6-M20 |
| 3P-224 A11 | 6~M24 | 31 | 28 | 71   | 180 | 60     | 96.5   | 24.5   | 125    | 117  | 65 | 25   | 6-M20 |
| 3P-224 A15 | 6~M24 | 31 | 34 | 71   | 180 | 60     | 96.5   | 24.5   | 125    | 117  | 65 | 25   | 3-M12 |

紅色數據為 3P-A 型之寸法 (The dimensions and the specifications of 3P-A type are in red data.)



- 楔形二爪中實夾頭。
- 摺動面均經硬化及精密研磨，並直接潤滑。
- 高剛性結構及高夾持精度。
- WEDGE-HOOK type 2-jaw power chuck.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- High rigidity and high clamping accuracy.



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

### 技術規格 SPECIFICATIONS

| 型號    | 楔子行程           | 爪行程<br>(直徑)       | 夾持直徑<br>Chuck Dia. |         | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     | 適用迴轉缸         | 最大使用壓力                     |                   |
|-------|----------------|-------------------|--------------------|---------|----------------|---------------------|----------------------------|---------------------|--------|---------------|----------------------------|-------------------|
| Model | Plunger stroke | Jaw stroke (Dia.) | 最大 Max.            | 最小 Min. | Max. D.B. pull | Max. Clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl. | Max. pressure              |                   |
|       | mm             | mm                | mm                 | mm      | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |               | MPa (kgf/cm <sup>2</sup> ) |                   |
| 2P-04 | 15             | 6.9               | 110                | 5       | 5.3(540)       | 14.7(1500)          | 6000                       | 0.01                | 3.8    | -             | 1.5(15)<br>0.4(4)          |                   |
| 2P-05 | 15             | 6.9               | 135                | 14      | 5.3(540)       | 16.7(1700)          | 5500                       | 0.02                | 5.8    | -             | 1.5(15)<br>0.4(4)          |                   |
| 2P-06 | A5             | 20                | 9.2                | 165     | 14             | 12(1220)            | 35(3570)                   | 5250                | 0.04   | 12            | 13                         | 1.7(17)<br>0.4(4) |
| 2P-08 | A5             | 21                | 9.7                | 210     | 17             | 16.5(1680)          | 50(5100)                   | 4750                | 0.13   | 22            | 26                         | 1.5(15)<br>0.4(4) |
| 2P-08 | A6             | 21                | 9.7                | 210     | 17             | 16.5(1680)          | 50(5100)                   | 4750                | 0.13   | 22            | 25                         | 1.5(15)<br>0.4(4) |
| 2P-10 | A6             | 25                | 8.8                | 254     | 22             | 19.4(1980)          | 71.5(7300)                 | 4000                | 0.29   | 33            | 42                         | 1.8(18)<br>0.4(4) |
| 2P-10 | A8             | 25                | 8.8                | 254     | 22             | 19.4(1980)          | 71.5(7300)                 | 4000                | 0.29   | 33            | 40                         | 1.8(18)<br>0.4(4) |
| 2P-12 | A8             | 30                | 10.5               | 304     | 22             | 27.4(2800)          | 103.9(10600)               | 3360                | 0.70   | 57            | 61                         | 1.7(17)           |
| 2P-15 | A11            | 35                | 16                 | 381     | 50             | 54.9(5600)          | 164.6(16800)               | 3000                | 1.70   | 96            | 103                        | 1.9(19)           |

### 外型尺寸 DIMENSIONS

| Model | A   | B   | C   | D   | D1    | D2     | E     | E1 | F  | G max. | G min. | H    | J  |
|-------|-----|-----|-----|-----|-------|--------|-------|----|----|--------|--------|------|----|
| 2P-04 | 110 | 52  | -   | 60  | 80    | -      | -     | 6  | -  | 18     | -      | 3    | 26 |
| 2P-05 | 135 | 55  | -   | 80  | 100   | -      | -     | 7  | -  | 9      | -      | 6    | 28 |
| 2P-06 | A5  | 165 | 74  | 84  | 104.8 | 82.56  | 116   | 5  | 15 | 21     | 102.6  | 87.6 | 34 |
| 2P-08 | A5  | 210 | 85  | 103 | 133.4 | 82.56  | 104.8 | 5  | 23 | 25     | 127    | 104  | 38 |
| 2P-08 | A6  | 210 | 85  | 97  | 133.4 | 106.38 | 150   | 5  | 17 | 25     | 127    | 110  | 38 |
| 2P-10 | A6  | 254 | 89  | 109 | 171.4 | 106.38 | 133.4 | 5  | 25 | 34     | 158    | 133  | 45 |
| 2P-10 | A8  | 254 | 89  | 102 | 171.4 | 139.72 | 190   | 5  | 18 | 34     | 158    | 140  | 45 |
| 2P-12 | A8  | 304 | 106 | 118 | 171.4 | 139.72 | 190   | 6  | 18 | 34     | 163    | 145  | 50 |
| 2P-15 | A11 | 381 | 114 | 130 | 235   | 196.87 | 260   | 6  | 22 | -      | 104    | 82   | 60 |

| Model | K        | L       | L1    | M  | N  | P   | Q max. | Q min. | R max. | R min. | S  | T        | U     |
|-------|----------|---------|-------|----|----|-----|--------|--------|--------|--------|----|----------|-------|
| 2P-04 | M10x1.5  | 4~M8    | 12    | -  | 24 | 52  | 11.3   | 8.3    | 23.3   | 20.15  | 23 | 10       | -     |
| 2P-05 | M12x1.75 | 4~M8    | 14    | -  | 31 | 62  | 13.5   | 6      | 30.4   | 26.95  | 25 | 10       | -     |
| 2P-06 | A5       | M16x2   | 6~M10 | 14 | 14 | 73  | 20     | 18.25  | 38.25  | 33.65  | 31 | 12       | 3~M6  |
| 2P-08 | A5       | M20x2.5 | 6~M12 | 20 | 17 | 95  | 25     | 22.3   | 46.3   | 41.45  | 35 | 14       | 6~M10 |
| 2P-08 | A6       | M20x2.5 | 6~M12 | 20 | 18 | 95  | 25     | 22.3   | 46.3   | 41.45  | 35 | 14       | 3~M6  |
| 2P-10 | A6       | M20x2.5 | 6~M16 | 18 | 18 | 110 | 30     | 30.8   | 51.1   | 46.7   | 40 | 16       | 6~M12 |
| 2P-10 | A8       | M20x2.5 | 6~M16 | 18 | 25 | 110 | 30     | 30.8   | 51.1   | 46.7   | 40 | 16       | 6~M8  |
| 2P-12 | A8       | M20x2.5 | 6~M16 | 18 | 25 | 130 | 30     | 48.5   | -      | -      | 50 | 18 or 21 | 6~M8  |
| 2P-15 | A11      | M30x3.5 | 6~M20 | 30 | 33 | 165 | 43     | 48.8   | 77.5   | 69.5   | 62 | 25.5     | 3~M10 |

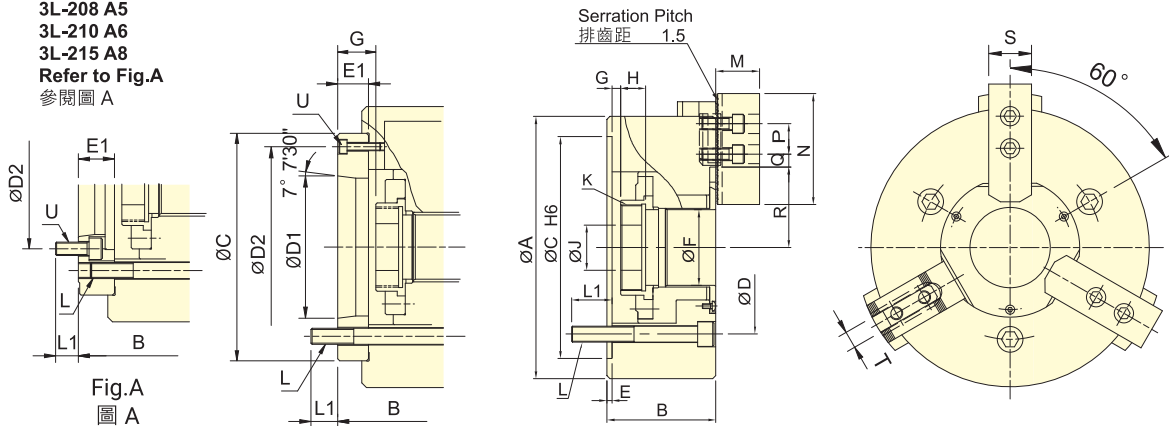
紅色數據為 2P-A 型之寸法 (The dimensions and the specifications of 2P-A type are in red data.)





- 曲柄型三爪超大貫通孔徑·超長爪行程。
  - 摺動面均經硬化及精密研磨·並直接潤滑。
  - 高剛性結構及高夾持精度。
  - CRANK type 3-jaw with the large through-hole and extra long jaw stroke.
  - Matching surfaces of all parts hardened, ground and lubricated directly.
  - High rigidity and high clamping accuracy.
- J 值為連結螺帽未車製螺牙時之孔徑。  
K max 值為連結螺帽可車製螺牙之最大規格,可依實際需求訂製。
- J is the hole diameter of blank draw nut .  
K is the maximum thread specification and it could be customize.

3L-208 A5  
3L-210 A6  
3L-215 A8  
Refer to Fig.A  
參閱圖 A



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

| 型號<br>Model | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持直徑<br>Chucking Dia. |          | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |             |         |
|-------------|------------------------------|---|-----------------------|----------|--------------------------------------|--|---|---|--------------------|------------------------|---|-------------|---------|
|             |                              |   | 最大<br>mm              | 最小<br>mm |                                      |  |   |   |                    |                        |   |             |         |
| 3L-205      | A4                           | 12  | 18                    | 138      | 6                                    | 15.6(1590)                               | 17.2(1750)  | 4200  | 0.019              | 7.2                    | 8   | TK-A533     | 2.3(23) |
| 3L-206      | A5                           | 15  | 24                    | 170      | 24                                   | 23.5(2400)                               | 26.0(2650)  | 3600  | 0.063              | 14.7                   | 15.9  | TK-C646     | 2.7(27) |
| 3L-208      | A5                           | 20  | 32                    | 215      | 30                                   | 34.3(3500)                               | 35.0(3570)  | 3000  | 0.18               | 23                     | 25.7  | TK-A853     | 2.8(28) |
| 3L-208      | A6                           | 20  | 32                    | 215      | 30                                   | 34.3(3500)                               | 35.0(3570)  | 3000  | 0.18               | 23                     | 24.6  | TK-A853     | 2.8(28) |
| 3L-210      | A6                           | 25  | 37.5                  | 260      | 53                                   | 47.7(4870)                               | 48.0(4895)  | 2400  | 0.35               | 39.5                   | 46.5  | TK-A1075    | 3.1(31) |
| 3L-210      | A8                           | 25  | 37.5                  | 260      | 53                                   | 47.7(4870)                               | 48.0(4895)  | 2400  | 0.35               | 39.5                   | 45  | TK-A1075    | 3.1(31) |
| 3L-212      | A8                           | 30  | 45                    | 315      | 61                                   | 64.7(6600)                               | 61.0(6220)  | 2100  | 0.827              | 67.3                   | 70.5  | TK-A1291    | 3.0(30) |
| 3L-215      | A8                           | 35  | 52                    | 405      | 52                                   | 84.3(8600)                               | 85.0(8665)  | 1600  | 2.58               | 139                    | 152   | TK-A1512-35 | 2.7(27) |
| 3L-215      | A11                          | 35  | 52                    | 405      | 52                                   | 84.3(8600)                               | 85.0(8665)  | 1600  | 2.58               | 139                    | 145   | TK-A1512-35 | 2.7(27) |

### 外型尺寸 DIMENSIONS

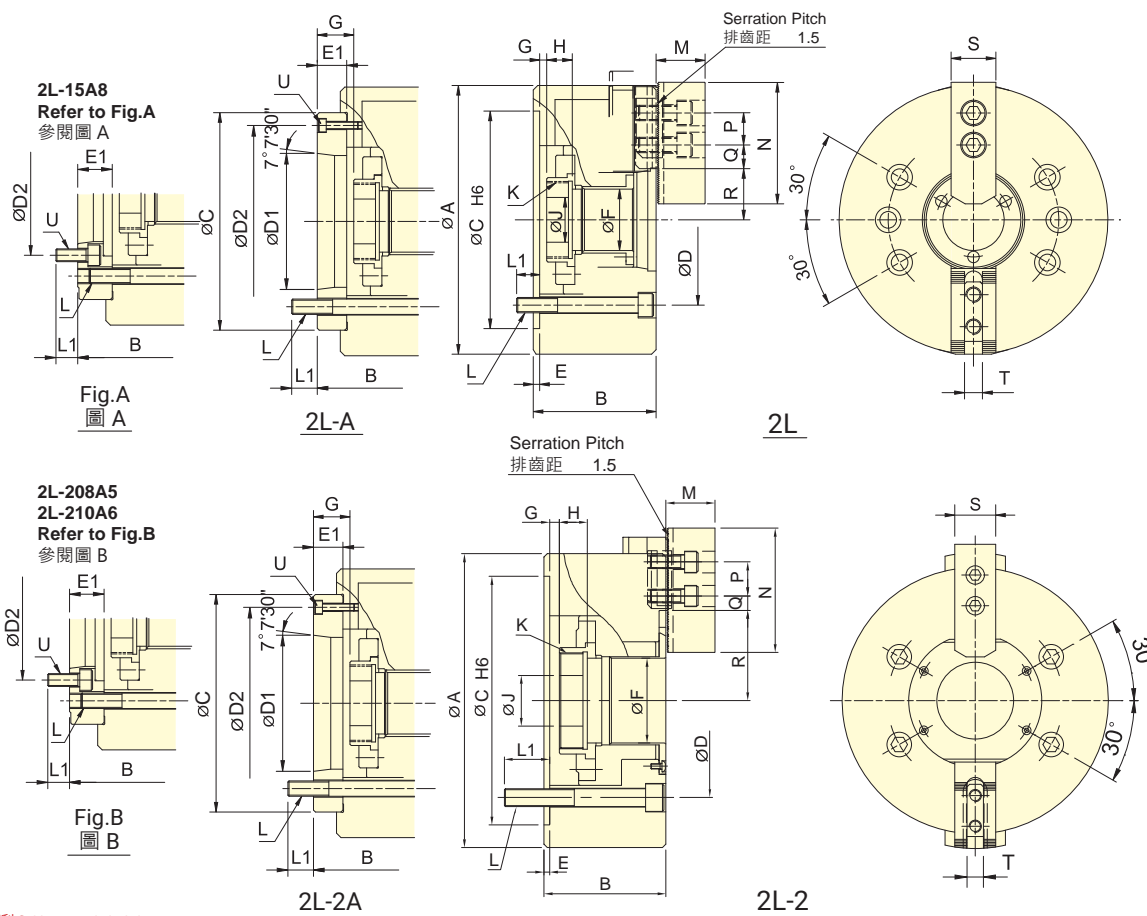
| Model  | A   | B   | C   | D   | D1  | D2    | E      | E1    | F | G max. | G min. | H    | J    |       |      |    |    |
|--------|-----|-----|-----|-----|-----|-------|--------|-------|---|--------|--------|------|------|-------|------|----|----|
| 3L-205 | A4  | 138 | 65  | 76  | 110 | 82.6  | 63.51  | 96    | 4 | 15     | 32     | 1    | 15   | -11   | 3    | 20 | 12 |
| 3L-206 | A5  | 170 | 84  | 97  | 140 | 104.8 | 82.56  | 116   | 5 | 18     | 45     | 6.5  | 24.5 | -8.5  | 9.5  | 19 | 20 |
| 3L-208 | A5  | 215 | 96  | 114 | 170 | 133.4 | 82.56  | 104.8 | 5 | 23     | 52     | 7    | 30   | -13   | 10   | 20 | 30 |
| 3L-208 | A6  | 215 | 96  | 114 | 170 | 133.4 | 106.38 | 150   | 5 | 23     | 52     | 7    | 30   | -13   | 10   | 20 | 30 |
| 3L-210 | A6  | 260 | 108 | 128 | 220 | 171.4 | 106.38 | 133.4 | 5 | 25     | 75     | 8.5  | 33   | -16.5 | 8    | 25 | 45 |
| 3L-210 | A8  | 260 | 108 | 121 | 220 | 171.4 | 139.72 | 190   | 5 | 18     | 75     | 8.5  | 26.5 | -16.5 | 1.5  | 25 | 45 |
| 3L-212 | A8  | 315 | 125 | 138 | 220 | 171.4 | 139.72 | 190   | 5 | 18     | 91     | 15   | 33   | -15   | 3    | 30 | 50 |
| 3L-215 | A8  | 405 | 150 | 177 | 300 | 235   | 139.72 | 171.4 | 6 | 33     | 120    | 12.5 | 45.5 | -22.5 | 10.5 | 39 | 60 |
| 3L-215 | A11 | 405 | 150 | 166 | 300 | 235   | 196.87 | 260   | 6 | 22     | 120    | 12.5 | 34.5 | -22.5 | -0.5 | 39 | 60 |

| Model  | K max. | L       | L1    | M     | N    | P  | Q max. | Q min. | R max. | R min. | S     | T     | U     |      |       |       |
|--------|--------|---------|-------|-------|------|----|--------|--------|--------|--------|-------|-------|-------|------|-------|-------|
| 3L-205 | A4     | M40x1.5 | 3~M10 | 15    | 15   | 31 | 62     | 14     | 15.75  | 5.25   | 38.5  | 29.5  | 25    | 10   | 3~M6  |       |
| 3L-206 | A5     | M55x2   | 3~M10 | 18    | 15   | 37 | 73     | 20     | 15.25  | 7.75   | 51    | 39    | 31    | 12   | 3~M6  |       |
| 3L-208 | A5     | M60x2   | 3~M12 | 18    | 19   | 38 | 95     | 25     | 19.25  | 10.25  | 63.5  | 47.5  | 35    | 14   | 6~M10 |       |
| 3L-208 | A6     | M60x2   | 3~M12 | 18    | 20   | 38 | 95     | 25     | 19.25  | 10.25  | 63.5  | 47.5  | 35    | 14   | 3~M6  |       |
| 3L-210 | A6     | M85x2   | M60x2 | 3~M16 | 24   | 20 | 43     | 110    | 30     | 24.75  | 11.25 | 80    | 61.25 | 40   | 16    | 3~M12 |
| 3L-210 | A8     | M85x2   | 3~M16 | 24    | 21   | 43 | 110    | 30     | 24.75  | 11.25  | 80    | 61.25 | 40    | 16   | 3~M8  |       |
| 3L-212 | A8     | M100x2  | 3~M16 | 24    | 21   | 51 | 130    | 30     | 29.75  | 13.25  | 96.5  | 74    | 50    | 21   | 3~M8  |       |
| 3L-215 | A8     | M130x2  | 6~M20 | 33    | 27.5 | 63 | 165    | 43     | 34.75  | 13.75  | 119   | 93    | 62    | 25.5 | 6~M16 |       |
| 3L-215 | A11    | M130x2  | 6~M20 | 33    | 31   | 63 | 165    | 43     | 34.75  | 13.75  | 119   | 93    | 62    | 25.5 | 3~M10 |       |

紅色數據為 3L-A 型之寸法 (The dimensions and the specifications of 3L-A type are in red data.)



- 曲柄型二爪超大貫通孔徑，超長爪行程。
  - 擱動面均經硬化及精密研磨，並直接潤滑。
  - 高剛性結構及高夾持精度。
  - CRANK type 2-jaw with the large through-hole and extra long jaw stroke.
  - Matching surfaces of all parts hardened, ground and lubricated directly.
  - High rigidity and high clamping accuracy.
- J 值為連結螺帽未車製螺牙時之孔徑。  
K max 值為連結螺帽可車製螺牙之最大規格，可依實際需求訂製。
- J is the hole diameter of blank draw nut,  
K is the maximum thread specification and it could be customize.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.) | 夾持直徑<br>Chuck Dia. |            | 容許最大入力<br>Max. D.B. pull | 最大夾持力<br>Max. Clamping force | 最高迴轉數<br>Max. speed | I<br>Moment of inertia | 重量   |      | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure |
|-------------|------------------------|-------------------------------------|--------------------|------------|--------------------------|------------------------------|---------------------|------------------------|------|------|------------------------|-------------------------|
|             |                        |                                     | 最大<br>Max.         | 最小<br>Min. |                          |                              |                     |                        | kg   | kg   |                        |                         |
| 2L-205      | A4                     | 12                                  | 138                | 6          | 10.4(1060)               | 11.4(1170)                   | 4200                | 0.018                  | 6.9  | 7.7  | TK-A533                | 1.5(15)                 |
| 2L-206      | A5                     | 15                                  | 170                | 24         | 15.7(1600)               | 17.3(1760)                   | 3600                | 0.063                  | 14.4 | 15.6 | TK-C646                | 1.8(18)                 |
| 2L-208      | A5                     | 20                                  | 215                | 30         | 22.9(2330)               | 27.1(2760)                   | 3000                | 0.173                  | 22   | 26   | TK-A853                | 1.9(19)                 |
| 2L-208      | A6                     | 20                                  | 215                | 30         | 22.9(2330)               | 27.1(2760)                   | 3000                | 0.173                  | 22   | 24.2 | TK-A853                | 1.9(19)                 |
| 2L-210      | A6                     | 25                                  | 260                | 53         | 31.8(3250)               | 37.3(3800)                   | 2400                | 0.33                   | 40   | 45.5 | TK-A1075               | 2.1(21)                 |
| 2L-210      | A8                     | 25                                  | 260                | 53         | 31.8(3250)               | 37.3(3800)                   | 2400                | 0.33                   | 40   | 44   | TK-A1075               | 2.1(21)                 |
| 2L-12       | A8                     | 30                                  | 304                | 30         | 43.1(4400)               | 50.0(5100)                   | 2100                | 0.8                    | 60   | 65.5 | TK-A1291               | 2.0(20)                 |
| 2L-15       | A8                     | 35                                  | 385                | 26         | 56.2(5730)               | 53.0(5400)                   | 1600                | 2.52                   | 133  | 147  | TK-A1512-35            | 1.8(18)                 |
| 2L-15       | A11                    | 35                                  | 385                | 26         | 56.2(5730)               | 53.0(5400)                   | 1600                | 2.52                   | 133  | 140  | TK-A1512-35            | 1.8(18)                 |

紅色數據為 2L-A 型之寸法 (The dimensions and the specifications of 2L-A type are in red data.)

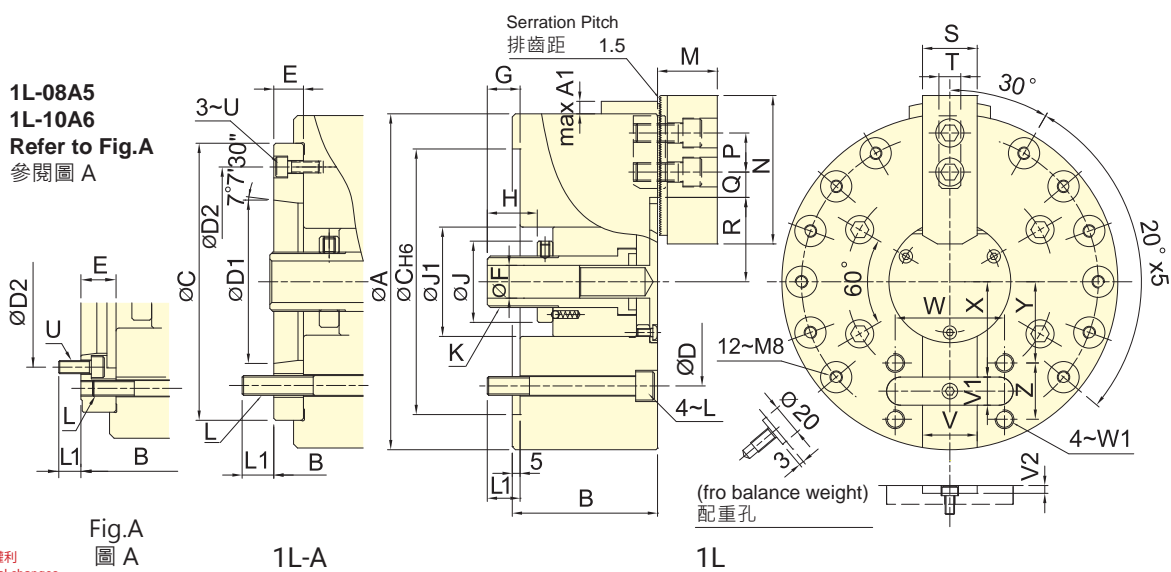
外型尺寸 DIMENSIONS

| Model  | A   | B   | C   | D   | D1  | D2    | E      | E1    | F | G max. | G min. | H    | J    |       |      |    |    |
|--------|-----|-----|-----|-----|-----|-------|--------|-------|---|--------|--------|------|------|-------|------|----|----|
| 2L-205 | A4  | 138 | 65  | 76  | 110 | 82.6  | 63.51  | 96    | 4 | 15     | 32     | 1    | 15   | -11   | 3    | 20 | 12 |
| 2L-206 | A5  | 170 | 84  | 97  | 140 | 104.8 | 82.56  | 116   | 5 | 18     | 45     | 6.5  | 24.5 | -8.5  | 9.5  | 19 | 20 |
| 2L-208 | A5  | 215 | 96  | 114 | 170 | 133.4 | 82.56  | 104.8 | 5 | 23     | 52     | 7    | 30   | -13   | 10   | 20 | 30 |
| 2L-208 | A6  | 215 | 96  | 114 | 170 | 133.4 | 106.38 | 150   | 5 | 23     | 52     | 7    | 30   | -13   | 10   | 20 | 30 |
| 2L-210 | A6  | 260 | 108 | 128 | 220 | 171.4 | 106.38 | 133.4 | 5 | 25     | 75     | 8.5  | 33   | -16.5 | 8    | 25 | 45 |
| 2L-210 | A8  | 260 | 108 | 121 | 220 | 171.4 | 139.72 | 190   | 5 | 18     | 75     | 8.5  | 26.5 | -16.5 | 1.5  | 25 | 45 |
| 2L-12  | A8  | 304 | 127 | 140 | 220 | 171.4 | 139.72 | 190   | 5 | 18     | 91     | 15   | 33   | -15   | 3    | 28 | 50 |
| 2L-15  | A8  | 385 | 150 | 177 | 300 | 235   | 139.72 | 171.4 | 6 | 33     | 120    | 12.5 | 45.5 | -22.5 | 10.5 | 39 | 60 |
| 2L-15  | A11 | 385 | 150 | 166 | 300 | 235   | 196.87 | 260   | 6 | 22     | 120    | 12.5 | 34.5 | -22.5 | -0.5 | 39 | 60 |

| Model  | K max. | L       | L1    | M     | N    | P  | Q max. | Q min. | R max. | R min. | S     | T     | U     |      |       |       |
|--------|--------|---------|-------|-------|------|----|--------|--------|--------|--------|-------|-------|-------|------|-------|-------|
| 2L-205 | A4     | M40x1.5 | 4~M10 | 15    | 15   | 31 | 62     | 14     | 15.75  | 5.25   | 38.5  | 29.5  | 25    | 10   | 3~M6  |       |
| 2L-206 | A5     | M55x2   | 4~M10 | 18    | 15   | 37 | 73     | 20     | 15.25  | 7.75   | 51    | 39    | 31    | 12   | 3~M6  |       |
| 2L-208 | A5     | M60x2   | 4~M12 | 18    | 19   | 38 | 95     | 25     | 19.25  | 10.25  | 63.5  | 47.5  | 35    | 14   | 6~M10 |       |
| 2L-208 | A6     | M60x2   | 4~M12 | 18    | 20   | 38 | 95     | 25     | 19.25  | 10.25  | 63.5  | 47.5  | 35    | 14   | 3~M6  |       |
| 2L-210 | A6     | M85x2   | M60x2 | 4~M16 | 24   | 20 | 43     | 110    | 30     | 24.75  | 11.25 | 80    | 61.25 | 40   | 16    | 6~M12 |
| 2L-210 | A8     | M85x2   | 4~M16 | 24    | 21   | 43 | 110    | 30     | 24.75  | 11.25  | 80    | 61.25 | 40    | 16   | 3~M8  |       |
| 2L-12  | A8     | M100x2  | 6~M16 | 22    | 19   | 51 | 130    | 30     | 46.25  | 19.25  | 77    | 54.5  | 50    | 21   | 3~M8  |       |
| 2L-15  | A8     | M130x2  | 6~M20 | 33    | 27.5 | 63 | 165    | 43     | 51.25  | 27.25  | 94.25 | 68.25 | 62    | 25.5 | 6~M16 |       |
| 2L-15  | A11    | M130x2  | 6~M20 | 33    | 31   | 63 | 165    | 43     | 51.25  | 27.25  | 94.25 | 68.25 | 62    | 25.5 | 3~M10 |       |



- 曲柄型單爪中實夾頭，超長爪行程。
- 適用於治具與異型工件的夾持。
- 高剛性結構及高夾持精度。
- CRANK type single-jaw with the large through-hole and extra long jaw stroke.
- Suitable for clamping the jig or irregular work piece.
- High rigidity and high clamping accuracy.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>Jaw stroke<br>mm | 夾持直徑<br>Chuckling Dia. |                  | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |           |
|-------------|------------------------------|-------------------------|------------------------|------------------|--------------------------------------|--|---|---|--------------------|------------------------|---|-----------|
|             |                              |                         | 最大<br>Max.<br>mm       | 最小<br>Min.<br>mm |                                      |  |   |   |                    |                        |   |           |
| 1L-06       | A5                           | 20                      | 168                    | 5                | 12.3(1250)                           | 27.3(2780)                               | 3800  | 0.05  | 12.5               | 14.3                   | RK-100  | 1.7(17.5) |
| 1L-08       | A5                           | 25                      | 215                    | 7                | 15.7(1600)                           | 37.2(3800)                               | 3000  | 0.15  | 24.2               | 27.1                   | RK-125  | 1.4(14.3) |
| 1L-08       | A6                           | 25                      | 215                    | 7                | 15.7(1600)                           | 37.2(3800)                               | 3000  | 0.15  | 24.2               | 25.3                   | RK-125  | 1.4(14.3) |
| 1L-10       | A6                           | 30                      | 254                    | 17               | 21.6(2200)                           | 48.5(4950)                               | 2400  | 0.28  | 38.8               | 46                     | RK-125  | 1.9(19.5) |
| 1L-10       | A8                           | 30                      | 254                    | 17               | 21.6(2200)                           | 48.5(4950)                               | 2400  | 0.28  | 38.8               | 44.3                   | RK-125  | 1.9(19.5) |

### 外型尺寸 DIMENSIONS

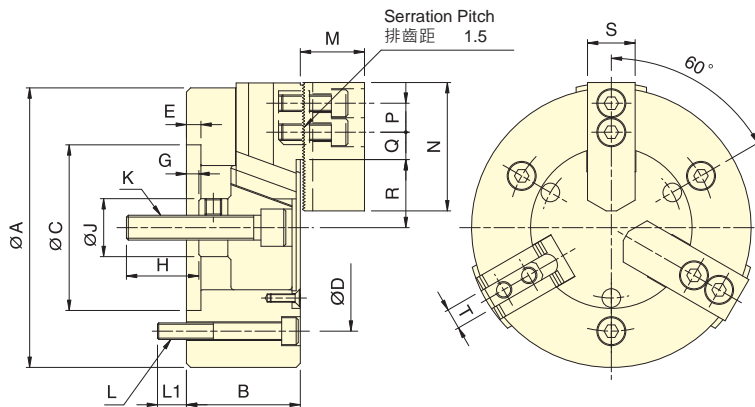
| Model | A  | A1  | B    | C   | D   | D1  | D2    | E      | F     | G max. | G min. | H  | J  | J1 | K max. | L  | L1      |     |    |    |
|-------|----|-----|------|-----|-----|-----|-------|--------|-------|--------|--------|----|----|----|--------|----|---------|-----|----|----|
| 1L-06 | A5 | 168 | 9.5  | 80  | 90  | 140 | 104.8 | 82.56  | 116   | 15     | 21     | 37 | 17 | 25 | 46     | 54 | M30x1.5 | M10 | 16 | 16 |
| 1L-08 | A5 | 215 | 8    | 93  | 111 | 170 | 133.4 | 82.56  | 104.8 | 23     | 21     | 46 | 21 | 32 | 52     | 70 | M33x1.5 | M12 | 21 | 19 |
| 1L-08 | A6 | 215 | 8    | 93  | 105 | 170 | 133.4 | 106.38 | 150   | 17     | 21     | 46 | 21 | 32 | 52     | 70 | M33x1.5 | M12 | 21 | 20 |
| 1L-10 | A6 | 254 | 13.5 | 108 | 128 | 220 | 171.4 | 106.38 | 133.4 | 25     | 30     | 47 | 17 | 30 | 62     | 90 | M45x1.5 | M16 | 25 | 20 |
| 1L-10 | A8 | 254 | 13.5 | 108 | 121 | 220 | 171.4 | 139.72 | 190   | 18     | 30     | 47 | 17 | 30 | 62     | 90 | M45x1.5 | M16 | 25 | 27 |

| Model | M  | N  | P   | Q max. | Q min. | R max. | R min. | S  | T  | U  | V(H6) | V1(h9) | V2 | W   | W1 | X   | Y    | Z    |    |
|-------|----|----|-----|--------|--------|--------|--------|----|----|----|-------|--------|----|-----|----|-----|------|------|----|
| 1L-06 | A5 | 37 | 73  | 20     | 19.75  | 7.75   | 46     | 30 | 31 | 12 | M6    | 30     | 15 | 4.5 | 64 | M10 | 44.5 | 36   | 30 |
| 1L-08 | A5 | 38 | 95  | 25     | 25.25  | 10.25  | 54     | 34 | 35 | 14 | M10   | 35     | 18 | 4.5 | 70 | M12 | 61   | 52   | 36 |
| 1L-08 | A6 | 38 | 95  | 25     | 25.25  | 10.25  | 54     | 34 | 35 | 14 | M6    | 35     | 18 | 4.5 | 70 | M12 | 61   | 52   | 36 |
| 1L-10 | A6 | 43 | 110 | 30     | 33.75  | 11.25  | 67     | 43 | 40 | 16 | M8    | 40     | 20 | 5   | 90 | M12 | 71   | 58.5 | 45 |
| 1L-10 | A8 | 43 | 110 | 30     | 33.75  | 11.25  | 67     | 43 | 40 | 16 | M8    | 40     | 20 | 5   | 90 | M12 | 71   | 58.5 | 45 |

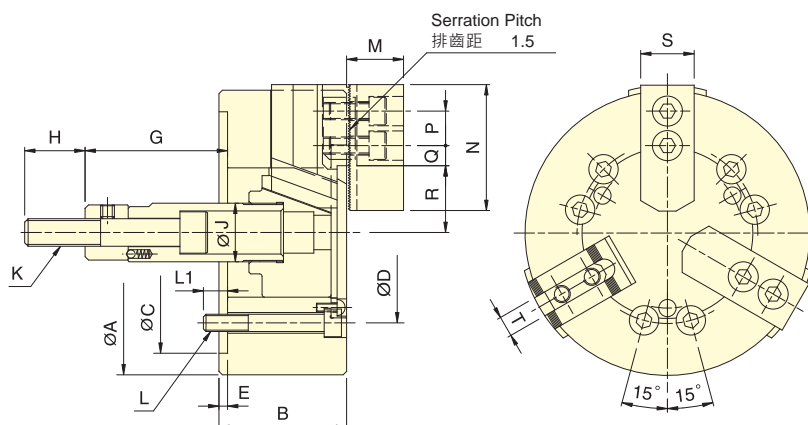
紅色數據為 1L-A 型之寸法 (The dimensions and the specifications of 1L-A type are in red data.)



- 楔形三爪中實夾頭，長爪行程。
- 摺動面均經硬化及精密研磨，並直接潤滑。
- 高剛性結構及高夾持精度。
- WEDGE-HOOK type 3-jaw power chuck and long jaw stroke.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- High rigidity and high clamping accuracy.



3M-05



3M-06~3M-12

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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持直徑<br>Chucking Dia. |                  | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|-------------|------------------------------|---|-----------------------|------------------|--------------------------------------|--|---|---|--------------------|------------------------|---|
|             |                              |   | 最大<br>Max.<br>mm      | 最小<br>Min.<br>mm |                                      |  |   |   |                    |                        |   |
| 3M-05       | 15                           | 10.9                                      | 135                   | 14               | 9.8 (1000)                           | 23 (2350)                                | 4500  | 0.02  | 6.0                | RK-75(N)               | 2.7(27)   |
| 3M-06       | 20                           | 14.5                                      | 165                   | 14               | 21.6 (2200)                          | 50 (3680)                                | 4000  | 0.04  | 12.2               | RK-100(N)              | 3.0(30)   |
| 3M-08       | 23                           | 16.7                                      | 210                   | 17               | 29.4 (3000)                          | 72 (7340)                                | 3500  | 0.13  | 23.0               | RK-125(N)              | 2.9(29)   |
| 3M-10       | 27                           | 19.6                                      | 254                   | 22               | 39.2 (4000)                          | 102 (10400)                              | 3000  | 0.3   | 34.3               | RK-150(N)              | 2.8(28)   |
| 3M-12       | 30                           | 21.8                                      | 304                   | 26               | 54.0 (5500)                          | 150 (15300)                              | 2500  | 0.71  | 59.4               | RK-150(N)              | 3.6(36)   |

### 外型尺寸 DIMENSIONS

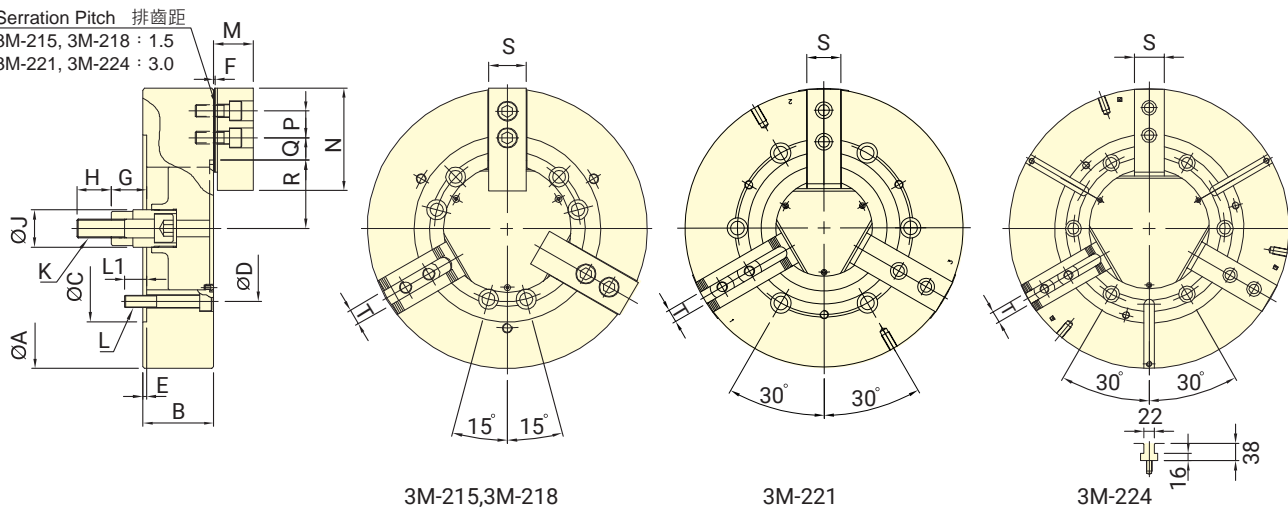
| Model | A   | B   | C(H6) | D     | E | G max. | G min. | H  | J  | K        |
|-------|-----|-----|-------|-------|---|--------|--------|----|----|----------|
| 3M-05 | 135 | 55  | 80    | 100   | 7 | 6      | -9     | 35 | 28 | M12x1.75 |
| 3M-06 | 165 | 74  | 140   | 104.8 | 5 | 101.6  | 81.6   | 36 | 34 | M16x2    |
| 3M-08 | 210 | 85  | 170   | 133.4 | 5 | 129    | 106    | 36 | 38 | M20x2.5  |
| 3M-10 | 254 | 89  | 220   | 171.4 | 5 | 160    | 133    | 36 | 45 | M20x2.5  |
| 3M-12 | 304 | 106 | 220   | 171.4 | 6 | 70     | 40     | 46 | 50 | M24x3    |

| Model | L     | L1 | M  | N   | P  | Q max. | Q min. | R max. | R min. | S  | T  |
|-------|-------|----|----|-----|----|--------|--------|--------|--------|----|----|
| 3M-05 | 3~M8  | 14 | 31 | 62  | 14 | 15.5   | 5      | 32.9   | 27.45  | 25 | 10 |
| 3M-06 | 6~M10 | 14 | 37 | 73  | 20 | 17     | 8      | 38.7   | 31.45  | 31 | 12 |
| 3M-08 | 6~M12 | 20 | 38 | 95  | 25 | 22.3   | 8.8    | 47.5   | 39.15  | 35 | 14 |
| 3M-10 | 6~M16 | 18 | 43 | 110 | 30 | 32.3   | 12.8   | 53.9   | 44.1   | 40 | 16 |
| 3M-12 | 6~M16 | 18 | 51 | 130 | 30 | 47.8   | 13.3   | 62.5   | 51.6   | 50 | 21 |



- 楔形三爪中實夾頭·長爪行程。
- 摺動面均經硬化及精密研磨·並直接潤滑。
- 高剛性結構及高夾持精度。
- WEDGE-HOOK type 3-jaw power chuck and long jaw stroke.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- High rigidity and high clamping accuracy.

Serration Pitch 排齒距  
 3M-215, 3M-218 : 1.5  
 3M-221, 3M-224 : 3.0



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model   | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持直徑<br>Chuck Dia. |                  | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|---------------|------------------------------|---|--------------------|------------------|--------------------------------------|--|---|---|--------------------|------------------------|---|
|               |                              |   | 最大<br>Max.<br>mm   | 最小<br>Min.<br>mm |                                      |  |   |   |                    |                        |   |
| <b>3M-215</b> | 35                           | 25.4                                      | 381                | 20               | 91.0 (9280)                          | 158.9 (16200)                            | 2300  | 1.8   | 96                 | RK-200(N)              | 3.0(30)   |
| <b>3M-218</b> | 35                           | 25.4                                      | 450                | 51               | 91.0 (9280)                          | 158.9 (16200)                            | 2000  | 2.32  | 124                | RK-200(N)              | 3.0(30)   |
| <b>3M-221</b> | 35                           | 25.4                                      | 530                | 53               | 91.0 (9280)                          | 158.9 (16200)                            | 1350  | 4.9   | 175                | RK-200(N)              | 3.0(30)   |
| <b>3M-224</b> | 35                           | 25.4                                      | 610                | 160              | 91.0 (9280)                          | 158.9 (16200)                            | 1250  | 7.2   | 225                | RK-200(N)              | 3.0(30)   |

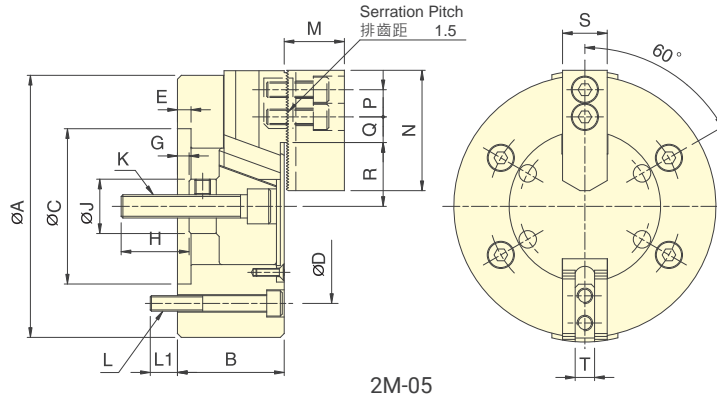
### 外型尺寸 DIMENSIONS

| Model         | A   | B   | C(H6) | D     | E | F | G max. | G min. | H  | J  |
|---------------|-----|-----|-------|-------|---|---|--------|--------|----|----|
| <b>3M-215</b> | 381 | 114 | 300   | 235   | 6 | 2 | 104    | 69     | 55 | 60 |
| <b>3M-218</b> | 450 | 114 | 300   | 235   | 6 | 2 | 92     | 57     | 55 | 60 |
| <b>3M-221</b> | 530 | 125 | 380   | 330.2 | 6 | 3 | 97     | 62     | 55 | 60 |
| <b>3M-224</b> | 610 | 125 | 380   | 330.2 | 6 | 3 | 97     | 62     | 55 | 60 |

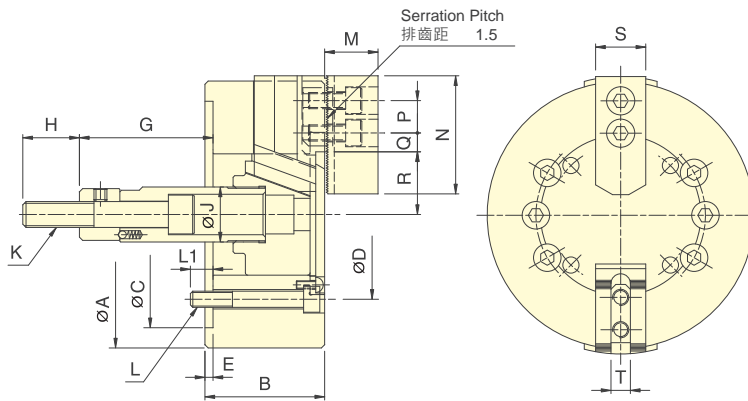
| Model         | K       | L     | L1 | M    | N   | P  | Q max. | Q min. | R max. | R min. | S  | T    |
|---------------|---------|-------|----|------|-----|----|--------|--------|--------|--------|----|------|
| <b>3M-215</b> | M30x3.5 | 6~M20 | 30 | 63.3 | 165 | 43 | 49.75  | 18.25  | 79     | 66.3   | 62 | 25.5 |
| <b>3M-218</b> | M30x3.5 | 6~M20 | 35 | 63.3 | 165 | 43 | 51.25  | 18.25  | 109.5  | 96.8   | 62 | 25.5 |
| <b>3M-221</b> | M30x3.5 | 6~M24 | 31 | 71   | 180 | 60 | 90.5   | 24.5   | 92     | 79.3   | 65 | 25   |
| <b>3M-224</b> | M30x3.5 | 6~M24 | 31 | 71   | 180 | 60 | 90     | 24     | 131    | 118.3  | 65 | 25   |



- 楔形二爪中實夾頭，長爪行程。
- 摺動面均經硬化及精密研磨，並直接潤滑。
- 高剛性結構及高夾持精度。
- WEDGE-HOOK type 2-jaw power chuck and long jaw stroke.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- High rigidity and high clamping accuracy.



2M-05



2M-06~2M-12

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

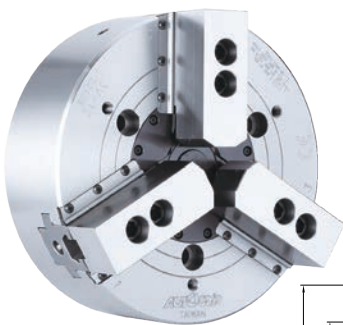
### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持直徑<br>Chuck Dia. |                  | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|-------------|------------------------------|---|--------------------|------------------|--------------------------------------|--|---|---|--------------------|------------------------|---|
|             |                              |   | 最大<br>Max.<br>mm   | 最小<br>Min.<br>mm |                                      |  |   |   |                    |                        |   |
| 2M-05       | 15                           | 10.9                                      | 135                | 14               | 6.5(660)                             | 11(1120)                                 | 4500  | 0.02  | 6.0                | RK-75(N)               | 1.8(18)   |
| 2M-06       | 20                           | 14.5                                      | 165                | 14               | 14.3(1460)                           | 24(2450)                                 | 4000  | 0.04  | 12.2               | RK-100(N)              | 2.0(20)   |
| 2M-08       | 23                           | 16.7                                      | 210                | 17               | 19.6(2000)                           | 36.6(3730)                               | 3500  | 0.13  | 23.0               | RK-125(N)              | 1.9(19.3)   |
| 2M-10       | 27                           | 19.6                                      | 254                | 22               | 26.1(2660)                           | 49.3(5030)                               | 3000  | 0.30  | 34.3               | RK-150(N)              | 1.8(18.6)   |
| 2M-12       | 30                           | 21.8                                      | 304                | 26               | 36(3670)                             | 66(6730)                                 | 2500  | 0.71  | 59.1               | RK-150(N)              | 2.4(24)   |

### 外型尺寸 DIMENSIONS

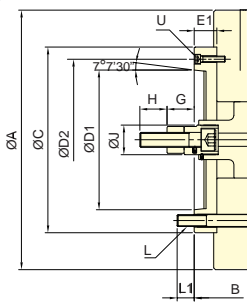
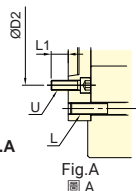
| Model | A   | B   | C(H6) | D     | E | G max. | G min. | H  | J  |
|-------|-----|-----|-------|-------|---|--------|--------|----|----|
| 2M-05 | 135 | 55  | 80    | 100   | 7 | 6      | -9     | 35 | 28 |
| 2M-06 | 165 | 74  | 140   | 104.8 | 5 | 101.6  | 81.6   | 36 | 34 |
| 2M-08 | 210 | 85  | 170   | 133.4 | 5 | 129    | 106    | 36 | 38 |
| 2M-10 | 254 | 89  | 220   | 171.4 | 5 | 160    | 133    | 36 | 45 |
| 2M-12 | 304 | 106 | 220   | 171.4 | 6 | 70     | 40     | 46 | 50 |

| Model | K        | L     | L1 | M  | N   | P  | Q max. | Q min. | R max. | R min. | S  | T  |
|-------|----------|-------|----|----|-----|----|--------|--------|--------|--------|----|----|
| 2M-05 | M12x1.75 | 4~M8  | 14 | 31 | 62  | 14 | 15.5   | 5      | 32.9   | 27.45  | 25 | 10 |
| 2M-06 | M16x2    | 6~M10 | 14 | 37 | 73  | 20 | 17     | 8      | 38.7   | 31.45  | 31 | 12 |
| 2M-08 | M20x2.5  | 6~M12 | 20 | 38 | 95  | 25 | 22.3   | 8.8    | 47.5   | 39.15  | 35 | 14 |
| 2M-10 | M20x2.5  | 6~M16 | 18 | 43 | 110 | 30 | 32.3   | 12.8   | 53.9   | 44.1   | 40 | 16 |
| 2M-12 | M24x3    | 6~M16 | 18 | 51 | 130 | 30 | 47.8   | 13.3   | 62.5   | 51.6   | 50 | 21 |

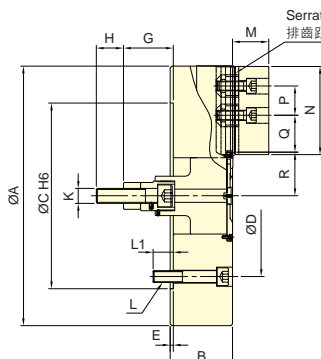


- 楔形三爪中實夾頭。
- 防切屑及防水設計，特別適合使用於立式車床。
- WEDGE-HOOK type 3-jaw high speed power chuck.
- Sealed against swarf, chips and coolant, suitable for vertical lathe.

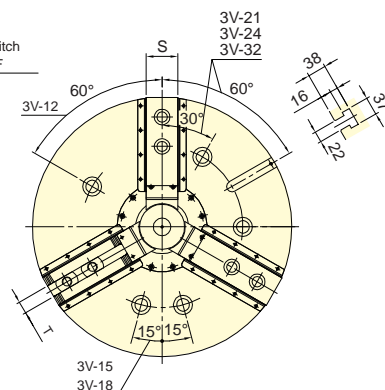
3V-15A8  
3V-15A15  
3V-18A8  
3V-18A15  
3V-21A11  
3V-24A11  
Refer to Fig.A  
參閱圖 A



3V-A



3V



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持直徑<br>Chuck Dia. |            | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I  |       | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |                   |                    |
|-------------|------------------------------|---|--------------------|------------|--------------------------------------|--|---|--|-------|--------------------|------------------------|---|-------------------|--------------------|
|             |                              |   | 最大<br>Max.         | 最小<br>Min. |                                      |  |   | Moment of inertia<br>kg · m <sup>2</sup> |       |                    |                        |   |                   |                    |
| 3V-12       | A8                           | 30  | 12.7               | 304        | 30                                   | 41(4180)                                 | 156(15900)  | 3150                                     | 0.73  | 0.79               | 62.9                   | 68.7  | RK-150<br>RE-150  | 2.6(26)            |
| 3V-15       | A8                           | 35  | 16                 | 381        | 30                                   | 81.9(8360)                               | 245.1(25000)                                      | 2900                                     | 1.97  | 2.27               | 105.5                  | 128.5   | RK-200<br>RE-200K | 2.8(28)<br>3.0(30) |
| 3V-15       | A11                          | 35  | 16                 | 381        | 30                                   | 81.9(8360)                               | 245.1(25000)                                      | 2900                                     | 1.97  | 2.27               | 105.5                  | 127   |                   |                    |
| 3V-15       | A15                          | 35  | 16                 | 381        | 30                                   | 81.9(8360)                               | 245.1(25000)                                      | 2900                                     | 3.33  | 2.67               | 105.5                  | 142   |                   |                    |
| 3V-18       | A8                           | 35  | 16                 | 450        | 80                                   | 81.9(8360)                               | 245.1(25000)                                      | 2600                                     | 3.33  | 3.62               | 132.7                  | 155.5   |                   |                    |
| 3V-18       | A11                          | 35  | 16                 | 450        | 80                                   | 81.9(8360)                               | 245.1(25000)                                      | 2600                                     | 3.33  | 3.63               | 132.7                  | 154.5   |                   |                    |
| 3V-18       | A15                          | 35  | 16                 | 450        | 80                                   | 81.9(8360)                               | 245.1(25000)                                      | 2600                                     | 6.83  | 4.02               | 132.7                  | 165   |                   |                    |
| 3V-21       | A11                          | 35  | 16                 | 530        | 62                                   | 81.9(8360)                               | 271.6(27700)                                      | 1800                                     | 6.83  | 7.46               | 196.5                  | 227   |                   |                    |
| 3V-21       | A15                          | 35  | 16                 | 530        | 62                                   | 81.9(8360)                               | 271.6(27700)                                      | 1800                                     | 6.83  | 7.37               | 196.5                  | 221   |                   |                    |
| 3V-24       | A11                          | 35  | 16                 | 610        | 136                                  | 81.9(8360)                               | 271.6(27700)                                      | 1700                                     | 11.19 | 11.83              | 241.7                  | 272.8   |                   |                    |
| 3V-24       | A15                          | 35  | 16                 | 610        | 136                                  | 81.9(8360)                               | 271.6(27700)                                      | 1700                                     | 11.19 | 11.73              | 241.7                  | 266   |                   |                    |
| 3V-32       | A15                          | 35  | 16                 | 800        | 136                                  | 81.9(8360)                               | 271.6(27700)                                      | 1100                                     | 28.97 | 29.51              | 353.6                  | 378   |                   |                    |

### 外型尺寸 DIMENSIONS

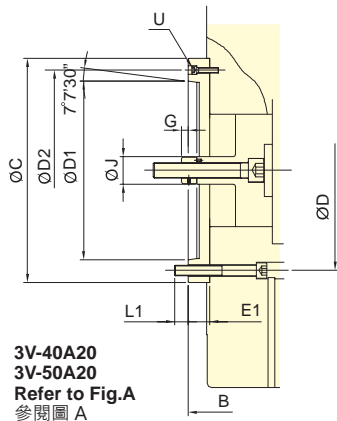
| Model | A   | B   | C   | D   | D1  | D2    | E      | E1    | F | G max. |     | G min. |    | H   | J  |    |    |
|-------|-----|-----|-----|-----|-----|-------|--------|-------|---|--------|-----|--------|----|-----|----|----|----|
| 3V-12 | A8  | 304 | 107 | 141 | 220 | 171.4 | 139.72 | 190   | 6 | 40     | 1.5 | 113    | 73 | 83  | 43 | 36 | 50 |
| 3V-15 | A8  | 381 | 116 | 164 | 300 | 235   | 139.72 | 171.4 | 6 | 54     | 1.5 | 153    | 99 | 118 | 64 | 55 | 60 |
| 3V-15 | A11 | 381 | 116 | 168 | 300 | 235   | 196.87 | 260   | 6 | 58     | 1.5 | 153    | 95 | 118 | 60 | 55 | 60 |
| 3V-15 | A15 | 381 | 116 | 172 | 380 | 235   | 285.78 | 330.2 | 6 | 62     | 1.5 | 153    | 91 | 118 | 56 | 55 | 60 |
| 3V-18 | A8  | 450 | 116 | 164 | 300 | 235   | 139.72 | 171.4 | 6 | 54     | 1.5 | 153    | 99 | 118 | 64 | 55 | 60 |
| 3V-18 | A11 | 450 | 116 | 168 | 300 | 235   | 196.87 | 260   | 6 | 58     | 1.5 | 153    | 95 | 118 | 60 | 55 | 60 |
| 3V-18 | A15 | 450 | 116 | 172 | 380 | 235   | 285.78 | 330.2 | 6 | 62     | 1.5 | 153    | 91 | 118 | 56 | 55 | 60 |
| 3V-21 | A11 | 530 | 127 | 167 | 380 | 330.2 | 196.87 | 235   | 6 | 46     | 3   | 137    | 91 | 102 | 56 | 55 | 60 |
| 3V-21 | A15 | 530 | 127 | 167 | 380 | 330.2 | 285.78 | 330.2 | 6 | 46     | 3   | 137    | 91 | 102 | 56 | 55 | 60 |
| 3V-24 | A11 | 610 | 127 | 167 | 380 | 330.2 | 196.87 | 235   | 6 | 46     | 3   | 137    | 91 | 102 | 56 | 55 | 60 |
| 3V-24 | A15 | 610 | 127 | 167 | 380 | 330.2 | 285.78 | 330.2 | 6 | 46     | 3   | 137    | 91 | 102 | 56 | 55 | 60 |
| 3V-32 | A15 | 800 | 127 | 167 | 380 | 330.2 | 285.78 | 330.2 | 6 | 46     | 3   | 137    | 91 | 102 | 56 | 55 | 60 |

| Model | K   | L       | L1    | M  | N  | P  | Q max. | Q min. | R max. | R min. | S    | T     | U  |      |       |
|-------|-----|---------|-------|----|----|----|--------|--------|--------|--------|------|-------|----|------|-------|
| 3V-12 | A8  | M20x2.5 | 3-M16 | 24 | 24 | 54 | 130    | 30     | 47.5   | 16     | 61   | 54.65 | 50 | 21   | 3~M8  |
| 3V-15 | A8  | M30x3.5 | 6-M20 | 35 | 24 | 66 | 165    | 43     | 51.25  | 18.25  | 77.5 | 69.5  | 62 | 25.5 | 6~M16 |
| 3V-15 | A11 | M30x3.5 | 6-M20 | 35 | 32 | 66 | 165    | 43     | 51.25  | 18.25  | 77.5 | 69.5  | 62 | 25.5 | 3~M10 |
| 3V-15 | A15 | M30x3.5 | 6-M20 | 35 | 26 | 66 | 165    | 43     | 51.25  | 18.25  | 77.5 | 69.5  | 62 | 25.5 | 6~M24 |
| 3V-18 | A8  | M30x3.5 | 6-M20 | 35 | 24 | 66 | 165    | 43     | 51.25  | 18.25  | 108  | 100   | 62 | 25.5 | 6~M16 |
| 3V-18 | A11 | M30x3.5 | 6-M20 | 35 | 32 | 66 | 165    | 43     | 51.25  | 18.25  | 108  | 100   | 62 | 25.5 | 3~M10 |
| 3V-18 | A15 | M30x3.5 | 6-M20 | 35 | 26 | 66 | 165    | 43     | 51.25  | 18.25  | 108  | 100   | 62 | 25.5 | 6~M24 |
| 3V-21 | A11 | M30x3.5 | 6-M24 | 41 | 35 | 74 | 180    | 60     | 93.5   | 24.5   | 89   | 81    | 65 | 25   | 6~M20 |
| 3V-21 | A15 | M30x3.5 | 6-M24 | 41 | 35 | 74 | 180    | 60     | 93.5   | 24.5   | 89   | 81    | 65 | 25   | 3~M12 |
| 3V-24 | A11 | M30x3.5 | 6-M24 | 41 | 35 | 74 | 180    | 60     | 93.5   | 24.5   | 128  | 120   | 65 | 25   | 6~M20 |
| 3V-24 | A15 | M30x3.5 | 6-M24 | 41 | 35 | 74 | 180    | 60     | 93.5   | 24.5   | 128  | 120   | 65 | 25   | 3~M12 |
| 3V-32 | A15 | M30x3.5 | 6-M24 | 41 | 35 | 74 | 180    | 60     | 189.5  | 24.5   | 128  | 120   | 65 | 25   | 3~M12 |



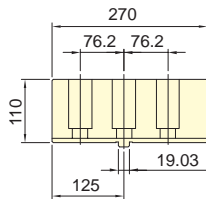
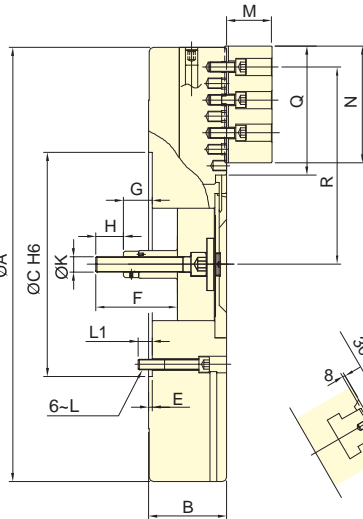


- 楔形三爪中實夾頭。
- 主爪可單獨手動調整行程，以利工件求心。
- 防切屑及防水設計，特別適合使用於立式車床。
- WEDGE-HOOK type 3-jaw high speed power chuck.
- With manual radial setting of master jaws for the workpiece centering.
- Sealed against swarf, chips and coolant, suitable for vertical lathe.

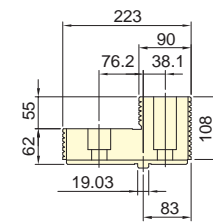
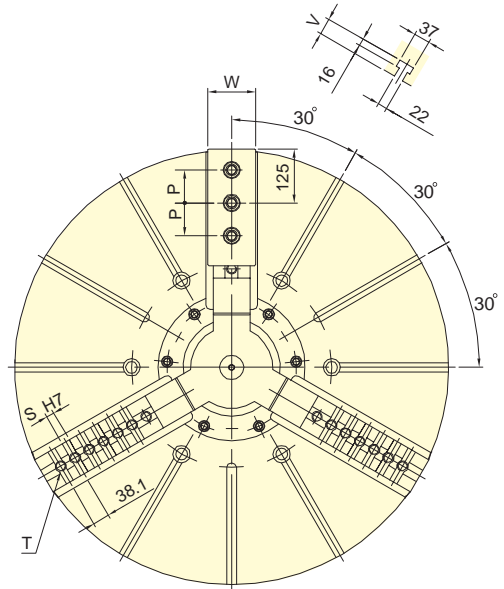


3V-40A20  
3V-50A20  
Refer to Fig.A  
參閱圖 A

Fig.A  
圖 A



生爪 SJ-50 for V-40"-50"  
Soft jaw SJ-63 for V-63"-79"



硬爪 HJ-50 for V-40"-79"  
Hardened jaw

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

### 技術規格 SPECIFICATIONS

| 型號        | 楔心行程                 | 爪行程 (直徑)                | 夾持直徑 Chucking Dia. |         | 容許最大入力                     | 最大夾持力                           | 最高迴轉數                                    | I                   |                     | 重量           | 適用迴轉缸         | 最大使用壓力                                      |
|-----------|----------------------|-------------------------|--------------------|---------|----------------------------|---------------------------------|--|---------------------|---------------------|--------------|---------------|---|
| Model     | Plunger stroke<br>mm | Jaw stroke (Dia.)<br>mm | 最大 Max.            | 最小 Min. | Max. D.B. pull<br>kN (kgf) | Max. Clamping force<br>kN (kgf) | Max. speed<br>min <sup>-1</sup> (r.p.m.) | Moment of inertia   |                     | Weight<br>kg | Matching cyl. | Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|           |                      |                         | mm                 | mm      |                            |                                 |  | kg · m <sup>2</sup> | kg · m <sup>2</sup> |              |               |   |
| 3V-40 A20 | 57                   | 46+(60)                 | 1005               | 310     | 180(18350)                 | 320(32620)                      | 630                                      | 68                  | 72                  | 780          | 849           | 4.2(42)                                     |
| 3V-50 A20 | 57                   | 46+(60)                 | 1250               | 290     | 180(18350)                 | 320(32620)                      | 500                                      | 145                 | 148                 | 1000         | 1050          | 4.2(42)                                     |
| 3V-63     | 60                   | 48+(80)                 | 1600               | 390     | 200(20390)                 | 360(36700)                      | 400                                      | 500                 | -                   | 1600         | -             | 4.6(46)                                     |
| 3V-79     | 60                   | 48+(80)                 | 2000               | 440     | 200(20390)                 | 360(36700)                      | 320                                      | 1250                | -                   | 2500         | -             | 4.6(46)                                     |

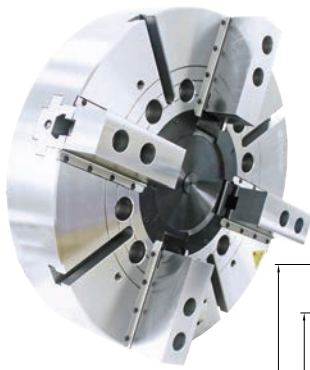
### 外型尺寸 DIMENSIONS

| Model     | A    | B   | C   | D   | D1    | D2     | E     | E1 | F  | G max. | G min. | H  | J  | K  |    |    |       |
|-----------|------|-----|-----|-----|-------|--------|-------|----|----|--------|--------|----|----|----|----|----|-------|
| 3V-40 A20 | 1005 | 184 | 226 | 520 | 463.6 | 412.78 | 463.6 | 8  | 50 | 190    | 123    | 73 | 66 | 16 | 65 | 65 | M36x4 |
| 3V-50 A20 | 1250 | 184 | 226 | 520 | 463.6 | 412.78 | 463.6 | 8  | 50 | 190    | 123    | 73 | 66 | 16 | 65 | 65 | M36x4 |
| 3V-63     | 1600 | 222 | -   | 720 | 647.6 | -      | -     | 8  | -  | 218    | 131    | -  | 71 | -  | 65 | -  | M36x4 |
| 3V-79     | 2000 | 240 | -   | 720 | 647.6 | -      | -     | 8  | -  | 238    | 133    | -  | 73 | -  | 65 | -  | M36x4 |

| Model     | L   | L1 | M   | N   | P    | Q   | R max. | R min. | S        | T      | U     | V  | W   |
|-----------|-----|----|-----|-----|------|-----|--------|--------|----------|--------|-------|----|-----|
| 3V-40 A20 | M24 | 37 | 110 | 270 | 76.2 | 295 | 457    | 404    | 6~19.03  | 7~M24  | 3~M12 | 42 | 84  |
| 3V-50 A20 | M24 | 37 | 110 | 270 | 76.2 | 416 | 563    | 510    | 9~19.03  | 9~M24  | 3~M12 | 42 | 84  |
| 3V-63     | M30 | 46 | 110 | 270 | 76.2 | 540 | 738    | 674    | 12~19.03 | 13~M24 | -     | 42 | 110 |
| 3V-79     | M30 | 48 | 110 | 270 | 76.2 | 740 | 914    | 850    | 16~19.03 | 17~M24 | -     | 42 | 110 |

- 楔形四爪中實夾頭。
- 防切屑及防水設計，特別適合使用於立式車床。
- WEDGE-HOOK type 4-jaw high speed power chuck.
- Sealed against swarf, chips and coolant, suitable for vertical lathe.



4V-15A8  
4V-15A15  
4V-18A8  
4V-15A15  
4V-21A11  
4V-24A11  
Refer to Fig.A  
參閱圖 A

Fig.A  
圖A

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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持直徑<br>Chuck Dia. |            | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I  |       | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |                   |                    |
|-------------|------------------------------|---|--------------------|------------|--------------------------------------|--|---|--|-------|--------------------|------------------------|---|-------------------|--------------------|
|             |                              |   | 最大<br>Max.         | 最小<br>Min. |                                      |  |   | Moment of inertia<br>kg · m <sup>2</sup> |       |                    |                        |   |                   |                    |
| 4V-12       | A8                           | 30  | 12.7               | 304        | 48                                   | 41(4180)                                 | 156(15900)  | 2520                                     | 0.72  | 0.79               | 59                     | 67  | RK-150<br>RE-150  | 2.6(26)            |
| 4V-15       | A8                           | 35  | 16                 | 381        | 36                                   | 81.9(8360)                               | 245.1(25000)                                      | 2300                                     | 2.10  | 2.39               | 108                    | 131   | RK-200<br>RE-200K | 2.8(28)<br>3.0(30) |
| 4V-15       | A11                          | 35  | 16                 | 381        | 36                                   | 81.9(8360)                               | 245.1(25000)                                      | 2300                                     | 2.10  | 2.39               | 108                    | 130   |                   |                    |
| 4V-15       | A15                          | 35  | 16                 | 381        | 36                                   | 81.9(8360)                               | 245.1(25000)                                      | 2300                                     | 2.10  | 2.79               | 108                    | 139   |                   |                    |
| 4V-18       | A8                           | 35  | 16                 | 450        | 60                                   | 81.9(8360)                               | 245.1(25000)                                      | 2050                                     | 3.51  | 3.80               | 139.3                  | 162   |                   |                    |
| 4V-18       | A11                          | 35  | 16                 | 450        | 60                                   | 81.9(8360)                               | 245.1(25000)                                      | 2050                                     | 3.51  | 3.80               | 139.3                  | 160.9   |                   |                    |
| 4V-18       | A15                          | 35  | 16                 | 450        | 60                                   | 81.9(8360)                               | 245.1(25000)                                      | 2050                                     | 3.51  | 4.20               | 139.3                  | 172   |                   |                    |
| 4V-21       | A11                          | 35  | 16                 | 530        | 62                                   | 81.9(8360)                               | 271.6(27700)                                      | 1450                                     | 6.98  | 7.62               | 199                    | 230   |                   |                    |
| 4V-21       | A15                          | 35  | 16                 | 530        | 62                                   | 81.9(8360)                               | 271.6(27700)                                      | 1450                                     | 6.98  | 7.53               | 199                    | 223.7   |                   |                    |
| 4V-24       | A11                          | 35  | 16                 | 610        | 152                                  | 81.9(8360)                               | 271.6(27700)                                      | 1350                                     | 11.34 | 11.98              | 243.8                  | 275   |                   |                    |
| 4V-24       | A15                          | 35  | 16                 | 610        | 152                                  | 81.9(8360)                               | 271.6(27700)                                      | 1350                                     | 11.34 | 11.88              | 243.8                  | 268.3   |                   |                    |
| 4V-32       | A15                          | 35  | 16                 | 800        | 152                                  | 81.9(8360)                               | 271.6(27700)                                      | 880                                      | 32.58 | 33.13              | 396                    | 419.9   |                   |                    |

### 外型尺寸 DIMENSIONS

| Model | A   | B   | C   | D   | D1  | D2    | E      | E1    | F | G max. | G min. | H   | J  |     |    |    |    |
|-------|-----|-----|-----|-----|-----|-------|--------|-------|---|--------|--------|-----|----|-----|----|----|----|
| 4V-12 | A8  | 304 | 107 | 141 | 220 | 171.4 | 139.72 | 190   | 6 | 40     | 1.5    | 113 | 73 | 83  | 43 | 36 | 50 |
| 4V-15 | A8  | 381 | 116 | 164 | 300 | 235   | 139.72 | 171.4 | 6 | 54     | 1.5    | 153 | 99 | 118 | 64 | 55 | 60 |
| 4V-15 | A11 | 381 | 116 | 168 | 300 | 235   | 196.87 | 260   | 6 | 58     | 1.5    | 153 | 95 | 118 | 60 | 55 | 60 |
| 4V-15 | A15 | 381 | 116 | 172 | 380 | 235   | 285.78 | 330.2 | 6 | 62     | 1.5    | 153 | 91 | 118 | 56 | 55 | 60 |
| 4V-18 | A8  | 450 | 116 | 164 | 300 | 235   | 139.72 | 171.4 | 6 | 54     | 1.5    | 153 | 99 | 118 | 64 | 55 | 60 |
| 4V-18 | A11 | 450 | 116 | 168 | 300 | 235   | 196.87 | 260   | 6 | 58     | 1.5    | 153 | 95 | 118 | 60 | 55 | 60 |
| 4V-18 | A15 | 450 | 116 | 172 | 380 | 235   | 285.78 | 330.2 | 6 | 62     | 1.5    | 153 | 91 | 118 | 56 | 55 | 60 |
| 4V-21 | A11 | 530 | 127 | 167 | 380 | 330.2 | 196.87 | 235   | 6 | 46     | 3      | 137 | 91 | 102 | 56 | 55 | 60 |
| 4V-21 | A15 | 530 | 127 | 167 | 380 | 330.2 | 285.78 | 330.2 | 6 | 46     | 3      | 137 | 91 | 102 | 56 | 55 | 60 |
| 4V-24 | A11 | 610 | 127 | 167 | 380 | 330.2 | 196.87 | 235   | 6 | 46     | 3      | 137 | 91 | 102 | 56 | 55 | 60 |
| 4V-24 | A15 | 610 | 127 | 167 | 380 | 330.2 | 285.78 | 330.2 | 6 | 46     | 3      | 137 | 91 | 102 | 56 | 55 | 60 |
| 4V-32 | A15 | 800 | 147 | 187 | 380 | 330.2 | 285.78 | 330.2 | 6 | 46     | 3      | 137 | 91 | 102 | 56 | 55 | 60 |

| Model | K   | L       | L1    | M  | N  | P  | Q max. | Q min. | R max. | R min. | S    | T    | U  |      |       |
|-------|-----|---------|-------|----|----|----|--------|--------|--------|--------|------|------|----|------|-------|
| 4V-12 | A8  | M20x2.5 | 3-M16 | 24 | 24 | 42 | 110    | 30     | 51.75  | 15.75  | 61.3 | 54.9 | 40 | 16   | 4-M8  |
| 4V-15 | A8  | M30x3.5 | 6-M20 | 35 | 24 | 66 | 165    | 43     | 40.75  | 18.25  | 87.5 | 79.4 | 62 | 25.5 | 6-M16 |
| 4V-15 | A11 | M30x3.5 | 6-M20 | 35 | 32 | 66 | 165    | 43     | 40.75  | 18.25  | 87.5 | 79.4 | 62 | 25.5 | 4-M10 |
| 4V-15 | A15 | M30x3.5 | 6-M20 | 35 | 26 | 66 | 165    | 43     | 40.75  | 18.25  | 87.5 | 79.4 | 62 | 25.5 | 6-M24 |
| 4V-18 | A8  | M30x3.5 | 6-M20 | 35 | 24 | 66 | 165    | 43     | 51.22  | 18.22  | 108  | 100  | 62 | 25.5 | 6-M16 |
| 4V-18 | A11 | M30x3.5 | 6-M20 | 35 | 32 | 66 | 165    | 43     | 51.22  | 18.22  | 108  | 100  | 62 | 25.5 | 4-M10 |
| 4V-18 | A15 | M30x3.5 | 6-M20 | 35 | 26 | 66 | 165    | 43     | 51.22  | 18.22  | 108  | 100  | 62 | 25.5 | 6-M24 |
| 4V-21 | A11 | M30x3.5 | 6-M24 | 41 | 35 | 74 | 180    | 60     | 72.5   | 24.5   | 89   | 81   | 65 | 25   | 6-M20 |
| 4V-21 | A15 | M30x3.5 | 6-M24 | 41 | 35 | 74 | 180    | 60     | 72.5   | 24.5   | 89   | 81   | 65 | 25   | 3-M12 |
| 4V-24 | A11 | M30x3.5 | 6-M24 | 41 | 35 | 74 | 180    | 60     | 93.5   | 24.5   | 128  | 120  | 65 | 25   | 6-M20 |
| 4V-24 | A15 | M30x3.5 | 6-M24 | 41 | 35 | 74 | 180    | 60     | 93.5   | 24.5   | 128  | 120  | 65 | 25   | 3-M12 |
| 4V-32 | A15 | M30x3.5 | 6-M24 | 36 | 35 | 74 | 180    | 60     | 189.5  | 24.5   | 128  | 120  | 65 | 25   | 3-M12 |



- 楔形四爪中實夾頭。
- 主爪可單獨手動調整行程，以利工件求心。
- 防切屑及防水設計，特別適合使用於立式車床。
- WEDGE-HOOK type 4-jaw high speed power chuck.
- With manual radial setting of master jaws for the workpiece centering.
- Sealed against swarf, chips and coolant, suitable for vertical lathe.

4V-40 A20  
4V-50 A20  
4V-63 A20  
Refer to Fig.A  
參閱圖A

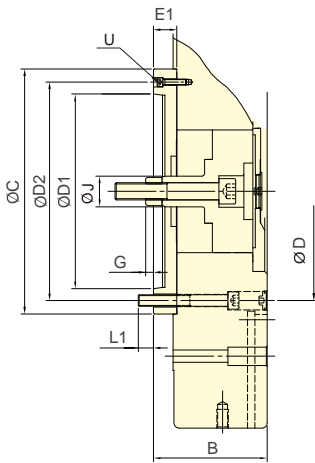
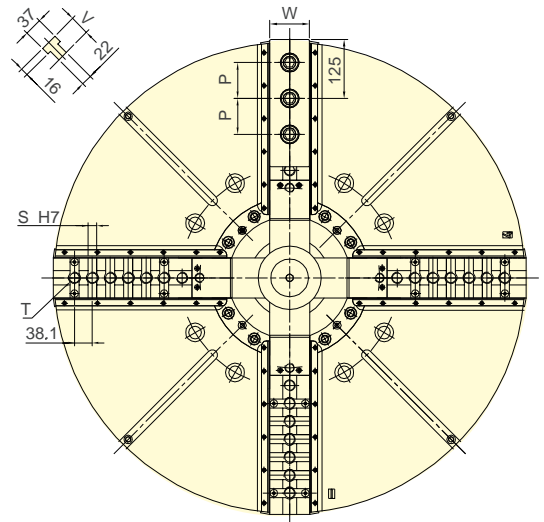
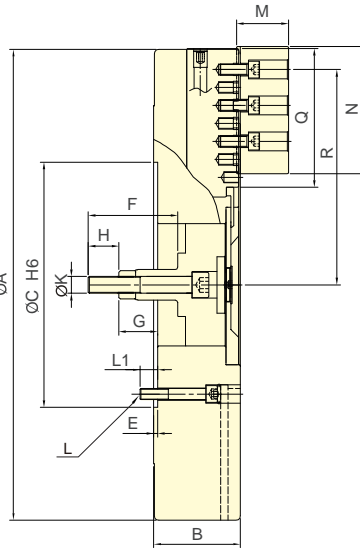


Fig.A  
圖A



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

### 技術規格 SPECIFICATIONS

| 型號    | 楔心行程                | 爪行程 (直徑)               | 夾持直徑 (Chucking Dia.)         | 容許最大入力                    | 最大夾持力                          | 最高迴轉數                                   | I  | 重量          | 適用迴轉缸         | 最大使用壓力                                     |                   |         |
|-------|---------------------|------------------------|------------------------------|---------------------------|--------------------------------|---|--|-------------|---------------|--|-------------------|---------|
| Model | Plunger stroke (mm) | Jaw stroke (Dia.) (mm) | 最大 Max. (mm)<br>最小 Min. (mm) | Max. D.B. pull (kN (kgf)) | Max. Clamping force (kN (kgf)) | Max. speed (min <sup>-1</sup> (r.p.m.)) | Moment of inertia (kg · m <sup>2</sup> ) | Weight (kg) | Matching cyl. | Max. pressure (MPa (kgf/cm <sup>2</sup> )) |                   |         |
| 4V-40 | A20                 | 57                     | 46+(60)                      | 1000                      | 310                            | 180(18350)                              | 320(32620)                               | 500         | 70 94         | 740 790                                    | RK-250            | 4.2(42) |
| 4V-50 | A20                 | 57                     | 46+(60)                      | 1250                      | 290                            | 180(18350)                              | 320(32620)                               | 450         | 222 224       | 1130 1180                                  | RE-250<br>RE-A250 | 4.2(42) |
| 4V-63 |                     | 60                     | 48+(80)                      | 1600                      | 390                            | 200(20390)                              | 360(36700)                               | 340         | 565           | 1800                                       | RE-L250           | 4.6(46) |

### 外型尺寸 DIMENSIONS

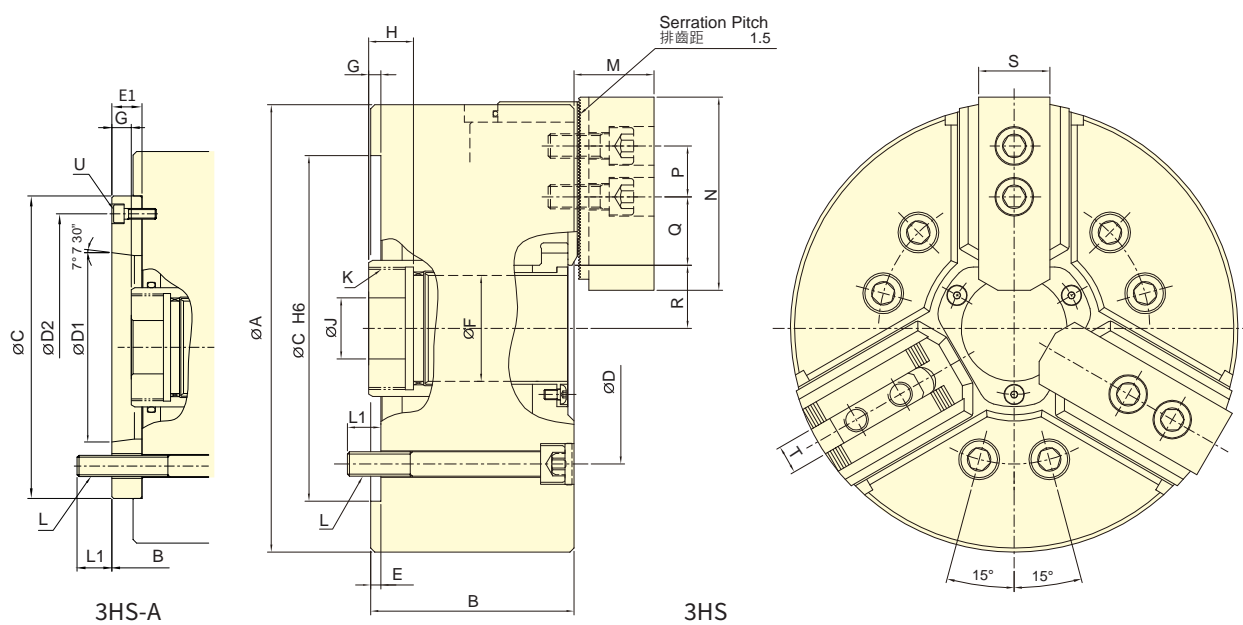
| Model | A   | B    | C   | D   | D1  | D2    | E      | E1    | F | G max. | G min. | H   | J  | K  |    |    |    |       |
|-------|-----|------|-----|-----|-----|-------|--------|-------|---|--------|--------|-----|----|----|----|----|----|-------|
| 4V-40 | A20 | 1000 | 184 | 226 | 520 | 463.6 | 412.78 | 463.6 | 8 | 50     | 190    | 123 | 73 | 66 | 16 | 65 | 65 | M36x4 |
| 4V-50 | A20 | 1250 | 200 | 242 | 520 | 463.6 | 412.78 | 463.6 | 8 | 50     | 190    | 123 | 73 | 66 | 16 | 65 | 65 | M36x4 |
| 4V-63 |     | 1600 | 240 | -   | 720 | 647.6 | -      | -     | 8 | -      | 214    | 131 | -  | 71 | -  | 65 | -  | M36x4 |

| Model | L   | L1  | M  | N   | P   | Q    | R max. | R min. | S   | T        | U      | V     | W  |     |
|-------|-----|-----|----|-----|-----|------|--------|--------|-----|----------|--------|-------|----|-----|
| 4V-40 | A20 | M24 | 37 | 110 | 270 | 76.2 | 295    | 457    | 404 | 6~19.03  | 7~M24  | 3~M12 | 42 | 84  |
| 4V-50 | A20 | M24 | 38 | 110 | 270 | 76.2 | 416    | 563    | 510 | 9~19.03  | 9~M24  | 3~M12 | 42 | 84  |
| 4V-63 |     | M30 | 46 | 110 | 270 | 76.2 | 540    | 738    | 674 | 12~19.03 | 13~M24 | -     | 42 | 110 |



- 全密封式設計，大幅降低保養頻率，提高生產效率。
- 夾頭內部可長時間潤滑，能防止切削水、切屑或異物的滲入，確保夾持精度與耐用度。
- 推薦適合無人化作業場合、鑄件和鍛件的乾式加工、高壓冷卻液下加工使用。特別適合使用於立式車床。
- 可依自動化生產需求訂製中心注水或注氣(選配)。
- Fully sealed design extends maintenance intervals, improving production efficiency.
- Sealed design ensures constant lubrication and protects against the ingress of coolant and chips, which guarantees clamping precision and durability.
- Suitable for lights-out manufacturing; dry machining of castings and forgings; or when high-pressure coolant is utilized. Especially ideal for vertical lathes.
- Media fed through central bore - available for coolant or air. (optional)



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

### 技術規格 SPECIFICATIONS

| 型號            | 楔心行程           | 爪行程 (直徑)          | 夾持直徑 Chucking Dia. |         | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     |                            | 適用迴轉缸         | 最大使用壓力        |         |
|---------------|----------------|-------------------|--------------------|---------|----------------|---------------------|----------------------------|---------------------|--------|----------------------------|---------------|---------------|---------|
| Model         | Plunger stroke | Jaw stroke (Dia.) | 最大 Max.            | 最小 Min. | Max. D.B. pull | Max. Clamping force | Max. speed                 | Moment of inertia   | Weight |                            | Matching cyl. | Max. pressure |         |
|               | mm             | mm                | mm                 | mm      | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     | MPa (kgf/cm <sup>2</sup> ) |               |               |         |
| <b>3HS-08</b> | <b>A6</b>      | 18                | 7.6                | 220     | 22             | 31.9(3250)          | 107(10900)                 | 5000                | 0.18   | 26.5                       | <b>28.1</b>   | TK-A853       | 2.6(26) |

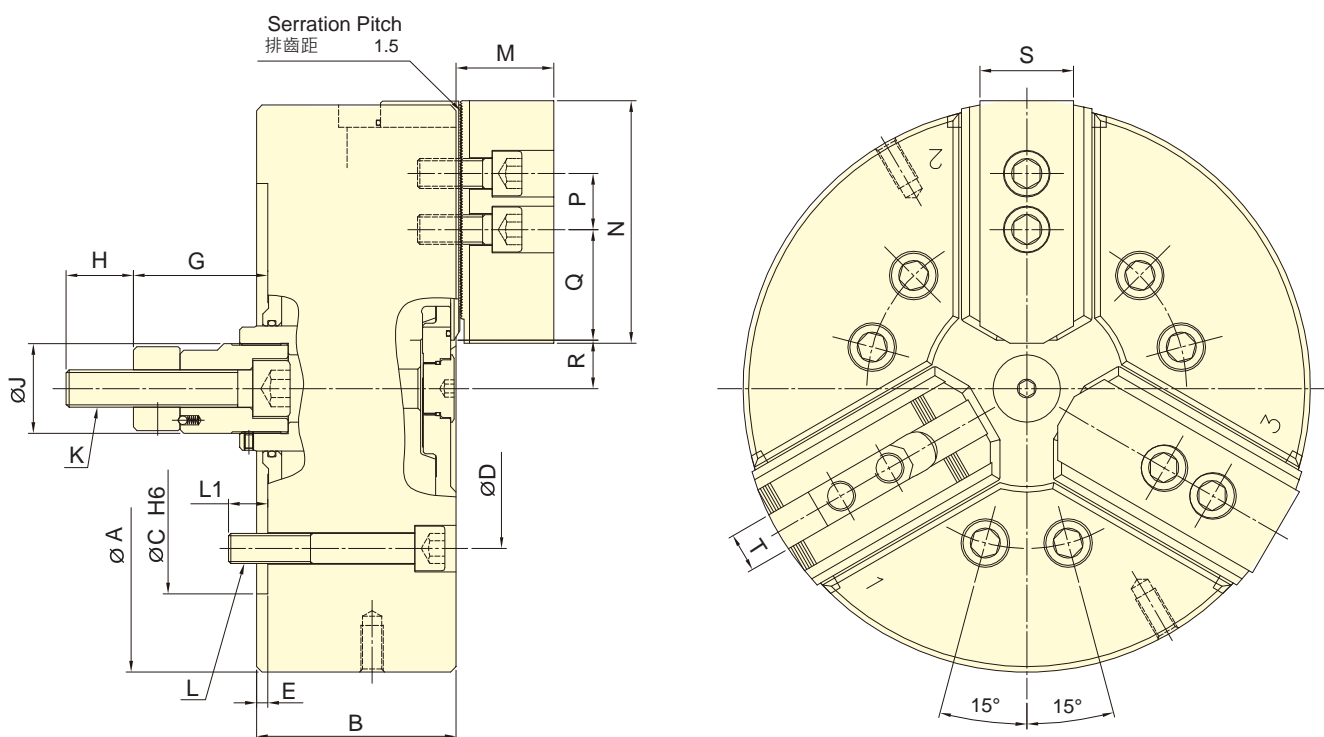
### 外型尺寸 DIMENSIONS

| Model         | A         | B         | C     | D          | D1  | D2        | E             | E1         | F      | G max.    |        | G min. |           | H  | J         |             |    |
|---------------|-----------|-----------|-------|------------|-----|-----------|---------------|------------|--------|-----------|--------|--------|-----------|----|-----------|-------------|----|
| <b>3HS-08</b> | <b>A6</b> | 220       | 98    | <b>110</b> | 170 | 133.4     | <b>106.38</b> | <b>150</b> | 5      | <b>17</b> | 52     | 20     | <b>15</b> | 2  | <b>-3</b> | 20          | 30 |
| Model         | K max.    | K Default | L     | L1         |     | M         | N             | P          | Q max. | Q min.    | R max. | R min. | S         | T  | U         |             |    |
| <b>3HS-08</b> | <b>A6</b> | M60x2     | M55x2 | 6~M12      | 19  | <b>17</b> | 39            | 95         | 25     | 47.75     | 29.75  | 29     | 25.2      | 35 | 14        | <b>3~M6</b> |    |

紅色數據為 3HS-A 型之尺寸 (The dimensions and the specifications of 3HS-A type are in red data.)



- 全密封式設計，減少保養頻率，提高生產效率。
- 夾頭內部可長時間潤滑，能防止切削水，切屑或異物的滲入，確保夾持精度與耐用度。
- 推薦適合無人化作業場合、鑄件和鍛件的乾式加工、高壓冷卻液下加工使用。特別適合使用於立式車床。
- 可依自動化生產需求訂製中心注水或注氣(選配)。
- Fully sealed design extends maintenance intervals, improving production efficiency.
- Sealed design ensures constant lubrication and protects against the ingress of coolant and chips, which guarantees clamping precision and durability.
- Suitable for lights-out manufacturing; dry machining of castings and forgings; or when high-pressure coolant is utilized. Especially ideal for vertical lathes.
- Media fed through central bore - available for coolant or air. (optional)



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

### 技術規格 SPECIFICATIONS

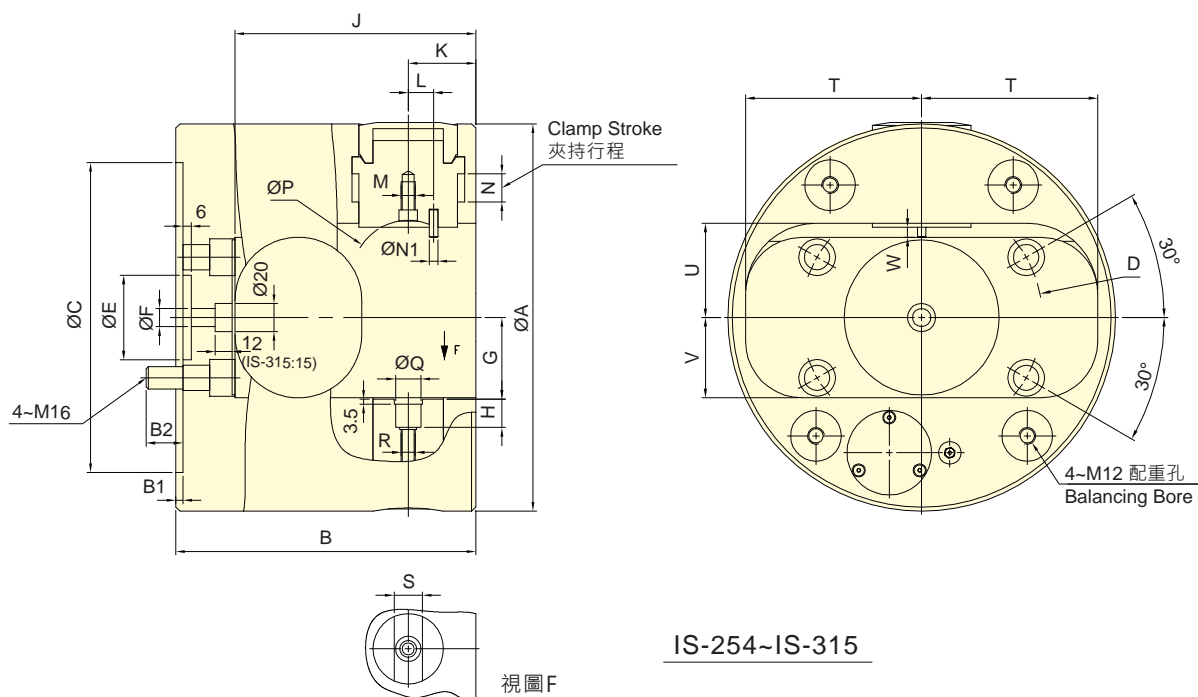
| 型號            | 楔心行程              | 爪行程<br>(直徑)          | 夾持直徑<br>Chuck Dia. |        | 容許最大<br>入力     | 最大夾持力                  | 最高迴轉數                      | I                    | 重量     | 適用迴轉缸               | 最大使用<br>壓力                 |
|---------------|-------------------|----------------------|--------------------|--------|----------------|------------------------|----------------------------|----------------------|--------|---------------------|----------------------------|
|               | Plunger<br>stroke | Jaw stroke<br>(Dia.) | 最大Max.             | 最小Min. | Max. D.B. pull | Max. clamping<br>force | Max. speed                 | Moment<br>of inertia | Weight | Matching cyl.       | Max. pressure              |
| Model         | mm                | mm                   | mm                 | mm     | kN(kgf)        | kN (kgf)               | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup>  | kg     |                     | MPa (kgf/cm <sup>2</sup> ) |
| <b>3PS-12</b> | 30                | 12.7                 | 315                | 22     | 38.5(3926)     | 160(16315)             | 3360                       | 0.84                 | 67     | RK-150(N)<br>RA-270 | 2.4 (24.4)<br>0.7 (7.4)    |

### 外型尺寸 DIMENSIONS

| Model         | A     | B   | C   | D     | E  | G<br>max. | G<br>min. | H         | J         | K       |    |
|---------------|-------|-----|-----|-------|----|-----------|-----------|-----------|-----------|---------|----|
| <b>3PS-12</b> | 315   | 106 | 220 | 171.4 | 6  | 102       | 72        | 39        | 48        | M20x2.5 |    |
| Model         | L     | L1  | M   | N     | P  | Q<br>max. | Q<br>min. | R<br>max. | R<br>min. | S       | T  |
| <b>3PS-12</b> | 6-M16 | 22  | 52  | 130   | 30 | 87.25     | 46.75     | 27        | 20.65     | 50      | 21 |



- 主軸運轉過程中進行分度操作，可於多個工作軸之間進行快速轉換。
- 夾頭內部零件均經硬化及精密研磨，並直接潤滑。
- 防水及防切屑設計。
- 高剛性結構及高重複精度。
- 獨特的分度系統及液壓系統，夾頭有壓力檢知機構，可靠性高。
- Indexing operates during the spindle rotation, can perform a quick change between multiple working axes.
- All parts of chuck hardened, ground and lubricated directly.
- Sealed against swarf, chips and coolant.
- High rigidity and high repeatability precision.
- Unique indexing system and hydraulic system, with pressure detection device in chuck, high reliability.



IS-254~IS-315

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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 分度角度<br>Index Angle<br>Deg | 爪行程<br>Jaw stroke<br>mm | 夾持範圍<br>Chuckling Area |                  | 容許油壓壓力<br>Max. pressure<br>kgf/cm <sup>2</sup> | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 油壓迴轉接頭組<br>ROTATING JOINT | 主軸內孔<br>Main Spindle Bore<br>mm |
|-------------|----------------------------|-------------------------|------------------------|------------------|--|--|---|---|--------------------|---------------------------|---------------------------------|
|             |                            |                         | 直徑Dia Max.<br>mm       | 長度Len Max.<br>mm |  |  |   |   |                    |                           |                                 |
| IS-254      | 4x90°                      | 20                      | 65                     | 160              | 45   | 19.5(1990)                               | 1700  | 0.41  | 41                 | IS-315                    | 70 以上                           |
| IS-275      | 4x90°                      | 20                      | 80                     | 220              | 45   | 25.4(2590)                               | 1500  | 0.61  | 52                 | IS-315                    | 70 以上                           |
| IS-315      | 4x90°                      | 20                      | 100                    | 230              | 45   | 25.0(2550)                               | 1200  | 1.13  | 76                 | IS-315                    | 70以上                            |

### 外型尺寸 DIMENSIONS

| Model  | A   | B   | B1 | B2 | C(H6) | D     | E  | F  | G    | H    | J   | K  |
|--------|-----|-----|----|----|-------|-------|----|----|------|------|-----|----|
| IS-254 | 254 | 190 | 5  | 23 | 220   | 171.4 | 60 | 13 | 47.5 | 18   | 155 | 48 |
| IS-275 | 275 | 213 | 5  | 26 | 220   | 171.4 | 60 | 13 | 58   | 20   | 171 | 48 |
| IS-315 | 315 | 232 | 5  | 22 | 220   | 171.4 | 60 | 13 | 71   | 18.5 | 187 | 50 |

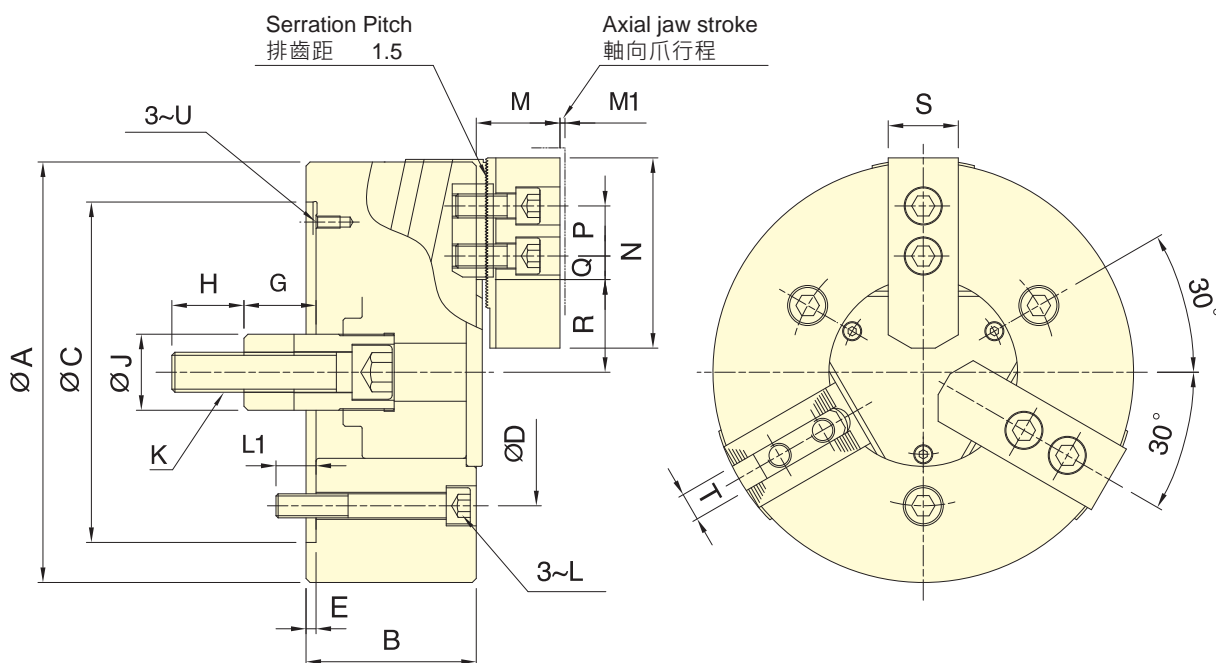
| Model  | L  | M   | N  | N1 | P  | Q(H7) | R   | S(H7) | T   | U  | V    | W   |
|--------|----|-----|----|----|----|-------|-----|-------|-----|----|------|-----|
| IS-254 | 13 | M8  | 20 | 5  | 40 | 18    | M10 | 20    | 106 | 57 | 46.5 | 5.5 |
| IS-275 | 18 | M10 | 20 | 6  | 80 | 18    | M10 | 20    | 125 | 67 | 57   | 7   |
| IS-315 | 18 | M10 | 20 | 6  | 75 | 24    | M12 | 25    | 125 | 85 | 70   | 7.5 |

\* 分度角度 8x45° 或特殊的角度，請逕洽本公司業務部。\*Index Angle 8x45° or Specific Angle, Please contact AUTOGRIP for more detailed information.Thanks.



- 中心防塵蓋端面經研磨處理，可做為工件或治具的基準靠模面。
- 內斜式主爪滑道(具有軸向行程的後拉效果)，改善工具夾持上浮情況，並可使用標準生爪。
- The surface of the center through cover is grinding treated, it can be the position base surface of the jig/workpiece.
- The slideway of main jaws is inclined. It improves the clamping force and reduces the upfloat situation of the workpiece.
- Work with standard top jaws.
- 氣密檢知 (選配)。
- 只能用於工件外夾。
- Airtight pressure detect function is optional.
- External gripping only.

特殊動力夾頭



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

### 技術規格 SPECIFICATIONS

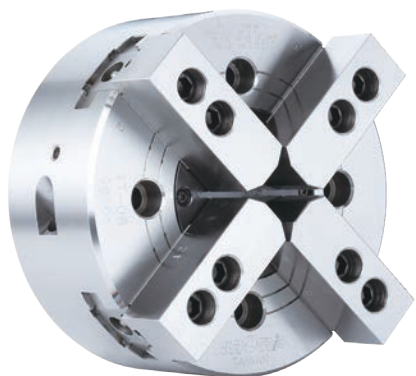
| 型號    | 楔心行程           | 爪行程 (直徑)          | 夾持直徑    |         | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     | 適用迴轉缸         | 最大使用壓力                     |
|-------|----------------|-------------------|---------|---------|----------------|---------------------|----------------------------|---------------------|--------|---------------|----------------------------|
|       |                |                   | 最大 Max. | 最小 Min. |                |                     |                            |                     |        |               |                            |
| Model | Plunger stroke | Jaw stroke (Dia.) | mm      | mm      | Max. D.B. pull | Max. Clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl. | Max. pressure              |
|       | mm             | mm                |         |         | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |               | MPa (kgf/cm <sup>2</sup> ) |
| 3N-06 | 20             | 8.1 (軸向 0.9)      | 165     | 14      | 18 (1835)      | 61.5 (6270)         | 5000                       | 0.05                | 11.1   | RK-100(N)     | 2.6 (26)                   |
| 3N-08 | 23             | 9.4 (軸向 1.0)      | 210     | 17      | 25 (2540)      | 85.8 (8750)         | 4500                       | 0.14                | 24.5   | RK-125(N)     | 2.2 (22)                   |
| 3N-10 | 25             | 10.2 (軸向 1.1)     | 254     | 22      | 29 (2950)      | 108 (11000)         | 4000                       | 0.32                | 34.5   | RK-150(N)     | 1.8 (18)                   |

### 外型尺寸 DIMENSIONS

| Model | A   | B  | C(H6) | D     | E | G max. | G min. | H  | J  | K       | L   |
|-------|-----|----|-------|-------|---|--------|--------|----|----|---------|-----|
| 3N-06 | 165 | 72 | 140   | 104.8 | 5 | 54.5   | 34.5   | 36 | 34 | M16x2   | M10 |
| 3N-08 | 210 | 85 | 170   | 133.4 | 5 | 59     | 36     | 36 | 38 | M20x2.5 | M12 |
| 3N-10 | 254 | 89 | 220   | 171.4 | 5 | 63     | 38     | 36 | 45 | M20x2.5 | M16 |

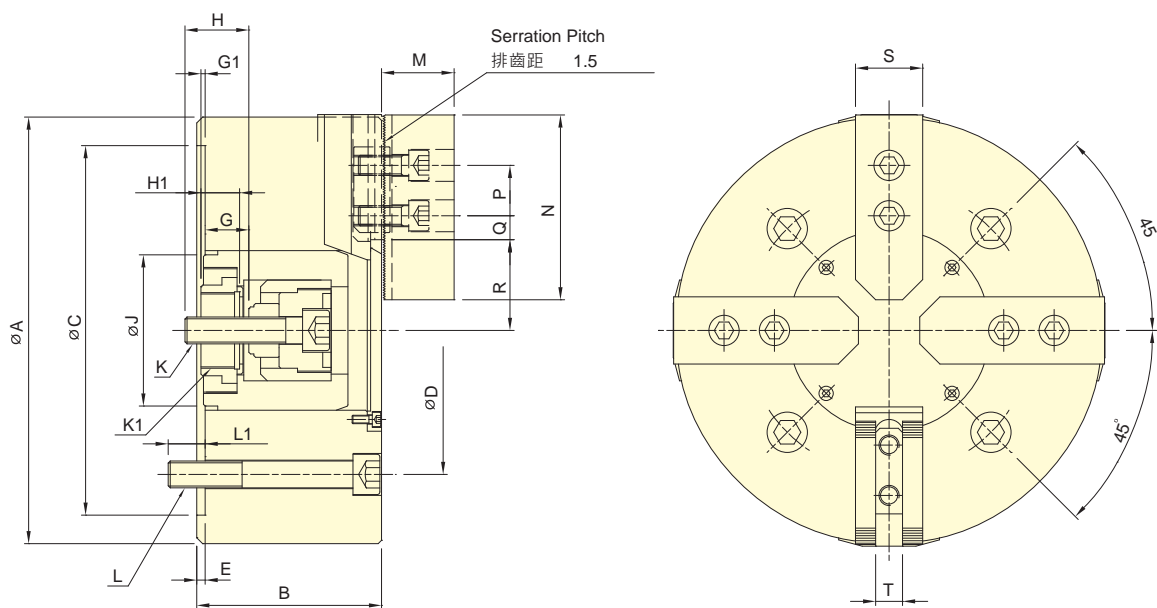
  

| Model | L1 | M  | M1  | N   | P  | Q max. | Q min. | R max. | R min. | S  | T  | U  |
|-------|----|----|-----|-----|----|--------|--------|--------|--------|----|----|----|
| 3N-06 | 16 | 41 | 0.9 | 73  | 20 | 15.25  | 7.75   | 38.3   | 34.25  | 31 | 12 | M6 |
| 3N-08 | 20 | 42 | 1.0 | 95  | 25 | 22.25  | 11.75  | 46.3   | 41.6   | 35 | 14 | M6 |
| 3N-10 | 24 | 47 | 1.1 | 110 | 30 | 33.75  | 11.25  | 52.1   | 47     | 40 | 16 | M8 |



- 曲柄型雙副兩爪各自動作之特殊夾頭。
  - 特別適用方形材或其他非規則形狀的工件。
  - CRANK type with two pairs of 2 jaws self center independent of each other.
  - The 4T series is suitable for square bar and other nonuniform shaped workpieces.
- 專利產品字號 Patent numbers :  
 台灣 : PAT.NO.M359385 (Taiwan)  
 大陸 : PAT.NO.ZL200920009309.1(China)

特殊動力夾頭



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持範圍<br>Chucking Range |                  | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|-------------|------------------------------|---|------------------------|------------------|--------------------------------------|--|---|---|--------------------|------------------------|---|
|             |                              |   | 最大<br>Max.<br>mm       | 最小<br>Min.<br>mm |                                      |  |   |   |                    |                        |   |
| 4T-08       | 17                           | 13.6                                      | 210                    | 24               | 16.0(1630)                           | 54.3(5540)                               | 3000  | 0.15  | 23.2               | RD-120(N)              | 1.7(17)   |
| 4T-10       | 20                           | 16  | 254                    | 50               | 21.6(2200)                           | 79.4(8100)                               | 2100  | 0.35  | 44.3               | RD-125(N)              | 2.2(22)   |
| 4T-12       | 20                           | 16  | 304                    | 50               | 21.6(2200)                           | 79.4(8100)                               | 1500  | 0.66  | 57.6               | RD-125(N)              | 2.2(22)   |
| 4T-15       | 25                           | 19.6                                      | 381                    | 60               | 27.2(2780)                           | 105.3(10750)                             | 1200  | 2.25  | 118.3              | RD-125(N)              | 2.7(27)   |

### 外型尺寸 DIMENSIONS

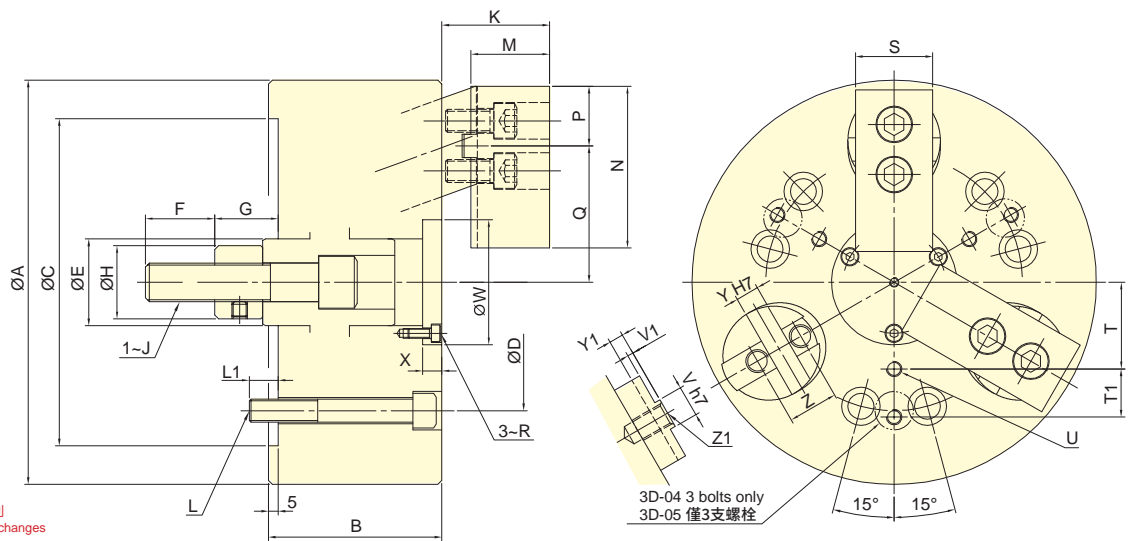
| Model | A   | B   | C(H6) | D     | E | G max. | G min. | G1 max. | G1 min. | H  | H1 | J   | K       |
|-------|-----|-----|-------|-------|---|--------|--------|---------|---------|----|----|-----|---------|
| 4T-08 | 210 | 91  | 170   | 133.4 | 5 | 32     | 15     | 2.5     | -14.5   | 29 | 20 | 61  | M14x2   |
| 4T-10 | 254 | 110 | 220   | 171.4 | 5 | 36.5   | 16.5   | 10      | -10     | 36 | 23 | 90  | M16x2   |
| 4T-12 | 304 | 110 | 220   | 171.4 | 5 | 36.5   | 16.5   | 10      | -10     | 36 | 23 | 90  | M16x2   |
| 4T-15 | 381 | 135 | 300   | 235   | 6 | 44.5   | 19.5   | 5       | -20     | 45 | 28 | 110 | M20x2.5 |

| Model | K1      | L     | L1 | M  | N   | P  | Q max. | Q min. | R max. | R min. | S  | T  |
|-------|---------|-------|----|----|-----|----|--------|--------|--------|--------|----|----|
| 4T-08 | M34x1.5 | 4~M2  | 20 | 38 | 95  | 25 | 25.25  | 13.25  | 46.1   | 39.3   | 35 | 14 |
| 4T-10 | M45x1.5 | 4~M16 | 25 | 43 | 110 | 30 | 32.25  | 12.75  | 59     | 51     | 40 | 16 |
| 4T-12 | M45x1.5 | 4~M16 | 25 | 43 | 110 | 30 | 54.75  | 15.75  | 59     | 51     | 40 | 16 |
| 4T-15 | M55x2   | 4~M20 | 30 | 51 | 130 | 30 | 66.5   | 12.5   | 78.9   | 69.1   | 50 | 21 |





- 可同時將工件做徑向夾持與軸向後拉，使工件不上浮並緊貼座金基準面。
  - 高剛性硬化處理的本體與圓柱後拉機構，並經過軸孔精搪，確保夾持精度與耐用度。
  - Radial clamp and axial pull down at the same time, keep the workpiece attaching close to the base surface of the chuck.
  - Almost no workpiece uplifting displacement.
  - The body and the cylinder pull-down mechanism are heat-treated and fine boring, which guarantee the clamping precision and durability.
- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.



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

### 技術規格 SPECIFICATIONS

| 型號    | 楔心行程           | 爪行程 (直徑)          | 夾持直徑 Chucking Dia. |         | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     | 適用迴轉缸         | 最大使用壓力                     |
|-------|----------------|-------------------|--------------------|---------|----------------|---------------------|----------------------------|---------------------|--------|---------------|----------------------------|
| Model | Plunger stroke | Jaw stroke (Dia.) | 最大 Max.            | 最小 Min. | Max. D.B. pull | Max. Clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl. | Max. pressure              |
|       | mm             | mm                | mm                 | mm      | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |               | MPa (kgf/cm <sup>2</sup> ) |
| 3D-04 | 7              | 5                 | 110                | 13      | 6.0(612)       | 10.5(1070)          | 3500                       | 0.007               | 4.5    | RK-75         | 1.6(16.5)                  |
| 3D-05 | 7              | 5                 | 135                | 21      | 10.0(1020)     | 17.0(1730)          | 3500                       | 0.018               | 7.9    | RK-75         | 2.7(27.5)                  |
| 3D-06 | 10             | 7.2               | 165                | 22      | 15.0(1530)     | 25.0(2550)          | 3500                       | 0.051               | 15     | RK-100        | 2.1(21.4)                  |
| 3D-08 | 10             | 7.2               | 210                | 28      | 25.0(2550)     | 45.0(4590)          | 3000                       | 0.15                | 26     | RK-125        | 2.2(22.5)                  |
| 3D-10 | 15             | 10.8              | 254                | 35      | 35.0(3569)     | 60.0(6118)          | 2500                       | 0.37                | 46     | RK-125        | 3.1(31.6)                  |
| 3D-12 | 15             | 10.8              | 304                | 50      | 45.0(4590)     | 75.0(7650)          | 2000                       | 0.79                | 70     | RK-150        | 2.8(28.5)                  |
| 3D-15 | 20             | 14.5              | 381                | 60      | 53.9(5500)     | 90.0(9180)          | 1500                       | 2.25                | 132    | RK-150        | 3.4(34.2)                  |

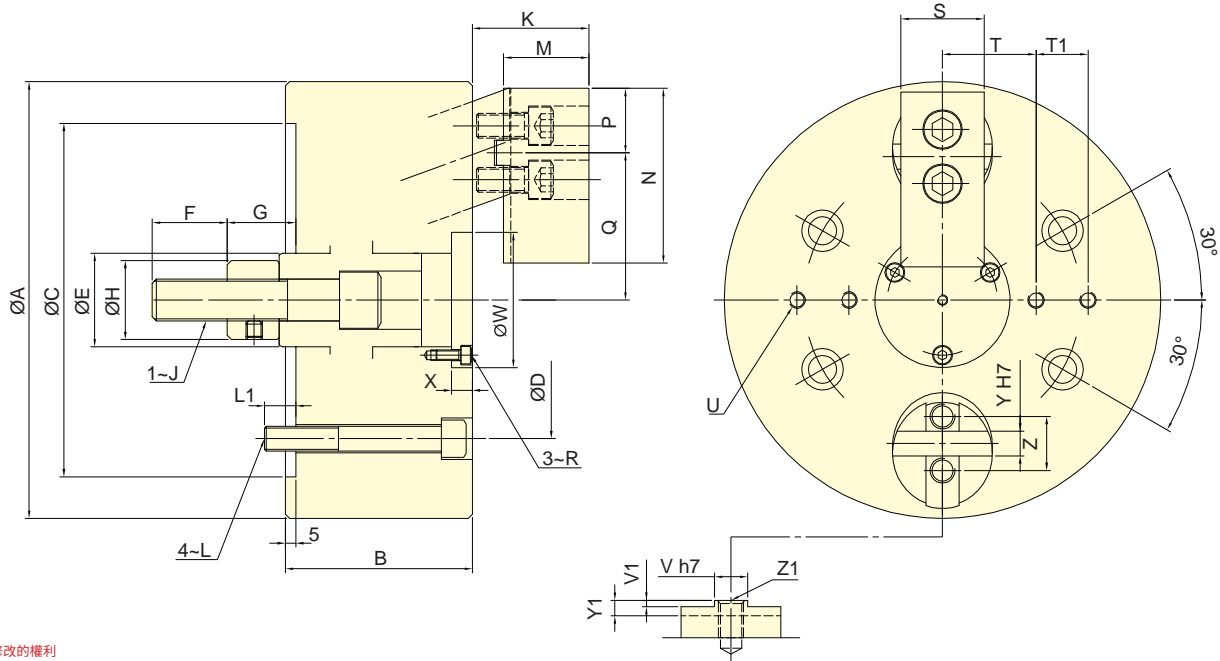
### 外型尺寸 DIMENSIONS

| Model | A   | B   | C (H6) | D     | E  | F  | G max. | G min. | H  | J   | K max. | K min. | L     | L1 | M    | N   | P  |
|-------|-----|-----|--------|-------|----|----|--------|--------|----|-----|--------|--------|-------|----|------|-----|----|
| 3D-04 | 110 | 60  | 85     | 70.6  | 25 | 20 | 22     | 15     | 25 | M10 | 30     | 23     | 3-M10 | 15 | 19.5 | 50  | 22 |
| 3D-05 | 135 | 70  | 110    | 82.6  | 30 | 25 | 24     | 17     | 28 | M12 | 35     | 28     | 3-M10 | 16 | 24.5 | 56  | 23 |
| 3D-06 | 165 | 85  | 140    | 104.8 | 35 | 36 | 37     | 27     | 32 | M16 | 45     | 35     | 6-M10 | 16 | 31   | 70  | 27 |
| 3D-08 | 210 | 90  | 170    | 133.4 | 45 | 36 | 38     | 28     | 38 | M20 | 56     | 46     | 6-M12 | 15 | 41   | 84  | 31 |
| 3D-10 | 254 | 110 | 220    | 171.4 | 55 | 46 | 47     | 32     | 50 | M24 | 65     | 50     | 6-M16 | 24 | 46   | 100 | 38 |
| 3D-12 | 304 | 125 | 220    | 171.4 | 55 | 50 | 49.5   | 34.5   | 53 | M27 | 70     | 55     | 6-M16 | 22 | 51   | 120 | 42 |
| 3D-15 | 381 | 140 | 300    | 235   | 70 | 55 | 61     | 41     | 55 | M30 | 86     | 66     | 6-M20 | 30 | 60   | 165 | 60 |

| Model | Q max. | Q min. | R  | S  | T    | T 1 | U     | V (h7) | V 1 | W   | X  | Y(H7) | Y1  | Z  | Z1  |
|-------|--------|--------|----|----|------|-----|-------|--------|-----|-----|----|-------|-----|----|-----|
| 3D-04 | 37     | 34.5   | M3 | 25 | 22.5 | -   | 3-M6  | 8      | 2.5 | 35  | 2  | 8     | 6   | -  | M10 |
| 3D-05 | 46     | 43.5   | M3 | 30 | 27.5 | -   | 3-M6  | 8      | 2.5 | 44  | 2  | 8     | 6   | -  | M12 |
| 3D-06 | 57.7   | 54.3   | M4 | 35 | 35   | 20  | 6-M6  | 10     | 2.5 | 52  | 7  | 10    | 6.5 | -  | M14 |
| 3D-08 | 70.8   | 67.2   | M5 | 40 | 45   | 25  | 6-M8  | 16     | 3   | 65  | 10 | 12    | 7.5 | 26 | M12 |
| 3D-10 | 85     | 79.6   | M6 | 50 | 55   | 30  | 6-M8  | 18     | 3   | 75  | 12 | 15    | 7.5 | 32 | M14 |
| 3D-12 | 101.9  | 96.5   | M6 | 60 | 70   | 35  | 6-M10 | 20     | 3   | 90  | 12 | 17    | 7.5 | 36 | M16 |
| 3D-15 | 135.6  | 128.3  | M8 | 70 | 95   | 45  | 6-M12 | 24     | 4   | 120 | 13 | 20    | 6   | 40 | M16 |



- 可同時將工件做徑向夾持與軸向後拉，使工件不上浮並緊貼座金基準面。
- 高剛性硬化處理的本體與圓柱後拉機構，並經過軸孔精搪，確保夾持精度與耐用度。
- Radial clamp and axial pull down at the same time, keep the workpiece attaching close to the base surface of the chuck.
- Almost no workpiece uplifting displacement.
- The body and the cylinder pull-down mechanism are heat-treated and fine boring, which guarantee the clamping precision and durability.
- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.



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

### 技術規格 SPECIFICATIONS

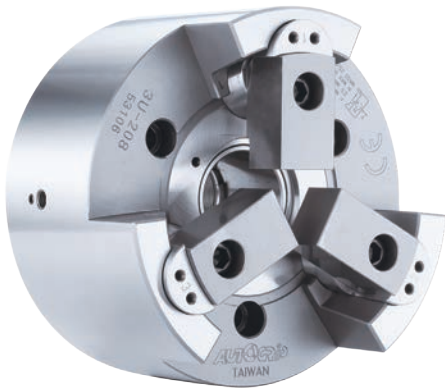
| 型號    | 楔心行程           | 爪行程 (直徑)          | 夾持直徑 |      | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     | 適用迴轉缸         | 最大使用壓力                     |
|-------|----------------|-------------------|------|------|----------------|---------------------|----------------------------|---------------------|--------|---------------|----------------------------|
|       |                |                   | 最大   | 最小   |                |                     |                            |                     |        |               |                            |
| Model | Plunger stroke | Jaw stroke (Dia.) | Max. | Min. | Max. D.B. pull | Max. Clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl. | Max. pressure              |
|       | mm             | mm                | mm   | mm   | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |               | MPa (kgf/cm <sup>2</sup> ) |
| 2D-06 | 10             | 7.2               | 165  | 22   | 10.0(1020)     | 16.7(1700)          | 3500                       | 0.045               | 12     | RK-100        | 1.4(14.3)                  |
| 2D-08 | 10             | 7.2               | 210  | 28   | 16.7(1700)     | 30.0(3060)          | 3500                       | 0.13                | 23     | RK-125        | 1.5(15)                    |
| 2D-10 | 15             | 10.8              | 254  | 35   | 23.3(2379)     | 40.0(4079)          | 2500                       | 0.34                | 43     | RK-125        | 2.1(21.1)                  |

### 外型尺寸 DIMENSIONS

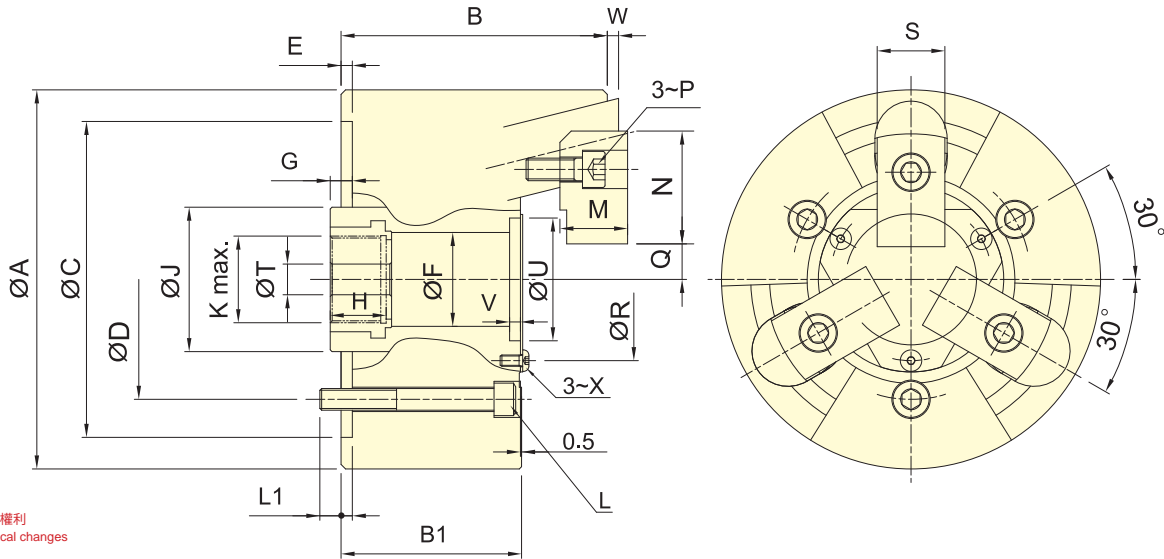
| Model | A   | B   | C (H6) | D     | E  | F  | G max. | G min. | H  | J   | K max. | K min. | L   | L1 | M  | N   | P  |
|-------|-----|-----|--------|-------|----|----|--------|--------|----|-----|--------|--------|-----|----|----|-----|----|
| 2D-06 | 165 | 85  | 140    | 104.8 | 35 | 36 | 37     | 27     | 32 | M16 | 45     | 35     | M10 | 16 | 31 | 70  | 27 |
| 2D-08 | 210 | 90  | 170    | 133.4 | 45 | 36 | 38     | 28     | 38 | M20 | 56     | 46     | M12 | 15 | 41 | 84  | 31 |
| 2D-10 | 254 | 110 | 220    | 171.4 | 55 | 46 | 47     | 32     | 50 | M24 | 65     | 50     | M16 | 24 | 46 | 100 | 38 |

| Model | Q max. | Q min. | R  | S  | T  | T1 | U    | V (h7) | V1  | W  | X  | Y (H7) | Y1  | Z  | Z1  |
|-------|--------|--------|----|----|----|----|------|--------|-----|----|----|--------|-----|----|-----|
| 2D-06 | 57.7   | 54.3   | M4 | 35 | 35 | 20 | 4~M6 | 10     | 2.5 | 52 | 7  | 10     | 6.5 | -  | M14 |
| 2D-08 | 70.8   | 67.2   | M5 | 40 | 45 | 25 | 4~M8 | 16     | 3   | 65 | 10 | 12     | 7.5 | 26 | M12 |
| 2D-10 | 85     | 79.6   | M6 | 50 | 55 | 30 | 4~M8 | 18     | 3   | 75 | 12 | 15     | 7.5 | 32 | M14 |



- 銷柱後拉型三爪中空夾頭。
- 高夾持力及高精度。
- 特別適合使用於需要重切削的場合。
- Pin-Arbor Draw Down type 3-jaw thru-hole power chuck.
- High radial gripping force and high accuracy.
- Suitable for heavy machining.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 楔心行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持直徑<br>Chucking Dia. |            | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|-------------|------------------------------|---|-----------------------|------------|--------------------------------------|--|---|---|--------------------|------------------------|---|
|             |                              |   | 最大<br>Max.            | 最小<br>Min. |                                      |  |   |   |                    |                        |   |
| 3U-203      | 4                            | 2   | 42                    | 14         | 5.8(590)                             | 16.7(1700)                               | 10000   | 0.001   | 1.8                | RK-75(N)               | 1.6(16)   |
| 3U-204      | 6                            | 3   | 60                    | 10         | 10.0(1020)                           | 28.4(2900)                               | 8000  | 0.005   | 3.9                | RK-75(N)               | 2.7(27)   |
| 3U-205      | 6                            | 3   | 84                    | 15         | 13.9(1420)                           | 39.7(4050)                               | 8000  | 0.012   | 6.8                | RK-100(N)              | 2.0(20)   |
| 3U-206      | 10                           | 5   | 105                   | 24         | 17.9(1830)                           | 57.8(5900)                               | 7000  | 0.055   | 14.7               | RK-100(N)              | 2.6(26)   |
| 3U-208      | 12                           | 6   | 132                   | 25         | 25.0(2550)                           | 80.0(8150)                               | 6000  | 0.14  | 25.5               | RK-125(N)              | 2.2(22)   |
| 3U-210      | 10                           | 5   | 163                   | 34         | 31.0(3160)                           | 100.0(10100)                             | 4500  | 0.36  | 43.5               | RK-125(N)              | 3.1(31)   |
| 3U-212      | 10                           | 5   | 210                   | 81         | 35.0(3570)                           | 100.0(10100)                             | 3600  | 0.68  | 63.0               | RK-125(N)              | 3.1(31)   |

### 外型尺寸 DIMENSIONS

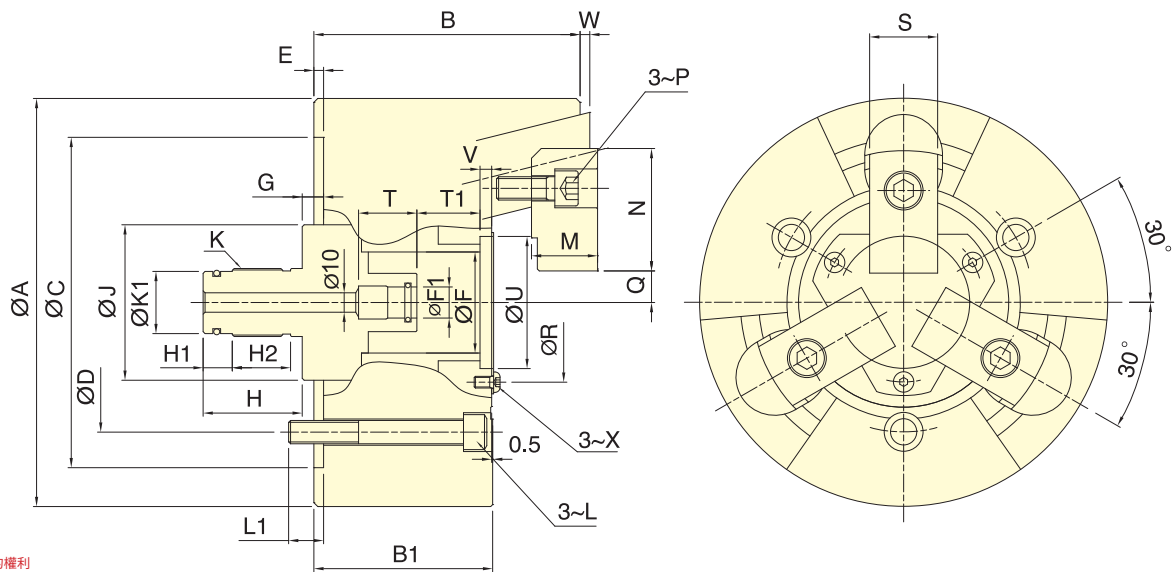
| Model  | A   | B    | B1  | C(H6) | D     | E   | F   | G max. | G min. | H    | J   | K       | L     | L1   |
|--------|-----|------|-----|-------|-------|-----|-----|--------|--------|------|-----|---------|-------|------|
| 3U-203 | 85  | 54.5 | 42  | 70    | 54    | 3.5 | 25  | 18     | 14     | 22   | 38  | M20x1.5 | 3~M8  | 11   |
| 3U-204 | 110 | 72.5 | 55  | 85    | 70.6  | 4   | 30  | 16     | 10     | 24.5 | 42  | M24x1.5 | 3~M10 | 12   |
| 3U-205 | 135 | 84.5 | 63  | 110   | 82.6  | 4   | 35  | 16     | 10     | 26   | 50  | M28x1.5 | 3~M10 | 15   |
| 3U-206 | 168 | 118  | 80  | 140   | 104.8 | 5   | 45  | 20     | 10     | 31   | 60  | M38x1.5 | 3~M10 | 16.5 |
| 3U-208 | 210 | 137  | 92  | 170   | 133.4 | 5   | 52  | 23     | 11     | 31   | 80  | M48x2   | 3~M12 | 18   |
| 3U-210 | 254 | 152  | 102 | 220   | 171.4 | 5   | 75  | 25     | 15     | 37   | 105 | M68x2   | 3~M16 | 23   |
| 3U-212 | 304 | 157  | 102 | 220   | 171.4 | 5   | 100 | 25     | 15     | 37   | 135 | M92x2   | 3~M16 | 26   |

| Model  | M  | N    | P   | Q max. | Q min. | R   | S  | T  | U(H6) | V   | W max. | W min. | X   |
|--------|----|------|-----|--------|--------|-----|----|----|-------|-----|--------|--------|-----|
| 3U-203 | 12 | 26   | M5  | 7.5    | 6.5    | 38  | 15 | 10 | 32    | 3.5 | 2      | -2     | M3  |
| 3U-204 | 17 | 40   | M6  | 10.75  | 9.25   | 46  | 20 | 10 | 38    | 4   | 3      | -3     | M4  |
| 3U-205 | 20 | 41.5 | M8  | 13.25  | 11.75  | 55  | 24 | 10 | 45    | 5   | 3      | -3     | M5  |
| 3U-206 | 30 | 50   | M10 | 15.75  | 13.25  | 72  | 30 | 17 | 58    | 6   | 5      | -5     | M5  |
| 3U-208 | 34 | 63   | M12 | 16.25  | 13.25  | 82  | 35 | 17 | 68    | 6   | 5      | -7     | M6  |
| 3U-210 | 39 | 74   | M14 | 20.75  | 18.25  | 107 | 40 | 17 | 93    | 6   | 5      | -5     | M8  |
| 3U-212 | 44 | 74   | M14 | 44.25  | 41.75  | 130 | 40 | 17 | 114   | 6   | 5      | -5     | M10 |



- 銷柱後拉型三爪中實夾頭。
- 高夾持力及高精度。
- 特別適合使用於需要重切削の場合。
- 可配合氣密檢知，進行軸向位置確認，適合長度尺寸精度的要求。
- Pin-Arbor Draw Down type 3-jaw non-thru-hole power chuck.
- High radial gripping force and high accuracy.
- Suitable for heavy machining.
- Can work with the airtight detection device to perform axial position confirm, suitable for the precision of large length size process.

特殊動力夾頭



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

### 技術規格 SPECIFICATIONS

| 型號      | 楔行程            | 爪行程<br>(直徑)       | 夾持直徑<br>Chuck Dia. |         | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     | 適用迴轉缸            | 最大使用壓力                     |
|---------|----------------|-------------------|--------------------|---------|----------------|---------------------|----------------------------|---------------------|--------|------------------|----------------------------|
| Model   | Plunger stroke | Jaw stroke (Dia.) | 最大 Max.            | 最小 Min. | Max. D.B. pull | Max. Clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl.    | Max. pressure              |
|         | mm             | mm                | mm                 | mm      | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |                  | MPa (kgf/cm <sup>2</sup> ) |
| 3U-205K | 6              | 3                 | 84                 | 15      | 13.9(1420)     | 39.7(4050)          | 8000                       | 0.018               | 6.8    | RL-100, RL-A100N | 2.0(20)                    |
| 3U-206K | 10             | 5                 | 105                | 24      | 17.9(1830)     | 57.8(5900)          | 7000                       | 0.055               | 14.9   | RL-100, RL-A100N | 2.5(25)                    |
| 3U-208K | 12             | 6                 | 132                | 25      | 25.0(2550)     | 80.0(8150)          | 6000                       | 0.14                | 25.8   | RL-125, RL-A125N | 2.2(22)                    |
| 3U-210K | 10             | 5                 | 163                | 34      | 31.0(3160)     | 100(10100)          | 4500                       | 0.36                | 44.0   | RL-125, RL-A125N | 3.1(31)                    |
| 3U-212K | 10             | 5                 | 210                | 81      | 35.0(3570)     | 100(10100)          | 3600                       | 0.68                | 63.8   | RL-125, RL-A125N | 3.1(31)                    |

### 外型尺寸 DIMENSIONS

| Model   | A   | B    | B1  | C(H6) | D     | E | F   | F1(H8) | G max. | G min. | H  | H1 | H2 | J   | K       | K1 | L   |
|---------|-----|------|-----|-------|-------|---|-----|--------|--------|--------|----|----|----|-----|---------|----|-----|
| 3U-205K | 135 | 84.5 | 63  | 110   | 82.6  | 4 | 35  | 14     | 16     | 10     | 42 | 12 | -  | 50  | M25x1.5 | 22 | M10 |
| 3U-206K | 168 | 118  | 80  | 140   | 104.8 | 5 | 45  | 14     | 20     | 10     | 48 | 12 | 30 | 60  | M28x1.5 | 24 | M10 |
| 3U-208K | 210 | 137  | 92  | 170   | 133.4 | 5 | 52  | 16     | 23     | 11     | 51 | 15 | 30 | 80  | M35x1.5 | 30 | M12 |
| 3U-210K | 254 | 152  | 102 | 220   | 171.4 | 5 | 75  | 16     | 25     | 15     | 51 | 15 | 30 | 105 | M38x1.5 | 34 | M16 |
| 3U-212K | 304 | 157  | 102 | 220   | 171.4 | 5 | 100 | 16     | 25     | 15     | 51 | 15 | 30 | 135 | M45x1.5 | 40 | M16 |

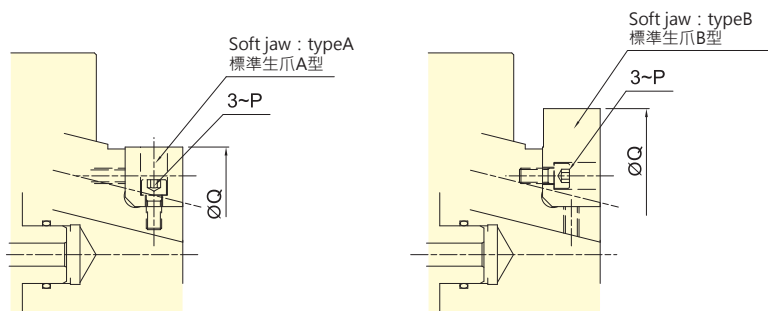
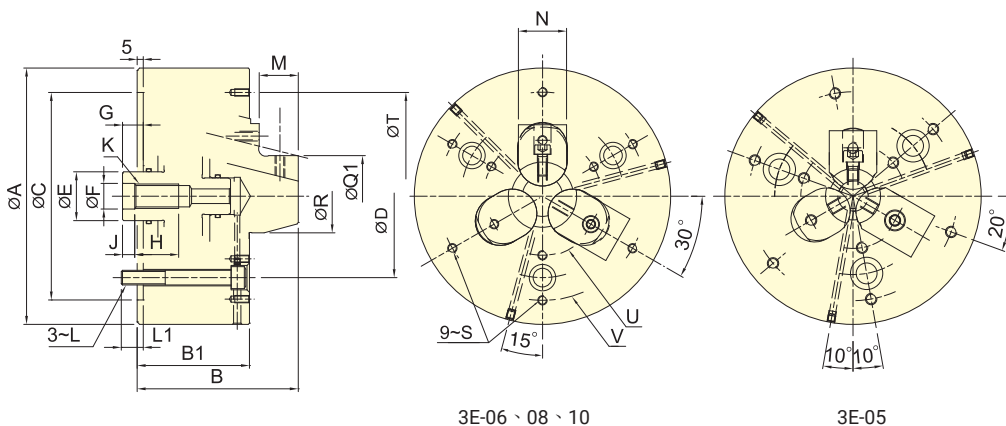
  

| Model   | L1   | M  | N    | P   | Q max. | Q min. | R   | S  | T  | T1   | U(H6) | V | W max. | W min. | X   |
|---------|------|----|------|-----|--------|--------|-----|----|----|------|-------|---|--------|--------|-----|
| 3U-205K | 15   | 20 | 41.5 | M8  | 13.25  | 11.75  | 55  | 24 | 25 | 15.5 | 45    | 5 | 3      | -3     | M5  |
| 3U-206K | 16.5 | 30 | 50   | M10 | 15.75  | 13.25  | 72  | 30 | 30 | 26.5 | 58    | 6 | 5      | -5     | M5  |
| 3U-208K | 18   | 34 | 63   | M12 | 16.25  | 13.25  | 82  | 35 | 30 | 32.5 | 68    | 6 | 5      | -7     | M6  |
| 3U-210K | 23   | 39 | 74   | M14 | 20.75  | 18.25  | 107 | 40 | 30 | 36.5 | 93    | 6 | 5      | -5     | M8  |
| 3U-212K | 26   | 44 | 74   | M14 | 44.25  | 41.75  | 130 | 40 | 30 | 36.5 | 114   | 6 | 5      | -5     | M10 |



- 適用於內徑夾持。
- 可同時將工件做徑向夾持與軸向後拉，使工件不上浮並緊貼座金基準面。
- 高精度安定性，適合最後製程加工。
- Suitable for internal gripping.
- Radial clamp and axial pull down at the same time, keep the workpiece attaching close to the base surface of the chuck.
- Almost no workpiece uplifting displacement.
- With high precision and stability that chuck suitable for end process.
- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.

特殊動力夾頭



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

### 技術規格 SPECIFICATIONS

| 型號    | 楔心行程           | 爪行程 (直徑)          | 夾持直徑 Chucking Dia. |        | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     | 適用迴轉缸         | 最大使用壓力                     |
|-------|----------------|-------------------|--------------------|--------|----------------|---------------------|----------------------------|---------------------|--------|---------------|----------------------------|
| Model | Plunger stroke | Jaw stroke (Dia.) | 最大Max.             | 最小Min. | Max. D.B. pull | Max. Clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl. | Max. pressure              |
|       | mm             | mm                | mm                 | mm     | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |               | MPa (kgf/cm <sup>2</sup> ) |
| 3E-05 | 6              | 3                 | 83                 | 29     | 13.0(1325)     | 42.0(4280)          | 7000                       | 0.018               | 7.5    | RK-100        | 1.8(18.5)                  |
| 3E-06 | 10             | 5                 | 110                | 44     | 18.0(1835)     | 58.0(5910)          | 6000                       | 0.042               | 13.6   | RK-100        | 2.5(25.6)                  |
| 3E-08 | 10             | 5                 | 150                | 50     | 25.0(2530)     | 80.0(8150)          | 5000                       | 0.14                | 26.5   | RK-125        | 2.2(22.5)                  |
| 3E-10 | 10             | 5                 | 190                | 60     | 35.0(3570)     | 100.0(10200)        | 3600                       | 0.31                | 39.5   | RK-150        | 2.8(28.5)                  |

### 外型尺寸 DIMENSIONS

| Model | A   | B   | B1  | C (H6) | D     | E  | F (H8) | G max. | G min. | H  | J  | K   | L   | L1 |
|-------|-----|-----|-----|--------|-------|----|--------|--------|--------|----|----|-----|-----|----|
| 3E-05 | 135 | 98  | 72  | 110    | 82.6  | 25 | 18     | 18     | 12     | 25 | 8  | M16 | M10 | 15 |
| 3E-06 | 165 | 112 | 80  | 140    | 104.8 | 35 | 18     | 22     | 12     | 30 | 8  | M16 | M10 | 16 |
| 3E-08 | 210 | 135 | 90  | 170    | 133.4 | 40 | 21     | 22     | 12     | 36 | 10 | M20 | M12 | 18 |
| 3E-10 | 254 | 152 | 102 | 220    | 171.4 | 50 | 25     | 25     | 15     | 48 | 10 | M24 | M16 | 23 |

| Model | M  | N  | P   | type A |        | type B |        | Q1   |      | R  | S     | T   | U (p.c.d) | V (p.c.d) |
|-------|----|----|-----|--------|--------|--------|--------|------|------|----|-------|-----|-----------|-----------|
|       |    |    |     | Q max. | Q min. | Q max. | Q min. | max. | min. |    |       |     |           |           |
| 3E-05 | 20 | 25 | M6  | 68     | 50     | 83     | 67     | 50   | 29   | 25 | M6x12 | 110 | 55        | 110       |
| 3E-06 | 23 | 31 | M6  | 90     | 70     | 110    | 89     | 70   | 44   | 40 | M6x12 | 130 | 76        | 134       |
| 3E-08 | 30 | 35 | M8  | 110    | 90     | 150    | 108    | 90   | 50   | 49 | M6x12 | 170 | 100       | 170       |
| 3E-10 | 35 | 40 | M10 | 127    | 110    | 190    | 125    | 110  | 60   | 59 | M8x16 | 210 | 120       | 210       |

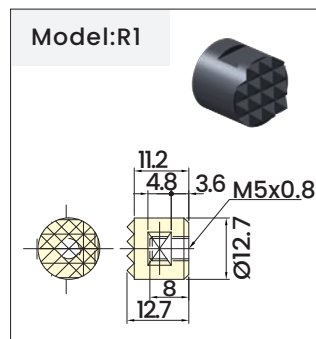
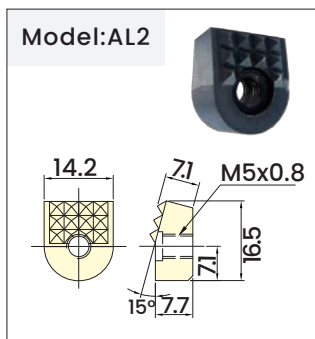
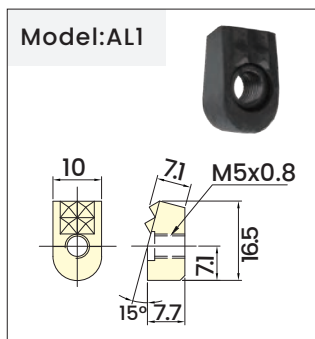


特殊動力夾頭

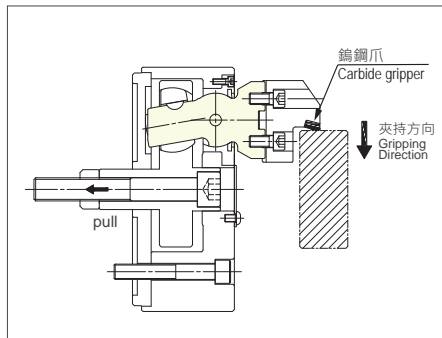
- 三爪擺動夾持工件。(自動求心型 3W)
  - 適合鑄件及鍛件等原材料進行加工。
  - 特別適合使用於需要重切削的場合。
  - 防塵及防切削液密封圈，使保養工作更加便利。
  - 擺動機構零件均以合金鋼加以熱處理硬化及研磨，以提升產品使用壽命。
  - 三爪擺動夾持工件。(定心補償型 3W-C)
  - 工件偏心補償量2mm，中心頂針定位。
- Swing and grasp the workpiece to three jaw. (3W is automatically positioned to the center type.)
  - Suitable for such materials as the casting and forging to process.
  - Suitable for heavy machining.
  - Seal proof for dust and cutting fluid, it is more convenient when maintenance.
  - Swing parts are to heat treatment hardened and ground for steel, in order to improve products service life.
  - Swing and grasp the workpiece to three jaw.(3W-C is center compensation type.)
  - The workpieces compensation of eccentric is 2 mm, fixed position for the center thimble.

- 可搭配鎢鋼爪，根據工件條件選擇鎢鋼爪型式。(選購品)
- 依不同加工需求，外徑夾持可旋轉為內徑夾持。
- Carbide gripper is optional.  
\* The type of the carbide gripper is selected according to the work-piece conditions.
- According to different processing requirements, O.D. Gripping and I.D. Gripping can be interchanged.

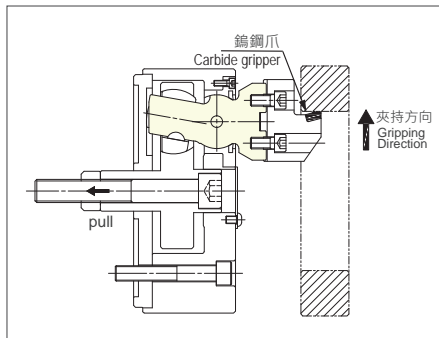
### 鎢鋼爪型式 Type of the Carbide gripper



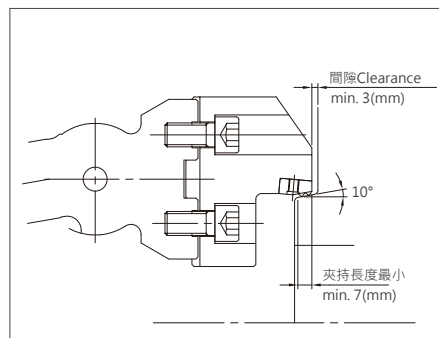
### 外徑夾持 O.D. Gripping

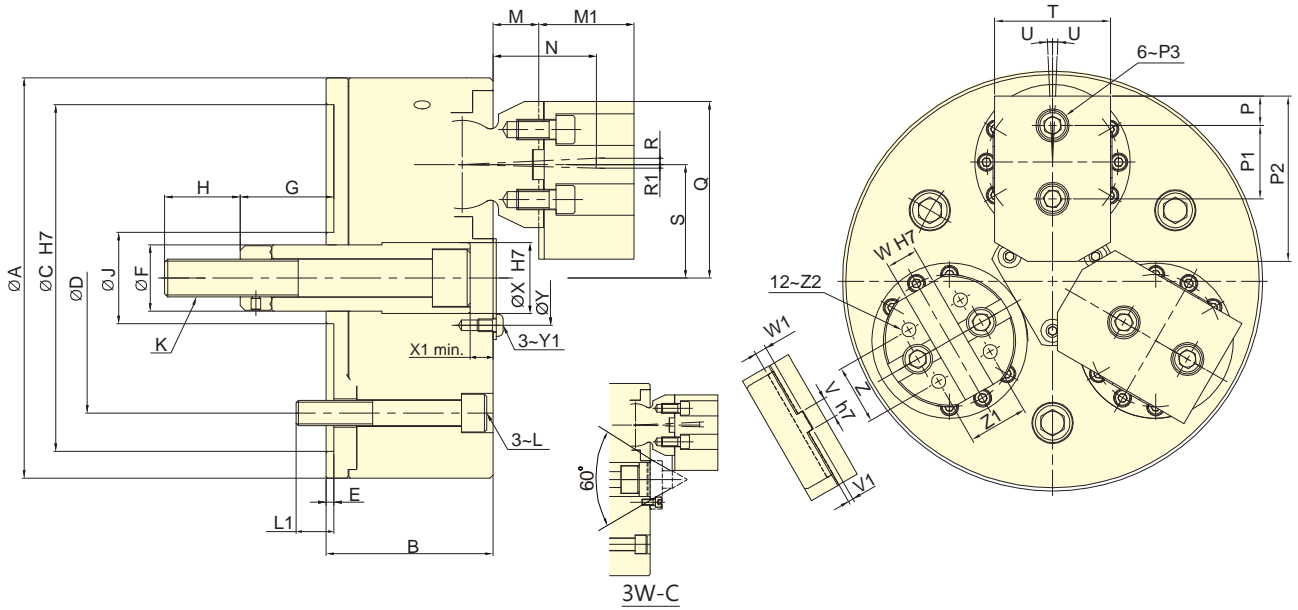


### 內徑夾持 I.D. Gripping



### 最小夾持範圍 Min. Gripping range





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

### 技術規格 SPECIFICATIONS

| 型號     | 楔心行程           | 爪行程<br>(直徑)          | 夾持外徑<br>Chuck O.D. | 夾持內徑<br>Chuck I.D. | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     | 適用迴轉缸         | 補償量          |
|--------|----------------|----------------------|--------------------|--------------------|----------------|---------------------|----------------------------|---------------------|--------|---------------|--------------|
| Model  | Plunger stroke | Jaw stroke<br>(Dia.) | 最小-最大<br>Min.-Max. | 最小-最大<br>Min.-Max. | Max. D.B. pull | Max. clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl. | Compensation |
|        | mm             | mm                   | mm                 | mm                 | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |               | mm           |
| 3W-08  | 14.4           | 9.8                  | 16~150             | 76~203             | 25(2550)       | 85.0(8670)          | 3700                       | 0.12                | 23     | RK-100(N)     | -            |
| 3W-C08 | 14.4           | 9.8                  | 16~150             | 76~203             | 25(2550)       | 85.0(8670)          | 3700                       | 0.12                | 23     | RK-100(N)     | 2            |
| 3W-10  | 17.5           | 12.5                 | 50~205             | 85~235             | 35.3(3600)     | 105.9(10800)        | 2500                       | 0.37                | 48.6   | RK-125(N)     | -            |
| 3W-C10 | 17.5           | 12.5                 | 50~205             | 85~235             | 35.3(3600)     | 105.9(10800)        | 2500                       | 0.37                | 48.6   | RK-125(N)     | 2            |
| 3W-12  | 17.5           | 12.5                 | 63~240             | 127~305            | 35.3(3600)     | 105.9(10800)        | 2400                       | 0.73                | 65     | RK-125(N)     | -            |
| 3W-C12 | 17.5           | 12.5                 | 63~240             | 127~305            | 35.3(3600)     | 105.9(10800)        | 2400                       | 0.73                | 65     | RK-125(N)     | 2            |
| 3W-15  | 22.5           | 15.9                 | 76~317             | 165~381            | 56(5600)       | 168.2(16800)        | 2000                       | 1.81                | 97     | RK-150(N)     | -            |
| 3W-C15 | 22.5           | 15.9                 | 76~317             | 165~381            | 56(5600)       | 168.2(16800)        | 2000                       | 1.81                | 97     | RK-150(N)     | 3            |

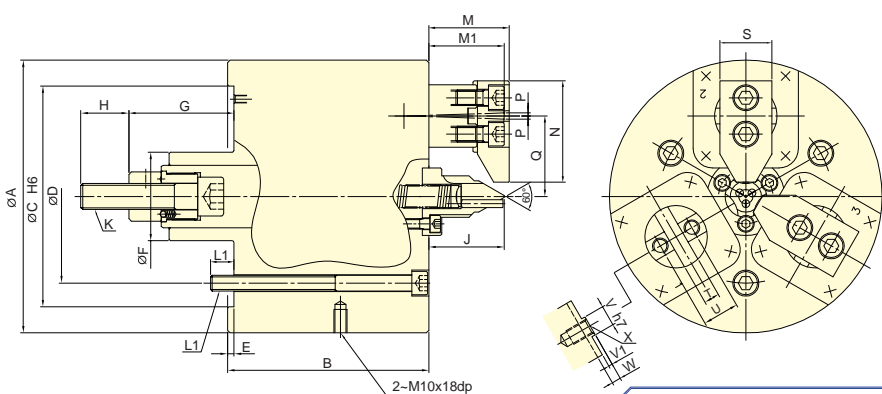
### 外型尺寸 DIMENSIONS

| Model  | A   | B   | C (H7) | D     | E | F  | G max. | G min. | H  | J  | K       | L   | L1 | M    | M1   | N    | P    | P1   | P2  |
|--------|-----|-----|--------|-------|---|----|--------|--------|----|----|---------|-----|----|------|------|------|------|------|-----|
| 3W-08  | 210 | 89  | 170    | 133.4 | 5 | 34 | 51.9   | 37.5   | 40 | 50 | M18x2.5 | M12 | 19 | 19.3 | 56.5 | 52.7 | 16   | 38   | 80  |
| 3W-C08 | 210 | 89  | 170    | 133.4 | 5 | 34 | 51.9   | 37.5   | 40 | 50 | M18x2.5 | M12 | 19 | 19.3 | 56.5 | 52.7 | 16   | 38   | 80  |
| 3W-10  | 254 | 106 | 220    | 171.4 | 5 | 42 | 67.5   | 50     | 48 | 58 | M24x3   | M16 | 24 | 29   | 60.5 | 65.6 | 17.8 | 44.4 | 100 |
| 3W-C10 | 254 | 106 | 220    | 171.4 | 5 | 42 | 67.5   | 50     | 48 | 58 | M24x3   | M16 | 24 | 29   | 60.5 | 65.6 | 17.8 | 44.4 | 100 |
| 3W-12  | 304 | 106 | 220    | 171.4 | 5 | 42 | 67.5   | 50     | 48 | 58 | M24x3   | M16 | 24 | 29   | 60.5 | 65.6 | 17.8 | 44.4 | 100 |
| 3W-C12 | 304 | 106 | 220    | 171.4 | 5 | 42 | 67.5   | 50     | 48 | 58 | M24x3   | M16 | 24 | 29   | 60.5 | 65.6 | 17.8 | 44.4 | 100 |
| 3W-15  | 381 | 120 | 300    | 235   | 5 | 55 | 62.5   | 40     | 46 | 80 | M27x3   | M20 | 30 | 32.4 | 72   | 74.3 | 19   | 63.5 | 140 |
| 3W-C15 | 381 | 120 | 300    | 235   | 5 | 55 | 62.5   | 40     | 46 | 80 | M27x3   | M20 | 30 | 32.4 | 72   | 74.3 | 19   | 63.5 | 140 |

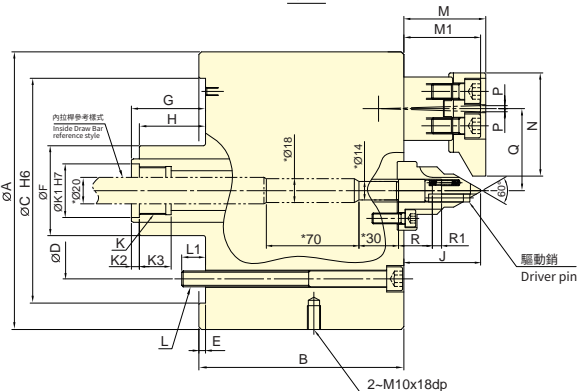
| Model  | P3  | Q     | R    | R1   | S    | T  | U   | V (h7) | V1 | W (H7) | W1 | X(H7) | X1  | Y  | Y1 | Z  | Z1 | Z2  |
|--------|-----|-------|------|------|------|----|-----|--------|----|--------|----|-------|-----|----|----|----|----|-----|
| 3W-08  | M12 | 95    | 2.69 | 2.24 | 60   | 57 | 2   | 7.94   | 3  | 12.68  | 7  | 34    | 3.5 | 46 | M6 | 32 | 32 | M10 |
| 3W-C08 | M12 | 95    | 2.69 | 2.24 | 60   | 57 | 2   | 7.94   | 3  | 12.68  | 7  | 34    | 3.5 | 46 | M6 | 32 | 32 | M10 |
| 3W-10  | M12 | 112   | 4.03 | 2.26 | 72   | 70 | 2.5 | 12.7   | 3  | 19.03  | 7  | 45    | 5   | 60 | M8 | 36 | 36 | M10 |
| 3W-C10 | M12 | 112   | 4.03 | 2.26 | 72   | 70 | 2.5 | 12.7   | 3  | 19.03  | 7  | 45    | 5   | 60 | M8 | 36 | 36 | M10 |
| 3W-12  | M12 | 132.5 | 4.03 | 2.26 | 92.5 | 70 | 2.5 | 12.7   | 3  | 19.03  | 7  | 45    | 5   | 60 | M8 | 36 | 36 | M10 |
| 3W-C12 | M12 | 132.5 | 4.03 | 2.26 | 92.5 | 70 | 2.5 | 12.7   | 3  | 19.03  | 7  | 45    | 5   | 60 | M8 | 36 | 36 | M10 |
| 3W-15  | M12 | 172   | 5.14 | 2.83 | 121  | 80 | 2   | 12.7   | 3  | 19.03  | 7  | 56    | 3   | 90 | M8 | 36 | 36 | M10 |
| 3W-C15 | M12 | 172   | 5.14 | 2.83 | 121  | 80 | 2   | 12.7   | 3  | 19.03  | 7  | 56    | 3   | 90 | M8 | 36 | 36 | M10 |



- 工件偏心補償量1mm·中心頂針定位·三爪擺動夾持工件。
- 可以在不反轉工件的情況下進行二次加工·因此大幅減少準備時間。
- 通過補償主爪夾緊進行粗·精加工·內部密封·使維護成本低。
- 搭配雙桿型迴轉缸(3RF-D)。
- 驅動銷推力大小可由迴轉缸壓力控制(3RF-D)。
- The workpiece compensation of eccentric is 1mm, fixed position for the center, swing and grasp the workpiece to three jaw.
- Second machining can be performed without reversing the workpiece, thus significantly reducing setup time.
- With compensating jaws clamping, the Rough and precision machining can be carried out.
- With sealed design, the maintenance costs can be reduced.
- Can be paired with double-rod rotary cylinder (3RF-D type).
- The driver pin thrust can be controlled by the pressure of the rotary cylinder (3RF-D type).



3RF



3RF-D

註:標示[\*]之寸法為內拉桿製作之尺寸,請勿任意更改。  
 Note: The dimensions marked [\*] are the dimensions of the inside Draw Bar, Please don't change it.

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

### 技術規格 SPECIFICATIONS

| 型號      | 楔心行程           | 爪行程<br>(直徑)       | 夾持直徑<br>Chuck Dia. |      | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     | 適用迴轉缸         | 補償量          |
|---------|----------------|-------------------|--------------------|------|----------------|---------------------|----------------------------|---------------------|--------|---------------|--------------|
|         |                |                   | 最大                 | 最小   |                |                     |                            |                     |        |               |              |
| Model   | Plunger stroke | Jaw stroke (Dia.) | Max.               | Min. | Max. D.B. pull | Max. clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl. | Compensation |
|         | mm             | mm                | mm                 | mm   | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |               | mm           |
| 3RF-08  | 43.5           | 9.4               | 70                 | 18   | 39.2 (4000)    | 39.2 (4000)         | 4000                       | 0.15                | 30     | RS-1250       | 1            |
| 3RF-08D | 43.5           | 9.4               | 70                 | 18   | 39.2 (4000)    | 39.2 (4000)         | 4000                       | 0.15                | 30     | RDL-130S      | 1            |

### 外型尺寸 DIMENSIONS

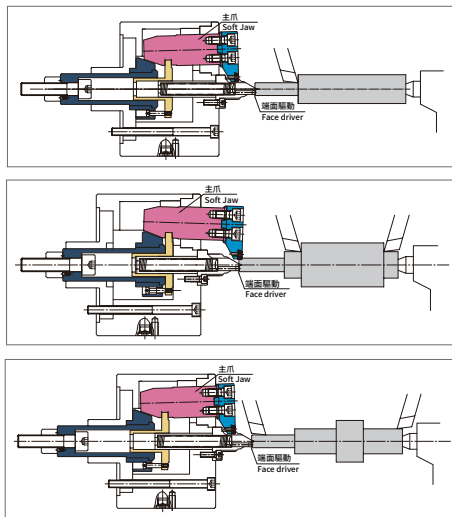
| Model   | A   | B   | C (H6) | D     | E | F  | G max. | G min. | H  | J  | K       | K1 (H7) | K2 | K3 | L     | L1 |
|---------|-----|-----|--------|-------|---|----|--------|--------|----|----|---------|---------|----|----|-------|----|
| 3RF-08  | 210 | 155 | 170    | 133.4 | 5 | 68 | 123    | 79.5   | 37 | 58 | M20x2.5 | -       | -  | -  | 3~M12 | 18 |
| 3RF-08D | 210 | 155 | 170    | 133.4 | 5 | 68 | 98     | 54.5   | 50 | 58 | M36x1.5 | 40.5    | 6  | 24 | 3~M12 | 18 |

| Model   | M  | M1 | N  | P    | Q  | R    | R1 max. | R1 min. | S  | T(H7) | U  | V  | V1 | W | X   |
|---------|----|----|----|------|----|------|---------|---------|----|-------|----|----|----|---|-----|
| 3RF-08  | 62 | 58 | 78 | 2.35 | 62 | -    | -       | -       | 40 | 12    | 28 | 16 | 3  | 7 | M12 |
| 3RF-08D | 62 | 58 | 78 | 2.35 | 62 | 25.5 | 7       | 0       | 40 | 12    | 28 | 16 | 3  | 7 | M12 |

### 應用說明 APPLICATION NOTES

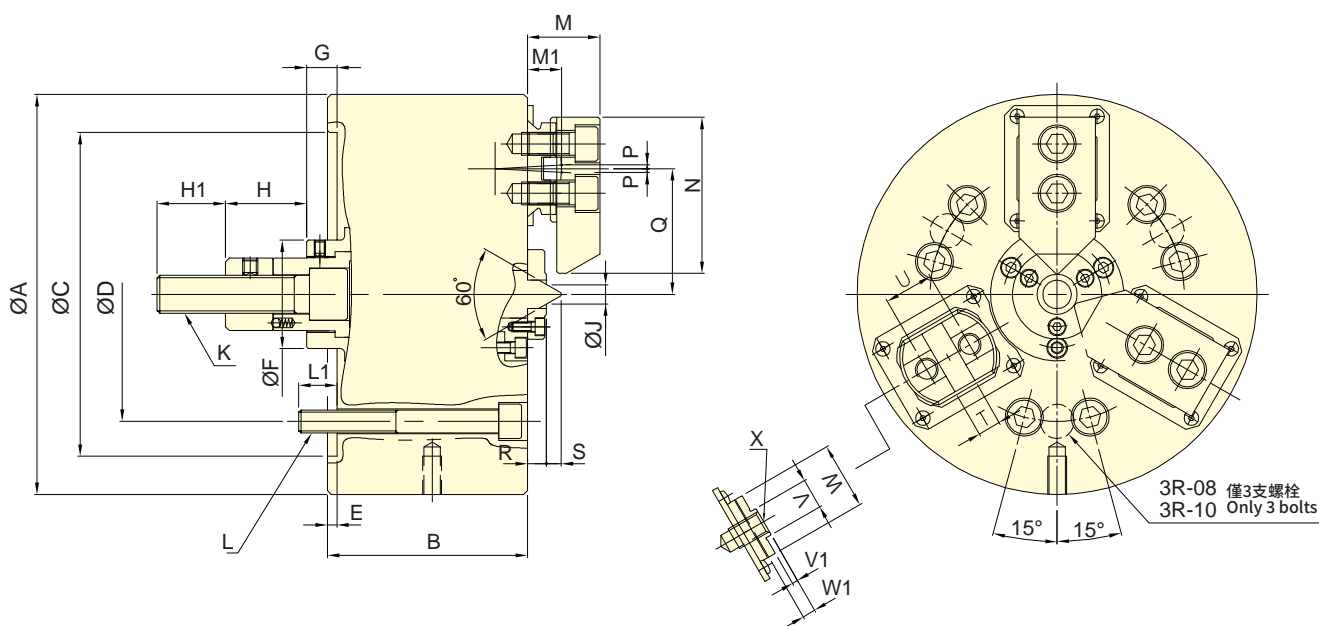
- 1.加工夾持直徑**  
 補償主爪縮回,工件在中心頂針與尾座頂針間支撐,並透過端面驅動來操作。  
 1.Clamping diameter machining  
 The compensating jaws are retracted. The workpiece is clamped between chuck center and tailstock center. Additionally, it is driven by the face driver.
- 2.粗加工**  
 通過補償主爪夾緊進行粗加工。  
 2.Rough machining  
 With compensating jaws clamping, the rough machining can be carried out.
- 3.精加工**  
 補償主爪縮回,工件在中心頂針與尾座頂針間支撐,並透過端面驅動完成加工,可加工所有的部位,並可達到同心度的要求。  
 3.Finish machining  
 Additionally, it is driven by the face driver. The entire workpiece can be machined with precise concentricity.







- 工件偏心補償量2mm，中心頂針定位，三爪擺動夾持工件。
- 特殊防水密封圈，防塵及防切削液，使保養工作更加便利。
- 擺動機構零件均以合金鋼加以熱處理硬化及研磨，以提升產品使用壽命。
- The workpieces compensation of eccentric is 2 mm, fixed position for the center thimble, swing and grasp the workpiece to three jaw.
- Special seal proof for dust and cutting fluid, it is more convenient when maintenance.
- Swing parts are to heat treatment hardened and ground for steel, in order to improve products service life.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model  | 楔行程<br>Plunger stroke<br>mm | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.)<br>mm | 夾持直徑<br>Chuck Dia. |                  | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 補償量<br>Compensation<br>mm |
|--------------|-----------------------------|---|--------------------|------------------|--------------------------------------|--|---|---|--------------------|------------------------|---------------------------|
|              |                             |   | 最大<br>Max.<br>mm   | 最小<br>Min.<br>mm |                                      |  |   |   |                    |                        |                           |
| <b>3R-08</b> | 20                          | 8   | 65                 | 18               | 19.6(2000)                           | 53.0(5404)                               | 2800  | 0.15  | 27                 | RK-100N                | 2                         |
| <b>3R-10</b> | 25                          | 10  | 90                 | 22               | 29.4(3000)                           | 67.7(6901)                               | 2500  | 0.38  | 45                 | RK-125N                | 2                         |
| <b>3R-12</b> | 25                          | 10.2                                      | 110                | 22               | 39.4(4000)                           | 88.4(9010)                               | 2000  | 0.75  | 72                 | RK-150N                | 2                         |

### 外型尺寸 DIMENSIONS

| Model        | A   | B   | C (H6) | D     | E   | F  | G max. | G min. | H    | H1   | J    | K       | L     | L1   |
|--------------|-----|-----|--------|-------|-----|----|--------|--------|------|------|------|---------|-------|------|
| <b>3R-08</b> | 210 | 105 | 170    | 133.4 | 5   | 57 | 26     | 6      | 42.5 | 36   | 10.4 | M20x2.5 | 3~M12 | 20   |
| <b>3R-10</b> | 254 | 115 | 220    | 171.4 | 5.5 | 64 | 36.5   | 11.5   | 25   | 39   | 15   | M20x2.5 | 3~M16 | 22.5 |
| <b>3R-12</b> | 304 | 130 | 220    | 171.4 | 5   | 70 | 25     | 0      | 33   | 45.5 | 15   | M24x3   | 3~M16 | 22   |

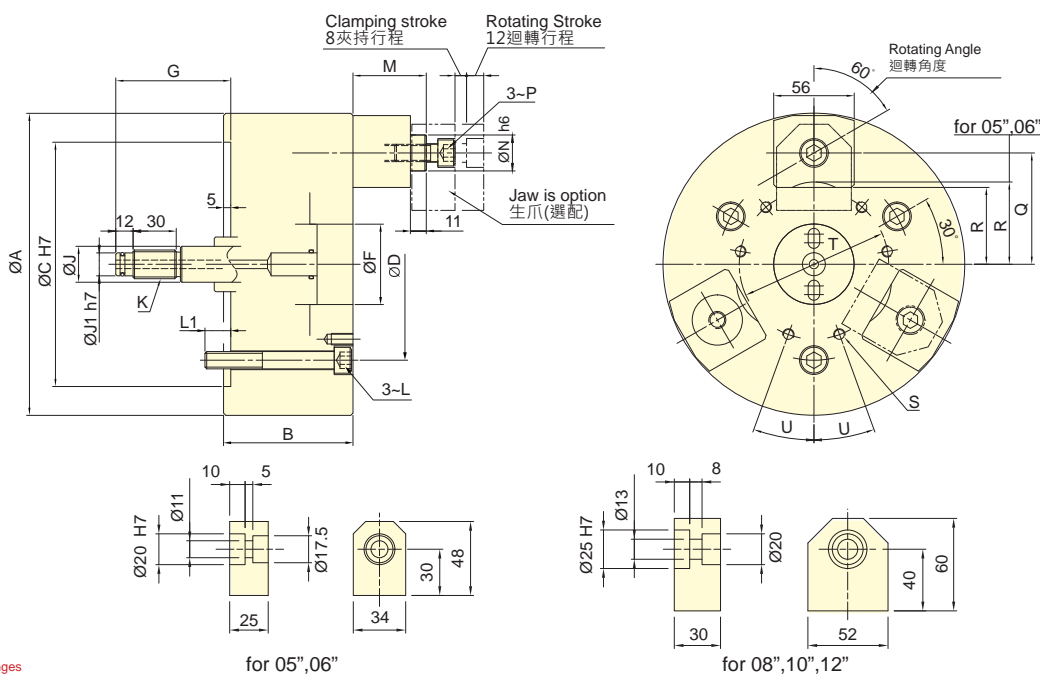
  

| Model        | M  | M1 | N   | P   | Q max. | Q min. | R  | S    | T (H7) | U  | V  | V1 | W  | W1 | X   |
|--------------|----|----|-----|-----|--------|--------|----|------|--------|----|----|----|----|----|-----|
| <b>3R-08</b> | 38 | 18 | 82  | 2   | 68     | 64     | 10 | 7.7  | 12     | 26 | 16 | 3  | 35 | 7  | M12 |
| <b>3R-10</b> | 40 | 19 | 102 | 2.6 | 82     | 78     | 10 | 11.3 | 15     | 32 | 18 | 3  | 40 | 7  | M14 |
| <b>3R-12</b> | 51 | 24 | 125 | 2.5 | 102.5  | 97.5   | 10 | 11.3 | 17     | 36 | 20 | 3  | 50 | 7  | M16 |



- 採工件端面夾持，防止工件夾持變形，適合薄壁工件加工。
  - 夾持補償機構，可夾持不規則端面之工件。
  - Gripping at the end face and preventing deformation of workpiece.
  - Suitable for thin wall workpiece processing.
  - The gripping compensating mechanism can grasp the irregular surface workpieces well.
- 氣密檢知 (選配)。  
■ Airtight pressure detect function is optional.

特殊動力夾頭



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

### 技術規格 SPECIFICATIONS

| 型號    | 迴轉行程            | 夾持行程            | 爪補償量               | 夾持直徑<br>Chuck Dia. |         | 容許最大入力         | 最大夾持力               | 最高迴轉數                      | I                   | 重量     | 適用迴轉缸                  | 最大使用壓力                     |
|-------|-----------------|-----------------|--------------------|--------------------|---------|----------------|---------------------|----------------------------|---------------------|--------|------------------------|----------------------------|
| Model | Rotating stroke | Clamping stroke | Jaw's compensation | 最大 Max.            | 最小 Min. | Max. D.B. pull | Max. Clamping force | Max. speed                 | Moment of inertia   | Weight | Matching cyl.          | Max. pressure              |
|       | mm              | mm              | mm                 | mm                 | mm      | kN (kgf)       | kN (kgf)            | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup> | kg     |                        | MPa (kgf/cm <sup>2</sup> ) |
| 3J-05 | 12              | 8               | 2                  | 53                 | 25      | 7.5(765)       | 6.0(612)            | 4000                       | 0.02                | 11.0   | RK-100 OR<br>RK-100(N) | 1.0(10)                    |
| 3J-06 | 12              | 8               | 2                  | 79                 | 55      | 9.0(918)       | 7.5(765)            | 4000                       | 0.04                | 12.0   | RK-100 OR<br>RK-100(N) | 1.2(12)                    |
| 3J-08 | 12              | 8               | 2                  | 106                | 75      | 18.0(1835)     | 16.5(1680)          | 3500                       | 0.13                | 23.0   | RK-100 OR<br>RK-100(N) | 2.5(25)                    |
| 3J-10 | 12              | 8               | 2.5                | 150                | 119     | 18.0(1835)     | 16.5(1680)          | 3500                       | 0.30                | 33.0   | RK-100 OR<br>RK-100(N) | 2.5(25)                    |
| 3J-12 | 12              | 8               | 2.5                | 200                | 169     | 18.0(1835)     | 16.5(1680)          | 3000                       | 0.56                | 44.0   | RK-100 OR<br>RK-100(N) | 2.5(25)                    |

### 外型尺寸 DIMENSIONS

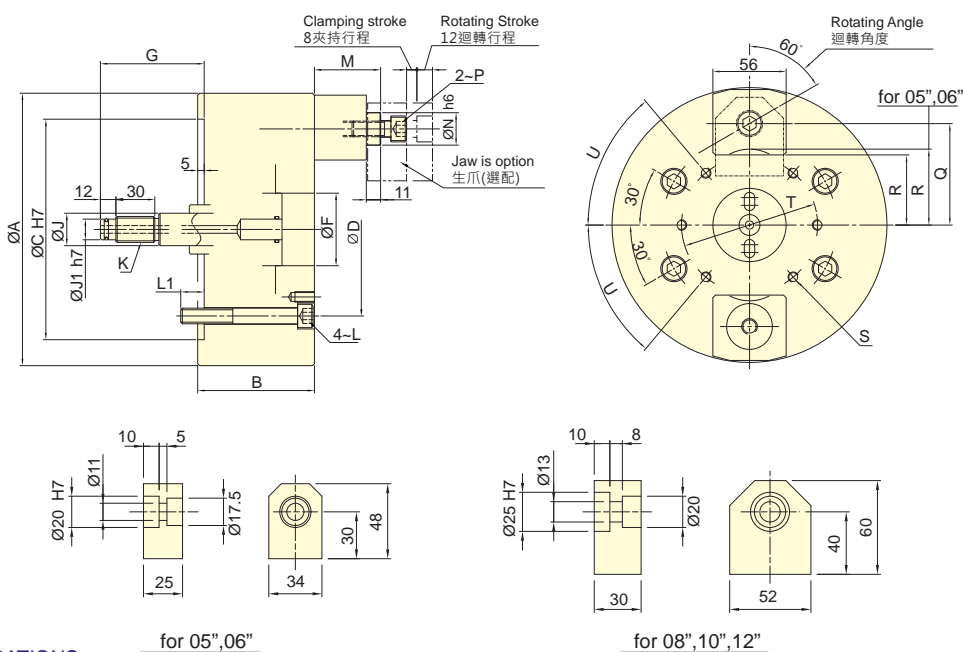
| Model | A   | B  | C   | D     | F  | G max. | G min. | J  | J1 | K        |
|-------|-----|----|-----|-------|----|--------|--------|----|----|----------|
| 3J-05 | 135 | 86 | 110 | 82.6  | 40 | 75     | 55     | 25 | 9  | M12x1.75 |
| 3J-06 | 165 | 86 | 140 | 104.8 | 45 | 75     | 55     | 28 | 12 | M16x2    |
| 3J-08 | 210 | 90 | 170 | 133.4 | 56 | 80     | 60     | 38 | 16 | M20x2.5  |
| 3J-10 | 254 | 95 | 220 | 171.4 | 56 | 75     | 55     | 38 | 16 | M20x2.5  |
| 3J-12 | 304 | 95 | 220 | 171.4 | 56 | 75     | 55     | 38 | 16 | M20x2.5  |

| Model | L   | L1 | M max. | M min. | N  | P   | Q     | R     | S    | T   | U   |
|-------|-----|----|--------|--------|----|-----|-------|-------|------|-----|-----|
| 3J-05 | M10 | 15 | 56     | 36     | 20 | M10 | 42.5  | 27    | 3~M6 | 50  | -   |
| 3J-06 | M10 | 15 | 56     | 36     | 20 | M10 | 57.5  | 40    | 3~M8 | 64  | -   |
| 3J-08 | M12 | 18 | 71     | 51     | 25 | M12 | 77.5  | 53.5  | 6~M8 | 104 | 20° |
| 3J-10 | M16 | 24 | 71     | 51     | 25 | M12 | 99.5  | 75.5  | 6~M8 | 140 | 20° |
| 3J-12 | M16 | 24 | 71     | 51     | 25 | M12 | 124.5 | 100.5 | 6~M8 | 190 | 20° |



- 採工件端面夾持，防止工件夾持變形，適合薄壁工件加工。
- 夾持補償機構，可夾持不規則端面之工件。
- Gripping at the end face and preventing deformation of workpiece.
- Suitable for thin wall workpiece processing.
- The gripping compensating mechanism can grasp the irregular surface workpieces well.
- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.

特殊動力夾頭


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

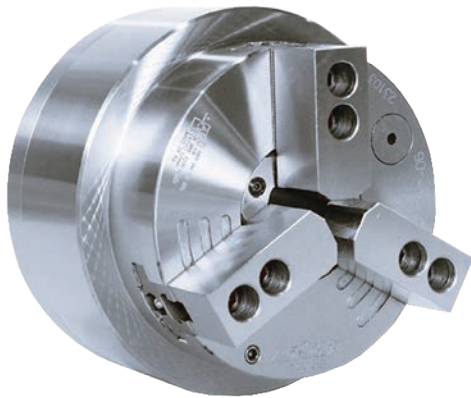
### 技術規格 SPECIFICATIONS

| 型號<br>Model | 迴轉行程<br>Rotating stroke<br>mm | 夾持行程<br>Clamping stroke<br>mm | 爪補償量<br>Jaw's compensation<br>mm | 夾持直徑<br>Chuck Dia. |            | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 適用迴轉缸<br>Matching cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|-------------|-------------------------------|-------------------------------|----------------------------------|--------------------|------------|--------------------------------------|--|---|---|--------------------|------------------------|---|
|             |                               |                               |                                  | 最大<br>Max.         | 最小<br>Min. |                                      |  |   |   |                    |                        |   |
| 2J-05       | 12                            | 8                             | 2                                | 53                 | 25         | 5.0(510)                             | 4.0(408)                                 | 4000  | 0.015   | 9.0                | RK-100 OR<br>RK-100(N) | 0.7(7)  |
| 2J-06       | 12                            | 8                             | 2                                | 79                 | 55         | 6.0(612)                             | 5.0(510)                                 | 4000  | 0.035   | 9.8                | RK-100 OR<br>RK-100(N) | 0.8(8)  |
| 2J-08       | 12                            | 8                             | 2                                | 106                | 75         | 12.0(1224)                           | 11.0(1122)                               | 3500  | 0.12  | 20.3               | RK-100 OR<br>RK-100(N) | 1.7(17)   |
| 2J-10       | 12                            | 8                             | 2.5                              | 150                | 119        | 12.0(1224)                           | 11.0(1122)                               | 3500  | 0.28  | 30.7               | RK-100 OR<br>RK-100(N) | 1.7(17)   |
| 2J-12       | 12                            | 8                             | 2.5                              | 200                | 169        | 12.0(1224)                           | 11.0(1122)                               | 3000  | 0.52  | 41.2               | RK-100 OR<br>RK-100(N) | 1.7(17)   |

### 外型尺寸 DIMENSIONS

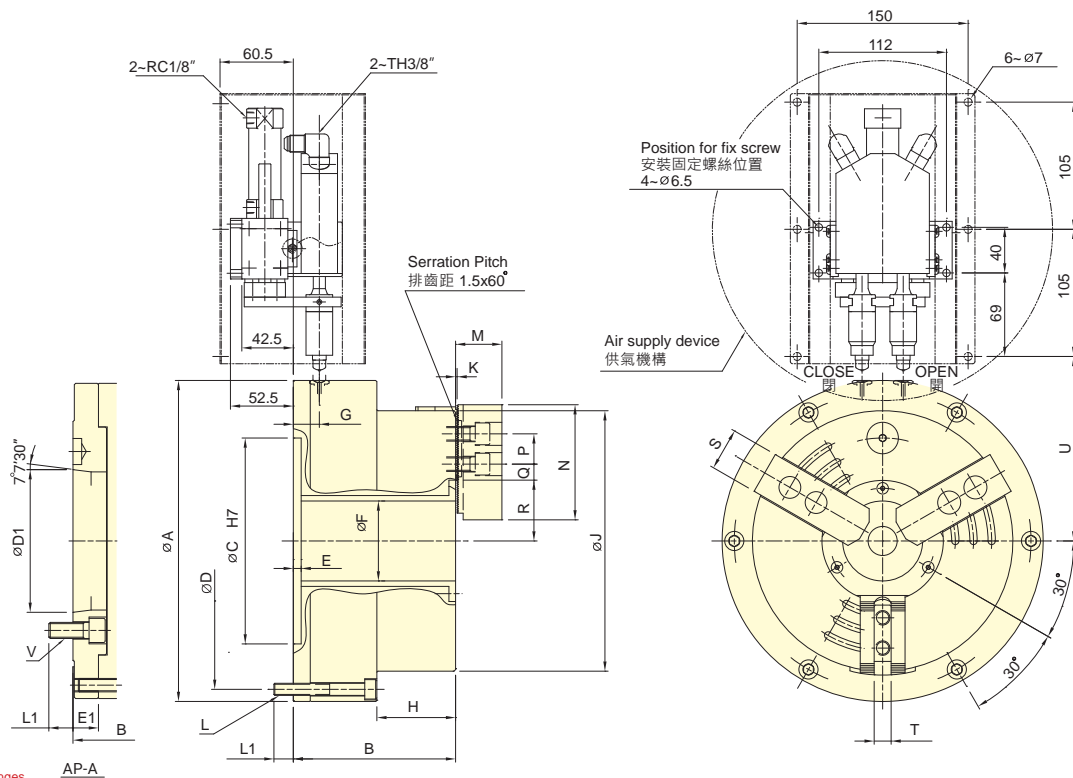
| Model | A   | B  | C   | D     | F  | G max. | G min. | J  | J1 | K        |
|-------|-----|----|-----|-------|----|--------|--------|----|----|----------|
| 2J-05 | 135 | 86 | 110 | 82.6  | 40 | 75     | 55     | 25 | 9  | M12x1.75 |
| 2J-06 | 165 | 86 | 140 | 104.8 | 45 | 75     | 55     | 28 | 12 | M16x2    |
| 2J-08 | 210 | 90 | 170 | 133.4 | 56 | 80     | 60     | 38 | 16 | M20x2.5  |
| 2J-10 | 254 | 95 | 220 | 171.4 | 56 | 75     | 55     | 38 | 16 | M20x2.5  |
| 2J-12 | 304 | 95 | 220 | 171.4 | 56 | 75     | 55     | 38 | 16 | M20x2.5  |

| Model | L   | L1 | M max. | M min. | N  | P   | Q     | R     | S    | T   | U   |
|-------|-----|----|--------|--------|----|-----|-------|-------|------|-----|-----|
| 2J-05 | M10 | 15 | 56     | 36     | 20 | M10 | 42.5  | 27    | 4~M6 | 50  | 30° |
| 2J-06 | M10 | 15 | 56     | 36     | 20 | M10 | 57.5  | 40    | 4~M8 | 64  | 30° |
| 2J-08 | M12 | 18 | 71     | 51     | 25 | M12 | 77.5  | 53.5  | 6~M8 | 104 | 50° |
| 2J-10 | M16 | 24 | 71     | 51     | 25 | M12 | 99.5  | 75.5  | 6~M8 | 140 | 50° |
| 2J-12 | M16 | 24 | 71     | 51     | 25 | M12 | 124.5 | 100.5 | 6~M8 | 190 | 50° |



- 超大通孔徑氣動夾頭·內藏氣壓缸·適合管材加工。
- 專利注氣系統·安裝快速容易·無傳統注氣密封環損壞問題·可節省安裝及維修成本。
- Large through-hole 3-jaw power chuck with build in air cylinder.
- Patented air supply system, it is easy to install and maintain. No abrasion issue of traditional sealed ring. Maintenance cost and time can be saved.

- 專利產品字號 Patent numbers :
  - 德國：20.2011.101.818.4 / 20.2012.102.498.5(Germany)
  - 日本：3169457 / 3178706 (Japan) / 歐盟：EP 2517822 B1 (EU)
  - 大陸：ZL 2011 2 0141324.9 / ZL 2012 2 0274549.6 (China)
  - 台灣：M440159 / M415011 (Taiwan) / 美國：US8770222 B2 (U.S.A.)
  - 義大利：0000278076(Italy)



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

AP-A

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 通孔徑<br>Thru-hole Dia. | 爪行程(直徑)<br>Jaw stroke (Dia.) | 夾持直徑<br>Chucking Dia. |            | 最大使用壓力<br>Max. pressure | 最大夾持力<br>Max. Clamping force | 最高迴轉數<br>Max. speed | I<br>Moment of inertia | 重量<br>Weight | 空氣消耗量<br>(使用壓力 6kgf/cm <sup>2</sup> )<br>Air Consumption |                            |
|-------------|-----------------------|------------------------------|-----------------------|------------|-------------------------|------------------------------|---------------------|------------------------|--------------|--|----------------------------|
|             |                       |                              | 最大<br>Max.            | 最小<br>Min. |                         |                              |                     |                        |              |  | MPa (kgf/cm <sup>2</sup> ) |
| AP-52       | A6                    | 52                           | 5.9                   | 170        | 15                      | 0.6(6.1)                     | 40.5(4128)          | 3900                   | 0.2          | 26 <b>30</b>   | 3.1                        |
| AP-66       | A6                    | 66                           | 7.6                   | 215        | 24                      | 0.6(6.1)                     | 50(5097)            | 3000                   | 0.4          | 38 <b>45</b>   | 5.1                        |
| AP-86       | A8                    | 86                           | 8.9                   | 268        | 43                      | 0.6(6.1)                     | 80(8156)            | 2800                   | 0.7          | 58 <b>72</b>   | 8.7                        |
| AP-115      | A8                    | 115                          | 10.6                  | 330        | 55                      | 0.6(6.1)                     | 90(9174)            | 2000                   | 1.7          | 92 <b>112</b>  | 12                         |

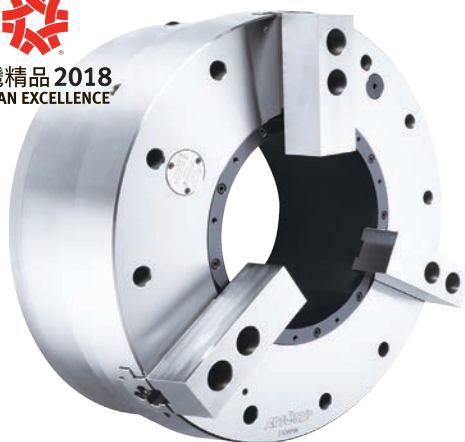
### 外型尺寸 DIMENSIONS

| Model  | A  | B   | C   | D          | D1  | E   | E1            | F   | G         | H   | J    | K    | L   |   |       |
|--------|----|-----|-----|------------|-----|-----|---------------|-----|-----------|-----|------|------|-----|---|-------|
| AP-52  | A6 | 235 | 121 | <b>140</b> | 170 | 215 | <b>106.38</b> | 6.5 | <b>19</b> | 52  | 21.5 | 58.5 | 170 | 2 | 6-M10 |
| AP-66  | A6 | 265 | 134 | <b>153</b> | 170 | 245 | <b>106.38</b> | 6.5 | <b>19</b> | 66  | 21.5 | 65   | 215 | 2 | 6-M10 |
| AP-86  | A8 | 315 | 142 | <b>169</b> | 220 | 295 | <b>139.72</b> | 6.5 | <b>27</b> | 86  | 21.5 | 67   | 268 | 2 | 6-M10 |
| AP-115 | A8 | 370 | 154 | <b>181</b> | 220 | 350 | <b>139.72</b> | 6.5 | <b>27</b> | 115 | 21.5 | 69   | 330 | 2 | 6-M10 |

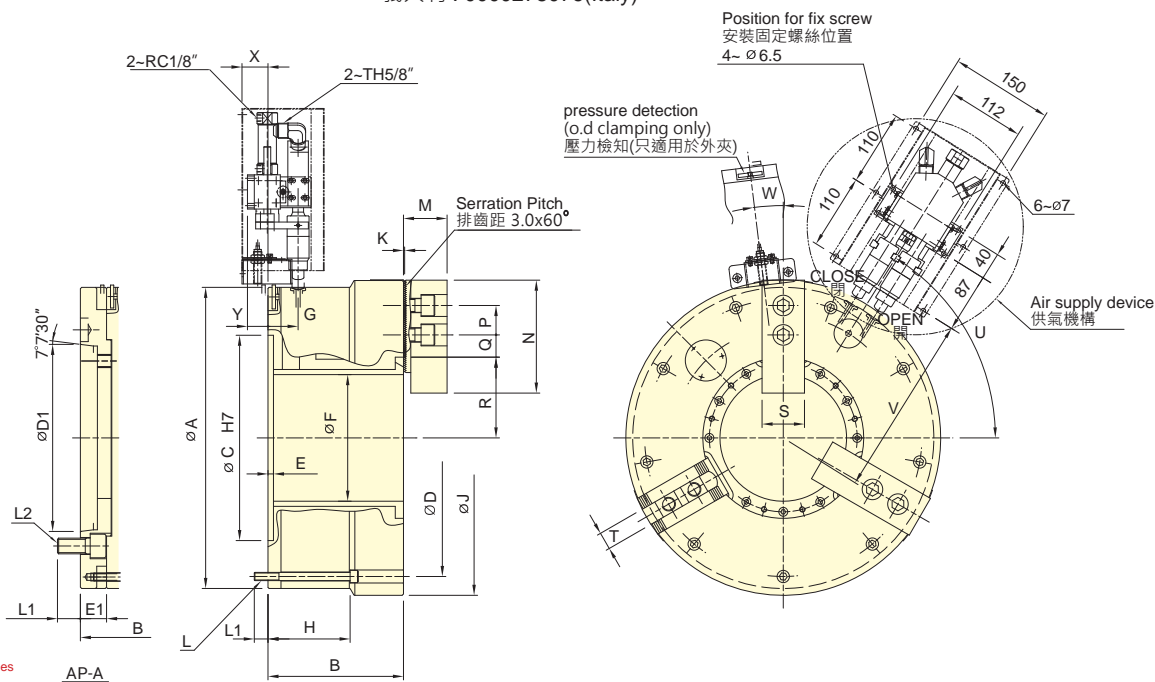
| Model  | L1 | M  | N         | P  | Q max. | Q min. | R max. | R min. | S    | T    | U  | V  |       |              |
|--------|----|----|-----------|----|--------|--------|--------|--------|------|------|----|----|-------|--------------|
| AP-52  | A6 | 15 | <b>18</b> | 37 | 73     | 20     | 21.2   | 9.2    | 38   | 35.1 | 31 | 12 | 145.5 | <b>6-M12</b> |
| AP-66  | A6 | 16 | <b>18</b> | 38 | 95     | 25     | 23.7   | 8.7    | 50.2 | 46.4 | 35 | 14 | 159.5 | <b>6-M12</b> |
| AP-86  | A8 | 16 | <b>24</b> | 43 | 110    | 30     | 32.2   | 12.7   | 62.2 | 57.8 | 40 | 16 | 184.5 | <b>6-M16</b> |
| AP-115 | A8 | 16 | <b>24</b> | 51 | 130    | 30     | 44.7   | 14.7   | 77   | 71.7 | 50 | 21 | 212   | <b>6-M16</b> |

紅色數據為 AP-A 型之寸法 (The dimensions and the specifications of AP-A type are in red data.)



- 超大通孔徑氣動夾頭，內藏氣壓缸，適合管材加工。
- 夾頭內建有"壓力檢知"機構，能檢知夾頭內部壓力遽降，確保操作安全。
- 專利注氣系統，安裝快速容易，無傳統注氣密封環損壞問題，可節省安裝及維修成本。
- Large through-hole 3-jaw power chuck with built in air cylinder.
- With built-in "pressure detection" device in chuck which can check the pressure is lowered rapidly within the chuck, guarantee to the security of operating.
- Patented air supply system, it is easy to install and maintain. No abrasion issue of traditional sealed ring. Maintenance cost and time can be saved.
- 專利產品字號 Patent numbers :  
 德國 : 20.2011.101.818.4 / 20.2012.102.498.5(Germany)  
 日本 : 3169457 / 3178706 (Japan) / 歐盟 : EP 2517822 B1 (EU)  
 大陸 : ZL 2011 2 0141324.9 / ZL 2012 2 0274549.6 (China)  
 台灣 : M440159 / M415011 (Taiwan) / 美國 : US8770222 B2 (U.S.A.)  
 義大利 : 0000278076(Italy)

特殊動力夾頭


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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 通孔徑<br>Thru-hole Dia. | 爪行程<br>(直徑)<br>Jaw stroke<br>(Dia.) | 夾持直徑<br>Chuck Dia. |            | 最大使用壓力<br>Max. pressure    | 最大夾持力<br>Max. Clamping force | 最高迴轉數<br>Max. speed        | I<br>Moment of inertia | 重量<br>Weight | 空氣消耗量<br>(使用壓力 6kgf/cm <sup>2</sup> )<br>Air Consumption |     |      |
|-------------|-----------------------|-------------------------------------|--------------------|------------|----------------------------|------------------------------|----------------------------|------------------------|--------------|--|-----|------|
|             |                       |                                     | 最大<br>Max.         | 最小<br>Min. |                            |                              |                            |                        |              |  |     |      |
|             | mm                    | mm                                  | mm                 | mm         | MPa (kgf/cm <sup>2</sup> ) | kN (kgf)                     | min <sup>-1</sup> (r.p.m.) | kg · m <sup>2</sup>    | kg           | lit(at 6kgf/cm <sup>2</sup> )                            |     |      |
| AP-145      | A11                   | 145                                 | 14                 | 420        | 62                         | 0.6(6.1)                     | 110(11213)                 | 1500                   | 3.8          | 156  | 182 | 17.8 |
| AP-185      | A15                   | 185                                 | 14                 | 460        | 100                        | 0.6(6.1)                     | 160(16310)                 | 1700                   | 6.0          | 188  | 223 | 22   |
| AP-230      | A15                   | 230                                 | 17                 | 535        | 170                        | 0.6(6.1)                     | 150(15290)                 | 1300                   | 11.1         | 265  | 310 | 34   |
| AP-275      | A20                   | 275                                 | 17                 | 580        | 200                        | 0.6(6.1)                     | 160(16310)                 | 1100                   | 15.5         | 301  | 346 | 39   |
| AP-320      | A20                   | 320                                 | 17                 | 658        | 200                        | 0.6(6.1)                     | 180(18348)                 | 1000                   | 27.2         | 415  | 505 | 45   |
| AP-375      | A20                   | 375                                 | 24                 | 738        | 260                        | 0.6(6.1)                     | 210(21406)                 | 900                    | 44.2         | 530  | 545 | 55   |

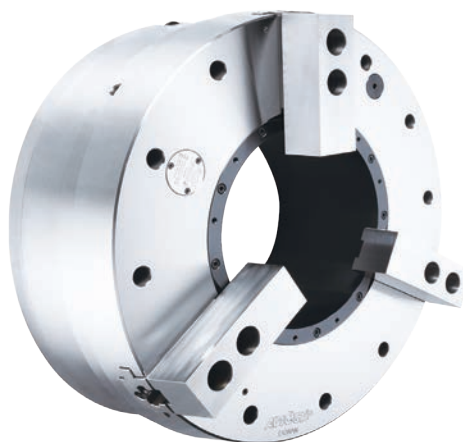
### 外型尺寸 DIMENSIONS

| Model  | A   | B   | C   | D   | D1  | E   | E1     | F | G  | H   | J  | K     | L   | L1  |       |    |    |
|--------|-----|-----|-----|-----|-----|-----|--------|---|----|-----|----|-------|-----|-----|-------|----|----|
| AP-145 | A11 | 400 | 198 | 231 | 300 | 365 | 196.87 | 8 | 33 | 145 | 34 | 120   | 420 | 3.5 | 9-M12 | 20 | 31 |
| AP-185 | A15 | 460 | 198 | 238 | 300 | 405 | 285.78 | 8 | 40 | 185 | 44 | 120   | 460 | 3.5 | 9-M12 | 20 | 35 |
| AP-230 | A15 | 515 | 226 | 266 | 380 | 483 | 285.78 | 8 | 40 | 230 | 49 | 145   | 535 | 3.5 | 6-M16 | 24 | 35 |
| AP-275 | A20 | 560 | 232 | 272 | 380 | 528 | 412.78 | 8 | 40 | 275 | 52 | 152   | 580 | 3.5 | 6-M16 | 24 | 35 |
| AP-320 | A20 | 615 | 256 | 306 | 520 | 580 | 412.78 | 8 | 50 | 320 | 55 | 116.5 | 658 | 3.5 | 9-M16 | 25 | 33 |
| AP-375 | A20 | 690 | 272 | 322 | 520 | 650 | 412.78 | 8 | 50 | 375 | 55 | 127   | 738 | 3.5 | 9-M16 | 28 | 33 |

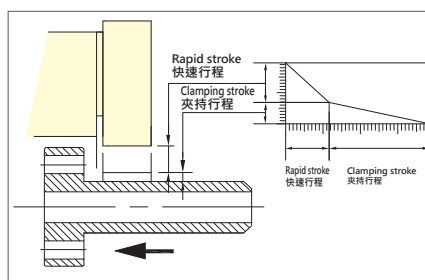
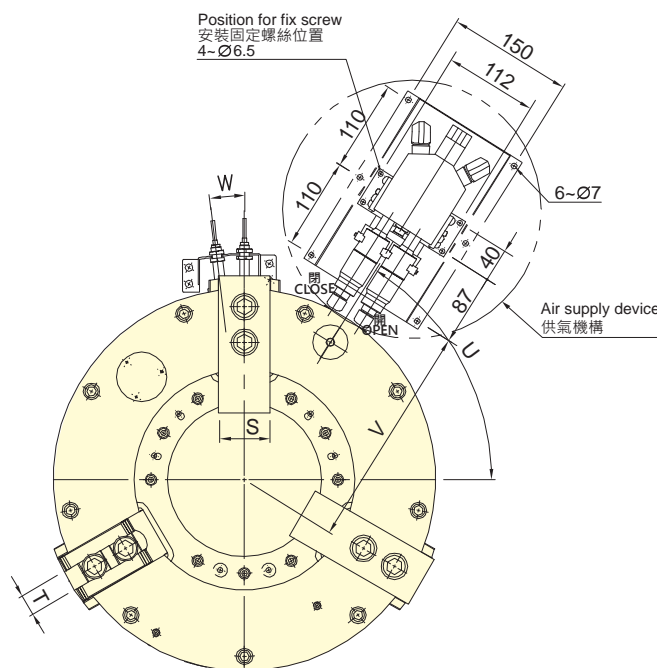
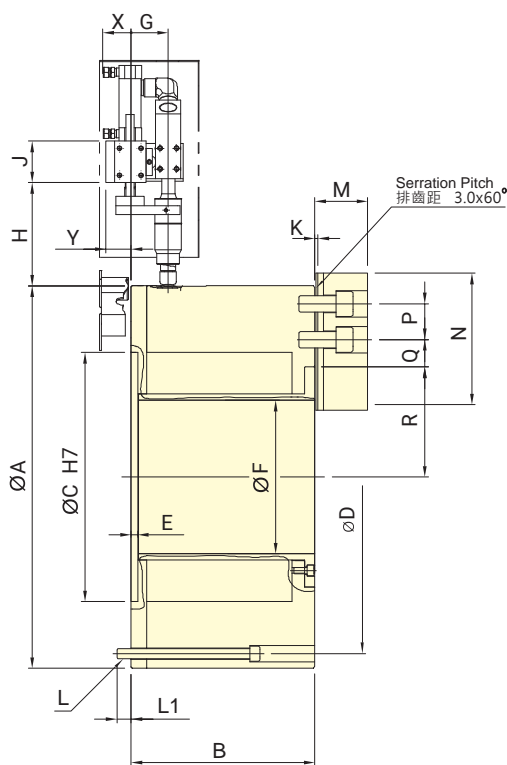
  

| Model  | L2  | M     | N    | P   | Q max. | Q min. | R max. | R min. | S     | T  | U    | V   | W   | X  | Y  |    |
|--------|-----|-------|------|-----|--------|--------|--------|--------|-------|----|------|-----|-----|----|----|----|
| AP-145 | A11 | 6~M20 | 63.7 | 165 | 43     | 53.5   | 23.5   | 98     | 91    | 62 | 25.5 | 57° | 242 | 0° | 38 | 20 |
| AP-185 | A15 | 6~M24 | 63.7 | 165 | 43     | 53.5   | 23.5   | 118    | 111   | 62 | 25.5 | 58° | 272 | 7° | 38 | 20 |
| AP-230 | A15 | 6~M24 | 71.7 | 180 | 60     | 48.5   | 18.5   | 145    | 136.5 | 64 | 25.5 | 30° | 300 | 7° | 33 | 15 |
| AP-275 | A20 | 6~M24 | 71.7 | 180 | 60     | 48.5   | 18.5   | 167.5  | 159   | 64 | 25.5 | 30° | 322 | 7° | 30 | 12 |
| AP-320 | A20 | 6~M24 | 81.5 | 210 | 60     | 60.5   | 24.5   | 190    | 181.5 | 74 | 30   | 52° | 350 | 7° | 27 | 9  |
| AP-375 | A20 | 6~M24 | 81.5 | 210 | 60     | 66.5   | 24.5   | 223.5  | 211.5 | 74 | 30   | 52° | 387 | 7° | 27 | 9  |

紅色數據為 AP-A 型之寸法 (The dimensions and the specifications of AP-A type are in red data.)



- 超大通孔徑氣動夾頭，內藏氣壓缸，適合管材加工。
- 夾頭內建有"壓力檢知"機構，能檢知夾頭內部壓力遽降，確保操作安全。
- 專利注氣系統，安裝快速容易，無傳統注氣密封環損耗問題，可節省安裝及維修成本。
- 夾頭內建有"夾持檢知"機構，能避免夾爪於快速位移行程中夾持工件，進而導致內部零件損壞或工件飛脫所設計之機構。(只適用於外徑夾持)
- 兩段式行程，可節省夾持所需要時間。
- Large through-hole 3-jaw power chuck with build in air cylinder.
- With build-in "pressure detection" device which can check the rapidly decreasing pressure within the chuck, guarantee to the security when operating.
- Patented air supply system, it is easy to install and maintain. No abrasion issue of traditional sealed ring. Maintenance cost and time can be saved.
- The build-in "clamping detection" device can avoid jaws clamping the workpiece during the rapid stroke stage. This mechanism can also prevent causing the damage of the internal parts or flying out of workpiece.(only for external clamping)
- Extended jaw stroke design can shorten the processing time when gripping.
- 注意：快速行程階段無法提供足夠之夾持力。
- Notice: No clamping in rapid stroke period.



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

### 技術規格 SPECIFICATIONS

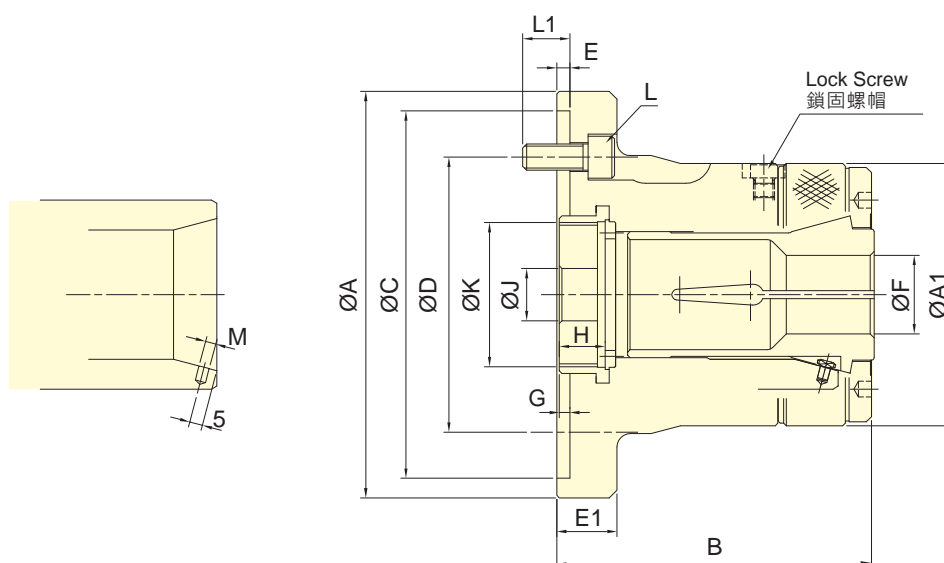
| 型號<br>Model | 通孔徑<br>Thru-hole Dia.<br>mm | 爪行程 (直徑)<br>Jaw stroke (Dia.)<br>mm |         | 夾持直徑<br>Chuck Dia.<br>mm |         | 最大夾持力<br>Max. Clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg · m <sup>2</sup> | 重量<br>Weight<br>kg | 空氣消耗量<br>(使用壓力 6kgf/cm <sup>2</sup> )<br>Air Consumption<br>lit(at 6kgf/cm <sup>2</sup> ) |
|-------------|-----------------------------|-------------------------------------|---------|--------------------------|---------|--|---|---|--------------------|---|
|             |                             | 最大 Max.                             | 最小 Min. | 最大 Max.                  | 最小 Min. |  |   |   |                    |   |
| APS-185     | 185                         | 26                                  | 14      | 460                      | 127     | 110(11216)                               | 1300  | 6.45  | 198                | 22  |

### 外型尺寸 DIMENSIONS

| Model   | A   | B   | C      | D      | E      | F      | G  | H    | J  | K   | L     | L1 | M    |
|---------|-----|-----|--------|--------|--------|--------|----|------|----|-----|-------|----|------|
| APS-185 | 460 | 221 | 300    | 425    | 8      | 185    | 45 | 124  | 50 | 3.5 | 9-M12 | 17 | 63.7 |
| Model   | N   | P   | Q max. | Q min. | R max. | R min. | S  | T    | U  | V   | W     | X  | Y    |
| APS-185 | 165 | 43  | 37     | 17     | 145    | 125    | 62 | 25.5 | 58 | 272 | 7°    | 38 | 30   |



- 前推式彈性筒夾夾頭 · 適合CNC車床 · 專用機 · 或其他旋削機械。
- 高精度 · 高轉速及高剛性結構。
- 全面防水設計 · 防止切削水進入主軸通孔處。
- PUSH type collet used mainly on turning, CNC, special purpose machines, ect.
- High clamping accuracy, high speed and high rigidity.
- Sealed against swarf, chips and coolant.
- 搭配彈性筒夾須符合 DIN 6343 規範。
- The collet used must accord with DIN 6343.
- 專利產品字號 Patent numbers :  
台灣 : PAT.NO.M380842(Taiwan)  
大陸 : PAT.NO.ZL201020113762.X(China)



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

## 技術規格 SPECIFICATIONS

| 型號<br>Model | 套筒行程<br>Plunger stroke<br>mm | 最大夾持能力<br>Max. Chucking Capacity |                      |                    | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment of inertia<br>kg·m <sup>2</sup> | 重量<br>Weight<br>kg | 使用筒夾<br>Matching steel collet | 適用迴轉缸<br>Matching Cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|-------------|------------------------------|----------------------------------|----------------------|--------------------|--------------------------------------|--|---|---|--------------------|-------------------------------|------------------------|---|
|             |                              | 圓棒<br>Round<br>mm                | 六角材<br>Hexagom<br>mm | 方材<br>Square<br>mm |                                      |  |   |   |                    |                               |                        |   |
| CL-26       | 4.5                          | 3~26                             | 4~22                 | 4~18               | 17.6(1800)                           | 37.9(3870)                               | 8000  | 0.040                                       | 4.3                | 161E                          | TK-A533                | 2.4(24)   |
| CL-30       | 4.5                          | 3~30                             | 4~26                 | 4~20               | 19.6(2000)                           | 42.1(4300)                               | 8000  | 0.038                                       | 4.2                | 163E                          | TK-A533                | 2.7(27)   |
| CL-36       | 6                            | 3~36                             | 6~32                 | 6~26               | 22.5(2300)                           | 48.5(4950)                               | 6000  | 0.062                                       | 7.0                | 171E                          | TK-C643                | 2.3(23)   |
| CL-42       | 6                            | 3~42                             | 6~36                 | 6~29               | 24.5(2500)                           | 52.9(5400)                               | 6000  | 0.060                                       | 6.9                | 173E                          | TK-C643                | 2.5(25)   |
| CL-52       | 6                            | 5~52                             | 8~45                 | 7~36               | 27.4(2800)                           | 59.0(6020)                               | 6000  | 0.101                                       | 14.3               | 177E                          | TK-A853                | 2.0(20)   |
| CL-6017     | 6                            | 5~60                             | 8~52                 | 7~42               | 29.4(3000)                           | 63.7(6500)                               | 5000  | 0.098                                       | 14.1               | 185E                          | TS-866                 | 1.8(18)   |
| CL-6022     | 6                            | 5~60                             | 8~52                 | 7~42               | 29.4(3000)                           | 63.7(6500)                               | 5000  | 0.126                                       | 16.3               | 185E                          | TS-866                 | 1.8(18)   |
| CL-80       | 6                            | 20~80                            | 18~69                | 15~56              | 34.3(3500)                           | 71.5(7300)                               | 4000  | 0.108                                       | 17.8               | 193E                          | TK-A1287               | 1.6(16)   |

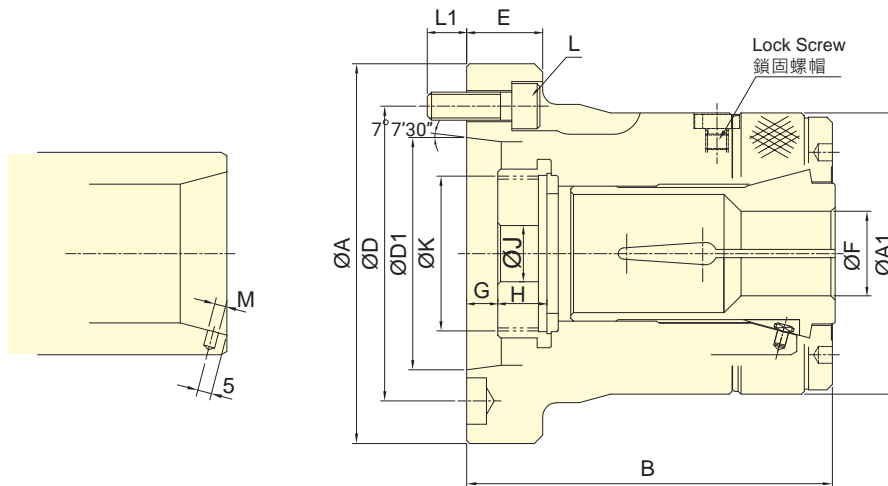
## 外型尺寸 DIMENSIONS

| Model   | A   | A1  | B     | C(H6) | D     | E | E1 | F max. | F min. | G max. | G min. | H    | J  | K max.  | L        | L1 | M |
|---------|-----|-----|-------|-------|-------|---|----|--------|--------|--------|--------|------|----|---------|----------|----|---|
| CL-26   | 120 | 85  | 100   | 110   | 82.6  | 4 | 23 | 26     | 3      | 7      | 2.5    | 15   | 12 | M40x1.5 | 3~M10x25 | 16 | 4 |
| CL-30   | 120 | 85  | 100   | 110   | 82.6  | 4 | 23 | 30     | 3      | 7      | 2.5    | 15   | 12 | M40x1.5 | 3~M10x25 | 16 | 4 |
| CL-36   | 155 | 100 | 120   | 140   | 104.8 | 5 | 23 | 36     | 3      | 7      | 1      | 17.5 | 20 | M55x2   | 3~M10x25 | 18 | 4 |
| CL-42   | 155 | 100 | 120   | 140   | 104.8 | 5 | 23 | 42     | 3      | 7      | 1      | 17.5 | 20 | M55x2   | 3~M10x25 | 18 | 4 |
| CL-52   | 185 | 130 | 145.5 | 170   | 133.4 | 5 | 27 | 52     | 5      | 9      | 3      | 24   | 30 | M60x2   | 6~M12x30 | 20 | 5 |
| CL-6017 | 185 | 130 | 145.5 | 170   | 133.4 | 5 | 27 | 60     | 5      | 9      | 3      | 24   | 45 | M75x2   | 6~M12x30 | 20 | 5 |
| CL-6022 | 234 | 130 | 142   | 220   | 171.4 | 5 | 32 | 60     | 5      | 13     | 7      | 24   | 45 | M85x2   | 6~M16x30 | 20 | 5 |
| CL-80   | 234 | 156 | 163   | 220   | 171.4 | 5 | 32 | 80     | 20     | 15.5   | 9.5    | 22   | 45 | M100x2  | 6~M16x30 | 20 | 5 |



- 前推式彈性筒夾夾頭，適合CNC車床，專用機，或其他旋削機械。
- 高精度，高轉速及高剛性結構。
- 全面防水設計，防止切削水進入主軸通孔處。
- PUSH type collet used mainly on turning, CNC, special purpose machines, ect.
- High clamping accuracy, high speed and high rigidity.
- Sealed against swarf, chips and coolant.
- 搭配彈性筒夾須符合 DIN 6343 規範。
- The collet used must accord with DIN 6343.
- 專利產品字號 Patent numbers :  
台灣：PAT.NO.M380842(Taiwan)  
大陸：PAT.NO.ZL201020113762.X(China)

筒夾夾頭



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 套筒行程<br>Plunger stroke<br>mm | 最大夾持能力<br>Max. Chucking Capacity |                      |                    | 容許最大<br>入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. clamping<br>force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | I<br>Moment<br>of inertia<br>kg·m <sup>2</sup> | 重量<br>Weight<br>kg | 使用筒夾<br>Matching steel<br>collet | 適用迴轉缸<br>Matching Cyl. | 最大使用<br>壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |         |
|-------------|------------------------------|----------------------------------|----------------------|--------------------|--|---|---|--|--------------------|----------------------------------|------------------------|---|---------|
|             |                              | 圓棒<br>Round<br>mm                | 六角材<br>Hexagom<br>mm | 方材<br>Square<br>mm |  |   |   |  |                    |                                  |                        |   |         |
| CL-26       | A4                           | 4.5                              | 3~26                 | 4~22               | 4~18                                     | 17.6(1800)                                  | 37.9(3870)  | 8000   | 0.040              | 4.2                              | 161E                   | TK-A533   | 2.4(24) |
| CL-30       | A4                           | 4.5                              | 3~30                 | 4~26               | 4~20                                     | 19.6(2000)                                  | 42.1(4300)  | 8000   | 0.038              | 4.1                              | 163E                   | TK-A533   | 2.7(27) |
| CL-36       | A5                           | 6                                | 3~36                 | 6~32               | 6~26                                     | 22.5(2300)                                  | 48.5(4950)  | 6000   | 0.058              | 6.3                              | 171E                   | TK-C643   | 2.3(23) |
| CL-42       | A5                           | 6                                | 3~42                 | 6~36               | 6~29                                     | 24.5(2500)                                  | 52.9(5400)  | 6000   | 0.057              | 6.1                              | 173E                   | TK-C643   | 2.5(25) |
| CL-42       | A6                           | 6                                | 3~42                 | 6~36               | 6~29                                     | 24.5(2500)                                  | 52.9(5400)  | 6000   | 0.061              | 7.5                              | 173E                   | TK-C643   | 2.5(25) |
| CL-52       | A6                           | 6                                | 5~52                 | 8~45               | 7~36                                     | 27.4(2800)                                  | 59.0(6020)  | 6000   | 0.093              | 13.8                             | 177E                   | TK-A853   | 2.0(20) |
| CL-60       | A6                           | 6                                | 5~60                 | 8~52               | 7~42                                     | 29.4(3000)                                  | 63.7(6500)  | 5000   | 0.091              | 13.5                             | 185E                   | TS-866  | 1.8(18) |
| CL-60       | A8                           | 6                                | 5~60                 | 8~52               | 7~42                                     | 29.4(3000)                                  | 63.7(6500)  | 5000   | 0.104              | 14.5                             | 185E                   | TS-866  | 1.8(18) |
| CL-80       | A8                           | 6                                | 20~80                | 18~69              | 15~56                                    | 34.3(3500)                                  | 71.5(7300)  | 4000   | 0.120              | 19.8                             | 193E                   | TK-A1287  | 1.6(16) |

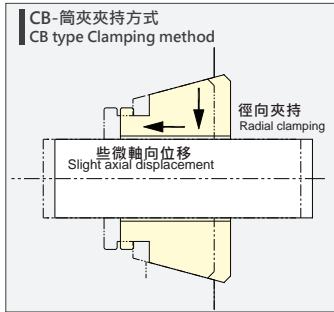
### 外型尺寸 DIMENSIONS

| Model | A  | A1  | B   | D     | D1    | E      | F max. | F min. | G max. | G min. | H    | J    | K max. | L       | L1       | M  |   |
|-------|----|-----|-----|-------|-------|--------|--------|--------|--------|--------|------|------|--------|---------|----------|----|---|
| CL-26 | A4 | 110 | 85  | 108   | 82.6  | 63.51  | 25     | 26     | 3      | 9.5    | 5    | 15   | 12     | M40x1.5 | 3~M10x30 | 15 | 4 |
| CL-30 | A4 | 110 | 85  | 108   | 82.6  | 63.51  | 25     | 30     | 3      | 9.5    | 5    | 15   | 12     | M40x1.5 | 3~M10x30 | 15 | 4 |
| CL-36 | A5 | 135 | 100 | 130   | 104.8 | 82.56  | 27     | 36     | 3      | 14     | 8    | 17.5 | 20     | M55x2   | 4~M10x30 | 14 | 4 |
| CL-42 | A5 | 135 | 100 | 130   | 104.8 | 82.56  | 27     | 42     | 3      | 14     | 8    | 17.5 | 20     | M55x2   | 4~M10x30 | 14 | 4 |
| CL-42 | A6 | 165 | 100 | 130   | 133.4 | 106.38 | 32     | 42     | 3      | 17     | 11   | 17.5 | 20     | M60x2   | 4~M12x35 | 16 | 4 |
| CL-52 | A6 | 170 | 130 | 154   | 133.4 | 106.38 | 27     | 52     | 5      | 10.5   | 4.5  | 24   | 45     | M60x2   | 4~M12x35 | 20 | 5 |
| CL-60 | A6 | 170 | 130 | 154   | 133.4 | 106.38 | 27     | 60     | 5      | 10.5   | 4.5  | 24   | 45     | M75x2   | 4~M12x35 | 20 | 5 |
| CL-60 | A8 | 210 | 130 | 147.5 | 171.4 | 139.72 | 35     | 60     | 5      | 3.5    | -2.5 | 24   | 45     | M85x2   | 4~M16x40 | 22 | 5 |
| CL-80 | A8 | 210 | 156 | 175   | 171.4 | 139.72 | 35     | 80     | 20     | 7.5    | 1.5  | 22   | 45     | M100x2  | 6~M16x40 | 22 | 5 |

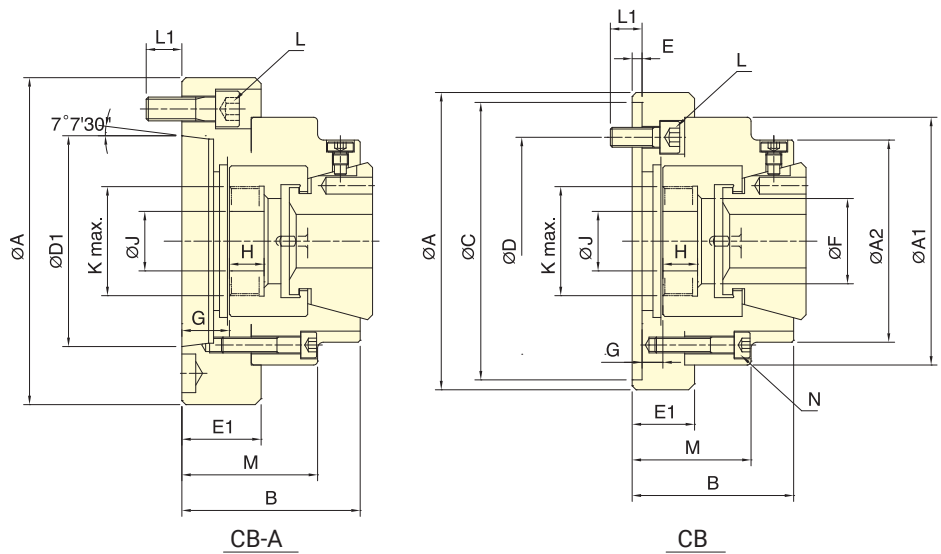




- 適合CNC車床·專用機·或其他旋削機械·作棒材或心軸加工用。
- 後拉夾持·具徑向夾持與軸向微調力矩·貫通孔徑。
- 高精度·高轉速及高剛性結構。
- 全面防水設計·防止切削水進入主軸通孔處。
- Ideal for CNC lathes, specialized machines, and turning equipment for bar stock or shaft machining.
- Draw-back clamping with radial clamping and axial fine-tuning torque, featuring through-hole.
- Offers high precision, speed, and rigidity.
- Features a comprehensive waterproof design to prevent cutting fluid from entering the spindle through-hole.
- J 值為連結螺帽未車製螺牙時的孔徑。  
K max 值為連結螺帽可車製螺牙之最大規格·可依實際需求訂製。
- J is the hole diameter of blank draw nut.  
K is the maximum thread specification and it could be customize.



夾緊時, 工件隨著筒夾稍微往後位移。  
During clamping, the workpiece shifts slightly backward along with the collet.



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

### 技術規格 SPECIFICATIONS

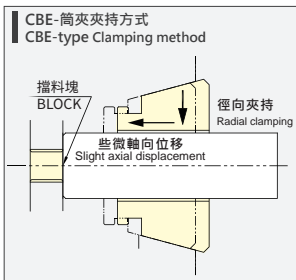
| 型號<br>Model | 套筒行程<br>Plunger stroke<br>mm | 最大夾持能力<br>Max. Chucking Capacity |                      |                    |            | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | 重量<br>Weight<br>kg | 使用筒夾<br>Matching steel collet | 適用迴轉缸<br>Matching Cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|-------------|------------------------------|----------------------------------|----------------------|--------------------|------------|--------------------------------------|--|---|--------------------|-------------------------------|------------------------|---|
|             |                              | 圓棒<br>Round<br>mm                | 六角材<br>Hexagom<br>mm | 方材<br>Square<br>mm |            |                                      |  |   |                    |                               |                        |   |
| CB-42       | 4.5                          | 4~42                             | 7~36                 | 7~30               | 34.3(3500) | 78.4(8000)                           | 7000                                     | 6.5   | RG-42              | TK-B846                       | 2.8(28)                |   |
| CB-42 A5    | 4.5                          | 4~42                             | 7~36                 | 7~30               | 34.3(3500) | 78.4(8000)                           | 7000                                     | 6.2   | RG-42              | TK-B846                       | 2.8(28)                |   |
| CB-42 A6    | 4.5                          | 4~42                             | 7~36                 | 7~30               | 34.3(3500) | 78.4(8000)                           | 7000                                     | 7.4   | RG-42              | TK-B846                       | 2.8(28)                |   |
| CB-52       | 4.5                          | 4~52                             | 7~36                 | 7~45               | 39.2(4000) | 92.1(9400)                           | 7000                                     | 6   | RG-52              | TK-A853                       | 3.2(32)                |   |
| CB-5217     | 4.5                          | 4~52                             | 7~36                 | 7~45               | 39.2(4000) | 92.1(9400)                           | 7000                                     | 9.6   | RG-52              | TK-A853                       | 3.2(32)                |   |
| CB-52 A5    | 4.5                          | 4~52                             | 7~36                 | 7~45               | 39.2(4000) | 92.1(9400)                           | 7000                                     | 6.5   | RG-52              | TK-A853                       | 3.2(32)                |   |
| CB-52 A6    | 4.5                          | 4~52                             | 7~36                 | 7~45               | 39.2(4000) | 92.1(9400)                           | 7000                                     | 7.8   | RG-52              | TK-A853                       | 3.2(32)                |   |
| CB-65       | 4.5                          | 4~65                             | 8~56                 | 8~46               | 44.1(4500) | 103(10500)                           | 5500                                     | 15  | RG-65              | TS-866                        | 3.0(30)                |   |
| CB-65 A6    | 4.5                          | 4~65                             | 8~56                 | 8~46               | 44.1(4500) | 103(10500)                           | 5500                                     | 13.6  | RG-65              | TS-866                        | 3.0(30)                |   |
| CB-65 A8    | 4.5                          | 4~65                             | 8~56                 | 8~46               | 44.1(4500) | 103(10500)                           | 5500                                     | 17.6  | RG-65              | TS-866                        | 3.0(30)                |   |
| CB-80       | 4.5                          | 5~80                             | 8~68                 | 8~56               | 50.0(5100) | 115(11730)                           | 5500                                     | 19  | RG-80              | TK-A1287                      | 2.3(23)                |   |
| CB-80 A8    | 4.5                          | 5~80                             | 8~68                 | 8~56               | 50.0(5100) | 115(11730)                           | 5500                                     | 19  | RG-80              | TK-A1287                      | 2.3(23)                |   |

### 外型尺寸 DIMENSIONS

| Model    | A   | A1  | A2  | B    | C(H6) | D     | D1     | E | E1   | F    | G max. | G min. | H    | J  | K max. | L        | L1 | M    | N     |
|----------|-----|-----|-----|------|-------|-------|--------|---|------|------|--------|--------|------|----|--------|----------|----|------|-------|
| CB-42    | 150 | 125 | 102 | 81.5 | 140   | 104.8 | -      | 5 | 31   | 43   | 10.5   | 6      | 17.5 | 30 | M55x2  | 3~M10x25 | 11 | 60   | 4~M8  |
| CB-42 A5 | 140 | 125 | 102 | 91.5 | -     | 104.8 | 82.56  | - | 41.5 | 43   | 25.5   | 21     | 17.5 | 30 | M55x2  | 4~M10x25 | 12 | 70   | 4~M8  |
| CB-42 A6 | 165 | 125 | 102 | 91.5 | -     | 133.4 | 106.38 | - | 45   | 43   | 29     | 24.5   | 17.5 | 30 | M55x2  | 4~M12x35 | 18 | 73.5 | 4~M8  |
| CB-52    | 150 | 125 | 102 | 83.5 | 140   | 104.8 | -      | 5 | 31.5 | 53   | 11     | 6.5    | 17.5 | 30 | M60x2  | 4~M10x25 | 16 | 62.5 | 4~M8  |
| CB-5217  | 180 | 125 | 102 | 87   | 170   | 133.4 | -      | 5 | 35   | 53   | 14.5   | 10     | 17.5 | 30 | M60x2  | 4~M12x30 | 18 | 66   | 4~M8  |
| CB-52 A5 | 140 | 125 | 102 | 93.5 | -     | 104.8 | 82.56  | - | 41.5 | 53   | 26     | 21.5   | 17.5 | 30 | M60x2  | 4~M10x30 | 16 | 72.5 | 4~M8  |
| CB-52 A6 | 165 | 125 | 102 | 99   | -     | 133.4 | 106.38 | - | 47   | 53   | 31.5   | 27     | 17.5 | 30 | M60x2  | 6~M12x35 | 18 | 78   | 4~M8  |
| CB-65    | 185 | 145 | 120 | 100  | 170   | 133.4 | -      | 6 | 50   | 66   | 13.5   | 9      | 21.5 | 32 | M75x2  | 6~M12x40 | 20 | 73.5 | 4~M8  |
| CB-65 A6 | 165 | 145 | 120 | 111  | -     | 133.4 | 106.38 | - | 61   | 66   | 30.5   | 26     | 21.5 | 32 | M75x2  | 4~M12x40 | 20 | 84.5 | 4~M8  |
| CB-65 A8 | 207 | 145 | 120 | 107  | -     | 171.4 | 139.72 | - | 57   | 66   | 26.5   | 22     | 21.5 | 32 | M75x2  | 4~M16x40 | 24 | 80.5 | 4~M8  |
| CB-80    | 235 | 175 | 150 | 112  | 220   | 171.4 | -      | 5 | 37   | 82.5 | 13.5   | 8      | 25   | 45 | M85x2  | 6~M16x30 | 22 | 87   | 6~M10 |
| CB-80 A8 | 210 | 175 | 150 | 125  | -     | 171.4 | 139.72 | - | 50   | 82.5 | 26.5   | 21     | 25   | 45 | M85x2  | 6~M16x50 | 24 | 100  | 6~M10 |

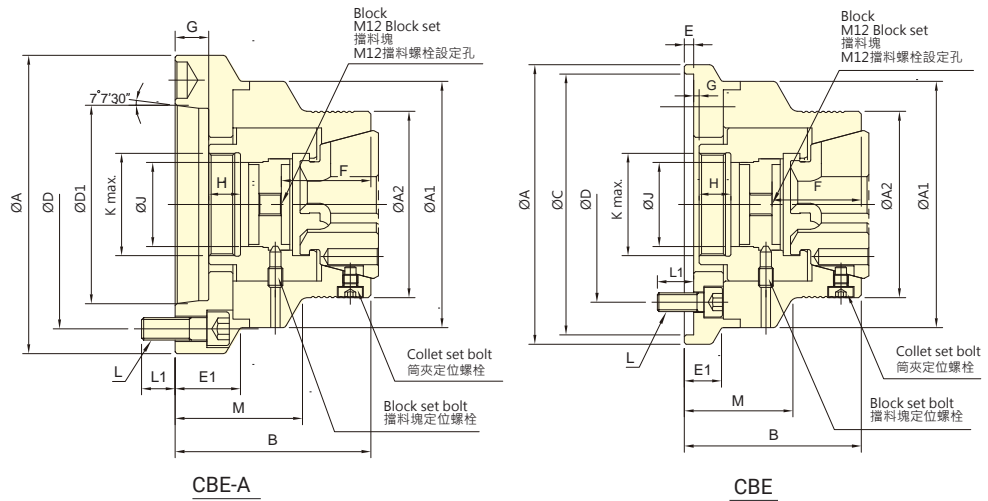


- 後拉定位夾持，配合擋料塊機構，具徑向夾持與軸向微調力矩，可精準定位工件入料長度，使長度精度控制更加精準。
- 擋料塊與防塵蓋可互換搭配使用，應用與防屑功能可以兼顧。
- The pull-back positioning clamping, combined with the workpiece stop block mechanism, features radial clamping and axial fine-tuning torque, enabling precise positioning of the workpiece feeding length for enhanced length accuracy control.
- The blocking block and dust cover can be swapped for versatile use and chip protection.
- J 值為連結螺帽末車製螺牙時的孔徑。
- K max 值為連結螺帽可車製螺牙之最大規格，可依實際需求訂製。
- J is the hole diameter of blank draw nut.
- K is the maximum thread specification and it could be customize.



配合擋料機構，夾緊時，工件不會往後位移，表面會有些許擦痕。  
With the material stop mechanism in place, the workpiece does not shift backward during clamping, although there may be slight scuff marks on the surface.

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



### 技術規格 SPECIFICATIONS

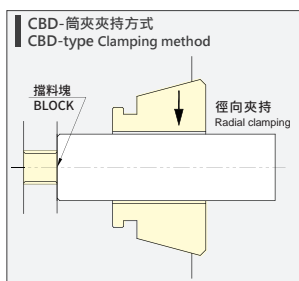
| 型號<br>Model | 套筒行程<br>Plunger stroke<br>mm | 最大夾持能力<br>Max. Chucking Capacity |                      |                    | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | 重量<br>Weight<br>kg | 使用筒夾<br>Matching steel collet | 適用迴轉缸<br>Matching Cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|-------------|------------------------------|----------------------------------|----------------------|--------------------|--------------------------------------|--|---|--------------------|-------------------------------|------------------------|---|
|             |                              | 圓棒<br>Round<br>mm                | 六角材<br>Hexagom<br>mm | 方材<br>Square<br>mm |                                      |  |   |                    |                               |                        |   |
| CBE-42      | 4.5                          | 4~42                             | 7~36                 | 7~30               | 34.3(3500)                           | 78.4(8000)                               | 7000  | 6                  | RG-42                         | TK-B846                | 2.8(28)   |
| CBE-4212    | 4.5                          | 4~42                             | 7~36                 | 7~30               | 34.3(3500)                           | 78.4(8000)                               | 7000  | 6                  | RG-42                         | TK-B846                | 2.8(28)   |
| CBE-42 A5   | 4.5                          | 4~42                             | 7~36                 | 7~30               | 34.3(3500)                           | 78.4(8000)                               | 7000  | 6.3                | RG-42                         | TK-B846                | 2.8(28)   |
| CBE-42 A6   | 4.5                          | 4~42                             | 7~36                 | 7~30               | 34.3(3500)                           | 78.4(8000)                               | 7000  | 7.4                | RG-42                         | TK-B846                | 2.8(28)   |
| CBE-52      | 4.5                          | 4~52                             | 7~36                 | 7~30               | 39.2(4000)                           | 92.1(9400)                               | 7000  | 6.9                | RG-52                         | TK-A853                | 3.2(32)   |
| CBE-5212    | 4.5                          | 4~52                             | 7~36                 | 7~30               | 39.2(4000)                           | 92.1(9400)                               | 7000  | 6.7                | RG-52                         | TK-A853                | 3.2(32)   |
| CBE-5217    | 4.5                          | 4~52                             | 7~36                 | 7~30               | 39.2(4000)                           | 92.1(9400)                               | 7000  | 8.9                | RG-52                         | TK-A853                | 3.2(32)   |
| CBE-52 A5   | 4.5                          | 4~52                             | 7~36                 | 7~30               | 39.2(4000)                           | 92.1(9400)                               | 7000  | 7.8                | RG-52                         | TK-A853                | 3.2(32)   |
| CBE-52 A6   | 4.5                          | 4~52                             | 7~36                 | 7~30               | 39.2(4000)                           | 92.1(9400)                               | 7000  | 8.3                | RG-52                         | TK-A853                | 3.2(32)   |
| CBE-65      | 4.5                          | 4~65                             | 8~56                 | 8~46               | 44.1(4500)                           | 103(10500)                               | 6000  | 8.6                | RG-65                         | TS-866                 | 3.0(30)   |
| CBE-6514    | 4.5                          | 4~65                             | 8~56                 | 8~46               | 44.1(4500)                           | 103(10500)                               | 6000  | 9.3                | RG-65                         | TS-866                 | 3.0(30)   |
| CBE-65 A5   | 4.5                          | 4~65                             | 8~56                 | 8~46               | 44.1(4500)                           | 103(10500)                               | 6000  | 10.8               | RG-65                         | TS-866                 | 3.0(30)   |
| CBE-65 A6   | 4.5                          | 4~65                             | 8~56                 | 8~46               | 44.1(4500)                           | 103(10500)                               | 6000  | 9.5                | RG-65                         | TS-866                 | 3.0(30)   |
| CBE-65 A8   | 4.5                          | 4~65                             | 8~56                 | 8~46               | 44.1(4500)                           | 103(10500)                               | 6000  | 9.5                | RG-65                         | TS-866                 | 3.0(30)   |

### 外型尺寸 DIMENSIONS

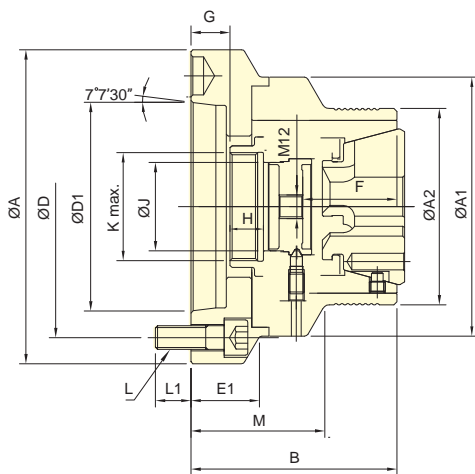
| Model     | A   | A1  | A2  | B   | C (H6) | D     | D1     | E | E1 | F  | G max. | G min. | H    | J  | K max. | L        | L1   | M  |
|-----------|-----|-----|-----|-----|--------|-------|--------|---|----|----|--------|--------|------|----|--------|----------|------|----|
| CBE-42    | 150 | 132 | 100 | 95  | 140    | 104.8 | -      | 5 | 20 | 48 | 5.5    | 1      | 17   | 45 | M55x2  | 4~M10x25 | 19.5 | 58 |
| CBE-4212  | 132 | 132 | 100 | 95  | 120    | 100   | -      | 5 | -  | 48 | 5.5    | 1      | 17   | 45 | M55x2  | 4~M10x25 | 19.5 | 58 |
| CBE-42 A5 | 132 | 132 | 100 | 105 | -      | 104.8 | 82.56  | - | -  | 48 | 20.5   | 16     | 17   | 45 | M55x2  | 4~M10x30 | 16   | 68 |
| CBE-42 A6 | 160 | 132 | 100 | 105 | -      | 133.4 | 106.38 | - | 35 | 48 | 20.5   | 16     | 17   | 45 | M55x2  | 4~M12x35 | 18   | 68 |
| CBE-52    | 150 | 140 | 107 | 99  | 140    | 104.8 | -      | 5 | -  | 52 | 5.5    | 1      | 17   | 56 | M60x2  | 4~M10x20 | 14.5 | 60 |
| CBE-5212  | 140 | 140 | 107 | 99  | 120    | 100   | -      | 5 | -  | 52 | 5.5    | 1      | 17   | 56 | M60x2  | 4~M10x20 | 14.5 | 60 |
| CBE-5217  | 180 | 140 | 107 | 109 | 170    | 133.4 | -      | 6 | -  | 52 | 14.5   | 10     | 17   | 56 | M60x2  | 4~M12x30 | 18   | 70 |
| CBE-52 A5 | 140 | 140 | 107 | 109 | -      | 104.8 | 82.56  | - | -  | 52 | 20.5   | 16     | 17   | 56 | M60x2  | 4~M10x30 | 16   | 70 |
| CBE-52 A6 | 160 | 140 | 107 | 109 | -      | 133.4 | 106.37 | - | -  | 52 | 20.5   | 16     | 17   | 56 | M60x2  | 4~M12x35 | 18   | 70 |
| CBE-65    | 180 | 157 | 122 | 114 | 170    | 133.4 | -      | 6 | 24 | 56 | 15     | 10.5   | 17.5 | 68 | M75x2  | 4~M12x30 | 18   | 72 |
| CBE-6514  | 157 | 157 | 122 | 116 | 140    | 104.8 | -      | 6 | -  | 56 | 17     | 12.5   | 17.5 | 68 | M75x2  | 4~M10x30 | 18   | 74 |
| CBE-65 A5 | 157 | 157 | 122 | 114 | -      | 104.8 | 82.56  | - | -  | 56 | 21     | 16.5   | 17.5 | 68 | M75x2  | 4~M10x25 | 16   | 72 |
| CBE-65 A6 | 157 | 157 | 122 | 112 | -      | 133.4 | 106.38 | - | -  | 56 | 19     | 14.5   | 17.5 | 68 | M75x2  | 4~M12x35 | 18.5 | 70 |
| CBE-65 A8 | 202 | 157 | 122 | 116 | -      | 171.4 | 139.72 | - | 38 | 56 | 23     | 18.5   | 17.5 | 68 | M75x2  | 4~M16x35 | 24   | 74 |



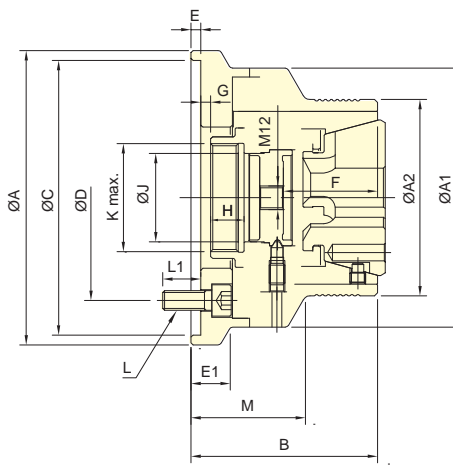
- 前推夾持，搭配擋料塊機構，具徑向夾持徑向零移位，可精準定位工件入料長度，使長度精度控制更加精準。
- 搭配AUTOGRIP橡膠筒夾，不會產生一般彈性筒夾將工件往前推的情況，可使工件表面不受損。
- 擋料塊與防塵蓋可互換搭配使用，通孔應用與防屑功能可以兼顧，適合副主軸夾持，可減少夾持的拉壓力現象。
- The push-forward clamping, combined with a stop block mechanism, features radial clamping with zero radial displacement, enabling precise positioning of the workpiece feeding length for improved length accuracy control.
- AUTOGRIP rubber tube clamping eliminates forward pushing, minimizing surface damage.
- Interchangeable workpiece stopper and dust cover enable through-hole applications and chip protection, suitable for sub-spindle clamping, reducing tension and compression.
- J 值為連結螺帽未車製螺牙時的孔徑。  
K max 值為連結螺帽可車製螺牙之最大規格，可依實際需求訂製。
- J is the hole diameter of blank draw nut.  
K is the maximum thread specification and it could be customize.



夾緊時，工件不會往前位移。  
When clamping, the workpiece does not shift forward.



CBD-A



CBD

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

## 技術規格 SPECIFICATIONS

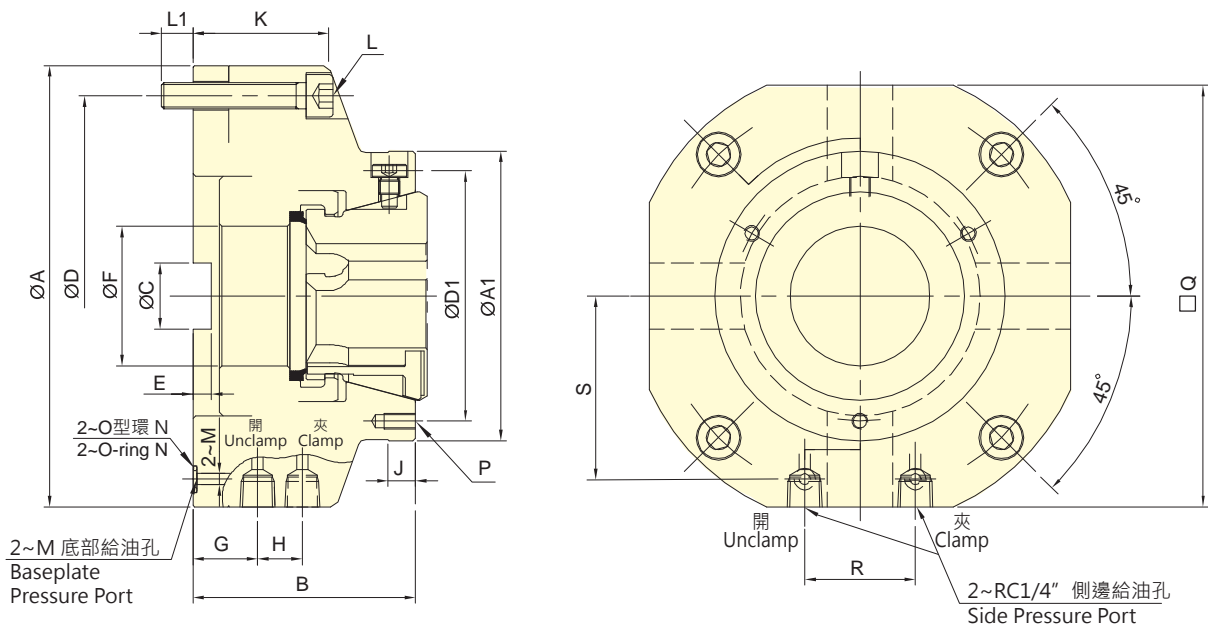
| 型號<br>Model | 套筒行程<br>Plunger stroke<br>mm | 最大夾持能力<br>Max. Chucking Capacity |                      |                    | 容許最大入力<br>Max. D.B. pull<br>kN (kgf) | 最大夾持力<br>Max. clamping force<br>kN (kgf) | 最高迴轉數<br>Max. speed<br>min <sup>-1</sup> (r.p.m.) | 重量<br>Weight<br>kg | 使用筒夾<br>Matching steel collet | 適用迴轉缸<br>Matching Cyl. | 最大使用壓力<br>Max. pressure<br>MPa (kgf/cm <sup>2</sup> ) |
|-------------|------------------------------|----------------------------------|----------------------|--------------------|--------------------------------------|--|---|--------------------|-------------------------------|------------------------|---|
|             |                              | 圓棒<br>Round<br>mm                | 六角材<br>Hexagom<br>mm | 方材<br>Square<br>mm |                                      |  |   |                    |                               |                        |   |
| CBD-52      | 4.5                          | 4~52                             | 7~36                 | 7~45               | 39.2(4000)                           | 92.1(9400)                               | 7000  | 7.3                | RG-52                         | TK-A853                | 3.0(30)   |
| CBD-5212    | 4.5                          | 4~52                             | 7~36                 | 7~45               | 39.2(4000)                           | 92.1(9400)                               | 7000  | 7.1                | RG-52                         | TK-A853                | 3.0(30)   |
| CBD-5217    | 4.5                          | 4~52                             | 7~36                 | 7~45               | 39.2(4000)                           | 92.1(9400)                               | 7000  | 10.9               | RG-52                         | TK-A853                | 3.0(30)   |
| CBD-52      | A5                           | 4.5                              | 4~52                 | 7~36               | 7~45                                 | 39.2(4000)                               | 92.1(9400)  | 7.8                | RG-52                         | TK-A853                | 3.0(30)   |
| CBD-52      | A6                           | 4.5                              | 4~52                 | 7~36               | 7~45                                 | 39.2(4000)                               | 92.1(9400)  | 9.1                | RG-52                         | TK-A853                | 3.0(30)   |
| CBD-65      | 4.5                          | 4~65                             | 8~56                 | 8~46               | 44.1(4500)                           | 103(10500)                               | 6000  | 8.6                | RG-65                         | TS-866                 | 2.7(27)   |
| CBD-6514    | 4.5                          | 4~65                             | 8~56                 | 8~46               | 44.1(4500)                           | 103(10500)                               | 6000  | 9.3                | RG-65                         | TS-866                 | 2.7(27)   |
| CBD-65      | A5                           | 4.5                              | 4~65                 | 8~56               | 8~46                                 | 44.1(4500)                               | 103(10500)  | 10.8               | RG-65                         | TS-866                 | 2.7(27)   |
| CBD-65      | A6                           | 4.5                              | 4~65                 | 8~56               | 8~46                                 | 44.1(4500)                               | 103(10500)  | 9.5                | RG-65                         | TS-866                 | 2.7(27)   |
| CBD-65      | A8                           | 4.5                              | 4~65                 | 8~56               | 8~46                                 | 44.1(4500)                               | 103(10500)  | 9.5                | RG-65                         | TS-866                 | 2.7(27)   |

## 外型尺寸 DIMENSIONS

| Model    | A   | A1  | A2  | B   | C (H6) | D     | D1     | E | E1 | F  | G max. | G min. | H    | J  | K max. | L        | L1   | M  |
|----------|-----|-----|-----|-----|--------|-------|--------|---|----|----|--------|--------|------|----|--------|----------|------|----|
| CBD-52   | 150 | 140 | 116 | 99  | 140    | 104.8 | -      | 5 | -  | 52 | 7      | 2.5    | 17   | 56 | M60x2  | 4~M10x20 | 14.5 | 57 |
| CBD-5212 | 140 | 140 | 116 | 99  | 120    | 100   | -      | 5 | -  | 52 | 7      | 2.5    | 17   | 56 | M60x2  | 4~M10x20 | 14.5 | 57 |
| CBD-5217 | 180 | 140 | 116 | 109 | 170    | 133.4 | -      | 6 | -  | 52 | 16     | 11.5   | 17   | 56 | M60x2  | 4~M12x30 | 18   | 67 |
| CBD-52   | A5  | 140 | 140 | 116 | 109    | 104.8 | 82.56  | - | -  | 52 | 22     | 17.5   | 17   | 56 | M60x2  | 4~M10x30 | 16   | 67 |
| CBD-52   | A6  | 160 | 140 | 116 | 109    | 133.4 | 106.38 | - | -  | 52 | 22     | 17.5   | 17   | 56 | M60x2  | 4~M12x35 | 18   | 67 |
| CBD-65   | 180 | 157 | 132 | 112 | 170    | 133.4 | -      | 6 | 24 | 54 | 15.5   | 11     | 17.5 | 68 | M75x2  | 4~M12x30 | 18   | 70 |
| CBD-6514 | 157 | 157 | 132 | 114 | 140    | 104.8 | -      | 6 | -  | 54 | 17.5   | 13     | 17.5 | 68 | M75x2  | 4~M10x30 | 18   | 72 |
| CBD-65   | A5  | 157 | 157 | 132 | 112    | 104.8 | 82.56  | - | -  | 54 | 21.5   | 17     | 17.5 | 68 | M75x2  | 4~M10x25 | 16   | 70 |
| CBD-65   | A6  | 157 | 157 | 132 | 110    | 133.4 | 106.38 | - | -  | 54 | 19.5   | 15     | 17.5 | 68 | M75x2  | 4~M12x35 | 18.5 | 68 |
| CBD-65   | A8  | 202 | 157 | 132 | 114    | 171.4 | 139.72 | - | 38 | 54 | 23.5   | 19     | 17.5 | 68 | M75x2  | 4~M16x35 | 24   | 72 |



- 適合鑽床、銑床或切削中心機使用。
- 高精度及高剛性結構。
- 不需要另外搭配立式油壓缸。
- 安裝容易，接上配管即可進行加工。
- 搭配RG系統橡膠筒夾，換模簡便快速。
- 提供側邊配管與底部油路板兩種供油模式。
- Build-in cylinder, ideal for drilling machines, milling machines and machining centers
- Work with AUTOGRIP's rubber collet(RG series), quick change and saving runtime.
- Two modes for the media supply: side-supply mode or baseplate-supply mode.



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

### 技術規格 SPECIFICATIONS

| 型號            | 爪行程(直徑)<br>Jaw stroke(Dia.) | 最大夾持能力<br>Max. Chucking Capacity |                |              | 最大夾持力<br>Max. clamping force | 重量<br>Weight | 使用筒夾<br>Matching steel collet | 最大使用壓力<br>Max. pressure |
|---------------|-----------------------------|----------------------------------|----------------|--------------|------------------------------|--------------|-------------------------------|-------------------------|
|               |                             | 圓棒<br>Round                      | 六角材<br>Hexagom | 方材<br>Square |                              |              |                               |                         |
| Model         | mm                          | mm                               | mm             | mm           | kN (kgf)                     | kg           |                               |                         |
| <b>SCB-52</b> | ± 0.5                       | 4~52                             | 7~45           | 7~36         | 80(8150)                     | 8.6          | RG-52                         | 4.0(40)                 |
| <b>SCB-65</b> | ± 0.5                       | 4~65                             | 8~56           | 8~46         | 105(10700)                   | 10.2         | RG-65                         | 4.2(42)                 |

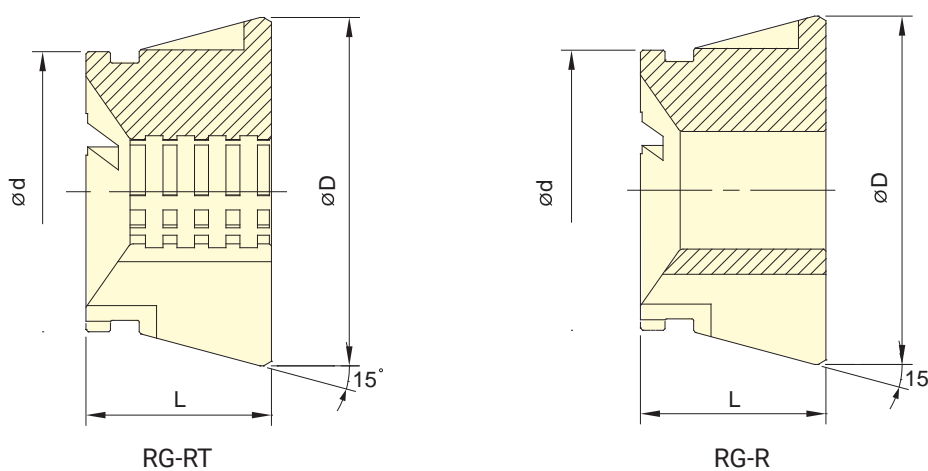
### 外型尺寸 DIMENSIONS

| Model         | A (g6) | A1  | B    | C  | D   | D1  | E | F  | G    | H  |
|---------------|--------|-----|------|----|-----|-----|---|----|------|----|
| <b>SCB-52</b> | 175    | 110 | 84.5 | 25 | 152 | 95  | 7 | 53 | 24.5 | 17 |
| <b>SCB-65</b> | 192    | 130 | 94   | 30 | 169 | 114 | 9 | 66 | 26.5 | 20 |

| Model         | J  | K    | L     | L1   | M   | N  | P       | Q   | R  | S    |
|---------------|----|------|-------|------|-----|----|---------|-----|----|------|
| <b>SCB-52</b> | 10 | 51.5 | 4~M10 | 12   | 4.2 | P7 | 3~M6x12 | 160 | 42 | 69.5 |
| <b>SCB-65</b> | 10 | 61.5 | 4~M10 | 12.5 | 4.2 | P7 | 3~M6x12 | 175 | 50 | 77   |



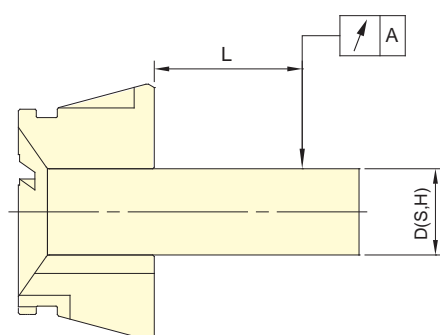
- 可用於前推式或後拉式設計的筒夾夾頭。
- 平順與接近全包覆夾持的特性，擁有更好的夾持力，且不容易傷害工件。
- 搭配單一對應工件尺寸。
- 單一規格夾持範圍可達 $\pm 0.5\text{mm}$ 。
- 更換快速方便。
- 防塵防屑設計。
- Rubber grip collet for push type or draw type collet chucks.
- Full gripping area: high rigidity, more gripping force. Gripping smoothly: prevent to damage the workpiece.
- More accurate than standard spring collets. Accuracy: With customized rubber grip collet.
- Grip Range:  $\pm 0.5\text{mm}$ .
- Quick change and easy.
- Dust-proof and swarf-proof design.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 最大夾持能力<br>Max. Chucking Capacity<br>圓棒 Round<br>mm | d  | D    | L  | 適合筒夾夾頭                        |
|-------------|--|----|------|----|-------------------------------|
|             |  |    |      |    | Matching Collect Chuck        |
| RG-42R      | 4~42   | 54 | 79.3 | 42 | CB-42, CBE-42                 |
| RG-42RT     | 11~42  | 54 | 79.3 | 42 | CB-42, CBE-42                 |
| RG-52R      | 4~52   | 66 | 79.3 | 46 | CB-52, CBD-52, CBE-52, SCB-52 |
| RG-52RT     | 11~52  | 66 | 79.3 | 46 | CB-52, CBD-52, CBE-52, SCB-52 |
| RG-65R      | 4~65   | 80 | 99.5 | 53 | CB-65, CBD-65, CBE-65, SCB-65 |
| RG-65RT     | 11~65  | 80 | 99.5 | 53 | CB-65, CBD-65, CBE-65, SCB-65 |



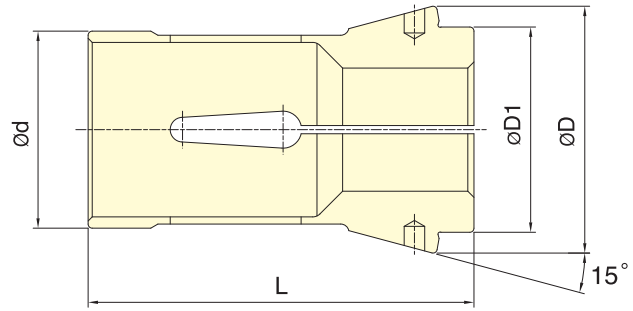
| 測棒 D(S,H)       | L   | A DIN  |        |
|-----------------|-----|--------|--------|
| Test Bar D(S,H) | mm  | Class1 | Class2 |
| 3.0~6.0         | 16  | 0.015  | 0.020  |
| 6.0~10.0        | 25  | 0.015  | 0.020  |
| 10.0~18.0       | 40  | 0.020  | 0.030  |
| 18.0~24.0       | 50  | 0.020  | 0.030  |
| 24.0~30.0       | 60  | 0.020  | 0.030  |
| 30.0~50.0       | 80  | 0.030  | 0.040  |
| 50.0~60.0       | 100 | 0.030  | 0.040  |

註 1：一般內筒夾精度為 DIN 二級

註 2：本公司橡膠筒夾以 DIN 一級為標準

Note1: Collets chuck are conformed to DIN 6343 Class2.

Note2: AUTOGRIP's rubber grip collets are conformed to DIN 6343 Class1.



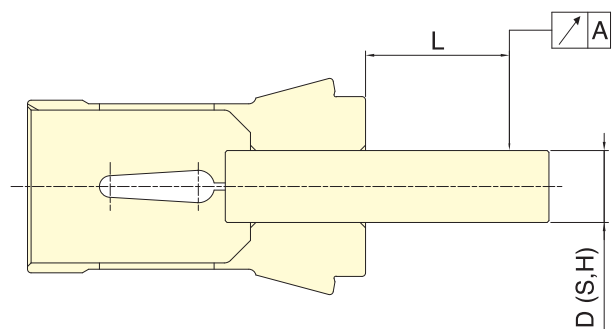
DIN 6343 Collet standard  
筒夾規範

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

外型尺寸 DIMENSIONS

| 彈性筒夾<br>Collet | 最大夾持能力<br>Max. Chucking Capacity (mm) |                |              | d  | D   | D1 | L   | 適合筒夾夾頭                             |
|----------------|---------------------------------------|----------------|--------------|----|-----|----|-----|------------------------------------|
|                | 圓棒<br>Round                           | 六角材<br>Hexagom | 方材<br>Square |    |     |    |     | Matching Collet Chuck              |
| 161E           | 3~26                                  | 4~22           | 4~18         | 32 | 45  | 34 | 75  | CL-26, CL-26A4                     |
| 163E           | 3~30                                  | 4~26           | 4~20         | 35 | 48  | 38 | 80  | CL-30, CL-30A4                     |
| 171E           | 3~36                                  | 6~32           | 6~26         | 42 | 55  | 42 | 94  | CL-36, CL-36A5                     |
| 173E           | 3~42                                  | 6~36           | 6~29         | 48 | 60  | 50 | 94  | CL-42, CL-42A5, CL-42A6            |
| 177E           | 5~52                                  | 8~45           | 7~36         | 58 | 70  | 60 | 94  | CL-52, CL-52A6                     |
| 185E           | 5~60                                  | 8~52           | 7~42         | 66 | 84  | 73 | 110 | CL-6017, CL-6022, CL-60A6, CL-60A8 |
| 193E           | 20~80                                 | 18~69          | 15~56        | 90 | 107 | 92 | 130 | CL-80, CL-80A8                     |

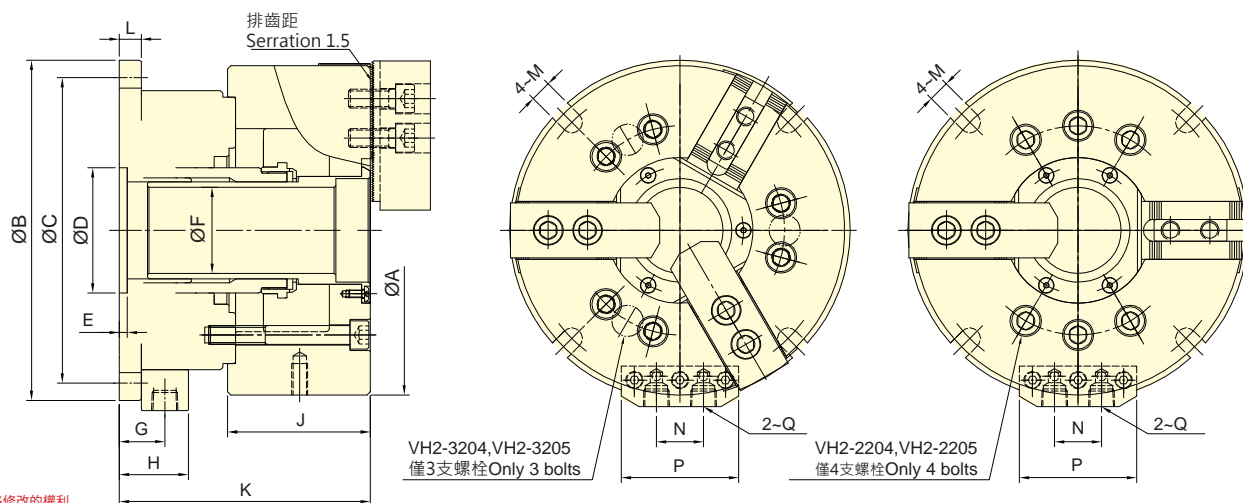
| 測棒D(S,H)  | L mm | A DIN   |         |
|-----------|------|---------|---------|
|           |      | Class 1 | Class 2 |
| 0.5~1.0   | 3    | 0.015   | 0.015   |
| 1.0~1.6   | 6    | 0.015   | 0.020   |
| 1.6~3.0   | 10   | 0.015   | 0.020   |
| 3.0~6.0   | 16   | 0.015   | 0.020   |
| 6.0~10.0  | 25   | 0.015   | 0.020   |
| 10.0~18.0 | 40   | 0.020   | 0.030   |
| 18.0~24.0 | 50   | 0.020   | 0.030   |
| 24.0~30.0 | 60   | 0.020   | 0.030   |
| 30.0~50.0 | 80   | 0.030   | 0.040   |
| 50.0~60.0 | 100  | 0.030   | 0.040   |



註：一般內筒夾 精度為 DIN 二級  
Note: Collets chuck are conformed to DIN 6343 Class2.



- 立置式中空動力夾頭，適合鑽床、銑床或切削中心機使用，有二爪及三爪兩種形式。
- VH2-2200型式所配對之夾頭規格及寸法與2H-2型式相同。
- VH2-3200型式所配對之夾頭規格及寸法與3H-2型式相同。
- Stationary Chuck with two or three jaws for drilling, milling and other machines.
- Specification and size of matching chuck for model VH2-2200 is the same as model 2H-2.
- Specification and size of matching chuck for model VH2-3200 is the same as model 3H-2.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積Eff. Piston area        |                              | 爪行程(直徑)<br>Jaw stroke(Dia.)<br>mm | 最大使用壓力<br>Max. pressure<br>MPa(kgf/cm <sup>2</sup> ) | 重量<br>Weight<br>kg |
|-------------|-----------------------------|------------------------------|-----------------------------------|--|--------------------|
|             | 押側Extend<br>cm <sup>2</sup> | 拉側Retract<br>cm <sup>2</sup> |                                   |  |                    |
| VH2-2204    | 52.4                        | 46.7                         | 5.5                               | 2.0 (20)   | 9.5                |
| VH2-3204    | 52.4                        | 46.7                         | 5.5                               | 3.0 (30)   | 9.5                |
| VH2-2205    | 63.7                        | 57.9                         | 5.5                               | 2.0 (20)   | 13.1               |
| VH2-3205    | 63.7                        | 57.9                         | 5.5                               | 3.0 (30)   | 12.6               |
| VH2-2206    | 97.1                        | 88.5                         | 6.0                               | 1.8 (17.9)   | 21.5               |
| VH2-3206    | 97.1                        | 88.5                         | 6.0                               | 2.7 (26.8)   | 21.5               |
| VH2-2208    | 128.9                       | 113.6                        | 7.6                               | 2.1 (20.7)   | 32.9               |
| VH2-3208    | 128.9                       | 113.6                        | 7.6                               | 2.9 (28.6)   | 33.4               |
| VH2-2210    | 189.2                       | 174.3                        | 8.9                               | 1.9 (19.2)   | 55                 |
| VH2-3210    | 189.2                       | 174.3                        | 8.9                               | 2.9 (28.7)   | 59                 |

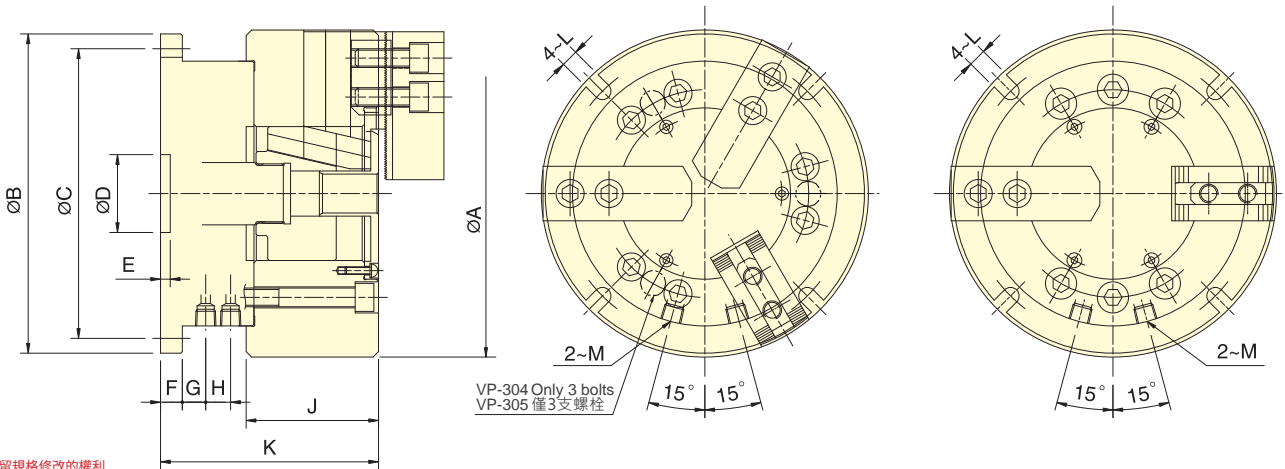
### 外型尺寸 DIMENSIONS

| Model    | A   | B   | C   | D(H7) | E | F  | G  | H  | J   | K     | L  | M    | N  | P  | Q     |
|----------|-----|-----|-----|-------|---|----|----|----|-----|-------|----|------|----|----|-------|
| VH2-2204 | 113 | 155 | 137 | 50    | 5 | 27 | 23 | 34 | 59  | 122.5 | 12 | 9    | 26 | 62 | RC1/4 |
| VH2-3204 | 113 | 155 | 137 | 50    | 5 | 27 | 23 | 34 | 59  | 122.5 | 12 | 9    | 26 | 62 | RC1/4 |
| VH2-2205 | 138 | 168 | 150 | 60    | 5 | 32 | 23 | 34 | 60  | 125   | 12 | 9    | 26 | 62 | RC1/4 |
| VH2-3205 | 138 | 168 | 150 | 60    | 5 | 32 | 23 | 34 | 60  | 125   | 12 | 9    | 26 | 62 | RC1/4 |
| VH2-2206 | 170 | 194 | 176 | 80    | 5 | 45 | 25 | 36 | 81  | 143   | 14 | 11   | 26 | 62 | RC1/4 |
| VH2-3206 | 170 | 194 | 176 | 80    | 5 | 45 | 25 | 36 | 81  | 143   | 14 | 11   | 26 | 62 | RC1/4 |
| VH2-2208 | 210 | 217 | 195 | 80    | 5 | 55 | 29 | 44 | 91  | 160   | 14 | 13.5 | 30 | 75 | RC3/8 |
| VH2-3208 | 210 | 217 | 195 | 80    | 5 | 55 | 29 | 44 | 91  | 160   | 14 | 13.5 | 30 | 75 | RC3/8 |
| VH2-2210 | 260 | 266 | 246 | 100   | 6 | 76 | 32 | 47 | 102 | 192   | 17 | 13.5 | 30 | 75 | RC3/8 |
| VH2-3210 | 260 | 266 | 246 | 100   | 6 | 76 | 32 | 47 | 102 | 192   | 17 | 13.5 | 30 | 75 | RC3/8 |



- 立置式中實動力夾頭，適合鑽床、銑床或切削中心機使用，有二爪及三爪兩種形式。
- VP-200型式所配對之夾頭規格及寸法與2P型式相同。
- VP-300型式所配對之夾頭規格及寸法與3P型式相同。
- Stationary Chuck with two or three jaws for drilling, milling and other machines.
- Specification and size of matching chuck for model VP-200 is the same as model 2P.
- Specification and size of matching chuck for model VP-300 is the same as model 3P.

立置式夾頭



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

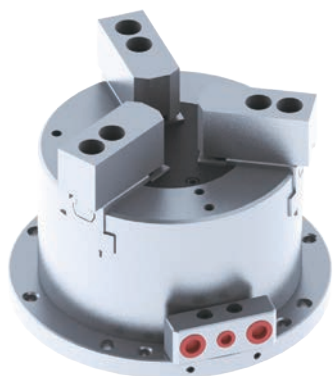
### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積Eff. Piston area        |                              | 爪行程(直徑)<br>Jaw stroke(Dia.) | 最大使用壓力<br>Max. pressure   | 重量<br>Weight |
|-------------|-----------------------------|------------------------------|-----------------------------|---------------------------|--------------|
|             | 押側Extend<br>cm <sup>2</sup> | 拉側Retract<br>cm <sup>2</sup> | mm                          | MPa(kgf/cm <sup>2</sup> ) | kg           |
| VP-204      | 28.0                        | 24.9                         | 6.4                         | 2.1(21)                   | 7.1          |
| VP-304      | 28.0                        | 24.9                         | 6.4                         | 3.2(32)                   | 7.4          |
| VP-205      | 28.0                        | 24.9                         | 6.4                         | 2.2(22)                   | 10.2         |
| VP-305      | 28.0                        | 24.9                         | 6.4                         | 3.3(33)                   | 10.6         |
| VP-206      | 63.1                        | 53.5                         | 8.5                         | 2.3(23)                   | 18.3         |
| VP-306      | 63.1                        | 53.5                         | 8.5                         | 3.4(34)                   | 19.8         |
| VP-208      | 103.4                       | 90.8                         | 8.8                         | 1.9(19)                   | 31.6         |
| VP-308      | 103.4                       | 90.8                         | 8.8                         | 2.8(28)                   | 33.6         |
| VP-210      | 153.1                       | 133.5                        | 8.8                         | 1.5(15)                   | 52.8         |
| VP-310      | 153.1                       | 133.5                        | 8.8                         | 2.2(22)                   | 54.5         |

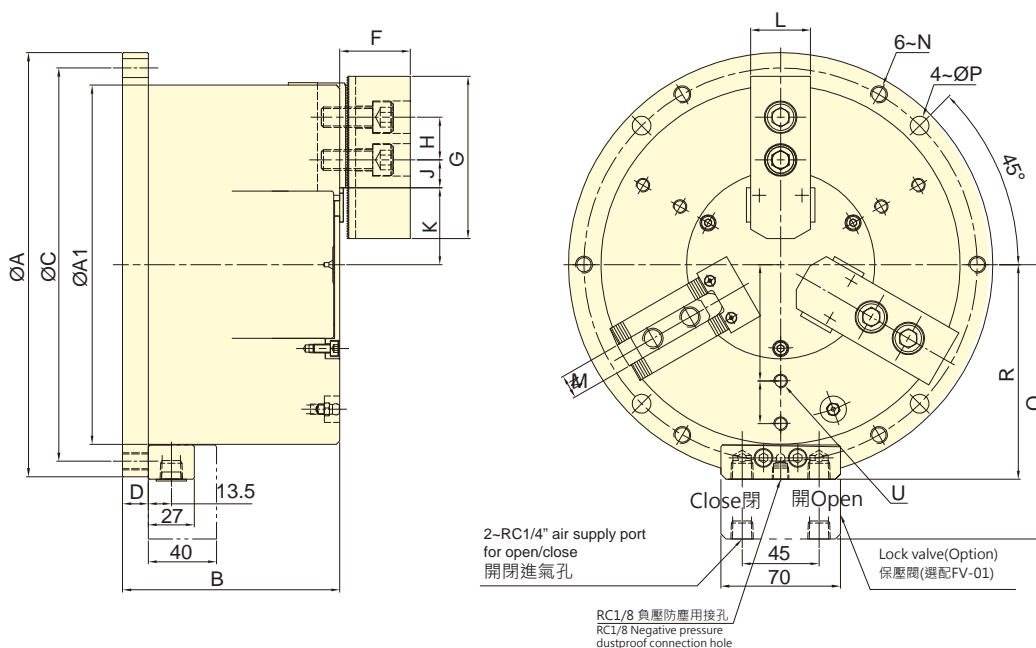
### 外型尺寸 DIMENSIONS

| Model  | A   | B   | C   | D(H8) | E   | F  | G    | H    | J  | K   | L  | M     |
|--------|-----|-----|-----|-------|-----|----|------|------|----|-----|----|-------|
| VP-204 | 110 | 146 | 130 | 30    | 4.5 | 12 | 18   | 2    | 52 | 92  | 9  | RC1/4 |
| VP-304 | 110 | 146 | 130 | 30    | 4.5 | 12 | 18   | 2    | 52 | 92  | 9  | RC1/4 |
| VP-205 | 135 | 146 | 130 | 30    | 4.5 | 12 | 18   | 2    | 55 | 95  | 9  | RC1/4 |
| VP-305 | 135 | 146 | 130 | 30    | 4.5 | 12 | 18   | 2    | 55 | 95  | 9  | RC1/4 |
| VP-206 | 165 | 178 | 160 | 40    | 5   | 12 | 14.5 | 12.5 | 74 | 125 | 11 | RC1/4 |
| VP-306 | 165 | 178 | 160 | 40    | 5   | 12 | 14.5 | 12.5 | 74 | 125 | 11 | RC1/4 |
| VP-208 | 210 | 205 | 186 | 40    | 5   | 14 | 15   | 16   | 85 | 140 | 11 | RC1/4 |
| VP-308 | 210 | 205 | 186 | 40    | 5   | 14 | 15   | 16   | 85 | 140 | 11 | RC1/4 |
| VP-210 | 254 | 248 | 225 | 50    | 6   | 17 | 20   | 18   | 89 | 176 | 13 | RC3/8 |
| VP-310 | 254 | 248 | 225 | 50    | 6   | 17 | 20   | 18   | 89 | 176 | 13 | RC3/8 |





- 楔形中實夾頭，長爪行程。
- 內建油壓缸，當使用氣壓做為動力源時，可選配保壓閥組件。
- 安裝容易，接上配管即可進行加工。
- 薄型輕量化設計，並可使用標準生爪或標準硬爪。
- 可配合氣密檢知，進行軸向位置確認。
- 單一潤滑油孔，集中潤滑。
- WEDGE-HOOK type power chuck, and long jaw stroke.
- Build-in hydraulic cylinder; it can also work with lock valve and be driven by air pressure.
- Easy to install. Installing the tubes and then operating.
- Thin and compact design. Use standard soft jaws or standard hard jaws.
- Air-tight pressure detect function is optional.
- 配備氣密檢知。
- Equipped with Airtight pressure detection function.



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

### 技術規格 SPECIFICATIONS

| 型號            | 爪行程<br>(直徑)          | 夾持直徑          |                     | 最大夾持力         |               | 最大使用壓力                    |                           | 最低使用壓力              | 空氣消耗量<br>使用壓力6.0 kgf/cm <sup>2</sup> | 重量   |
|---------------|----------------------|---------------|---------------------|---------------|---------------|---------------------------|---------------------------|---------------------|--------------------------------------|------|
|               |                      | 最大            | 最小                  | 氣壓            | 油壓            | 氣壓                        | 油壓                        |                     |                                      |      |
|               |                      | Max.          | Min.                | Pneumatic     | Hydraulic     | Pneumatic                 | Hydraulic                 |                     |                                      |      |
| Model         | Jaw stroke<br>(Dia.) | Chucking Dia. | Max. clamping force | Max. pressure | Min. pressure | Air consumption           | Weight                    |                     |                                      |      |
|               | mm                   | mm            | mm                  | kN(kgf)       | kN(kgf)       | MPa(kgf/cm <sup>2</sup> ) | MPa(kgf/cm <sup>2</sup> ) | kgf/cm <sup>2</sup> | lit (at 6.0 kgf/cm <sup>2</sup> )    | kg   |
| <b>SM-306</b> | 13.1                 | 168           | 14                  | 15.9(1621)    | 27.2(2780)    | 0.7(7)                    | 1.2(12)                   | 2                   | 1.5                                  | 18.7 |
| <b>SM-308</b> | 16                   | 210           | 18                  | 26.2(2670)    | 45.0(4590)    | 0.7(7)                    | 1.2(12)                   | 2                   | 2.7                                  | 32.5 |
| <b>SM-310</b> | 19.6                 | 254           | 20                  | 37.0(3772)    | 63.0(6422)    | 0.7(7)                    | 1.2(12)                   | 2                   | 4.6                                  | 53.6 |

### 外型尺寸 DIMENSIONS

| Model         | A(h7) | A1  | B   | C   | D  | F  | G   | H  | J max. | J min. |
|---------------|-------|-----|-----|-----|----|----|-----|----|--------|--------|
| <b>SM-306</b> | 206   | 168 | 110 | 188 | 15 | 40 | 73  | 20 | 16.75  | 4.75   |
| <b>SM-308</b> | 248   | 210 | 127 | 230 | 15 | 41 | 95  | 25 | 23.75  | 8.75   |
| <b>SM-310</b> | 300   | 254 | 145 | 280 | 16 | 46 | 110 | 30 | 36.75  | 14.25  |

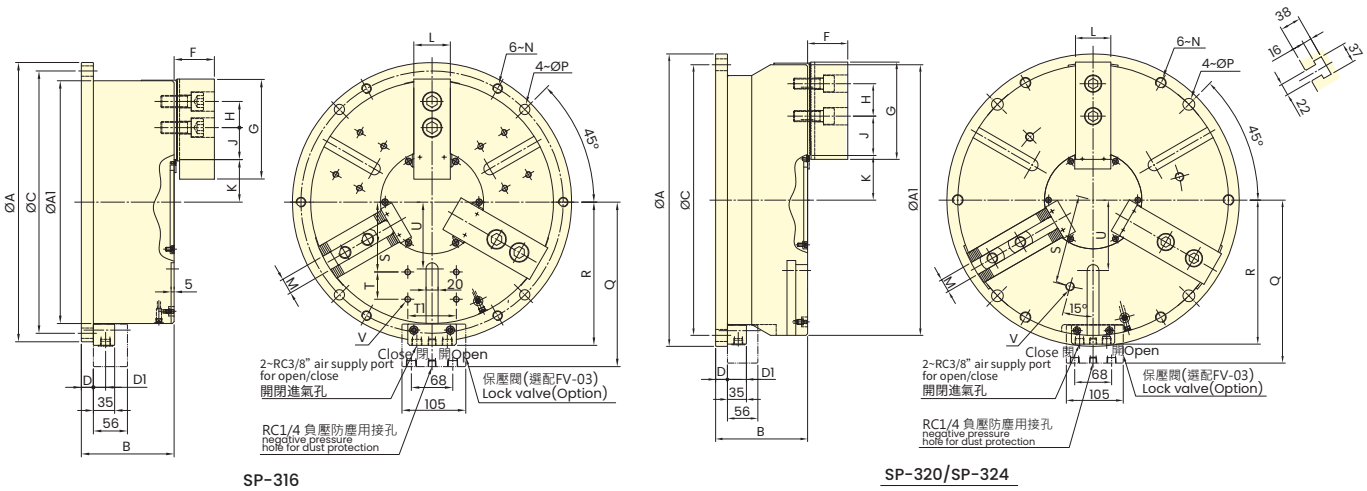
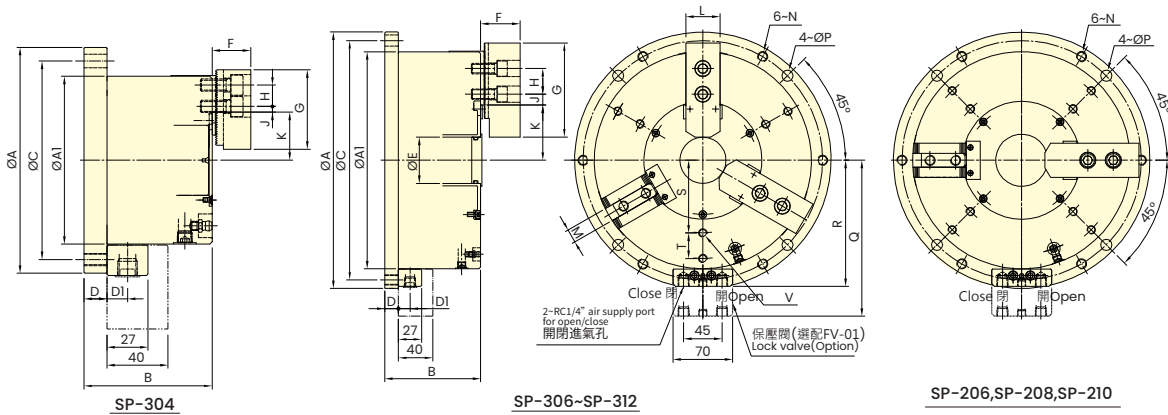
  

| Model         | K max. | K min. | L  | M  | N        | P  | Q     | R     | S  | T  |
|---------------|--------|--------|----|----|----------|----|-------|-------|----|----|
| <b>SM-306</b> | 39     | 32.45  | 31 | 12 | M10x1.5  | 11 | 139.5 | 104.5 | 55 | 18 |
| <b>SM-308</b> | 45     | 37     | 35 | 14 | M10x1.5  | 11 | 160.5 | 125.5 | 68 | 25 |
| <b>SM-310</b> | 50     | 40.2   | 40 | 16 | M12x1.75 | 13 | 182.5 | 147.5 | 85 | 30 |



- 立置式中實夾頭和立置式中空夾頭，有二爪及三爪兩種夾爪形式。
- 內建油壓缸。當使用氣壓做為動力源時，可選配保壓閥組件。
- 小的通孔徑，適合較長的棒材加工。
- 安裝容易，接上配管即可進行加工。
- 薄型輕量化設計，並可使用標準生爪或標準硬爪。
- 可與立置夾頭座板組合進行加工。
- Stationary Non-Thru-Hole Chuck and Stationary Thru-Hole Chuck. Two types of jaws (two-jaw, three-jaw).
- Build-in hydraulic cylinder; it can also work with lock valve and be driven by air pressure.
- With small thru-hole and suits for long bar workpiece processing.
- Easy to install. Installing the tubes and then operating.
- Thin and compact design. Use standard soft jaws or standard hard jaws.
- Can work together with multi-plate.

立置式夾頭



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

## 技術規格 SPECIFICATIONS

| 型號     | 爪行程<br>(直徑)          | 夾持直徑          |      | 最大夾持力               |            | 最大使用壓力                    |                           | 最低使用壓力              | 空氣消耗量<br>使用壓力6.0 kgf/cm <sup>2</sup> | 重量     |
|--------|----------------------|---------------|------|---------------------|------------|---------------------------|---------------------------|---------------------|--------------------------------------|--------|
|        |                      | 最大            | 最小   | 氣壓                  | 油壓         | 氣壓                        | 油壓                        |                     |                                      |        |
| Model  | Jaw stroke<br>(Dia.) | Chucking Dia. |      | Max. clamping force |            | Max. pressure             |                           | Min. pressure       | Air consumption                      | Weight |
|        |                      | Max.          | Min. | Pneumatic           | Hydraulic  | Pneumatic                 | Hydraulic                 |                     |                                      |        |
|        | mm                   | mm            | mm   | kN(kgf)             | kN(kgf)    | MPa(kgf/cm <sup>2</sup> ) | MPa(kgf/cm <sup>2</sup> ) | kgf/cm <sup>2</sup> | lit (at 6.0 kgf/cm <sup>2</sup> )    | kg     |
| SP-304 | 5.1                  | 110           | 10   | 7.5(765)            | 22.0(2243) | 0.7(7)                    | 1.2(12)                   | 2                   | 0.5                                  | 7      |
| SP-206 | 5.5                  | 168           | 30   | 34.1(3477)          | 46.1(4752) | 0.7(7)                    | 1.2(12)                   | 2                   | 1.4                                  | 16     |
| SP-306 | 5.5                  | 168           | 30   | 35.5(3620)          | 60.0(5252) | 0.7(7)                    | 1.2(12)                   | 2                   | 1.4                                  | 16.5   |
| SP-208 | 6.8                  | 210           | 42   | 43.2(4405)          | 74.0(7545) | 0.7(7)                    | 1.2(12)                   | 2                   | 2.5                                  | 27.7   |
| SP-308 | 6.8                  | 210           | 42   | 51.5(5251)          | 88.3(9004) | 0.7(7)                    | 1.2(12)                   | 2                   | 2.5                                  | 28.7   |

| 型號     | 爪行程<br>(直徑) | 夾持直徑  |                      | 最大夾持力                |                      | 最大使用壓力                                 |  | 最低使用壓力              | 空氣消耗量                             | 重量            |
|--------|-------------|-------|----------------------|----------------------|----------------------|--|--|---------------------|-----------------------------------|---------------|
|        |             | 最大    | 最小                   | 氣壓                   | 油壓                   | 氣壓                                     | 油壓                                     |                     | 使用壓力6.0 kgf/cm <sup>2</sup>       |               |
|        |             | Model | Jaw stroke<br>(Dia.) | Chucking Dia.        |                      | Max. clamping force                    |  | Max. pressure       |                                   | Min. pressure |
|        | mm          | mm    | mm                   | Pneumatic<br>kN(kgf) | Hydraulic<br>kN(kgf) | Pneumatic<br>MPa(kgf/cm <sup>2</sup> ) | Hydraulic<br>MPa(kgf/cm <sup>2</sup> ) | kgf/cm <sup>2</sup> | lit (at 6.0 kgf/cm <sup>2</sup> ) | kg            |
| SP-210 | 7           | 254   | 52                   | 60.5(6169)           | 94.5(9636)           | 0.7(7)                                 | 1.2(12)                                | 2                   | 4.2                               | 41.8          |
| SP-310 | 7           | 254   | 52                   | 68.2(6955)           | 118.7(12104)         | 0.7(7)                                 | 1.2(12)                                | 2                   | 4.2                               | 42            |
| SP-312 | 9.3         | 304   | 60                   | 75.8(7729)           | 148 (15091)          | 0.7(7)                                 | 1.2(12)                                | 2                   | 6.4                               | 71.3          |
| SP-316 | 14.5        | 400   | 30                   | 120.7(12305)         | 120.7(12305)         | 0.7(7)                                 | 0.7(7)                                 | 2                   | 10.6                              | 147.8         |
| SP-320 | 16          | 500   | 45                   | 155.6(15865)         | 155.6(15865)         | 0.7(7)                                 | 0.7(7)                                 | 2                   | 15                                | 232.7         |
| SP-324 | 16          | 600   | 140                  | 215.9(22015)         | 215.9(22015)         | 0.7(7)                                 | 0.7(7)                                 | 2                   | 22                                | 338.7         |

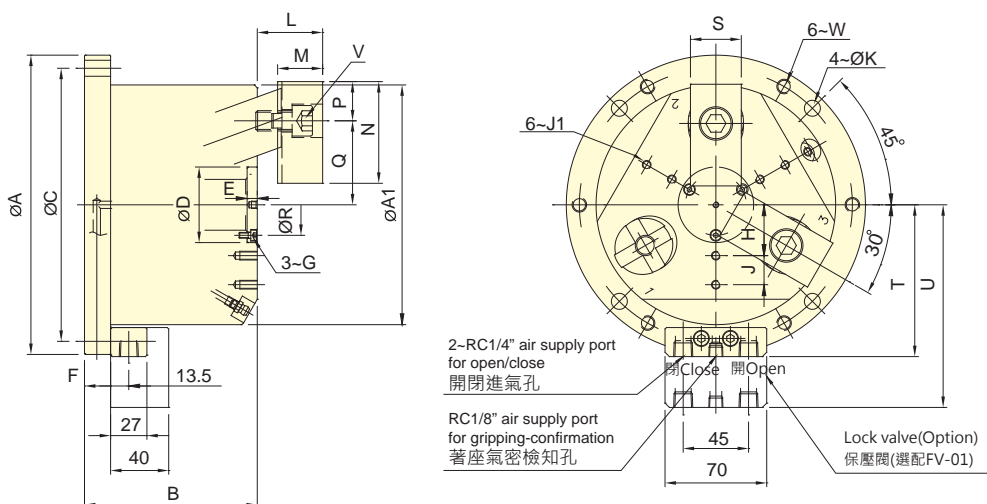
### 外型尺寸 DIMENSIONS

| Model  | A(h7) | A1  | B   | C   | D  | D1   | E  | F  | G   | H  | J max. | J min. |
|--------|-------|-----|-----|-----|----|------|----|----|-----|----|--------|--------|
| SP-304 | 148   | 110 | 84  | 130 | 15 | 13.5 | -  | 25 | 52  | 14 | 3.75   | 0.75   |
| SP-206 | 206   | 168 | 94  | 188 | 15 | 13.5 | 25 | 40 | 73  | 20 | 10.75  | 4.75   |
| SP-306 | 206   | 168 | 94  | 188 | 15 | 13.5 | 25 | 40 | 73  | 20 | 10.75  | 4.75   |
| SP-208 | 248   | 210 | 108 | 230 | 15 | 13.5 | 32 | 41 | 95  | 25 | 12.25  | 8.75   |
| SP-308 | 248   | 210 | 108 | 230 | 15 | 13.5 | 32 | 41 | 95  | 25 | 12.25  | 8.75   |
| SP-210 | 300   | 254 | 112 | 280 | 16 | 13.5 | 54 | 46 | 110 | 30 | 23.25  | 12.75  |
| SP-310 | 300   | 254 | 112 | 280 | 16 | 13.5 | 54 | 46 | 110 | 30 | 23.25  | 12.75  |
| SP-312 | 350   | 304 | 130 | 330 | 18 | 13.5 | 65 | 54 | 130 | 30 | 30.75  | 12.75  |
| SP-316 | 460   | 400 | 153 | 432 | 20 | 20   | -  | 66 | 165 | 43 | 67.75  | 18.25  |
| SP-320 | 540   | 500 | 170 | 500 | 22 | 20   | -  | 74 | 180 | 60 | 87.5   | 24.5   |
| SP-324 | 640   | 600 | 175 | 600 | 24 | 20   | -  | 74 | 180 | 60 | 87.5   | 24.5   |

| Model  | K max. | K min. | L  | M    | N        | P    | Q     | R     | S   | T  | T1 | U   | V          |
|--------|--------|--------|----|------|----------|------|-------|-------|-----|----|----|-----|------------|
| SP-304 | 31.5   | 28.95  | 23 | 10   | M8x1.25  | 9    | 110.5 | 75.5  | -   | -  | -  | -   | -          |
| SP-206 | 47     | 44.25  | 31 | 12   | M10x1.5  | 11   | 139.5 | 104.5 | 55  | 18 | -  | -   | 6~M8x1.25  |
| SP-306 | 47     | 44.25  | 31 | 12   | M10x1.5  | 11   | 139.5 | 104.5 | 55  | 18 | -  | -   | 6~M8x1.25  |
| SP-208 | 57     | 53.6   | 35 | 14   | M10x1.5  | 11   | 160.5 | 125.5 | 68  | 25 | -  | -   | 6~M8x1.25  |
| SP-308 | 57     | 53.6   | 35 | 14   | M10x1.5  | 11   | 160.5 | 125.5 | 68  | 25 | -  | -   | 6~M8x1.25  |
| SP-210 | 64.5   | 61     | 40 | 16   | M12x1.75 | 13   | 182.5 | 147.5 | 85  | 30 | -  | -   | 6~M10x1.5  |
| SP-310 | 64.5   | 61     | 40 | 16   | M12x1.75 | 13   | 182.5 | 147.5 | 85  | 30 | -  | -   | 6~M10x1.5  |
| SP-312 | 77.5   | 72.85  | 50 | 21   | M12x1.75 | 13   | 207.5 | 172.5 | 100 | 35 | -  | -   | 6~M10x1.5  |
| SP-316 | 70     | 62.75  | 60 | 25.5 | M16x2.0  | 17.5 | 271   | 236   | 115 | 45 | 80 | 110 | 12~M10x1.5 |
| SP-320 | 82.5   | 74.5   | 65 | 25   | M20x2.5  | 22   | 301   | 266   | 165 | -  | -  | 130 | 3~M16x2.0  |
| SP-324 | 129.5  | 121.5  | 65 | 25   | M20x2.5  | 22   | 351   | 316   | 200 | -  | -  | 180 | 3~M16x2.0  |



- 內建油壓缸，當使用氣壓做為動力源時，可選配保壓閥組件。
- 可同時將工件做徑向夾持與軸向後拉，使工件不上浮並緊貼座金基準面。
- 高剛性硬化處理的本體與圓柱後拉機構，並經過軸孔精搪，確保高夾持精度與耐用度，適合重切削場合。
- 可與立置夾頭座板組合進行加工。
- Build-in hydraulic cylinder; it can also work with lock valve and be driven by air pressure.
- Radial clamp and axial pull down at the same time, keep the workpiece attaching close to the base surface of the chuck.
- Almost no workpiece uplifting displacement.
- The body with heat treatment and the organization of cylinder pull-down and fine boring, which guarantee to the high clamping precision and durability, it's suitable for heavy duty machining.
- Can work together with multi-plate.
- 配備氣密檢知。
- Equipped with Airtight pressure detection function.



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

### 技術規格 SPECIFICATIONS

| 型號     | 爪行程<br>(直徑)          | 夾持直徑          |    | 最大夾持力               |             | 最大使用壓力                    |                           | 最低使用壓力        | 空氣消耗量                       | 重量     |
|--------|----------------------|---------------|----|---------------------|-------------|---------------------------|---------------------------|---------------|-----------------------------|--------|
|        |                      | 最大            | 最小 | 氣壓                  | 油壓          | 氣壓                        | 油壓                        |               | 使用壓力6.0 kgf/cm <sup>2</sup> |        |
| Model  | Jaw stroke<br>(Dia.) | Chucking Dia. |    | Max. clamping force |             | Max. pressure             |                           | Min. pressure | Air consumption             | Weight |
|        |                      | mm            | mm | kN(kgf)             | kN(kgf)     | MPa(kgf/cm <sup>2</sup> ) | MPa(kgf/cm <sup>2</sup> ) |               |                             |        |
| SD-304 | 5                    | 110           | 18 | 5.0 (510)           | 10.9 (1112) | 0.6 (6)                   | 1.3 (13)                  | 2             | 0.26                        | 8.1    |
| SD-306 | 7.2                  | 165           | 35 | 11.5 (1173)         | 25.0 (2550) | 0.6 (6)                   | 1.3 (13)                  | 2             | 0.58                        | 20.6   |
| SD-308 | 7.2                  | 210           | 28 | 21.7 (2213)         | 47.0 (4793) | 0.6 (6)                   | 1.3 (13)                  | 2             | 1.02                        | 34.1   |
| SD-310 | 10.8                 | 254           | 40 | 36.0(3680)          | 60.0(6118)  | 0.6 (6)                   | 1.0 (10)                  | 2             | 2.05                        | 55     |

### 外型尺寸 DIMENSIONS

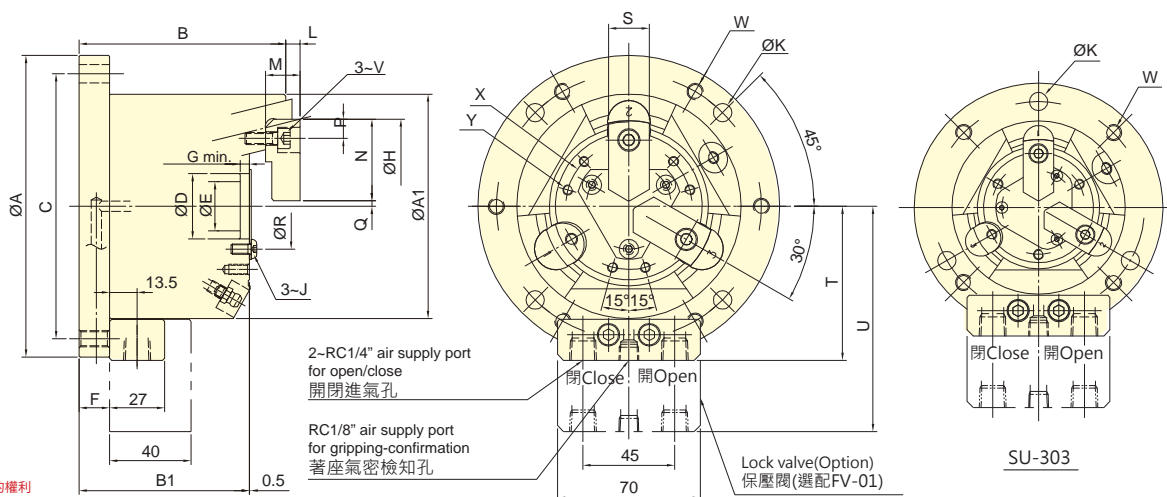
| Model  | A(h7) | A1  | B    | C   | D(H7/h7) | E  | F  | G  | H    | J  | J1     | K  | L max. | L min. |
|--------|-------|-----|------|-----|----------|----|----|----|------|----|--------|----|--------|--------|
| SD-304 | 148   | 110 | 93.5 | 130 | 35       | 2  | 15 | M3 | 22.5 | 10 | M5x0.8 | 9  | 30     | 23     |
| SD-306 | 206   | 165 | 116  | 188 | 52       | 7  | 18 | M4 | 35   | 20 | M6x1   | 11 | 45     | 35     |
| SD-308 | 248   | 210 | 122  | 230 | 65       | 10 | 18 | M5 | 45   | 25 | M8x1.2 | 11 | 56     | 46     |
| SD-310 | 300   | 254 | 151  | 280 | 75       | 12 | 20 | M6 | 55   | 30 | M8x1.2 | 13 | 65     | 50     |

| Model  | M    | N   | P  | Q max. | Q min. | R  | S  | T     | U     | V     | W        |
|--------|------|-----|----|--------|--------|----|----|-------|-------|-------|----------|
| SD-304 | 19.5 | 52  | 19 | 37     | 34.5   | 27 | 25 | 75.5  | 110.5 | 3~M10 | M8x1.25  |
| SD-306 | 31   | 70  | 27 | 57.8   | 54.2   | 42 | 35 | 104.5 | 139.5 | 3~M14 | M10x1.5  |
| SD-308 | 41   | 84  | 31 | 70.8   | 67.2   | 53 | 40 | 125.5 | 160.5 | 6~M12 | M10x1.5  |
| SD-310 | 46   | 100 | 38 | 85     | 79.6   | 62 | 50 | 147.5 | 182.5 | 6~M14 | M12x1.75 |



- 內建油壓缸，當使用氣壓做為動力源時，可選配保壓閥組件。
- 立置式夾頭可同時將工件做徑向夾持與軸向後拉，使工件不上浮並緊貼座金基準面。適合鑽床、銑床或切削中心機使用。
- 高剛性硬化處理的本體與圓柱後拉機構，並經過軸孔精搪，確保高夾持精度與耐用度，適合重切削場合。
- 可與立置夾頭座板組合進行加工。
- Build-in hydraulic cylinder; it can also work with lock valve and be driven by air pressure.
- Radial clamp and axial pull down at the same time, keep the workpiece attaching close to the base surface of the chuck.
- Almost no workpiece uplifting displacement.
- Suitable for drilling, milling and other machines.
- The body with heat treatment and the organization of cylinder pull-down and fine boring, which guarantee to the high clamping precision and durability, it's suitable for heavy duty machining.
- Can work together with multi-plate.
- 配備氣密檢知。
- Equipped with Airtight pressure detection function.



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

SU-304,306,308,310

### 技術規格 SPECIFICATIONS

| 型號            | 爪行程<br>(直徑)                | 夾持直徑                |      | 最大夾持力                          |              | 最大使用壓力                                     |                           | 最低使用壓力                               | 空氣消耗量<br>使用壓力6.0 kgf/cm <sup>2</sup>                 | 重量           |
|---------------|----------------------------|---------------------|------|--------------------------------|--------------|--|---------------------------|--------------------------------------|--|--------------|
|               |                            | 最大                  | 最小   | 氣壓                             | 油壓           | 氣壓   | 油壓                        |                                      |  |              |
|               |                            | Max.                | Min. | Pneumatic                      | Hydraulic    | Pneumatic                                  | Hydraulic                 |                                      |  |              |
| Model         | Jaw stroke<br>(Dia.)<br>mm | Chucking Dia.<br>mm | mm   | Max. clamping force<br>kN(kgf) | kN(kgf)      | Max. pressure<br>MPa(kgf/cm <sup>2</sup> ) | MPa(kgf/cm <sup>2</sup> ) | Min. pressure<br>kgf/cm <sup>2</sup> | Air consumption<br>lit (at 6.0 kgf/cm <sup>2</sup> ) | Weight<br>kg |
| <b>SU-303</b> | 2                          | 42                  | 4    | 5.2(530)                       | 12.8(1305)   | 0.6(6)                                     | 1.3(13)                   | 2                                    | 0.16   | 5.7          |
| <b>SU-304</b> | 3                          | 60                  | 5    | 6.7 (683)                      | 16.0 (1632)  | 0.6 (6)                                    | 1.3 (13)                  | 2                                    | 0.26   | 7.4          |
| <b>SU-306</b> | 5                          | 105                 | 31   | 18.5 (1886)                    | 40.0 (4079)  | 0.6 (6)                                    | 1.3 (13)                  | 2                                    | 0.58   | 18           |
| <b>SU-308</b> | 5                          | 132                 | 32   | 37.0 (3773)                    | 80.0 (8158)  | 0.6 (6)                                    | 1.3 (13)                  | 2                                    | 1.02   | 31.5         |
| <b>SU-310</b> | 5                          | 163                 | 44   | 46.2(4710)                     | 100.0(10100) | 0.6(6)                                     | 1.3(13)                   | 2                                    | 2.11   | 53           |

### 外型尺寸 DIMENSIONS

| Model         | A(h7) | A1  | B     | B1   | C   | D(H6) | E  | F  | G   | H(H6) | J  | K    | L max. | L min. |
|---------------|-------|-----|-------|------|-----|-------|----|----|-----|-------|----|------|--------|--------|
| <b>SU-303</b> | 122   | 85  | 80.5  | 68   | 104 | 28    | 22 | 12 | 3.5 | 66    | M3 | 3~9  | 5      | 1      |
| <b>SU-304</b> | 148   | 110 | 101.5 | 83.5 | 130 | 32    | 24 | 15 | 4.5 | 84    | M5 | 4~9  | 7      | 1      |
| <b>SU-306</b> | 206   | 168 | 136.5 | 104  | 188 | 35    | 25 | 18 | 6   | 129   | M5 | 4~11 | 15     | 5      |
| <b>SU-308</b> | 248   | 210 | 152   | 115  | 230 | 55    | 45 | 18 | 7   | 156   | M6 | 4~11 | 17     | 7      |
| <b>SU-310</b> | 300   | 254 | 181   | 131  | 280 | 65    | 53 | 20 | 7   | 187   | M8 | 4~13 | 9      | -1     |

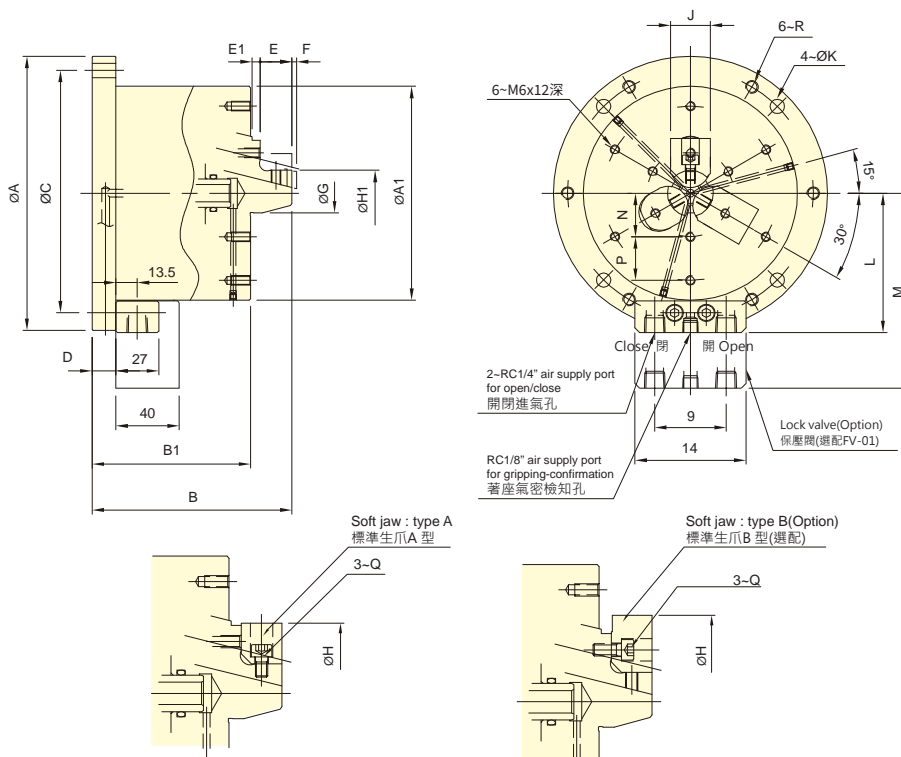
| Model         | M  | N  | P    | Q max. | Q min. | R  | S  | T     | U     | V   | W          | X (p.c.d) | Y       |
|---------------|----|----|------|--------|--------|----|----|-------|-------|-----|------------|-----------|---------|
| <b>SU-303</b> | 12 | 30 | 7    | 3.5    | 2.5    | 36 | 15 | 63    | 98    | M5  | 4~M8x1.25  | 46        | 3~M5x10 |
| <b>SU-304</b> | 17 | 40 | 9.5  | 2.75   | 1.25   | 42 | 20 | 75.5  | 110.5 | M6  | 6~M8x1.25  | 62        | 6~M5x10 |
| <b>SU-306</b> | 30 | 50 | 17   | 15.75  | 13.25  | 49 | 30 | 104.5 | 139.5 | M10 | 6~M10x1.5  | 72        | 6~M6x12 |
| <b>SU-308</b> | 34 | 63 | 20.5 | 16.25  | 13.75  | 71 | 35 | 125.5 | 160.5 | M12 | 6~M10x1.5  | 95        | 6~M6x12 |
| <b>SU-310</b> | 39 | 74 | 23   | 20.75  | 18.25  | 85 | 40 | 147.5 | 182.5 | M14 | 6~M12x1.75 | 115       | 6~M6x12 |

立置式夾頭



- 內建油壓缸，當使用氣壓做為動力源時，可選配保壓閥組件。
- 適用於內徑夾持。
- 高精度安定性，適合最後製程加工。
- 可與立置夾頭座板組合進行加工。
- Build-in hydraulic cylinder; it can also work with lock valve and be driven by air pressure.
- For internal gripping.
- With high precision and stability.
- Suitable for the precision large length size process.
- Suitable for end process.
- Can work together with multi-plate.
- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.

立置式夾頭


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

### 技術規格 SPECIFICATIONS

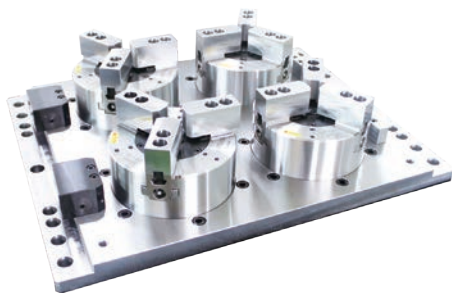
| 型號     | 爪行程<br>(直徑)          | 夾持直徑          |      | 最大夾持力               |             | 最大使用壓力                    |                           | 最低使用壓力              | 空氣消耗量<br>使用壓力6.0 kgf/cm <sup>2</sup> | 重量     |
|--------|----------------------|---------------|------|---------------------|-------------|---------------------------|---------------------------|---------------------|--------------------------------------|--------|
|        |                      | 最大            | 最小   | 氣壓                  | 油壓          | 氣壓                        | 油壓                        |                     |                                      |        |
| Model  | Jaw stroke<br>(Dia.) | Chucking Dia. |      | Max. clamping force |             | Max. pressure             |                           | Min. pressure       | Air consumption                      | Weight |
|        |                      | Max.          | Min. | Pneumatic           | Hydraulic   | Pneumatic                 | Hydraulic                 |                     |                                      |        |
|        | mm                   | mm            | mm   | kN(kgf)             | kN(kgf)     | MPa(kgf/cm <sup>2</sup> ) | MPa(kgf/cm <sup>2</sup> ) | kgf/cm <sup>2</sup> | lit (at 6.0 kgf/cm <sup>2</sup> )    | kg     |
| SE-305 | 3                    | 83            | 29   | 14.3 (1459)         | 41.0 (4181) | 0.7 (7)                   | 1.3 (13)                  | 2                   | 0.46                                 | 14.6   |
| SE-306 | 5                    | 110           | 44   | 20.0 (2040)         | 57.0 (5812) | 0.7 (7)                   | 1.3 (13)                  | 2                   | 0.58                                 | 20     |
| SE-308 | 5                    | 150           | 50   | 32.0 (3263)         | 78.0 (7954) | 0.7 (7)                   | 1.3 (13)                  | 2                   | 1.02                                 | 33     |

### 外型尺寸 DIMENSIONS

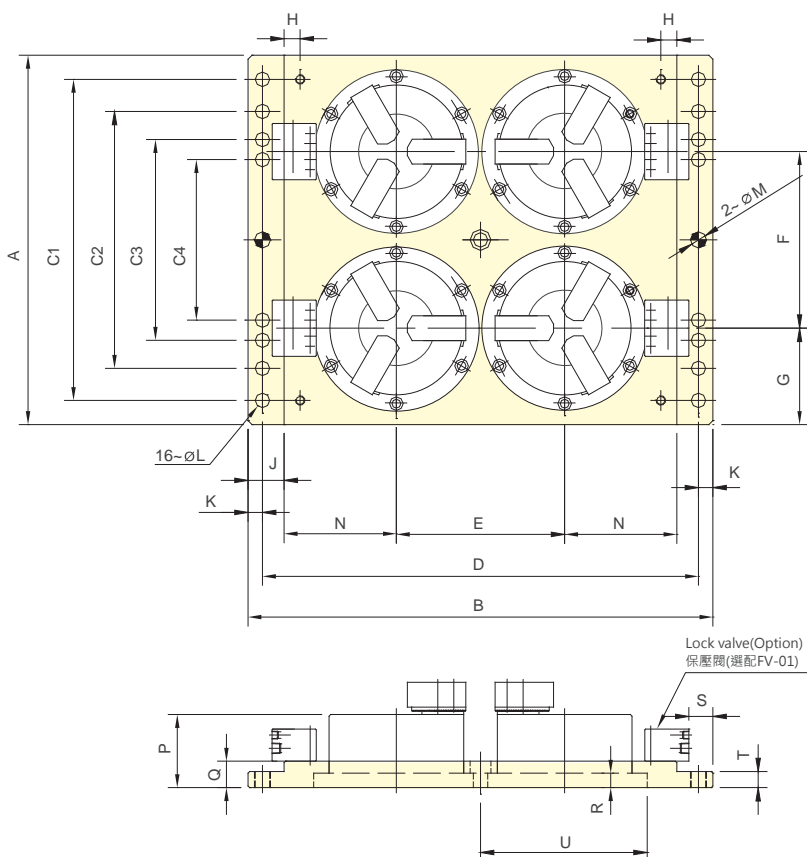
| Model  | A(h7) | A1  | B   | B1  | C   | D  | E  | E1 | F max. | F min. | G  | type A |        | type B |        |
|--------|-------|-----|-----|-----|-----|----|----|----|--------|--------|----|--------|--------|--------|--------|
|        |       |     |     |     |     |    |    |    |        |        |    | H max. | H min. | H max. | H min. |
| SE-305 | 173   | 135 | 126 | 100 | 155 | 15 | 20 | 5  | 3      | -3     | 25 | 68     | 50     | 83     | 67     |
| SE-306 | 206   | 168 | 140 | 108 | 188 | 18 | 23 | 7  | 5      | -5     | 40 | 90     | 70     | 110    | 89     |
| SE-308 | 248   | 210 | 164 | 119 | 230 | 18 | 30 | 9  | 5      | -5     | 49 | 110    | 90     | 150    | 108    |

| Model  | H1   |      | J  | K  | L     | M     | N    | P    | Q    | R       |
|--------|------|------|----|----|-------|-------|------|------|------|---------|
|        | max. | min. |    |    |       |       |      |      |      |         |
| SE-305 | 50   | 29   | 25 | 9  | 88    | 123   | 27.5 | 27.5 | 3-M6 | M8x1.25 |
| SE-306 | 70   | 44   | 31 | 11 | 104.5 | 139.5 | 38   | 29   | 3-M6 | M10x1.5 |
| SE-308 | 90   | 50   | 35 | 11 | 125.5 | 160.5 | 50   | 35   | 3-M8 | M10x1.5 |



- 可用於銑床或加工中心機上，同時加工多個工件。
- 可選擇安裝立式氣缸用保壓閥。
- 可訂製2、3、6工件數的盤面。
- Use for milling machine or machining center to achieve simultaneous processing of multiple workpieces.
- Stationary cylinder lock valve (optional) can be mounted.
- Plate for 2,3,6 stationary chucks is optional.



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

### 外型尺寸 DIMENSIONS

| Model            | A   | B   | C1  | C2  | C3  | C4  | D   | E   | F   | G   |
|------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>MP4-06206</b> | 460 | 580 | 400 | 320 | 250 | 200 | 544 | 210 | 220 | 120 |

| Model            | H  | J  | K  | L  | M  | N   | P  | Q  | R  | S  | T  | U   |
|------------------|----|----|----|----|----|-----|----|----|----|----|----|-----|
| <b>MP4-06206</b> | 20 | 45 | 18 | 17 | 20 | 140 | *B | 33 | 18 | 20 | 20 | 206 |

\*B 對照所裝配夾頭型號之寸法 B。  
The dimension \*B: Please refer to the dimension B of the chuck model assembled.

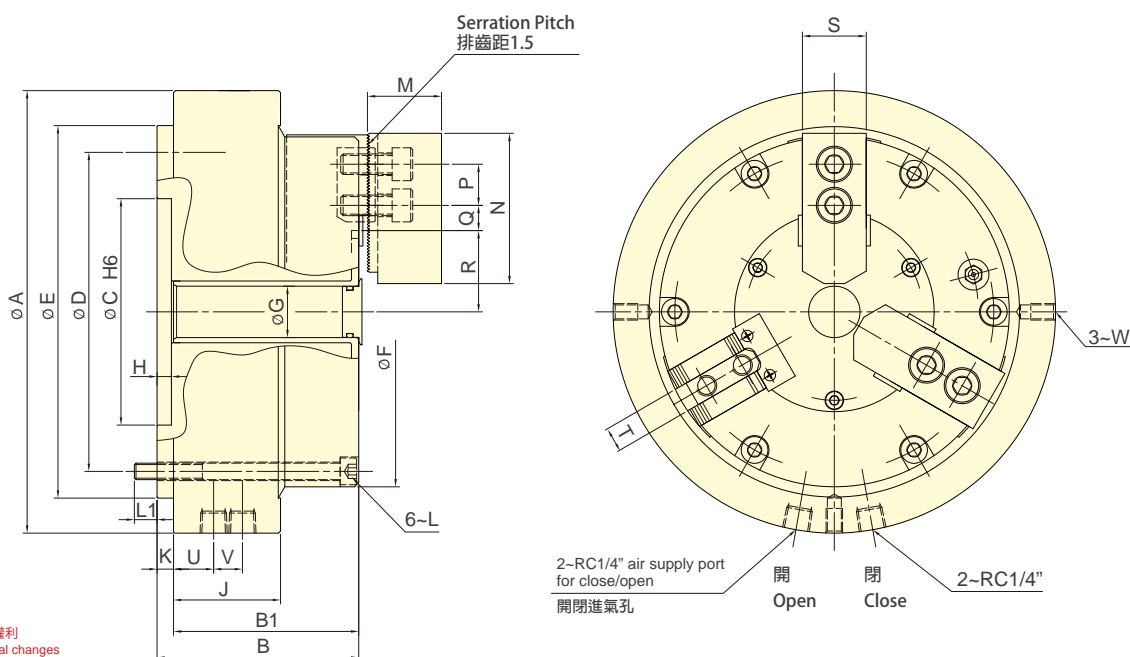


保留規格修改的權利  
Subject to technical changes

| 最大容許壓力                                  | 操作角度            | 持續口徑      |
|---|-----------------|-----------|
| Max. pressure MPa(kgf/cm <sup>2</sup> ) | Operating angle | Port size |
| 1.0 (10)                                | 90 °            | Rc1/4     |



- 內建氣缸之薄型迴盤夾頭，所佔空間小，適合輕切削場合，並可使用標準生爪或標準硬爪。
  - 適用於分度盤上進行分度加工。
  - 迷宮環防塵機構設計，加工中切屑不易進入夾頭內。
  - 摺動面均經硬化及精密研磨，並直接潤滑。
  - Rotary chuck with built-in pneumatic cylinder, compact design, suitable for light machining, compatible to standard soft jaw/hard jaw.
  - Can be installed on a rotary table for indexing machining.
  - Sealed against dust and cutting chips.
  - Matching surfaces of all parts hardened, ground and lubricated directly.
- 注意：由於固定配氣環與夾頭本體之間旋轉摩擦，第四軸分度盤的旋轉扭矩必須高於下表所示。
- Note: To overcome friction force between distributor ring and chuck body, the rotating torque of rotary table must be higher than the requirement shown in the table.



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

### 技術規格 SPECIFICATIONS

| 型號             | 爪行程<br>(直徑)          | 夾持直徑 |    | 最大夾持力   | 最大使用壓力                 | 最高轉速       | 旋轉扭矩                              | 空氣消耗量  | 重量     |
|----------------|----------------------|------|----|---|------------------------|------------|-----------------------------------|--|--------|
|                |                      | 最大   | 最小 | 氣壓(使用壓力6.0 kgf/cm <sup>2</sup> )                              |                        |            |                                   | (使用壓力6.0 kgf/cm <sup>2</sup> )                   |        |
| Model          | Jaw stroke<br>(Dia.) | mm   | mm | Max. clamping force<br>Pneumatic( at 6.0kgf/cm <sup>2</sup> ) | Max. pressure          | Max. speed | Max Rotation<br>resistance torque | Air consumption<br>(at 6.0 kgf/cm <sup>2</sup> ) | Weight |
|                | mm                   | mm   | mm | kN (kgf)  | (kgf/cm <sup>2</sup> ) | (r.p.m.)   | Nm                                | lit (kgf/cm <sup>2</sup> )                       | kg     |
| <b>RAP-306</b> | 5.5                  | 170  | 25 | 21.0 (2141.4)   | 7                      | 72         | 40                                | 3.1  | 16.2   |
| <b>RAP-308</b> | 6.8                  | 215  | 37 | 34.2 (3487.4)   | 7                      | 60         | 60                                | 3.1  | 30.6   |
| <b>RAP-310</b> | 7                    | 254  | 53 | 48.0 (4894.7)   | 7                      | 53         | 85                                | 4.2  | 42.4   |

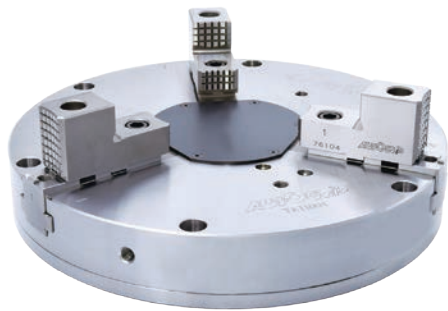
### 外型尺寸 DIMENSIONS

| Model          | A   | B   | B1  | C (H6) | D   | E   | F   | G  | H | J  | K  |
|----------------|-----|-----|-----|--------|-----|-----|-----|----|---|----|----|
| <b>RAP-306</b> | 215 | 98  | 90  | 110    | 155 | 181 | 170 | 25 | 7 | 52 | 8  |
| <b>RAP-308</b> | 260 | 113 | 104 | 110    | 200 | 226 | 215 | 32 | 8 | 52 | 9  |
| <b>RAP-310</b> | 300 | 117 | 52  | 140    | 235 | 261 | 254 | 54 | 8 | 52 | 10 |

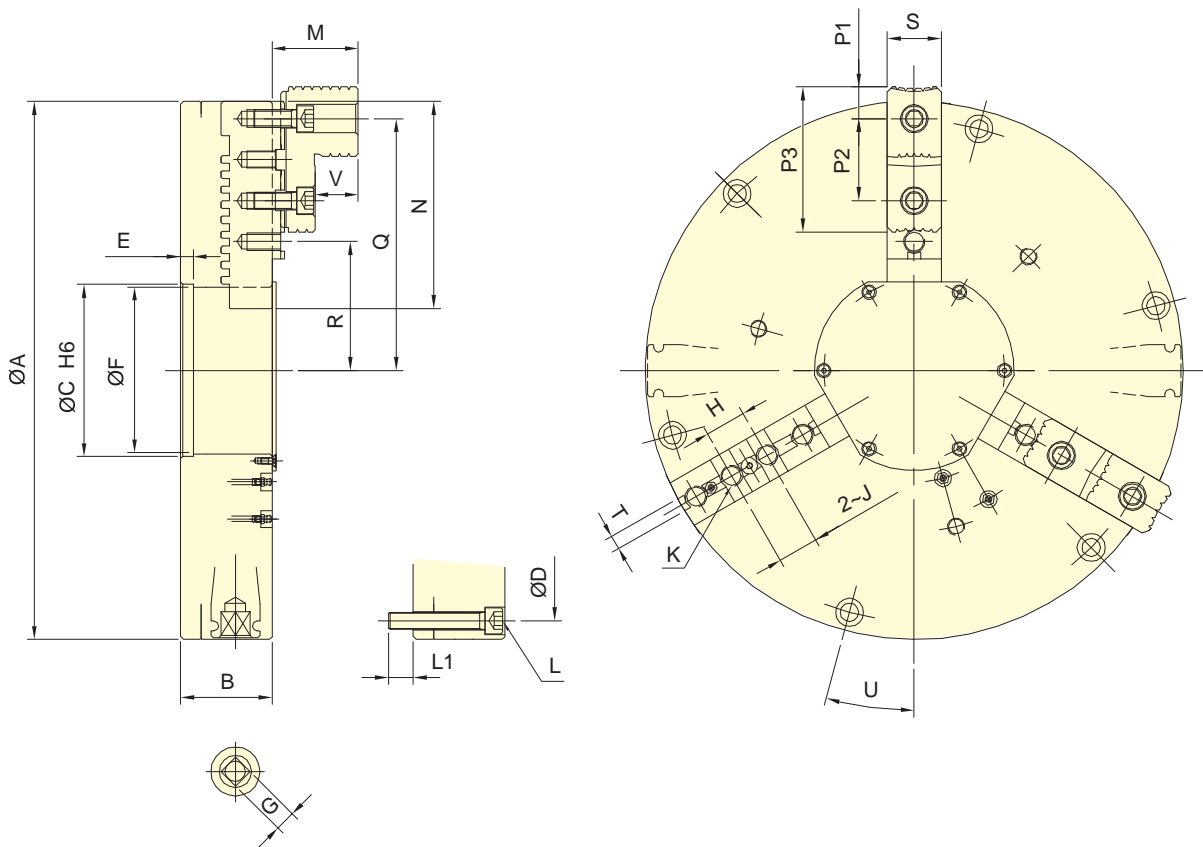
  

| Model          | L    | L1 | M  | N   | P  | Q max. | Q min. | R max. | R min. | S  | T  | U    | V  | W    |
|----------------|------|----|----|-----|----|--------|--------|--------|--------|----|----|------|----|------|
| <b>RAP-306</b> | 6-M8 | 11 | 36 | 73  | 20 | 10.75  | 6.25   | 47     | 44.25  | 31 | 12 | 19.5 | 14 | 3-M8 |
| <b>RAP-308</b> | 6-M8 | 16 | 37 | 95  | 25 | 13.25  | 8.75   | 57     | 53.6   | 35 | 14 | 19.5 | 14 | 3-M8 |
| <b>RAP-310</b> | 6-M8 | 14 | 42 | 110 | 30 | 23.25  | 12.75  | 64.5   | 61     | 40 | 16 | 19.5 | 14 | 3-M8 |





- 薄型與輕量化設計專用於五軸分度盤與銑削加工機，可充分增加作業空間。
- 中心孔防塵蓋設計，使切屑不易進入夾盤內部，以確保夾盤的使用壽命及精度。
- Thin and lightweight design and increase the z-axis machining range.
- With the center hole cover and dustproof design for the accuracy and service life of the chuck.
- For 5-axis indexing plates and milling machines.
- 本系列產品並不可直接安裝於臥式或立式車床，除非能提供足夠強度與剛性之背板給予支撐。
- 3MF series are not designed for the vertical or horizontal lathes, unless there is a rigid plate and providing adequate support rigidity and strength.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model   | 爪行程(直徑)<br>Jaw stroke (Dia.) | 夾持直徑 Chucking Dia. |               | 最大容許扭矩<br>Max. allowable torque | 最大夾持力<br>Max. clamping force | 最高迴轉數<br>Max. speed        | 重量<br>Weight |
|---------------|------------------------------|--------------------|---------------|---------------------------------|------------------------------|----------------------------|--------------|
|               | mm                           | 最大 Max.<br>mm      | 最小 Min.<br>mm | N · m (kgf · m)                 | kN (kgf)                     | min <sup>-1</sup> (r.p.m.) | kg           |
| <b>3MF-16</b> | 60                           | 350                | 95            | 175 (17.8)                      | 59 (6000)                    | 1450                       | 66.9         |
| <b>3MF-20</b> | 80                           | 500                | 142           | 170 (17.3)                      | 71.2 (7300)                  | 1150                       | 121          |

### 外型尺寸 DIMENSIONS

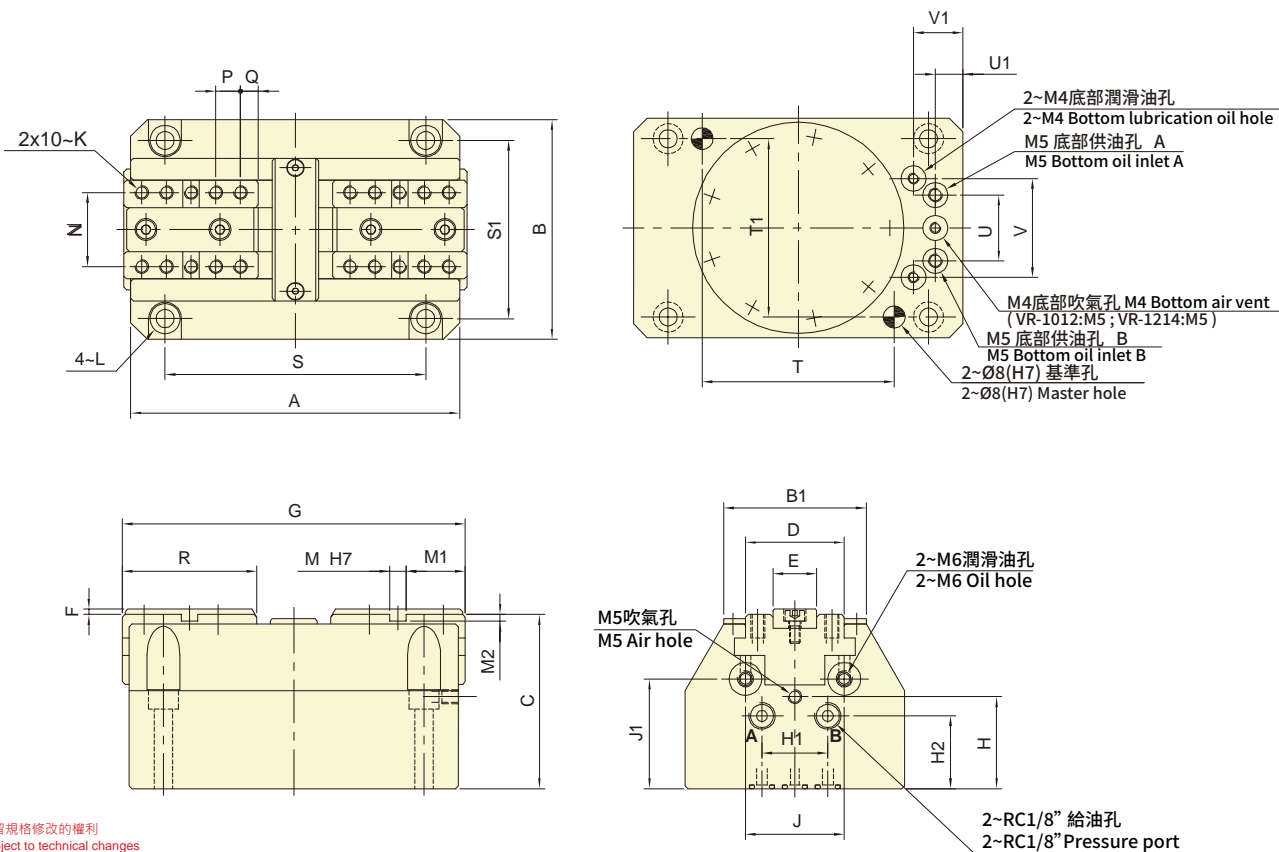
| Model         | A   | B  | C (H6) | D   | E  | F   | G    | H    | J (H7) | K     | L     | L1 | M  |
|---------------|-----|----|--------|-----|----|-----|------|------|--------|-------|-------|----|----|
| <b>3MF-16</b> | 400 | 80 | 140    | 375 | 10 | 135 | □ 14 | 27   | 19.03  | 4-M12 | 6-M12 | 23 | 60 |
| <b>3MF-20</b> | 500 | 85 | 170    | 465 | 12 | 160 | □ 19 | 38.1 | 19.03  | 4-M16 | 6-M16 | 23 | 80 |

| Model         | N     | P1    | P2   | P3    | Q max. | Q min. | R max. | R min. | S  | T (h8) | U   | V  |
|---------------|-------|-------|------|-------|--------|--------|--------|--------|----|--------|-----|----|
| <b>3MF-16</b> | 148.5 | 27.16 | 54   | 112.5 | 184.5  | 164    | 103    | 62     | 40 | 12.7   | 15° | 28 |
| <b>3MF-20</b> | 192.5 | 29.5  | 76.2 | 135   | 254    | 214    | 139.7  | 99.7   | 50 | 12.7   | 15° | 40 |



- 斜楔式驅動於加工過程中持續高夾持力。
- 外型薄、短型適用於銑床或加工中心機，可充分增加作業空間。
- 內建油壓缸，可使用氣壓或油壓為動力源。
- 夾具上就有側向氣源介面，安裝簡易隨插即用。
- Constantly high clamping forces are ensured while machining.
- Compact design, suitable for milling machines or machining centers.
- With built-in cylinder, it could be either pneumatically or hydraulically operated.
- Plug & play, easy to install.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model    | 爪行程(直徑)<br>Jaw stroke(Dia.) | 最大夾持直徑<br>Max.Chucking (Dia.) | 最大夾持力<br>Max. clamping force |                 | 最大使用壓力<br>Max. pressure   |                           | 重量<br>Weight |
|----------------|-----------------------------|-------------------------------|------------------------------|-----------------|---------------------------|---------------------------|--------------|
|                |                             |                               | 氣壓<br>Pneumatic              | 油壓<br>Hydraulic | 氣壓<br>Pneumatic           | 油壓<br>Hydraulic           |              |
|                | mm                          | mm                            | kN (kgf)                     | kN (kgf)        | MPa(kgf/cm <sup>2</sup> ) | MPa(kgf/cm <sup>2</sup> ) | kg           |
| <b>VR-808</b>  | 8                           | 100                           | 2.0(200)                     | 20.0(2040)      | 0.9(9)                    | 7(70)                     | 3.55         |
| <b>VR-1012</b> | 12                          | 120                           | 4.4(448)                     | 30.7(3130)      | 0.9(9)                    | 4(40)                     | 7            |
| <b>VR-1214</b> | 14                          | 160                           | 8.6(876)                     | 60.6(6180)      | 0.9(9)                    | 4(40)                     | 12           |

### 外型尺寸 DIMENSIONS

| Model          | A   | B   | B1 | C    | D  | E(h6) | F   | Gmax | Gmin | H    | H1 | H2   | J  | J1 | K       |
|----------------|-----|-----|----|------|----|-------|-----|------|------|------|----|------|----|----|---------|
| <b>VR-808</b>  | 120 | 80  | 52 | 63.5 | 36 | 16    | 2   | 125  | 117  | 33.5 | 24 | 26.5 | 36 | 40 | M5x0.8  |
| <b>VR-1012</b> | 150 | 100 | 64 | 76   | 45 | 20    | 2   | 158  | 146  | 39   | 30 | 32   | 46 | 48 | M6x1    |
| <b>VR-1214</b> | 188 | 125 | 82 | 82.5 | 60 | 24    | 2.5 | 196  | 182  | 41.5 | 44 | 34.5 | 57 | 51 | M8x1.25 |

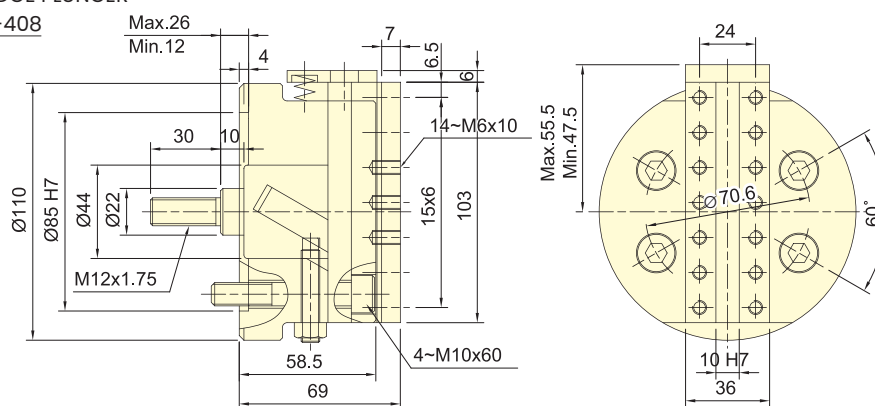
  

| Model          | L  | M(H7) | M1   | M2  | N  | P  | Q   | R  | S   | S1  | T   | T1  | U  | U1 | V  | V1 |
|----------------|----|-------|------|-----|----|----|-----|----|-----|-----|-----|-----|----|----|----|----|
| <b>VR-808</b>  | M6 | 6     | 21.5 | 2.5 | 27 | 9  | 6.5 | 49 | 95  | 65  | 70  | 65  | 24 | 10 | 36 | 18 |
| <b>VR-1012</b> | M8 | 8     | 27   | 2.5 | 32 | 12 | 8   | 63 | 120 | 80  | 90  | 80  | 30 | 12 | 46 | 20 |
| <b>VR-1214</b> | M8 | 8     | 30   | 3   | 43 | 12 | 10  | 80 | 158 | 100 | 128 | 100 | 44 | 16 | 57 | 25 |



- 進給機構是以單斜楔式的傳動方式為之，進給速度穩定，進給速度與行程的調整非常容易。
- 摺動面均經過硬化及精密研磨，剛性與耐久性非常良好。
- 定位精度:±0.03mm。
- Feed mechanism is Wedge Plunger, with steady feed speed. Simple adjustment for feed speed and stroke.
- Matching surfaces of all parts hardened, grinding and lubricated directly. With rigidity and durability.
- Stopper accuracy: ±0.03mm.
- 與行控型迴轉油壓缸搭配使用。
- 單斜楔式展刀頭可搭配伺服馬達及滾珠螺桿機構做精密展刀加工。
- Suitable for using with RS type cylinder.
- For precision processes, Wedge Plunger type facing heads are suitable for using with electro servo and ball screw mechanism.

單斜楔式傳動  
WEDGE PLUNGER  
FA-408

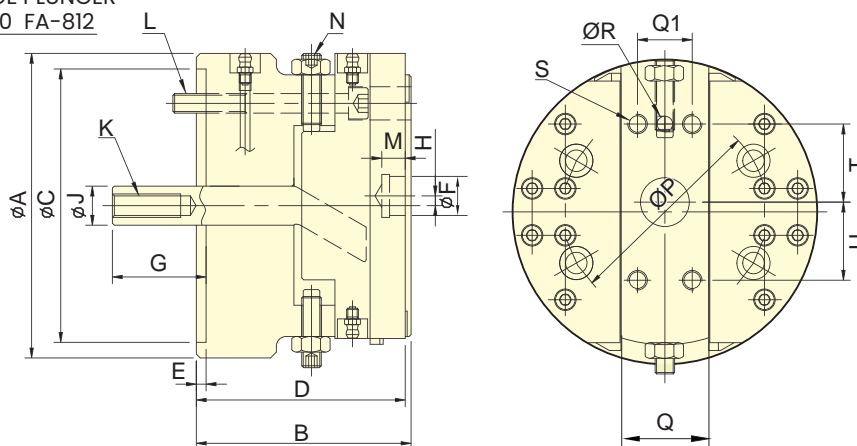


保留規格修改的權利  
Subject to technical changes

### 技術規格 SPECIFICATIONS

| 型號     | 楔心行程           | 滑座行程          | 最高迴轉數                      | 容許最大入力         | 重量     | 適用迴轉缸             | 最大使用壓力                    |
|--------|----------------|---------------|----------------------------|----------------|--------|-------------------|---------------------------|
| Model  | Plunger stroke | Slider stroke | Max. speed                 | Max. D.B. PULL | Weight | Matching cylinder | Max. pressure             |
|        | mm             | mm            | min <sup>-1</sup> (r.p.m.) | kN(kgf)        | kg     |                   | MPa(kgf/cm <sup>2</sup> ) |
| FA-408 | 14             | 8             | 1600                       | 2.8 (280)      | 4.2    | RS-6520N          | 1.0(10)                   |

單斜楔式傳動  
WEDGE PLUNGER  
FA-610 FA-812



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

### 技術規格 SPECIFICATIONS

| 型號     | 楔心行程           | 滑座行程          | 最高迴轉數                      | 容許最大入力         | 重量     | 適用迴轉缸             | 最大使用壓力                    |
|--------|----------------|---------------|----------------------------|----------------|--------|-------------------|---------------------------|
| Model  | Plunger stroke | Slider stroke | Max. speed                 | Max. D.B. PULL | Weight | Matching cylinder | Max. pressure             |
|        | mm             | mm            | min <sup>-1</sup> (r.p.m.) | kN(kgf)        | kg     |                   | MPa(kgf/cm <sup>2</sup> ) |
| FA-610 | 18             | 10            | 1200                       | 2.8 (280)      | 14.5   | RS-6520N          | 1.0(10)                   |
| FA-812 | 21             | 12            | 800                        | 4.4 (450)      | 28.5   | RS-6530N          | 1.6(16)                   |

### 外型尺寸 DIMENSIONS

| Model  | A   | B   | C (H7) | D   | E | F (H7) | G max. | G min. | H  | J  | K        | L         | M  | N        | P     | Q  | Q1 | R (H8) | S        | T  | U  |
|--------|-----|-----|--------|-----|---|--------|--------|--------|----|----|----------|-----------|----|----------|-------|----|----|--------|----------|----|----|
| FA-610 | 156 | 110 | 140    | 107 | 5 | 20     | 66     | 48     | ±5 | 20 | M12x1.75 | 4-M10x90  | 12 | 2-M10x45 | 104.8 | 45 | 28 | 8      | 4-M10x16 | 40 | 40 |
| FA-812 | 198 | 130 | 170    | 127 | 5 | 25     | 84     | 63     | ±6 | 25 | M16x2.0  | 4-M12x105 | 12 | 2-M12x60 | 133.4 | 54 | 32 | 10     | 4-M10x16 | 50 | 50 |

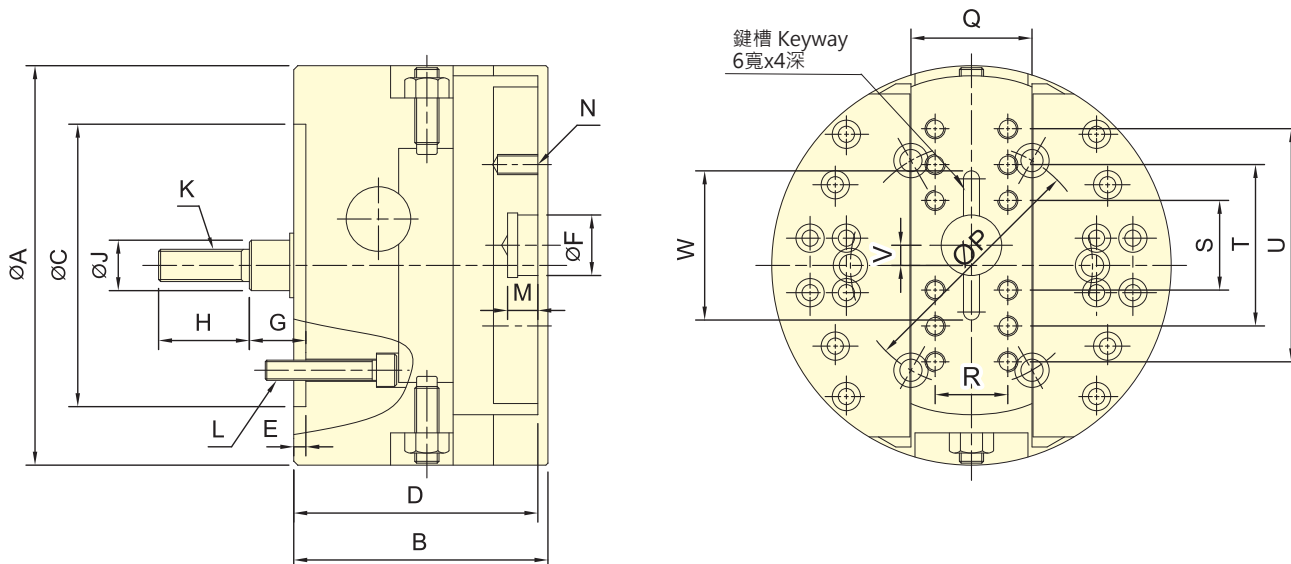
展刀搪溝頭



- 進給機構是以齒條與齒輪傳動方式為之，進給速度穩定，進給速度與行程的調整非常容易。
- 摺動面均經過硬化及精密研磨，剛性與耐久性非常良好。
- 定位精度:±0.03mm，需搭配定位螺栓。
- Feed mechanism is transmitted by Rack and Pinion with steady feed speed. Simple adjustment for feed speed and stroke.
- Matching surfaces of all parts hardened, grinding and lubricated directly. With rigidity and durability.
- Stopper accuracy: ±0.03mm, work with stoper screw.
- 與行控型迴轉油壓缸搭配使用。
- Suitable for using with RS type cylinder.

### 齒條與齒輪傳動 RACK AND PINION

FA-615 FA-830 FA-1570



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

### 技術規格 SPECIFICATIONS

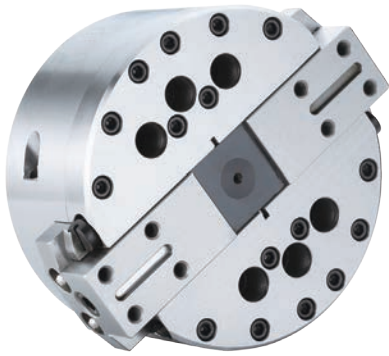
| 型號      | 楔心行程           | 滑座行程          | 最高迴轉數                      | 容許最大入力         | 重量     | 適用迴轉缸             | 最大使用壓力                    |
|---------|----------------|---------------|----------------------------|----------------|--------|-------------------|---------------------------|
| Model   | Plunger stroke | Slider stroke | Max. speed                 | Max. D.B. PULL | Weight | Matching cylinder | Max. pressure             |
|         | mm             | mm            | min <sup>-1</sup> (r.p.m.) | kN(kgf)        | kg     |                   | MPa(kgf/cm <sup>2</sup> ) |
| FA-615  | 15             | 15            | 1200                       | 3.3 (340)      | 11.9   | RS-6520N          | 1.2(12)                   |
| FA-830  | 30             | 30            | 800                        | 5.0 (510)      | 23.9   | RS-6530N          | 1.8(18)                   |
| FA-1570 | 70             | 70            | 500                        | 18.2 (1855)    | 167    | RS-1080N          | 2.6(26)                   |

### 外型尺寸 DIMENSIONS

| Model   | A   | B   | C (H7) | D   | E | F (H7) | G max. | G min. | H  | J  | K        |
|---------|-----|-----|--------|-----|---|--------|--------|--------|----|----|----------|
| FA-615  | 150 | 107 | 110    | 102 | 5 | 25     | 43     | 28     | 35 | 20 | M12x1.75 |
| FA-830  | 198 | 126 | 140    | 121 | 6 | 30     | 55     | 25     | 45 | 25 | M16x2    |
| FA-1570 | 400 | 200 | 300    | 192 | 6 | 60     | 110    | 40     | 75 | 50 | M30x3.5  |

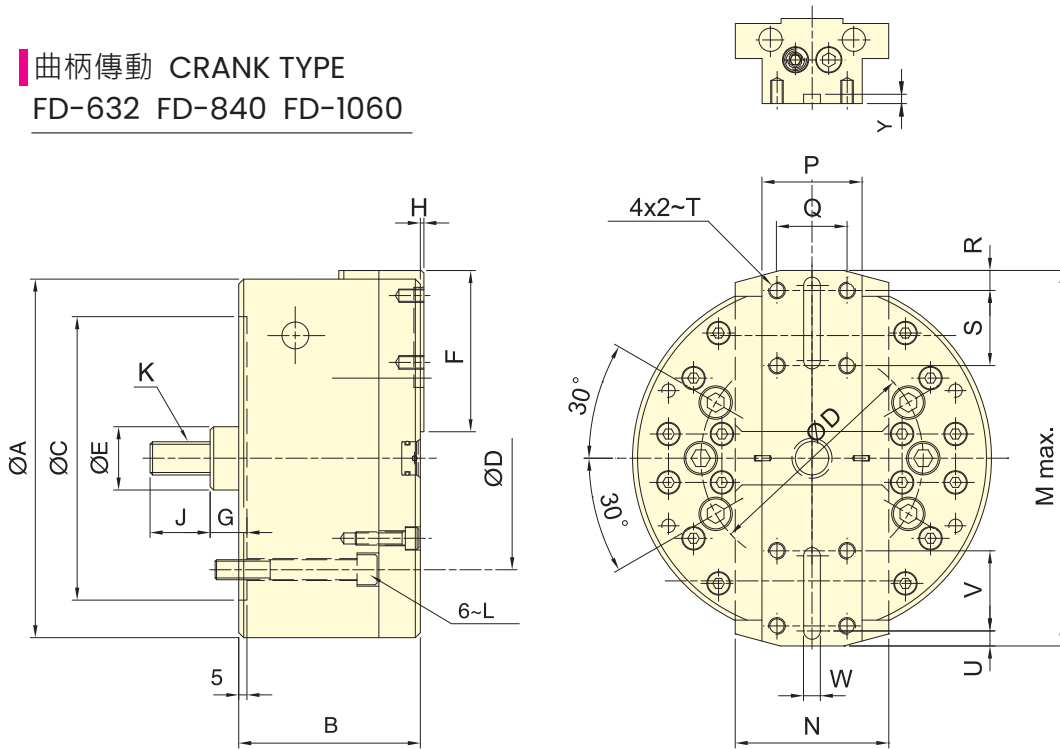
| Model   | L        | M  | N         | P    | Q   | R  | S   | T   | U   | V     | W  |
|---------|----------|----|-----------|------|-----|----|-----|-----|-----|-------|----|
| FA-615  | 3-M10x40 | 12 | 8-M8x16   | 82.6 | 50  | 32 | 32  | 68  | -   | ±7.5  | 56 |
| FA-830  | 6-M10x55 | 15 | 12-M10x20 | 120  | 60  | 36 | 40  | 80  | 120 | ±15   | 66 |
| FA-1570 | 6-M20x90 | 15 | 8-M16x20  | 235  | 120 | 80 | 130 | 260 | -   | ±17.5 | -  |



- 進給機構是以曲柄傳動方式為之，進給速度穩定，進給速度與行程的調整非常容易。
- 摺動面均經過硬化及精密研磨，剛性與耐久性非常良好。
- 定位精度： $\pm 0.03\text{mm}$ ，需搭配定位螺栓。
- Feed mechanism is transmitted by Crank with steady feed speed. Simple adjustment for feed speed and stroke.
- Matching surfaces of all parts hardened, grinding and lubricated directly. With rigidity and durability.
- Stopper accuracy:  $\pm 0.03\text{mm}$ , work with stopper screw.
- 與行控型迴轉油壓缸搭配使用。
- Suitable for using with RS type cylinder.

### 曲柄傳動 CRANK TYPE

FD-632 FD-840 FD-1060



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

#### 技術規格 SPECIFICATIONS

| 型號             | 楔心行程           | 滑座行程(直徑)            | 最高迴轉數                      | 容許最大入力         | 重量     | 適用迴轉缸             | 最大使用壓力                    |
|----------------|----------------|---------------------|----------------------------|----------------|--------|-------------------|---------------------------|
| Model          | Plunger stroke | Slider stroke(Dia.) | Max. speed                 | Max. D.B. PULL | Weight | Matching cylinder | Max. pressure             |
|                | mm             | mm                  | min <sup>-1</sup> (r.p.m.) | kN(kgf)        | kg     |                   | MPa(kgf/cm <sup>2</sup> ) |
| <b>FD-632</b>  | 20             | 32                  | 3200                       | 16.9 (1720)    | 13.6   | RS-1030N          | 2.4(24)                   |
| <b>FD-840</b>  | 25             | 40                  | 2500                       | 20.6 (2100)    | 30.0   | RS-1030N          | 3.0(30)                   |
| <b>FD-1060</b> | 35             | 60                  | 1800                       | 20.6 (2100)    | 41.5   | RS-1040N          | 3.0(30)                   |

#### 外型尺寸 DIMENSIONS

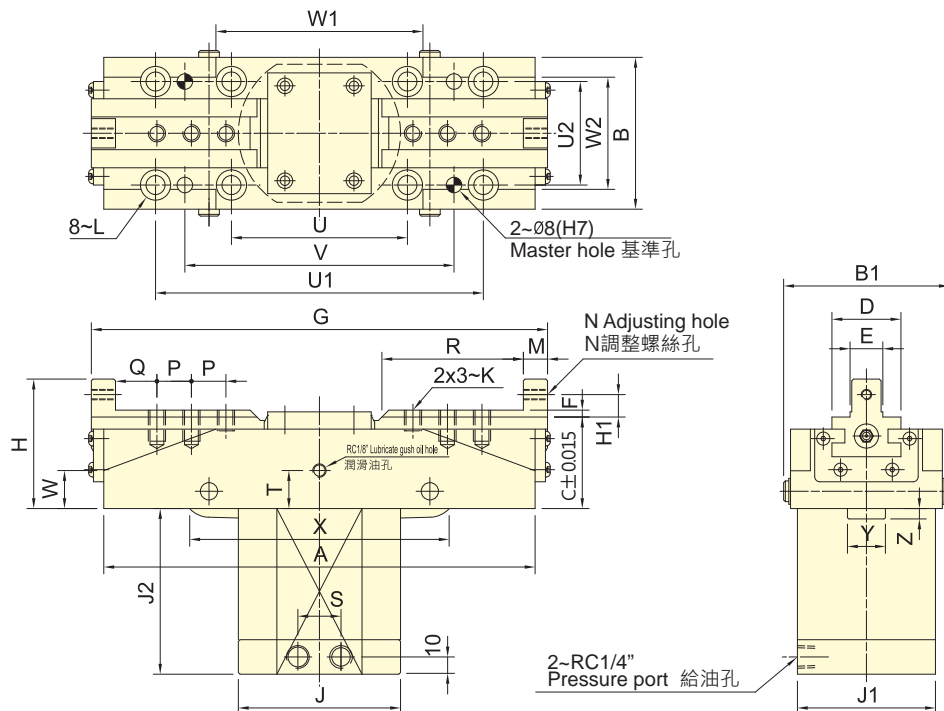
| Model          | A   | B   | C(H7) | D     | E  | F     | G max. | G Min. | H | J  | K       |
|----------------|-----|-----|-------|-------|----|-------|--------|--------|---|----|---------|
| <b>FD-632</b>  | 168 | 93  | 140   | 104.8 | 32 | 76    | 31     | 11     | 2 | 36 | M16x2.0 |
| <b>FD-840</b>  | 215 | 109 | 170   | 133.4 | 38 | 96.5  | 32.5   | 7.5    | 2 | 36 | M20x2.5 |
| <b>FD-1060</b> | 254 | 123 | 220   | 171.4 | 38 | 110.5 | 32.5   | -2.5   | 4 | 36 | M20x2.5 |

| Model          | L         | M   | N  | P  | Q  | R  | S  | T      | U  | V  | W(H8) | Y |
|----------------|-----------|-----|----|----|----|----|----|--------|----|----|-------|---|
| <b>FD-632</b>  | 6~M10x75  | 188 | 70 | 40 | 25 | 10 | 32 | M8x15  | 10 | 32 | 6     | 4 |
| <b>FD-840</b>  | 6~M12x85  | 238 | 92 | 60 | 42 | 12 | 45 | M10x15 | 12 | 45 | 10    | 6 |
| <b>FD-1060</b> | 6~M16x125 | 286 | 90 | 65 | 46 | 15 | 50 | M10x15 | 12 | 50 | 10    | 6 |



- 曲柄型二爪同步夾具，爪行程長。
- 摺動面均經硬化及精密研磨，並直接潤滑。
- 高夾持精度，防塵效果特佳。
- CRANK type 2-jaw synchronous clamp with long jaw stroke.
- Matching surfaces of all parts hardened, ground and lubricated directly.
- High rigidity and high clamping accuracy.



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

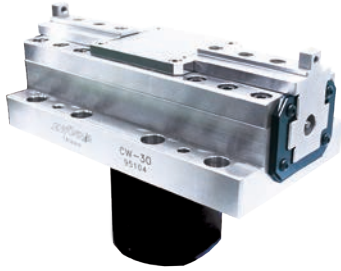
### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. Piston area           |                                  | 爪行程(直徑)<br>Jaw stroke(Dia.) |  | 最大夾持能力<br>Clamping capacity | 最大夾持力<br>Max. clamping force | 最大使用壓力<br>Max. pressure   | 重量<br>Weight |
|-------------|---------------------------------|----------------------------------|-----------------------------|--|-----------------------------|------------------------------|---------------------------|--------------|
|             | 押側<br>Extend<br>cm <sup>2</sup> | 拉側<br>Retract<br>cm <sup>2</sup> | mm                          |  | mm                          | kN (kgf)                     | MPa(kgf/cm <sup>2</sup> ) | kg           |
| CP-20       | 28.27                           | 25.13                            | 20                          |  | 150                         | 14.4(1465)                   | 3.5(35)                   | 9.5          |
| CP-30A      | 28.27                           | 25.13                            | 30                          |  | 180                         | 14.4(1465)                   | 3.5(35)                   | 11           |
| CP-30       | 28.27                           | 25.13                            | 30                          |  | 210                         | 14.4(1465)                   | 3.5(35)                   | 12           |
| CP-40       | 28.27                           | 25.13                            | 40                          |  | 200                         | 14.4(1465)                   | 3.5(35)                   | 12           |
| CP-50       | 38.48                           | 33.57                            | 50                          |  | 215                         | 17.7(1812)                   | 3.5(35)                   | 18.5         |
| CP-70       | 50.26                           | 45.35                            | 70                          |  | 235                         | 23.9(2434)                   | 3.5(35)                   | 30           |

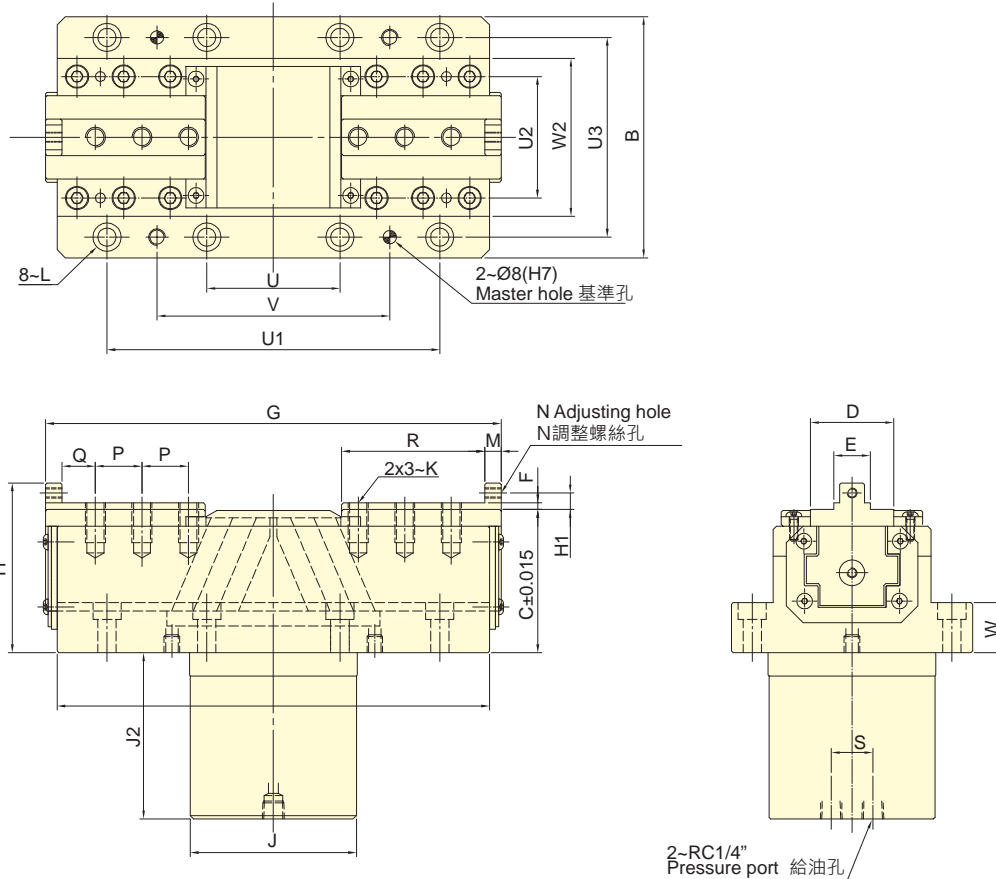
### 外型尺寸 DIMENSIONS

| Model  | A   | B   | B1  | C  | D  | E(h6) | F | G max. | Gmin | H   | H1 | J   | J1  | J2   | K        | L   | M  |
|--------|-----|-----|-----|----|----|-------|---|--------|------|-----|----|-----|-----|------|----------|-----|----|
| CP-20  | 215 | 88  | 96  | 53 | 40 | 18    | 4 | 249    | 229  | 75  | 13 | 94  | 76  | 83.5 | M10x1.5  | M10 | 12 |
| CP-30A | 250 | 88  | 96  | 53 | 40 | 18    | 4 | 295    | 265  | 75  | 13 | 94  | 76  | 96   | M10x1.5  | M10 | 14 |
| CP-30  | 280 | 88  | 96  | 53 | 40 | 22    | 4 | 327    | 297  | 75  | 13 | 94  | 76  | 96   | M12x1.75 | M10 | 14 |
| CP-40  | 270 | 88  | 96  | 53 | 40 | 22    | 4 | 331    | 291  | 75  | 13 | 94  | 76  | 110  | M12x1.75 | M10 | 14 |
| CP-50  | 300 | 110 | 115 | 65 | 50 | 28    | 5 | 369    | 319  | 90  | 15 | 105 | 105 | 120  | M12x1.75 | M10 | 16 |
| CP-70  | 346 | 120 | 126 | 89 | 55 | 32    | 5 | 430    | 360  | 114 | 15 | 115 | 115 | 146  | M14x2    | M12 | 16 |

| Model  | N       | P  | Q  | R   | S  | T  | U   | U1  | U2 | V   | W  | W1  | W2 | X   | Y  | Z    |
|--------|---------|----|----|-----|----|----|-----|-----|----|-----|----|-----|----|-----|----|------|
| CP-20  | M6x1    | 18 | 20 | 66  | 24 | 22 | 102 | 190 | 60 | 156 | 32 | 110 | 65 | 150 | 22 | 4    |
| CP-30A | M6x1    | 20 | 24 | 96  | 24 | 22 | 102 | 190 | 60 | 156 | 20 | 120 | 65 | 156 | 22 | 6    |
| CP-30  | M6x1    | 20 | 24 | 98  | 24 | 22 | 102 | 190 | 60 | 156 | 23 | 110 | 65 | 156 | 22 | 6    |
| CP-40  | M6x1    | 20 | 24 | 98  | 24 | 22 | 102 | 190 | 60 | 156 | 25 | 110 | 65 | 150 | 22 | 10.5 |
| CP-50  | M8x1.25 | 21 | 28 | 102 | 30 | 32 | 105 | 230 | 85 | 195 | 29 | 140 | 80 | 180 | 30 | 10   |
| CP-70  | M8x1.25 | 23 | 28 | 112 | 30 | 52 | 120 | 275 | 95 | 240 | 42 | 155 | 90 | 210 | 34 | 23.5 |



- 斜楔式驅動型同步夾具，爪行程長，在加工過程中，持續高夾持力。
- 摺動面均經硬化及精密研磨，並直接潤滑
- 高夾持精度，防塵效果佳。
- This wedge-driven synchronous clamp features a long jaw stroke, ensuring continuous high clamping force throughout the machining process.
- The sliding surfaces are hardened and precision ground, with direct lubrication to enhance performance.
- High clamping accuracy and excellent dust protection.



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

### 技術規格 SPECIFICATIONS

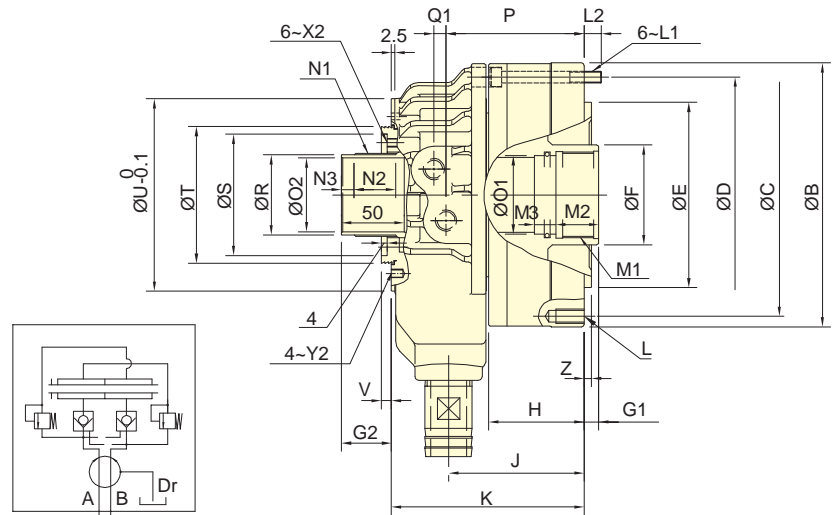
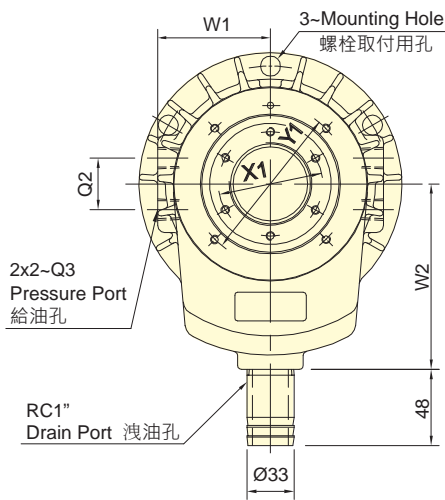
| 型號           | 活塞面積 Eff. Piston area |                 | 爪行程(直徑)          | 最大夾持能力            | 最大夾持力               | 最大使用壓力                    | 重量     |
|--------------|-----------------------|-----------------|------------------|-------------------|---------------------|---------------------------|--------|
| Model        | 伸側 Extend             | 拉側 Retract      | Jaw stroke(Dia.) | Clamping capacity | Max. clamping force | Max. pressure             | Weight |
|              | cm <sup>2</sup>       | cm <sup>2</sup> | mm               | mm                | kN (kgf)            | MPa(kgf/cm <sup>2</sup> ) | kg     |
| <b>CW-30</b> | 31.10                 | 24.10           | 30               | 150               | 34.3(3500)          | 7.0(70)                   | 32     |

### 外型尺寸 DIMENSIONS

| Model        | A    | B   | C  | D  | E(h6) | F  | Gmax | Gmin | H   | H1  | J   | J2  | K        | L   | M  |
|--------------|------|-----|----|----|-------|----|------|------|-----|-----|-----|-----|----------|-----|----|
| <b>CW-30</b> | 260  | 145 | 86 | 50 | 22    | 4  | 304  | 274  | 102 | 10  | 100 | 100 | M12x1.75 | M10 | 10 |
| Model        | N    | P   | Q  | R  | S     | U  | U1   | U2   | U3  | V   | W   | W2  |          |     |    |
| <b>CW-30</b> | M6x1 | 28  | 20 | 86 | 25    | 80 | 200  | 120  | 73  | 140 | 30  | 30  |          |     |    |



- 超短·大孔徑型迴轉油壓缸·全長僅為從來型的2/3。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- 安裝時可由後端鎖固之。
- Super short form, light weight large Through-Hole, just as 2/3 of typical model length.
- Built-in safety check valves and pressure relief valves.
- Can screw it from the rear end of the cylinder when mounting.
- 可附加線性定位系統機構。(選購品)
- Linear sensor can be attached.(optional)
- 專利產品字號 Patent numbers :  
台灣 : PAT.NO.M491534(Taiwan)  
大陸 : PAT.NO.ZL201420584274.5(China)



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積Eff. piston area          |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight | 總洩漏量<br>Total oil leakage |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|---------------------------|
|             | 伸側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |                           |
| TK-A528     | 73.0                          | 69.7                           | 12                  | 8000                | 4.5 (45)                | 0.012                  | 6.2          | 3.0                       |
| TK-A533     | 73.0                          | 69.7                           | 12                  | 8000                | 4.5 (45)                | 0.012                  | 6.0          | 3.0                       |
| TK-C643     | 99.1                          | 88.0                           | 15                  | 7000                | 4.5 (45)                | 0.018                  | 7.5          | 3.0                       |
| TK-A646     | 105.0                         | 93.9                           | 15                  | 7000                | 4.5 (45)                | 0.018                  | 7.3          | 3.0                       |
| TK-B646     | 105.0                         | 93.9                           | 15                  | 7000                | 4.5 (45)                | 0.018                  | 8.6          | 3.0                       |
| TK-C646     | 99.1                          | 88.0                           | 15                  | 7000                | 4.5 (45)                | 0.018                  | 7.5          | 3.0                       |
| TK-B846     | 135.3                         | 125.0                          | 20                  | 6300                | 4.5 (45)                | 0.032                  | 12.4         | 3.9                       |
| TK-A853     | 135.3                         | 125.0                          | 20                  | 6300                | 4.5 (45)                | 0.032                  | 11.8         | 3.9                       |
| TK-B853     | 135.3                         | 125.0                          | 20                  | 6300                | 4.5(45)                 | 0.032                  | 11.7         | 3.9                       |
| TK-A1068    | 170.1                         | 155.3                          | 25                  | 5500                | 4.5 (45)                | 0.065                  | 19.2         | 4.2                       |
| TK-A1075    | 170.1                         | 155.3                          | 25                  | 5500                | 4.5(45)                 | 0.065                  | 18.8         | 4.2                       |
| TK-A1078    | 170.1                         | 155.3                          | 25                  | 5500                | 4.5 (45)                | 0.065                  | 17.4         | 4.2                       |

\* 集水盒及行程確認裝置請參閱零件頁面。\*Coolant Collector and Confirmation Device Please See Accessories pages.



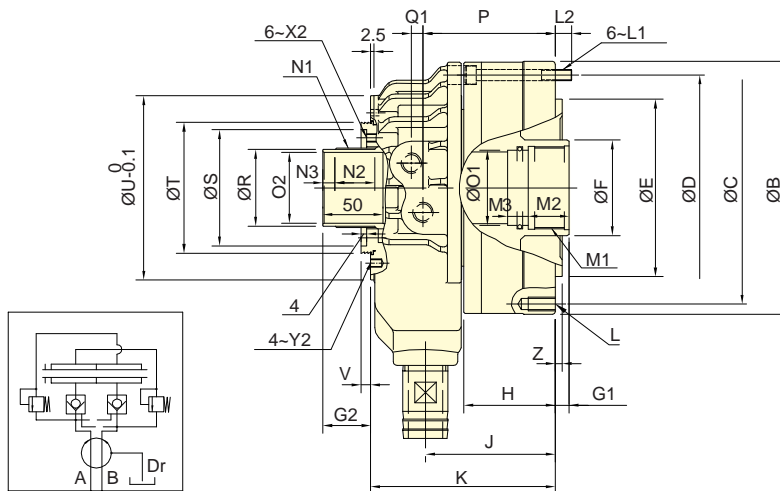
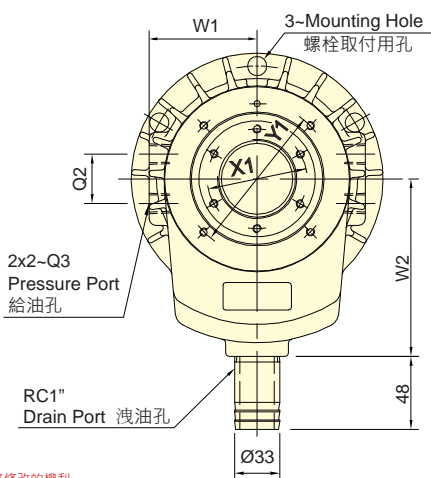
### 外型尺寸 DIMENSIONS

| Model    | A          | B   | C   | D   | E   | F  | G1   |      | G2   |      | H  | J    | K   | L         | L1     | L2 | M1      | M2 | M3 |
|----------|------------|-----|-----|-----|-----|----|------|------|------|------|----|------|-----|-----------|--------|----|---------|----|----|
|          | 內徑<br>I.D. |     |     |     | h7  |    | max. | min. | max. | min. |    |      |     |           |        |    |         |    |    |
| TK-A528  | 105        | 141 | 125 | 125 | 110 | 45 | 12   | 0    | 38   | 26   | 49 | 77.5 | 123 | 6~M8x20   | M8x55  | 14 | M38x1.5 | 25 | 13 |
| TK-A533  | 105        | 141 | 125 | 125 | 110 | 45 | 12   | 0    | 38   | 26   | 49 | 77.5 | 123 | 6~M10x20  | M8x55  | 14 | M38x1.5 | 25 | 13 |
| TK-C643  | 128        | 156 | 140 | 140 | 120 | 65 | 15   | 0    | 44   | 29   | 56 | 85   | 125 | 12~M10x20 | M8x60  | 12 | M50x2   | 25 | 13 |
| TK-A646  | 128        | 162 | 147 | 147 | 130 | 65 | 15   | 0    | 44   | 29   | 56 | 85   | 125 | 12~M10x20 | M8x60  | 12 | M55x2   | 25 | 13 |
| TK-B646  | 128        | 162 | 130 | 147 | 100 | 65 | 15   | 0    | 44   | 29   | 66 | 95   | 135 | 12~M10x20 | M8x70  | 12 | M55x2   | 30 | 15 |
| TK-C646  | 125        | 156 | 140 | 140 | 120 | 65 | 15   | 0    | 44   | 29   | 56 | 85   | 125 | 12~M10x20 | M8x60  | 12 | M55x2   | 25 | 13 |
| TK-B846  | 145        | 185 | 170 | 165 | 130 | 70 | 20   | 0    | 48   | 28   | 66 | 95   | 135 | 12~M10x20 | M8x70  | 12 | M55x2   | 30 | 15 |
| TK-A853  | 145        | 185 | 170 | 165 | 140 | 70 | 20   | 0    | 48   | 28   | 66 | 95   | 135 | 12~M10x20 | M8x70  | 12 | M60x2   | 30 | 15 |
| TK-B853  | 145        | 185 | 170 | 165 | 130 | 70 | 20   | 0    | 48   | 28   | 66 | 95   | 135 | 12~M10x20 | M8x70  | 12 | M60x2   | 30 | 15 |
| TK-A1068 | 170        | 212 | 190 | 190 | 160 | 95 | 25   | 0    | 50   | 25   | 74 | 108  | 158 | 12~M10x20 | M10x80 | 16 | M75x2   | 35 | 15 |
| TK-A1075 | 170        | 212 | 190 | 190 | 160 | 95 | 25   | 0    | 50   | 25   | 74 | 108  | 158 | 12~M10x20 | M10x80 | 16 | M85x2   | 35 | 15 |
| TK-A1078 | 170        | 212 | 190 | 190 | 160 | 95 | 25   | 0    | 50   | 25   | 74 | 108  | 158 | 12~M10x20 | M10x80 | 16 | M87x2   | 35 | 15 |

| Model    | N1      | N2 | N3 | O1 | O2 | P   | Q1  | Q2 | Q3    | R  | S   | T   | U   | V    | W1 | W2  | X1 | X2    | Y1  | Y2   | Z |
|----------|---------|----|----|----|----|-----|-----|----|-------|----|-----|-----|-----|------|----|-----|----|-------|-----|------|---|
|          |         |    |    | H8 | H8 |     |     |    |       | g7 | H7  |     |     |      |    |     |    |       |     |      |   |
| TK-A528  | M39x1.5 | 25 | 8  | 35 | 28 | 79  | 8.5 | 30 | RC1/4 | 37 | 62  | 70  | 98  | 6    | 62 | 110 | 49 | M6x6  | 83  | M5x6 | 5 |
| TK-A533  | M39x1.5 | 25 | 8  | 35 | 33 | 79  | 8.5 | 30 | RC1/4 | 37 | 62  | 70  | 98  | 6    | 62 | 110 | 49 | M6x6  | 83  | M5x6 | 5 |
| TK-C643  | M52x1.5 | 29 | 9  | 45 | 43 | 87  | 8.5 | 36 | RC3/8 | 50 | 76  | 85  | 116 | 9.5  | 74 | 120 | 64 | M6x10 | 98  | M5x6 | 5 |
| TK-A646  | M52x1.5 | 29 | 9  | 50 | 46 | 87  | 8.5 | 36 | RC3/8 | 50 | 76  | 85  | 116 | 9.5  | 74 | 120 | 64 | M6x10 | 98  | M5x6 | 5 |
| TK-B646  | M52x1.5 | 29 | 9  | 50 | 46 | 97  | 8.5 | 36 | RC3/8 | 50 | 76  | 85  | 116 | 9.5  | 74 | 120 | 64 | M6x10 | 98  | M5x6 | 5 |
| TK-C646  | M52x1.5 | 29 | 9  | 50 | 46 | 87  | 8.5 | 36 | RC3/8 | 50 | 76  | 85  | 116 | 9.5  | 74 | 120 | 64 | M6x10 | 98  | M5x6 | 5 |
| TK-B846  | M58x1.5 | 30 | 8  | 50 | 46 | 97  | 8.5 | 36 | RC3/8 | 56 | 85  | 96  | 128 | 11.5 | 79 | 130 | 73 | M6x12 | 110 | M6x6 | 5 |
| TK-A853  | M58x1.5 | 30 | 8  | 55 | 53 | 97  | 8.5 | 36 | RC3/8 | 56 | 85  | 96  | 128 | 11.5 | 79 | 130 | 73 | M6x12 | 110 | M6x6 | 5 |
| TK-B853  | M58x1.5 | 30 | 8  | 55 | 53 | 97  | 8.5 | 36 | RC3/8 | 56 | 85  | 96  | 128 | 11.5 | 79 | 130 | 73 | M6x12 | 110 | M6x6 | 5 |
| TK-A1068 | M84x2   | 34 | 9  | 70 | 68 | 110 | 12  | 40 | RC1/2 | 81 | 108 | 121 | 164 | 10   | 98 | 160 | 98 | M6x12 | 155 | M6x8 | 5 |
| TK-A1075 | M84x2   | 34 | 9  | 80 | 75 | 110 | 12  | 40 | RC1/2 | 81 | 108 | 121 | 164 | 10   | 98 | 160 | 98 | M6x12 | 155 | M6x8 | 5 |
| TK-A1078 | M84x2   | 34 | 9  | 82 | 78 | 110 | 12  | 40 | RC1/2 | 81 | 108 | 121 | 164 | 10   | 98 | 160 | 98 | M6x12 | 155 | M6x8 | 5 |



- 超短・大孔徑型迴轉油壓缸・全長僅為從來型的2/3。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- 安裝時可由後端鎖固之。
- Super short form, light weight large Through-Hole, just as 2/3 of typical model length.
- Built-in safety check valves and pressure relief valves.
- Can screw it from the rear end of the cylinder when mounting.
- 可附加線性定位系統機構。(選購品)
- Linear sensor can be attached.(optional)
- 專利產品字號 Patent numbers :  
台灣: PAT.NO.M491534(Taiwan)  
大陸: PAT.NO.ZL201420584274.5(China)



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積Eff. piston area          |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight | 總洩漏量<br>Total oil leakage |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|---------------------------|
|             | 伸側(Extend)<br>cm <sup>2</sup> | 縮側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |                           |
| TK-A1287    | 234.0                         | 217.5                          | 30                  | 3800                | 4.0 (40)                | 0.092                  | 24.8         | 4.5                       |
| TK-A1291    | 234.0                         | 217.5                          | 30                  | 3800                | 4.0 (40)                | 0.092                  | 24.8         | 4.5                       |
| TK-A1511    | 336.4                         | 315.2                          | 30                  | 3000                | 3.5(35)                 | 0.38                   | 57.9         | 7.0                       |
| TK-A1512    | 336.4                         | 315.2                          | 30                  | 3000                | 3.5(35)                 | 0.38                   | 53.8         | 7.0                       |
| TK-A1512-35 | 336.4                         | 315.2                          | 35                  | 3000                | 3.5(35)                 | 0.38                   | 53.8         | 7.0                       |
| TK-2114     | 373.2                         | 336.1                          | 35                  | 2500                | 3.0 (30)                | 0.54                   | 58.2         | 8.0                       |

### 外型尺寸 DIMENSIONS

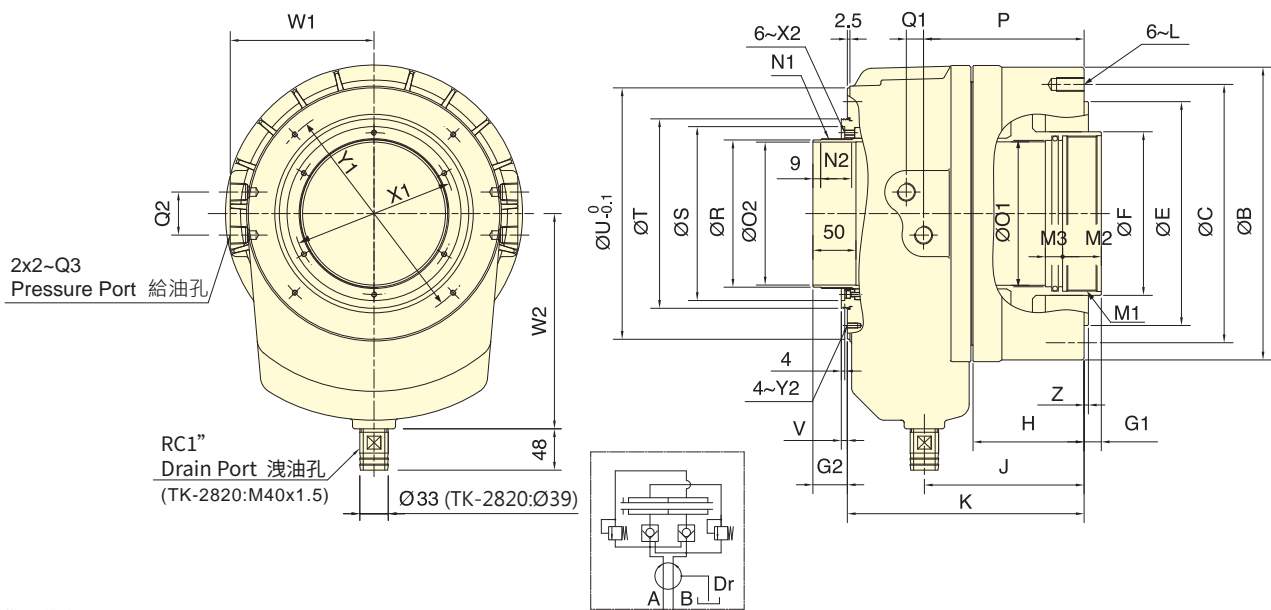
| Model       | A          |     | B   | C   | D   | E    |      | F    |      | G1   |      | G2    |           | H         | J       | K      | L      | L1 | L2     | M1     | M2 | M3 | N1 |
|-------------|------------|-----|-----|-----|-----|------|------|------|------|------|------|-------|-----------|-----------|---------|--------|--------|----|--------|--------|----|----|----|
|             | 內徑<br>I.D. | h7  |     |     |     | max. | min. | max. | min. | max. | min. |       |           |           |         |        |        |    |        |        |    |    |    |
| TK-A1287    | 200        | 245 | 215 | 225 | 180 | 110  | 30   | 0    | 59   | 29   | 86   | 126   | 184       | 12~M12x24 | M10x90  | 14.5   | M95x2  | 35 | 15     | M99x2  |    |    |    |
| TK-A1291    | 200        | 245 | 215 | 225 | 180 | 110  | 30   | 0    | 59   | 29   | 86   | 126   | 184       | 12~M12x24 | M10x90  | 14.5   | M100x2 | 35 | 15     | M99x2  |    |    |    |
| TK-A1511    | 250        | 300 | 275 | 275 | 230 | 140  | 30   | 0    | 58   | 28   | 102  | 156   | 12~M16x36 | M12x110   | 21      | M120x2 | 45     | 15 | M129x2 |        |    |    |    |
| TK-A1512    | 250        | 300 | 275 | 275 | 230 | 140  | 30   | 0    | 58   | 28   | 102  | 156   | 12~M16x36 | M12x110   | 21      | M130x2 | 45     | 15 | M129x2 |        |    |    |    |
| TK-A1512-35 | 250        | 300 | 275 | 275 | 230 | 140  | 35   | 0    | 63   | 28   | 102  | 161   | 12~M16x36 | M12x115   | 21      | M130x2 | 45     | 15 | M129x2 |        |    |    |    |
| TK-2114     | 265        | 320 | 295 | 295 | 240 | 165  | 35   | 0    | 60   | 25   | 115  | 173.5 | 247.5     | 12~M16x32 | M12x120 | 17.5   | M155x2 | 45 | 20     | M149x2 |    |    |    |

| Model       | N2 | N3 | O1  |     | O2     | P  | Q1 | Q2    | Q3  | R   |     | S   | T | U   | V   | W1  | W2    | X1  | X2    | Y1 | Y2 | Z |
|-------------|----|----|-----|-----|--------|----|----|-------|-----|-----|-----|-----|---|-----|-----|-----|-------|-----|-------|----|----|---|
|             |    |    | H8  | H8  |        |    |    |       |     | g7  | H7  |     |   |     |     |     |       |     |       |    |    |   |
| TK-A1287    | 38 | 9  | 90  | 87  | 127.5  | 15 | 45 | RC1/2 | 96  | 120 | 138 | 180 | 7 | 110 | 185 | 108 | M6x10 | 165 | M6x10 | 5  |    |   |
| TK-A1291    | 38 | 9  | 95  | 91  | 127.5  | 15 | 45 | RC1/2 | 96  | 120 | 138 | 180 | 7 | 110 | 185 | 108 | M6x10 | 165 | M6x10 | 5  |    |   |
| TK-A1511    | 38 | 9  | 115 | 110 | 153.75 | 17 | 50 | RC1/2 | 126 | 150 | 170 | 227 | 7 | 134 | 210 | 138 | M6x10 | 210 | M6x9  | 6  |    |   |
| TK-A1512    | 38 | 9  | 125 | 120 | 153.75 | 17 | 50 | RC1/2 | 126 | 150 | 170 | 227 | 7 | 134 | 210 | 138 | M6x10 | 210 | M6x9  | 6  |    |   |
| TK-A1512-35 | 38 | 9  | 125 | 120 | 158.75 | 17 | 50 | RC1/2 | 126 | 150 | 170 | 227 | 7 | 134 | 210 | 138 | M6x10 | 210 | M6x9  | 6  |    |   |
| TK-2114     | 38 | 9  | 145 | 140 | 170    | 17 | 50 | RC1/2 | 146 | 170 | 190 | 250 | 7 | 145 | 210 | 160 | M6x10 | 230 | M6x10 | 6  |    |   |

\* 集水盒及行程確認裝置請參閱零件頁面。\*Coolant Collector and Confirmation Device Please See Accessories pages.



- 全新短型設計·大孔徑型迴轉油壓缸。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- New design, short form, light weight large through-hole.
- Built-in safety check valves and pressure relief valves.
- 可附加線性定位系統機構。(選購品)
- Linear sensor can be attached.(optional)
- 專利產品字號 Patent numbers :  
台灣 : PAT.NO.M491534(Taiwan)  
大陸 : PAT.NO.ZL201420584274.5(China)



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

### 技術規格 SPECIFICATIONS

| 型號       | 活塞面積 Eff. piston area |                 | 行程            | 最高迴轉數                      | 最高使用壓力                    | I                 | 重量     | 總洩漏量              |
|----------|-----------------------|-----------------|---------------|----------------------------|---------------------------|-------------------|--------|-------------------|
|          | Model                 | Model           |               |                            |                           |                   |        |                   |
|          | 押側(Extend)            | 拉側(Retract)     | Piston stroke | Max. speed                 | Max. pressure             | Moment of inertia | Weight | Total oil leakage |
|          | cm <sup>2</sup>       | cm <sup>2</sup> | mm            | min <sup>-1</sup> (r.p.m.) | MPa(kgf/cm <sup>2</sup> ) | kg-m <sup>2</sup> | kg     | lit. / min.       |
| TK-2416  | 418.4                 | 375.4           | 35            | 2000                       | 3.0 (30)                  | 1.12              | 78.0   | 9.0               |
| TK-2416L | 418.4                 | 375.4           | 51            | 2000                       | 3.0 (30)                  | 1.31              | 79.2   | 9.0               |
| TK-2820  | 526.2                 | 472.6           | 51            | 1600                       | 3.0 (30)                  | 2.4               | 134.0  | 10.0              |

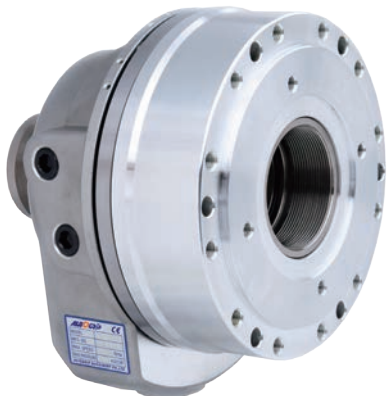
### 外型尺寸 DIMENSIONS

| Model    | A      | B   | C   | E   | F   | G1 |      | G2   |      | H   | J     | K   | L      | M1     | M2 | M3 | N1     | N2 |
|----------|--------|-----|-----|-----|-----|----|------|------|------|-----|-------|-----|--------|--------|----|----|--------|----|
|          | 內徑I.D. |     |     |     |     | h7 | max. | min. | max. |     |       |     |        |        |    |    |        |    |
| TK-2416  | 290    | 340 | 300 | 260 | 190 | 35 | 0    | 60   | 25   | 129 | 185.5 | 275 | M16x32 | M180x3 | 45 | 20 | M174x2 | 38 |
| TK-2416L | 290    | 340 | 300 | 260 | 190 | 51 | 0    | 76   | 25   | 145 | 201.5 | 291 | M16x32 | M180x3 | 45 | 20 | M174x2 | 52 |
| TK-2820  | 340    | 395 | 360 | 320 | 235 | 51 | 0    | 76   | 25   | 152 | 212.5 | 316 | M20x40 | M220x3 | 45 | 20 | M218x2 | 52 |

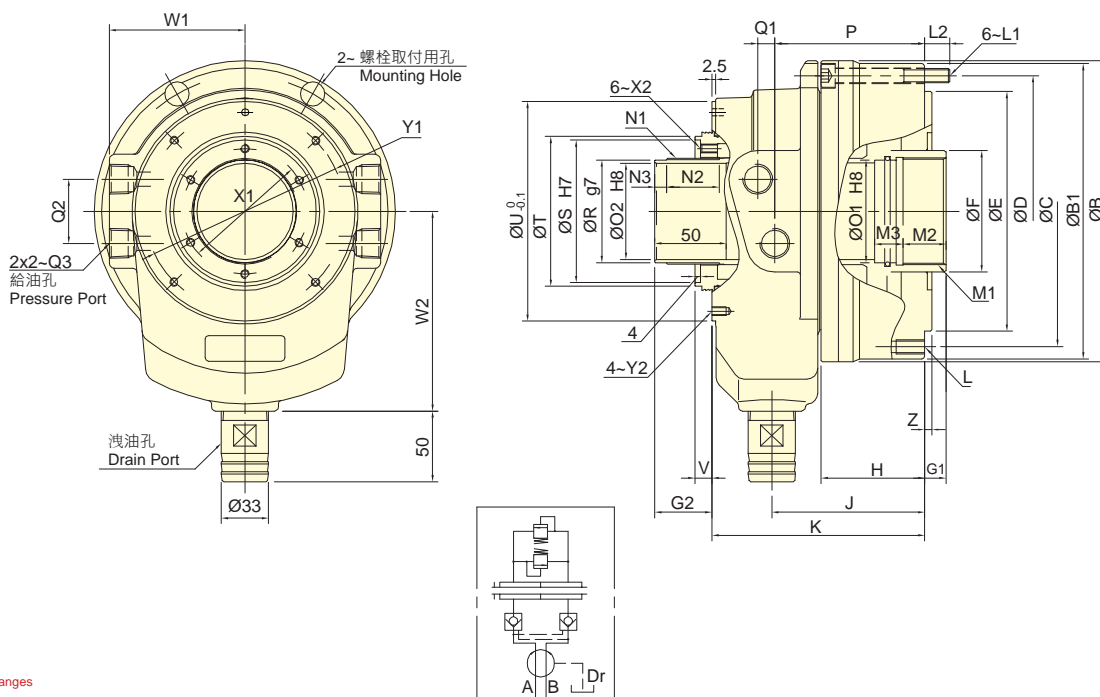
  

| Model    | O1  | O2  | P     | Q1 | Q2 | Q3    | R   | S   | T   | U   | V | W1    | W2  | X1  | X2    | Y1  | Y2    | Z |
|----------|-----|-----|-------|----|----|-------|-----|-----|-----|-----|---|-------|-----|-----|-------|-----|-------|---|
|          | H8  | H8  |       |    |    |       | g7  | H7  |     |     |   |       |     |     |       |     |       |   |
| TK-2416  | 170 | 166 | 186.5 | 20 | 50 | RC1/2 | 171 | 202 | 220 | 292 | 7 | 167   | 250 | 188 | M6x11 | 260 | M6x12 | 5 |
| TK-2416L | 170 | 166 | 202.5 | 20 | 50 | RC1/2 | 171 | 202 | 220 | 292 | 7 | 167   | 250 | 188 | M6x11 | 260 | M6x12 | 6 |
| TK-2820  | 210 | 205 | 216   | 21 | 50 | RC1/2 | 215 | 262 | 285 | 360 | 7 | 202.5 | 300 | 240 | M6x12 | 320 | M6x12 | 6 |

\* 集水盒及行程確認裝置請參閱零附件頁面。\*Coolant Collector and Confirmation Device Please See Accessories pages.



- 全新短型設計，超大孔徑型迴轉油壓缸。
- 超大孔徑的貫通孔徑設計使加工物之貫通孔徑的範圍增大。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- 安裝時可由後端鎖固之。
- Bigger bore through-hole design. Super short form, light weighted.
- Built-in safety check valves and pressure relief valves.
- Front/Rear end mounting.
- 可選購 Ø40 或 Ø60 加大排水管接頭。
- 可附加線性定位系統機構。(選購品)
- Diameter of coolant collector's drain port is optional. Default : Ø33 ; optional : Ø40, Ø60.
- Linear sensor can be attached.(optional)
- 專利產品字號 Patent numbers : 台灣 : PAT.NO.M491534(Taiwan) / 大陸 : PAT.NO.ZL201420584274.5(China)



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model    | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight | 總洩漏量<br>Total oil leakage |
|----------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|---------------------------|
|                | 押側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |                           |
| <b>TS-539</b>  | 72.4                          | 67.1                           | 15                  | 8000                | 4.5(45)                 | 0.012                  | 6.9          | 3.0                       |
| <b>TS-866</b>  | 168.0                         | 155.5                          | 25                  | 5600                | 4.5(45)                 | 0.056                  | 16.3         | 4.0                       |
| <b>TS-1081</b> | 189.2                         | 174.3                          | 25                  | 4800                | 4.5(45)                 | 0.085                  | 21.2         | 4.3                       |
| <b>TS-1210</b> | 231.7                         | 222.0                          | 30                  | 3500                | 3.5(35)                 | 0.193                  | 35.6         | 6.0                       |

### 外型尺寸 DIMENSIONS

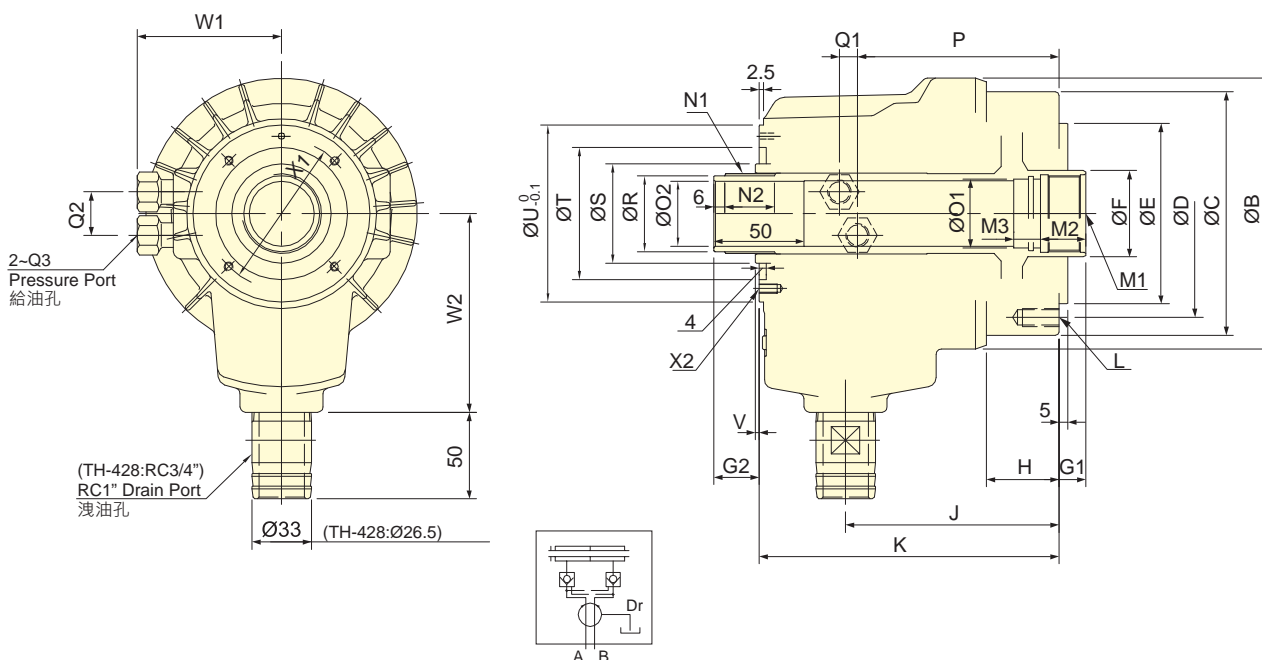
| Model          | A       | B   | B1   | C    | D    | E    | F   | G1 |   | G2   |      | H    | J     | K     | L         | L1      | L2   | M1      | M2 | M3 |
|----------------|---------|-----|------|------|------|------|-----|----|---|------|------|------|-------|-------|-----------|---------|------|---------|----|----|
|                | 內徑 I.D. | h7  | max. | min. | max. | min. |     |    |   |      |      |      |       |       |           |         |      |         |    |    |
| <b>TS-539</b>  | 107     | 143 | 141  | 125  | 125  | 110  | 52  | 15 | 0 | 42.5 | 27.5 | 57   | 91    | 124   | 6~M10x20  | M8x60   | 12   | M45x1.5 | 25 | 12 |
| <b>TS-866</b>  | 165     | 211 | 207  | 190  | 190  | 168  | 85  | 25 | 0 | 55   | 30   | 72.5 | 107   | 149   | 12~M10x20 | M10x80  | 17.5 | M75x2   | 35 | 15 |
| <b>TS-1081</b> | 180     | 226 | 222  | 205  | 205  | 168  | 100 | 25 | 0 | 58   | 33   | 74   | 115   | 166   | 12~M10x20 | M10x80  | 16   | M90x2   | 35 | 15 |
| <b>TS-1210</b> | 210     | 263 | 260  | 240  | 240  | 200  | 125 | 30 | 0 | 64   | 34   | 93.5 | 136.5 | 193.5 | 12~M10x20 | M12x100 | 20   | M115x2  | 35 | 15 |

| Model          | N1       | N2 | N3 | O1   | O2   | P   | Q1  | Q2 | Q3    | R    | S    | T   | U   | V  | W1   | W2  | X1  | X2    | Y1  | Y2    | Z |
|----------------|----------|----|----|------|------|-----|-----|----|-------|------|------|-----|-----|----|------|-----|-----|-------|-----|-------|---|
|                |          |    |    | (H8) | (H8) |     |     |    |       | (g7) | (H7) |     |     |    |      |     |     |       |     |       |   |
| <b>TS-539</b>  | M44x1.5  | 26 | 8  | 42   | 39   | 85  | 8.5 | 30 | RC1/4 | 42   | 69   | 72  | 103 | 10 | 62.5 | 100 | 54  | M6x10 | 90  | M5x12 | 5 |
| <b>TS-866</b>  | M74x1.5  | 37 | 8  | 72   | 66.5 | 105 | 12  | 45 | RC1/2 | 72   | 100  | 111 | 154 | 12 | 95   | 140 | 88  | M6x12 | 140 | M6x10 | 5 |
| <b>TS-1081</b> | M89X2.0  | 38 | 9  | 85   | 81   | 109 | 15  | 45 | RC1/2 | 86   | 113  | 123 | 175 | 16 | 103  | 160 | 103 | M6x12 | 160 | M6X10 | 5 |
| <b>TS-1210</b> | M118x2.0 | 47 | 9  | 110  | 106  | 131 | 16  | 46 | RC1/2 | 115  | 145  | 151 | 210 | 16 | 103  | 160 | 133 | M6x12 | 195 | M6x11 | 5 |

\* 集水盒及行程確認裝置請參閱零件頁面。\*Coolant Collector and Confirmation Device. Please See Accessories pages.



- 超高速・輕量・大孔徑型迴轉油壓缸。
- 內建逆止閥自鎖機構・可防止壓力源故障或配管部損傷時・確保壓力不致遽降・而能持續穩固的夾持工作物。
- Super high speed, light weight large Through-Hole.
- Built-in check valve which prevents the internal pressure from sudden declining so that the workpiece will not fly out and cause a serious accident.
- 可附加線性定位系統機構。(選購品)
- Linear sensor can be attached.(optional)



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight | 總洩漏量<br>Total oil leakage |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|---------------------------|
|             | 押側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |                           |
| TH-428      | 53.2                          | 50.5                           | 10                  | 8000                | 4.0(40)                 | 0.008                  | 5.8          | 3.0                       |
| TH-A536     | 69.8                          | 67.5                           | 15                  | 8000                | 4.0(40)                 | 0.05                   | 8.3          | 3.0                       |

### 外型尺寸 DIMENSIONS

| Model   | A<br>內徑<br>I.D. | B   | C   | D   | E<br>(h7) | F  | G1<br>max. | G1<br>min. | G2<br>max. | G2<br>min. | H  | J     | K   | L        | M1      | M2 | M3 |
|---------|-----------------|-----|-----|-----|-----------|----|------------|------------|------------|------------|----|-------|-----|----------|---------|----|----|
| TH-428  | 90              | 130 | 120 | 100 | 80        | 40 | 10         | 0          | 35         | 25         | 45 | 127.5 | 155 | 6-M8x15  | M33x1.5 | 25 | 12 |
| TH-A536 | 105             | 150 | 135 | 115 | 100       | 48 | 15         | 0          | 40         | 25         | 40 | 118   | 166 | 6-M10x20 | M42x1.5 | 25 | 15 |

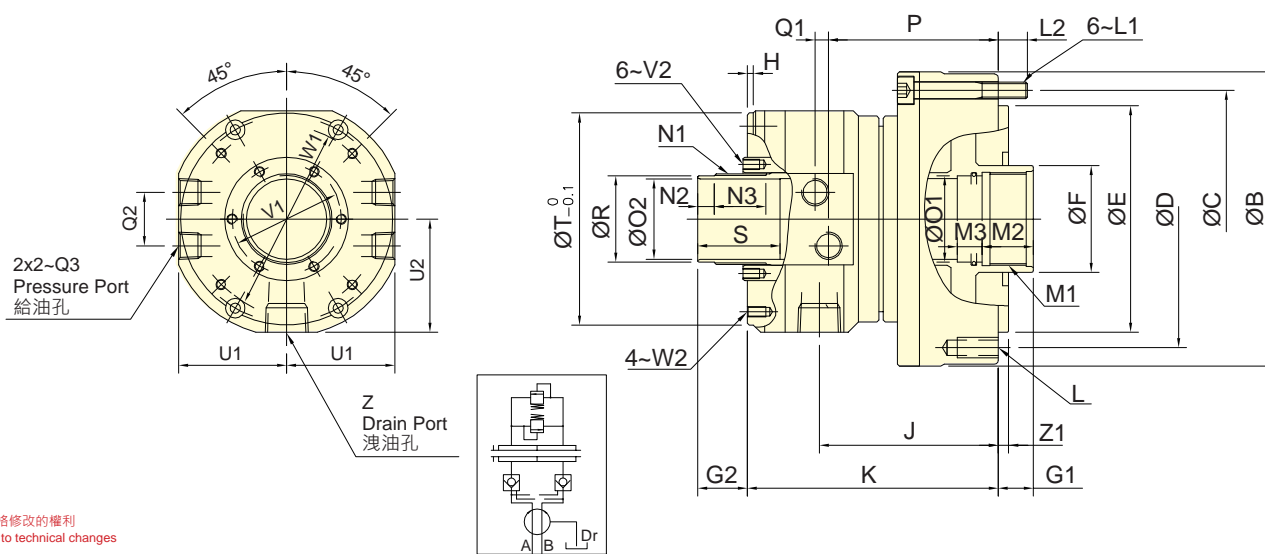
  

| Model   | N1      | N2 | O1<br>(H8) | O2<br>(H8) | P     | Q1 | Q2 | Q3    | R<br>(g7) | S  | T  | U  | V | W1 | W2  | X1 | X2    |
|---------|---------|----|------------|------------|-------|----|----|-------|-----------|----|----|----|---|----|-----|----|-------|
| TH-428  | M34x1.5 | 26 | 30         | 28         | 101.5 | 11 | 24 | RC1/4 | 32        | 45 | 65 | 86 | 4 | 72 | 105 | 76 | M4x7  |
| TH-A536 | M44x1.5 | 28 | 38         | 36         | 111.5 | 10 | 24 | RC1/4 | 42        | 55 | 73 | 98 | 4 | 80 | 110 | 83 | M5x10 |

\* 集水盒及行程確認裝置請參閱零附件頁面。\*Coolant Collector and Confirmation Device Please See Accessories pages.



- 外型長度精短，重量輕巧。
- 內建專利逆止閥與洩壓閥，安全保障更確實。
- 大給油孔與大洩油孔，入油量，排油順暢。
- 後鎖安裝與前鎖安裝兩用，空間應用更靈活。
- 可應用於立式與臥式主軸。
- This is a compact, short form, light weight through-hole rotary cylinder.
- With patented build-in safety check valves and pressure relief valves.
- Large feed port and drain port, large input and keep drain smoothly.
- Can be screwed from the front end or rear end of cylinder when mounting.
- For use with vertical or horizontal spindles.
- 可附加線性定位系統機構。(選購品)
- Linear sensor can be attached.(optional)
- 專利產品字號 Patent numbers :  
台灣 : PAT.NO.M491534(Taiwan)  
大陸 : PAT.NO.ZL201420584274.5(China)



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight | 總洩漏量<br>Total oil leakage |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|---------------------------|
|             | 押側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |                           |
| TR-539      | 72.4                          | 67.1                           | 15                  | 8000                | 4.0(40)                 | 0.010                  | 6.8          | 3.0                       |
| TR-646      | 105.0                         | 93.9                           | 15                  | 7000                | 4.0(40)                 | 0.015                  | 9.5          | 3.0                       |
| TR-853      | 135.3                         | 125                            | 20                  | 6300                | 4.0(40)                 | 0.032                  | 11.5         | 3.9                       |
| TR-1075     | 170                           | 155                            | 25                  | 4500                | 4.0(40)                 | 0.065                  | 18           | 4.2                       |
| TR-1291     | 234                           | 217.5                          | 30                  | 3500                | 4.0(40)                 | 0.092                  | 29.5         | 4.5                       |

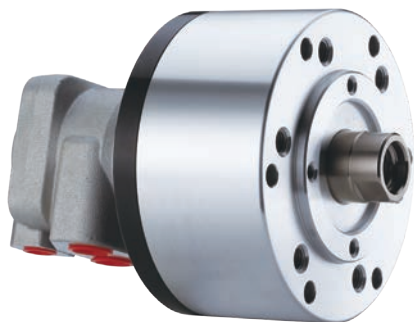
### 外型尺寸 DIMENSIONS

| Model   | A<br>內徑<br>I.D. | B   | C   | D   | E<br>h7 | F   | G1   |      | G2   |      | H   | J     | K     | L         | L1     | L2   | M1      | M2 | M3 |
|---------|-----------------|-----|-----|-----|---------|-----|------|------|------|------|-----|-------|-------|-----------|--------|------|---------|----|----|
|         |                 |     |     |     |         |     | max. | min. | max. | min. |     |       |       |           |        |      |         |    |    |
| TR-539  | 107             | 143 | 125 | 125 | 110     | 52  | 15   | 0    | 34   | 19   | 4   | 97    | 133   | 6-M10x20  | M8x60  | 12   | M45x1.5 | 25 | 12 |
| TR-646  | 128             | 165 | 147 | 147 | 130     | 65  | 15   | 0    | 34   | 19   | 3.5 | 97    | 135   | 12-M10x20 | M8x60  | 11.5 | M55x2   | 25 | 13 |
| TR-853  | 145             | 185 | 165 | 170 | 130     | 70  | 20   | 0    | 47   | 27   | 4.5 | 118.5 | 160   | 12-M10x20 | M8x75  | 12   | M60x2   | 30 | 15 |
| TR-1075 | 170             | 212 | 190 | 190 | 160     | 95  | 25   | 0    | 52   | 27   | 4.5 | 129.5 | 181   | 12-M10x20 | M10x85 | 16   | M85x2   | 35 | 15 |
| TR-1291 | 200             | 248 | 225 | 215 | 180     | 110 | 30   | 0    | 59   | 29   | 5   | 146   | 240.5 | 12-M12x24 | M10x95 | 16   | M100x2  | 35 | 15 |

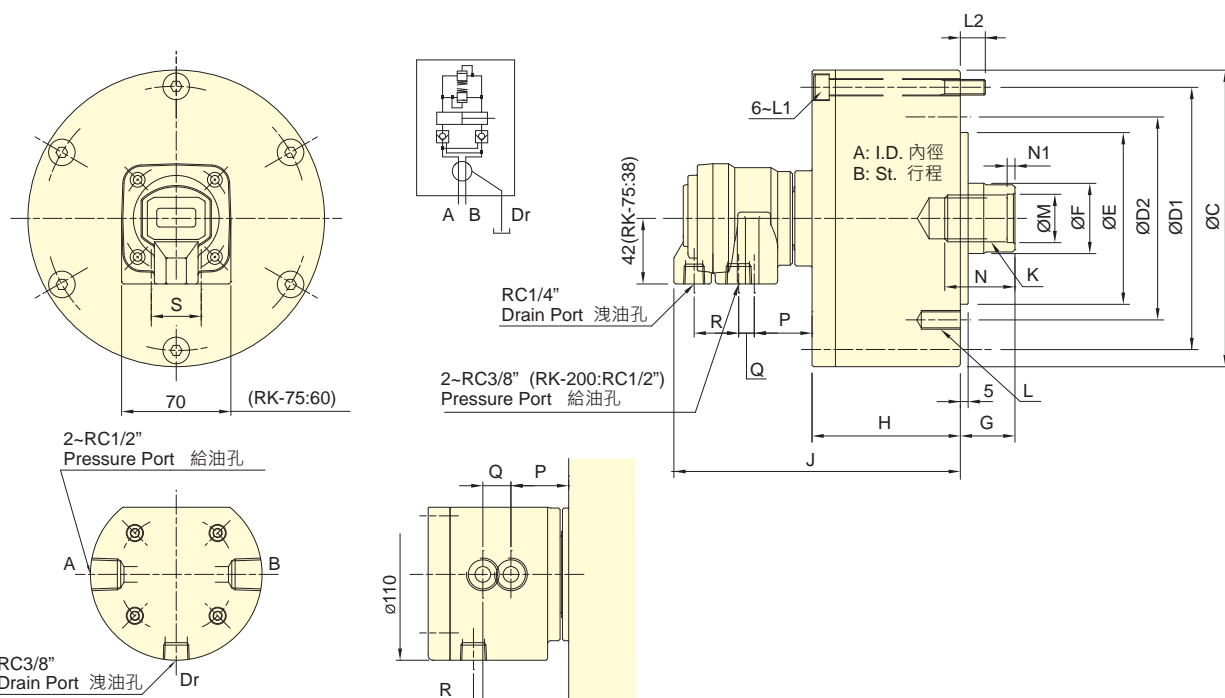
  

| Model   | N1      | N2 | N3 | O1 | O2 | P     | Q1  | Q2 | Q3     | R  | S  | T   | U1   | U2 | V1    | V2    | W1  | W2    | Z      | Z1 |
|---------|---------|----|----|----|----|-------|-----|----|--------|----|----|-----|------|----|-------|-------|-----|-------|--------|----|
|         |         |    |    | H8 | H8 |       |     |    |        | g7 |    |     |      |    |       |       |     |       |        |    |
| TR-539  | M44x1.5 | 8  | 25 | 42 | 39 | 92.5  | 6.5 | 26 | RC 1/4 | 42 | 40 | 103 | 52.5 | 55 | 53    | M5x8  | 90  | M5x9  | RC 1/2 | 5  |
| TR-646  | M52x1.5 | 8  | 25 | 50 | 46 | 95    | 5   | 32 | RC 3/8 | 50 | 50 | 116 | 59   | 62 | 61.5  | M5x9  | 98  | M5x9  | RC 1/2 | 5  |
| TR-853  | M58x1.5 | 8  | 30 | 55 | 53 | 114   | 8   | 34 | RC 3/8 | 56 | 50 | 128 | 65   | 67 | 70    | M5x10 | 110 | M6x11 | RC 1/2 | 5  |
| TR-1075 | M84x2   | 9  | 33 | 80 | 75 | 123.5 | 12  | 40 | RC 1/2 | 81 | 50 | 164 | 83   | 86 | 95    | M5x10 | 155 | M6x11 | RC 3/4 | 5  |
| TR-1291 | M99x2   | 9  | 38 | 95 | 91 | 139   | 14  | 45 | RC1/2  | 96 | 50 | 180 | 91.5 | 93 | 110.5 | M6x12 | 165 | M6x12 | RC3/4  | 5  |

\* 集水盒及行程確認裝置請參閱零件頁面。\*Coolant Collector and Confirmation Device Please See Accessories pages.



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



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

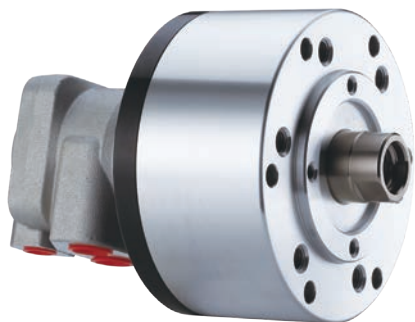
RK-250

### 技術規格 SPECIFICATIONS

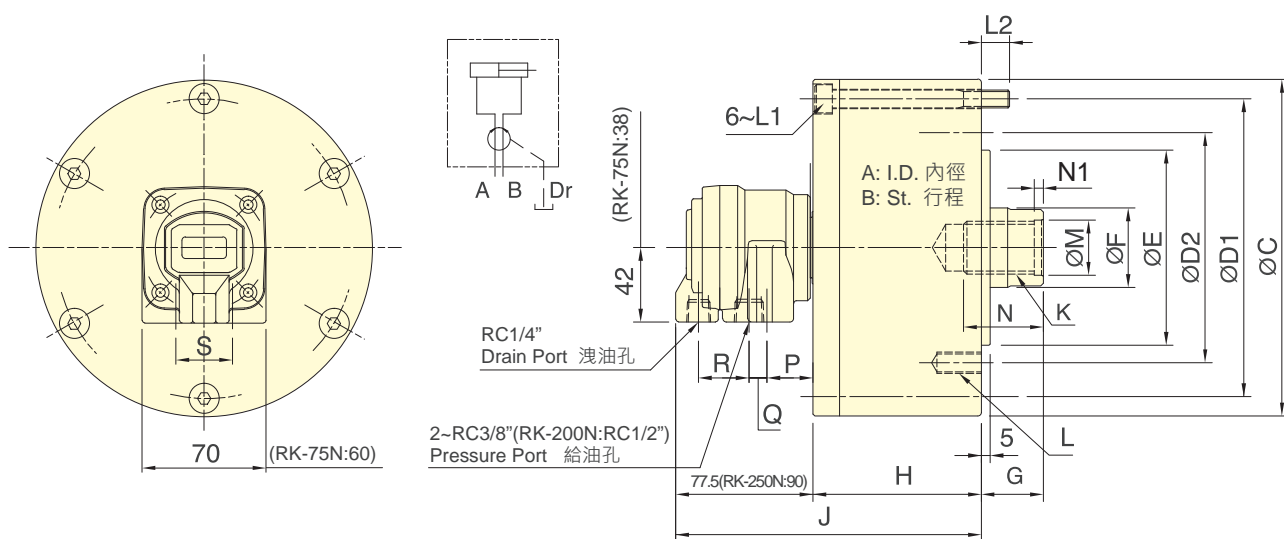
| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|
|             | 伸側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |
| RK-75       | 44.2                          | 37.1                           | 15                  | 6000                | 4.0 (40)                | 0.01                   | 2.9          |
| RK-100      | 78.5                          | 71.5                           | 20                  | 6000                | 4.0 (40)                | 0.03                   | 4.4          |
| RK-125      | 122.7                         | 113.1                          | 25                  | 6000                | 4.0 (40)                | 0.05                   | 6.9          |
| RK-150      | 176.7                         | 160.8                          | 30                  | 5500                | 4.0 (40)                | 0.09                   | 9.5          |
| RK-200      | 314.1                         | 290.4                          | 35                  | 5500                | 4.0 (40)                | 0.28                   | 15.4         |
| RK-250      | 469.1                         | 436.0                          | 60                  | 2000                | 5.0(50)                 | 0.40                   | 45.2         |

### 外型尺寸 DIMENSIONS

| Model  | A   | B  | C   | D1  | D2  | E<br>(h7) | F  | G<br>max. | G<br>min. | H   | J   | K       | L         | L1      | L2 | M<br>(H8) | N  | N1 | P    | Q  | R    | S  |
|--------|-----|----|-----|-----|-----|-----------|----|-----------|-----------|-----|-----|---------|-----------|---------|----|-----------|----|----|------|----|------|----|
| RK-75  | 75  | 15 | 107 | 90  | 90  | 65        | 30 | 45        | 30        | 57  | 148 | M20x2.5 | 6-M8x16   | M8x60   | 12 | 21        | 35 | 5  | 41.5 | 10 | 27.5 | 26 |
| RK-100 | 100 | 20 | 132 | 115 | 100 | 80        | 30 | 45        | 25        | 72  | 163 | M20x2.5 | 6-M10x20  | M8x75   | 12 | 21        | 35 | 5  | 39.5 | 10 | 28.5 | 32 |
| RK-125 | 125 | 25 | 160 | 140 | 130 | 110       | 35 | 50        | 25        | 82  | 172 | M24x3.0 | 6-M12x20  | M8x85   | 12 | 25        | 45 | 5  | 38.5 | 10 | 28.5 | 32 |
| RK-150 | 150 | 30 | 190 | 170 | 130 | 110       | 45 | 55        | 25        | 95  | 184 | M30x3.5 | 12-M12x24 | M10x100 | 16 | 32        | 45 | 5  | 37   | 10 | 28.5 | 32 |
| RK-200 | 200 | 35 | 245 | 220 | 145 | 120       | 55 | 70        | 35        | 115 | 201 | M36x4.0 | 12-M16x30 | M10x125 | 21 | 38        | 60 | 5  | 38   | 6  | 28.5 | 28 |
| RK-250 | 245 | 60 | 307 | 275 | 220 | 160       | 65 | 85        | 25        | 165 | 255 | M42x3.0 | 12-M20x35 | M16x175 | 28 | 45        | 65 | 12 | 33   | 18 | 6    | -  |



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



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

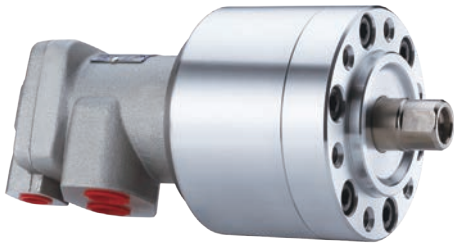
### 技術規格 SPECIFICATIONS

| 型號<br>Model    | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|----------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|
|                | 押側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |
| <b>RK-75N</b>  | 44.2                          | 37.1                           | 15                  | 6000                | 4.0(40)                 | 0.01                   | 2.8          |
| <b>RK-100N</b> | 78.5                          | 71.5                           | 20                  | 6000                | 4.0(40)                 | 0.03                   | 4.3          |
| <b>RK-125N</b> | 122.7                         | 113.1                          | 25                  | 6000                | 4.0(40)                 | 0.05                   | 6.8          |
| <b>RK-150N</b> | 176.7                         | 160.8                          | 30                  | 5500                | 4.0(40)                 | 0.09                   | 9.4          |
| <b>RK-200N</b> | 314.1                         | 290.4                          | 35                  | 5500                | 4.0(40)                 | 0.28                   | 15.3         |
| <b>RK-250N</b> | 469.1                         | 436.0                          | 60                  | 2000                | 5.0(50)                 | 0.40                   | 45.2         |

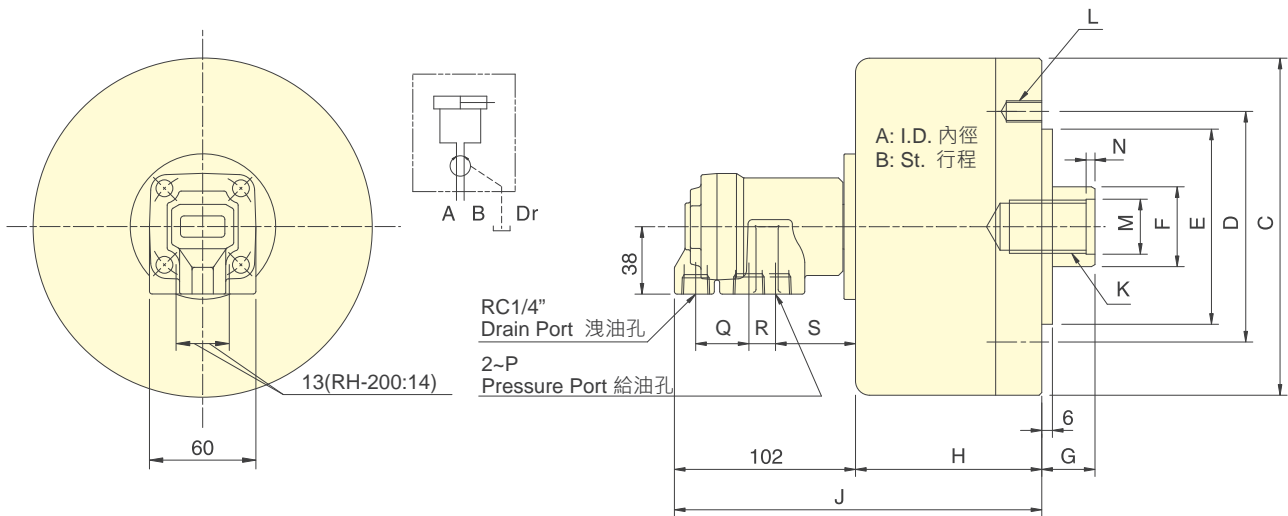
### 外型尺寸 DIMENSIONS

| Model          | A   | B  | C   | D1  | D2  | E (h7) | F  | G max. | G min. | H   | J     | K       | L         | L1      | L2 | M (H8) | N  | N1 | P  | Q  | R    | S  |
|----------------|-----|----|-----|-----|-----|--------|----|--------|--------|-----|-------|---------|-----------|---------|----|--------|----|----|----|----|------|----|
| <b>RK-75N</b>  | 75  | 15 | 107 | 90  | 90  | 65     | 30 | 45     | 30     | 57  | 134.5 | M20x2.5 | 6~M8x16   | M8x60   | 12 | 21     | 35 | 5  | 28 | 10 | 27.5 | 26 |
| <b>RK-100N</b> | 100 | 20 | 132 | 115 | 100 | 80     | 30 | 45     | 25     | 72  | 149.5 | M20x2.5 | 6~M10x20  | M8x75   | 12 | 21     | 35 | 5  | 26 | 10 | 28.5 | 32 |
| <b>RK-125N</b> | 125 | 25 | 160 | 140 | 130 | 110    | 35 | 50     | 25     | 82  | 159.5 | M24x3.0 | 6~M12x20  | M8x85   | 12 | 25     | 45 | 5  | 26 | 10 | 28.5 | 32 |
| <b>RK-150N</b> | 150 | 30 | 190 | 170 | 130 | 110    | 45 | 55     | 25     | 95  | 172.5 | M30x3.5 | 12~M12x24 | M10x100 | 16 | 32     | 45 | 5  | 26 | 10 | 28.5 | 32 |
| <b>RK-200N</b> | 200 | 35 | 245 | 220 | 145 | 120    | 55 | 70     | 35     | 115 | 192.5 | M36x4.0 | 12~M16x30 | M10x125 | 21 | 38     | 60 | 5  | 30 | 6  | 28.5 | 28 |
| <b>RK-250N</b> | 245 | 60 | 307 | 275 | 220 | 160    | 65 | 85     | 25     | 165 | 255   | M42x3.0 | 6~M20x2.5 | M16x175 | 28 | 45     | 65 | 12 | 37 | 18 | 6    | -  |





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



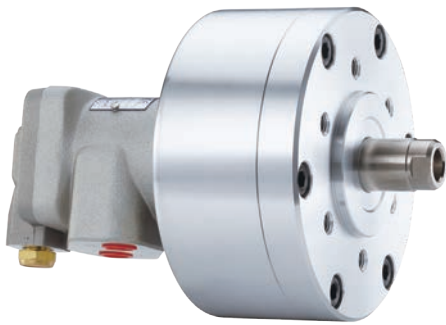
保留規格修改的權利  
Subject to technical changes

### 技術規格 SPECIFICATIONS

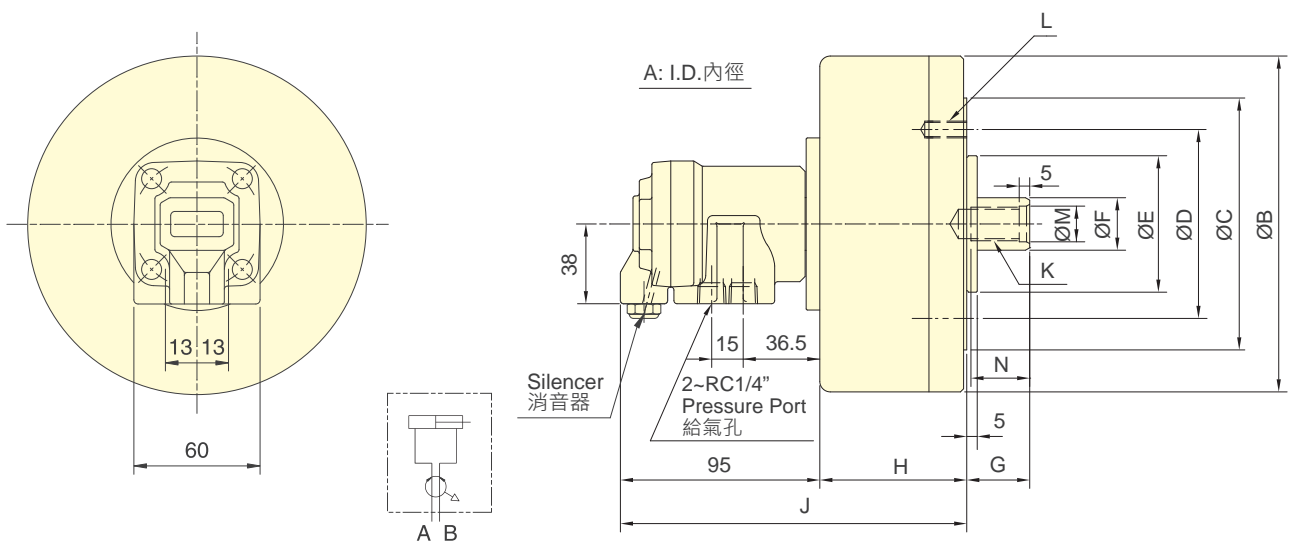
| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|
|             | 押側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |
| RH-65       | 31.0                          | 27.9                           | 15                  | 6000                | 3.5(35)                 | 0.01                   | 2.9          |
| RH-80       | 47.7                          | 42.8                           | 15                  | 6000                | 3.5(35)                 | 0.01                   | 3.4          |
| RH-100      | 75.4                          | 70.5                           | 20                  | 5500                | 3.5(35)                 | 0.04                   | 4.9          |
| RH-125      | 119.6                         | 112.5                          | 25                  | 5500                | 3.5(35)                 | 0.08                   | 6.8          |
| RH-200      | 310.0                         | 286.3                          | 35                  | 4000                | 4.0(40)                 | 0.38                   | 20.4         |

### 外型尺寸 DIMENSIONS

| Model  | A   | B  | C   | D   | E (h7) | F  | G max. | G min. | H    | J     | K           | L         | M (H8) | N | P     | Q  | R  | S  |
|--------|-----|----|-----|-----|--------|----|--------|--------|------|-------|-------------|-----------|--------|---|-------|----|----|----|
| RH-65  | 65  | 15 | 98  | 80  | 60     | 22 | 45     | 30     | 73   | 175   | M12x1.75x30 | 6~M8x16   | 14     | 4 | RC3/8 | 30 | 15 | 45 |
| RH-80  | 80  | 15 | 112 | 90  | 65     | 25 | 45     | 30     | 74   | 176   | M16x2.0x30  | 6~M8x16   | 17     | 4 | RC3/8 | 30 | 15 | 45 |
| RH-100 | 100 | 20 | 135 | 100 | 80     | 25 | 45     | 25     | 88.5 | 190.5 | M16x2.0x30  | 6~M10x20  | 17     | 4 | RC3/8 | 30 | 15 | 45 |
| RH-125 | 125 | 25 | 160 | 130 | 110    | 30 | 50     | 25     | 95.5 | 197.5 | M20x2.5x35  | 6~M12x20  | 21     | 4 | RC3/8 | 30 | 15 | 45 |
| RH-200 | 200 | 35 | 245 | 145 | 120    | 55 | 70     | 35     | 130  | 232   | M36x4       | 12~M16x30 | 38     | 5 | RC1/2 | 31 | 16 | 43 |



- 迴轉閥體與缸體皆採用特殊輕合金製造而成，重量輕。
- 迴轉閥經特殊設計，能使壓縮空氣的消耗量大量減少，充分發揮高經濟效益。
- The rotary valve and cylinder body, all made of special light alloy, are light-weight.
- Through unique design, the rotary valve can considerably reduce the waste in compressing air and efficiently increase its utilization.
- 使用時，請混入微量的油霧。
- When used, a little oil mist should be contained.



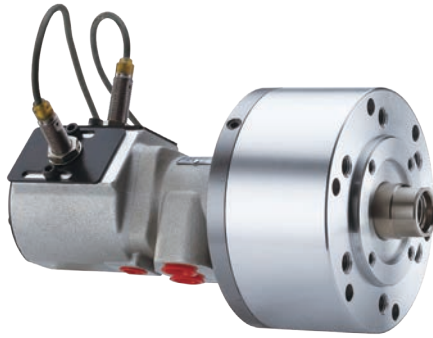
保留規格修改的權利  
Subject to technical changes

## 技術規格 SPECIFICATIONS

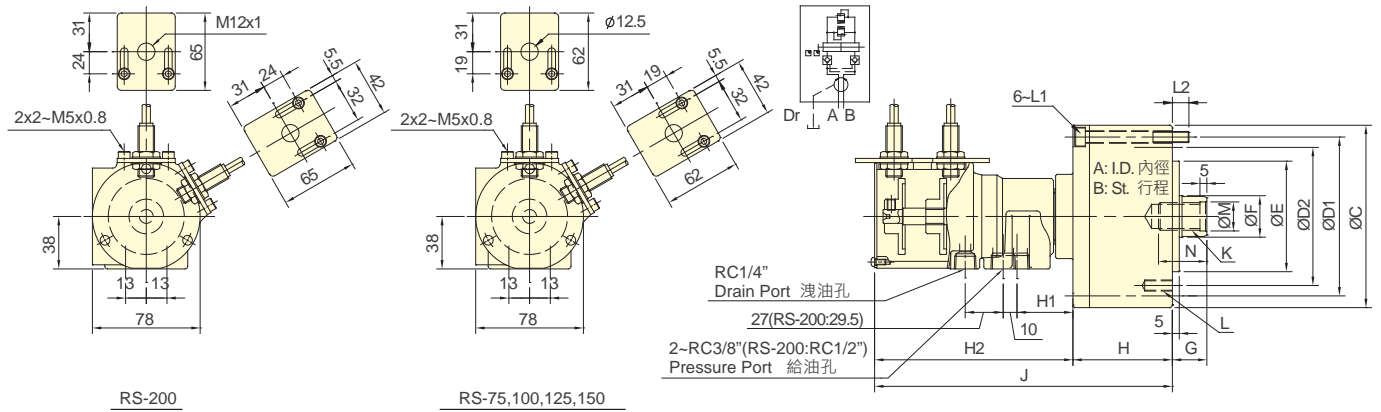
| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight | 空氣洩漏量<br>Air Leakage (6kgf/cm <sup>2</sup> ) |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|--|
|             | 伸側(Extend)<br>cm <sup>2</sup> | 縮側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |  |
| RA-100      | 77.0                          | 74.4                           | 15                  | 6000                | 0.8(8)                  | 0.03                   | 3.9          | 400  |
| RA-130      | 131.2                         | 124.7                          | 15                  | 5000                | 0.8(8)                  | 0.05                   | 5.2          | 400  |
| RA-170      | 225.4                         | 219.0                          | 20                  | 5000                | 0.8(8)                  | 0.18                   | 8.5          | 400  |
| RA-220      | 378.6                         | 369.3                          | 25                  | 4000                | 0.8(8)                  | 0.36                   | 14.5         | 400  |
| RA-270      | 571.0                         | 562.9                          | 30                  | 3000                | 0.8(8)                  | 0.75                   | 18.4         | 400  |

## 外型尺寸 DIMENSIONS

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



- 短型・高速・行程控制型迴轉油壓缸。
- 感應式近接開關・行程調整容易・可確認油壓缸正確作動。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- 安裝時可由後端鎖固之。
- For short form, high speed and stroke control.
- With proximity sensor, the movement of the position is easy to adjust and confirm when operating.
- Built-in safety check valves and pressure relief valves.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽・以避免產生背壓。
- 行程檢知機構可修改為線性定位系統機構。(訂製品)
- The drain port should be independently connected to oil tank to avoid back pressure.
- Stroke Detection Type can be customized to Linear Positioning System.



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

### 技術規格 SPECIFICATIONS

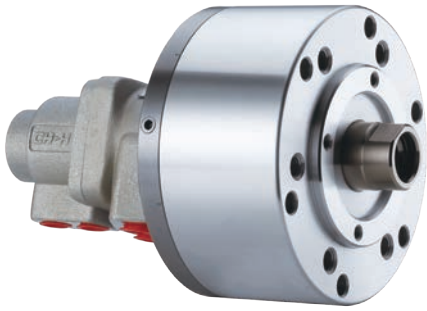
| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|
|             | 押側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |
| RS-75       | 43.0                          | 37.1                           | 15                  | 6000                | 4.0 (40)                | 0.01                   | 3.4          |
| RS-100      | 77.4                          | 71.5                           | 20                  | 6000                | 4.0 (40)                | 0.04                   | 4.9          |
| RS-125      | 121.6                         | 113.1                          | 25                  | 6000                | 4.0 (40)                | 0.05                   | 7.4          |
| RS-150      | 175.6                         | 160.8                          | 30                  | 5500                | 4.0 (40)                | 0.10                   | 10.7         |
| RS-200      | 313.0                         | 290.4                          | 35                  | 5500                | 4.0 (40)                | 0.29                   | 15.9         |

### 外型尺寸 DIMENSIONS

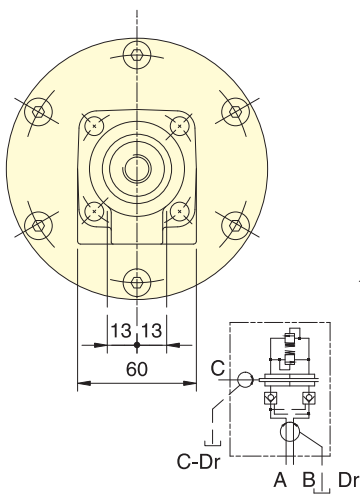
| Model  | A   | B  | C   | D1  | D2  | E (h7) | F  | G max. | G min. | H   | H1 | H2    | J     | K       | L         | L1      | L2 | M (H8) | N  |
|--------|-----|----|-----|-----|-----|--------|----|--------|--------|-----|----|-------|-------|---------|-----------|---------|----|--------|----|
| RS-75  | 75  | 15 | 107 | 90  | 90  | 65     | 30 | 45     | 30     | 57  | 42 | 145   | 202   | M20x2.5 | 6~M8x16   | M8x60   | 12 | 21     | 35 |
| RS-100 | 100 | 20 | 132 | 115 | 100 | 80     | 30 | 45     | 25     | 72  | 42 | 145   | 217   | M20x2.5 | 6~M10x20  | M8x75   | 12 | 21     | 35 |
| RS-125 | 125 | 25 | 160 | 140 | 130 | 110    | 35 | 50     | 25     | 82  | 41 | 144   | 226   | M24x3.0 | 6~M12x20  | M8x85   | 12 | 25     | 45 |
| RS-150 | 150 | 30 | 190 | 170 | 130 | 110    | 45 | 55     | 25     | 95  | 39 | 142   | 237   | M30x3.5 | 12~M12x24 | M10x100 | 16 | 32     | 45 |
| RS-200 | 200 | 35 | 245 | 220 | 145 | 120    | 55 | 70     | 35     | 115 | 34 | 142.5 | 257.5 | M36x4.0 | 12~M16x30 | M10x125 | 21 | 38     | 60 |

\* 近接開關 : DC 10-30V 100mA NPN \* Proximity sensor : DC 10-30V 100mA NPN.

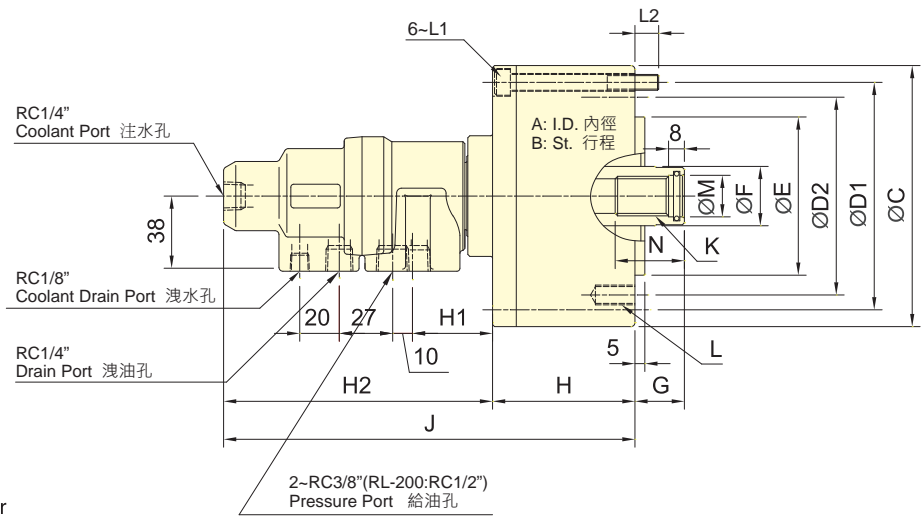




- 高速・注水型迴轉油壓缸。可經由後端供給切削水。
- 內建逆止閥自鎖機構及壓力洩壓閥。
- To allow coolant to be feed from the rear end of the distributor through the rotating union
- Built-in safety check valves and pressure relief valves.
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓。
- 注水孔無流體通過時，請勿運轉。
- The drain port should be independently connected to oil tank to avoid back pressure.
- The rotary cylinder should not run without liquid through coolant port.



PV Limit value 14400 MPa·r/m  
PV 限制值



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

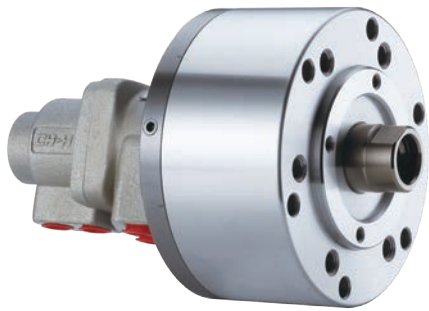
### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | 注水孔最高使用壓力<br>Coolant connection<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|--|------------------------|--------------|
|             | 伸側(Extend)<br>cm <sup>2</sup> | 縮側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |  |                        |              |
| RL-75       | 42.6                          | 37.1                           | 15                  | 6000                | 4.0(40)                 | 3.5(35)  | 0.01                   | 3.1          |
| RL-100      | 77.0                          | 71.5                           | 20                  | 6000                | 4.0(40)                 | 3.5(35)  | 0.04                   | 4.6          |
| RL-125      | 121.2                         | 113.1                          | 25                  | 6000                | 4.0(40)                 | 3.5(35)  | 0.06                   | 7.1          |
| RL-150      | 175.2                         | 160.8                          | 30                  | 5500                | 4.0(40)                 | 3.5(35)  | 0.10                   | 9.7          |
| RL-200      | 312.5                         | 290.4                          | 35                  | 5500                | 4.0(40)                 | 3.5(35)  | 0.30                   | 15.6         |

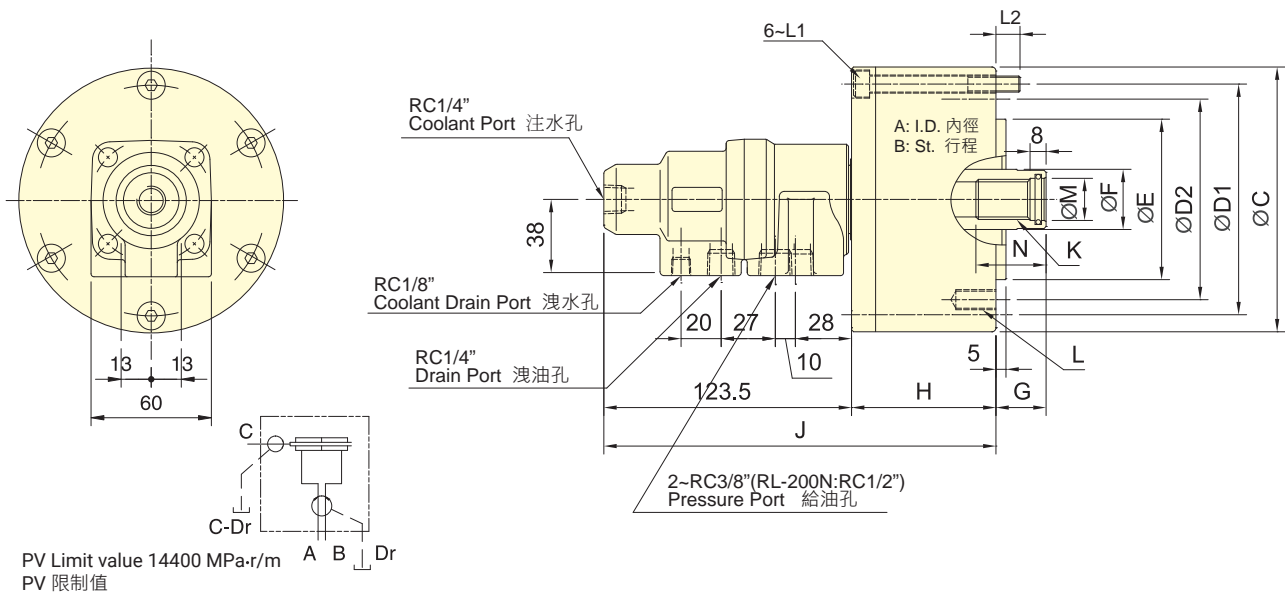
### 外型尺寸 DIMENSIONS

| Model  | A   | B  | C   | D1  | D2  | E<br>(h7) | F  | G max. | G min. | H   | H1 | H2  | J   | K       | L         | L1      | L2 | M<br>(H8) | N  |
|--------|-----|----|-----|-----|-----|-----------|----|--------|--------|-----|----|-----|-----|---------|-----------|---------|----|-----------|----|
| RL-75  | 75  | 15 | 107 | 90  | 90  | 65        | 30 | 45     | 30     | 57  | 42 | 137 | 194 | M20x2.5 | 6~M8x16   | M8x60   | 12 | 21        | 35 |
| RL-100 | 100 | 20 | 132 | 115 | 100 | 80        | 30 | 45     | 25     | 72  | 42 | 137 | 209 | M20x2.5 | 6~M10x20  | M8x75   | 12 | 21        | 35 |
| RL-125 | 125 | 25 | 160 | 140 | 130 | 110       | 35 | 50     | 25     | 82  | 41 | 136 | 218 | M24x3.0 | 6~M12x20  | M8x85   | 12 | 25        | 45 |
| RL-150 | 150 | 30 | 190 | 170 | 130 | 110       | 45 | 55     | 25     | 95  | 39 | 134 | 230 | M30x3.5 | 12~M12x24 | M10x100 | 16 | 32        | 45 |
| RL-200 | 200 | 35 | 245 | 220 | 145 | 120       | 55 | 70     | 35     | 115 | 36 | 132 | 248 | M36x4.0 | 12~M16x30 | M10x125 | 21 | 38        | 60 |

空油壓迴轉缸



- 高速・注水型迴轉油壓缸。可經由後端供給切削水。
- 安裝時可由後端鎖固之。
- To allow coolant to be feed from the rear end of the distributor through the rotating union.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓。
- 注水孔無流體通過時，請勿運轉。
- The drain port should be independently connected to oil tank to avoid back pressure.
- The rotary cylinder should not run without liquid through coolant port.



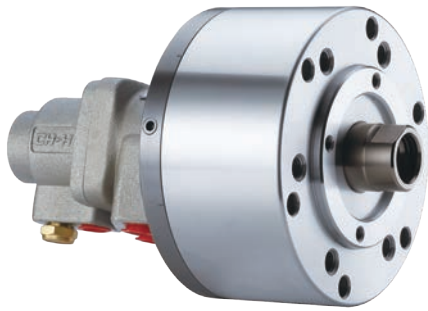
保留規格修改的權利  
Subject to technical changes

### 技術規格 SPECIFICATIONS

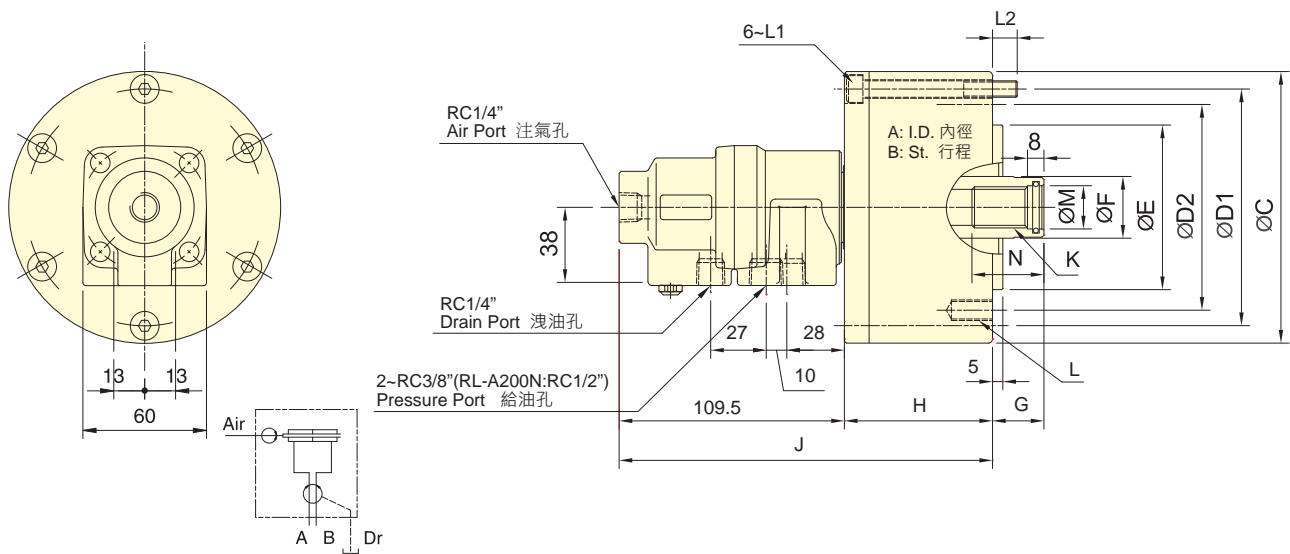
| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | 注水孔最高使用壓力<br>Coolant connection<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|--|------------------------|--------------|
|             | 押側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |  |                        |              |
| RL-75N      | 42.6                          | 37.1                           | 15                  | 6000                | 4.0 (40)                | 3.5(35)  | 0.01                   | 3.0          |
| RL-100N     | 77.0                          | 71.5                           | 20                  | 6000                | 4.0 (40)                | 3.5(35)  | 0.04                   | 4.5          |
| RL-125N     | 121.2                         | 113.1                          | 25                  | 6000                | 4.0 (40)                | 3.5(35)  | 0.06                   | 7.0          |
| RL-150N     | 175.2                         | 160.8                          | 30                  | 5500                | 4.0 (40)                | 3.5(35)  | 0.10                   | 9.6          |
| RL-200N     | 312.5                         | 290.4                          | 35                  | 5500                | 4.0 (40)                | 3.5(35)  | 0.29                   | 15.5         |

### 外型尺寸 DIMENSIONS

| Model   | A   | B  | C   | D1  | D2  | E (h7) | F  | G max. | G min. | H   | J   | K       | L          | L1      | L2 | M (H8) | N  |
|---------|-----|----|-----|-----|-----|--------|----|--------|--------|-----|-----|---------|------------|---------|----|--------|----|
| RL-75N  | 75  | 15 | 107 | 90  | 90  | 65     | 30 | 45     | 30     | 57  | 180 | M20x2.5 | 6-M8x16    | M8x60   | 12 | 21     | 35 |
| RL-100N | 100 | 20 | 132 | 115 | 100 | 80     | 30 | 45     | 25     | 72  | 195 | M20x2.5 | 6-M10x20   | M8x75   | 12 | 21     | 35 |
| RL-125N | 125 | 25 | 160 | 140 | 130 | 110    | 35 | 50     | 25     | 82  | 205 | M24x3.0 | 6-M12x20   | M8x85   | 12 | 25     | 45 |
| RL-150N | 150 | 30 | 190 | 170 | 130 | 110    | 45 | 55     | 25     | 95  | 218 | M30x3.5 | 12-M12x24  | M10x100 | 16 | 32     | 45 |
| RL-200N | 200 | 35 | 245 | 220 | 145 | 120    | 55 | 70     | 35     | 115 | 240 | M36x4.0 | 12-M16x 30 | M10x125 | 21 | 38     | 60 |



- 高速・注氣型迴轉油壓缸，可經由後端供給空氣。
- 安裝時可由後端鎖固之。
- To allow compressed air to be feed from the rear end of the distributor through the rotating union.
- Can screw it from the rear end of the cylinder when mounting.
- 使用時，請混入微量的油霧。
- 注氣孔無氣體通過時，請勿運轉。
- When used, a little oil mist should be contained.
- The rotary cylinder should not run without air passing through the air port.



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

### 技術規格 SPECIFICATIONS

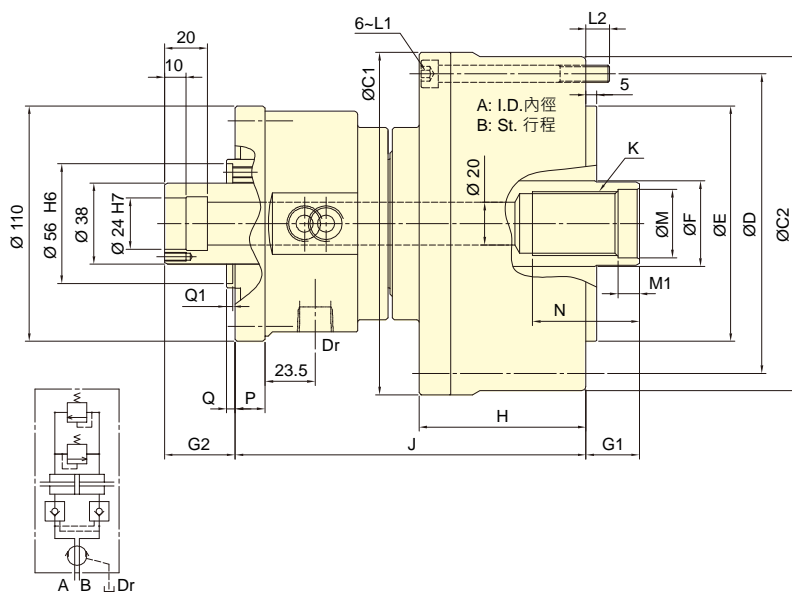
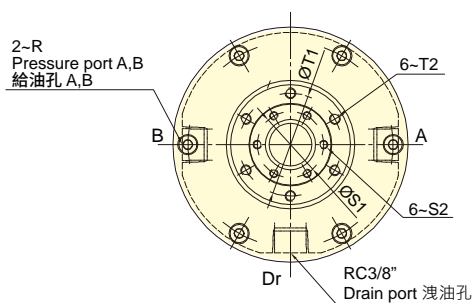
| 型號<br>Model | 活瓣面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | 注氣部最高使用壓力<br>Air connection<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|--|------------------------|--------------|
|             | 伸側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |  |                        |              |
| RL-A75N     | 42.6                          | 37.1                           | 15                  | 6000                | 4.0(40)                 | 0.8(8)                                       | 0.01                   | 3.0          |
| RL-A100N    | 77.0                          | 71.5                           | 20                  | 6000                | 4.0(40)                 | 0.8(8)                                       | 0.04                   | 4.5          |
| RL-A125N    | 121.2                         | 113.1                          | 25                  | 6000                | 4.0(40)                 | 0.8(8)                                       | 0.06                   | 7.0          |
| RL-A150N    | 175.2                         | 160.8                          | 30                  | 5500                | 4.0(40)                 | 0.8(8)                                       | 0.10                   | 9.6          |
| RL-A200N    | 312.5                         | 290.4                          | 35                  | 5500                | 4.0(40)                 | 0.8(8)                                       | 0.29                   | 15.5         |

### 外型尺寸 DIMENSIONS

| Model    | A   | B  | C   | D1  | D2  | E (h7) | F  | G max. | G min. | H   | J   | K        | L         | L1      | L2 | M (H8) | N  |
|----------|-----|----|-----|-----|-----|--------|----|--------|--------|-----|-----|----------|-----------|---------|----|--------|----|
| RL-A75N  | 75  | 15 | 107 | 90  | 90  | 65     | 30 | 45     | 30     | 57  | 166 | M20 x2.5 | 6~M8x 16  | M8x60   | 12 | 21     | 35 |
| RL-A100N | 100 | 20 | 132 | 115 | 100 | 80     | 30 | 45     | 25     | 72  | 181 | M20 x2.5 | 6~M10x20  | M8x75   | 12 | 21     | 35 |
| RL-A125N | 125 | 25 | 160 | 140 | 130 | 110    | 35 | 50     | 25     | 82  | 191 | M24x 3.0 | 6~M12x20  | M8x85   | 12 | 25     | 45 |
| RL-A150N | 150 | 30 | 190 | 170 | 130 | 110    | 45 | 55     | 25     | 95  | 204 | M30x3.5  | 12~M12x24 | M10x100 | 16 | 32     | 45 |
| RL-A200N | 200 | 35 | 245 | 220 | 145 | 120    | 55 | 70     | 35     | 115 | 225 | M36 x4.0 | 12~M16x30 | M10x125 | 21 | 38     | 60 |



- 中心帶通道油壓缸。
  - 可外接單通道或雙通道迴轉接頭，同時滿足氣密檢測及中心出水的需求。
  - 內建逆止閥自鎖機構。
  - 可搭配近接開關或線性位移感測器進行行程控制。
- Center through-hole hydraulic cylinder, suitable for horizontal CNC lathes.
  - Can choose an external rotary joint with either single or double paths.
  - It meets the demand for coolant through spindle and airtight pressure detect function.
  - Has a built-in check valve for safety.
  - Stroke control via proximity switch or linear positioning system.
- 近接開關及外接單通道或雙通道迴轉接頭為選購品。
  - The proximity switch and single or double paths rotating joint are optional.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. piston area |                 | 行程            | 最高迴轉數                      | 最高使用壓力                    | I                 | 重量     |
|-------------|-----------------------|-----------------|---------------|----------------------------|---------------------------|-------------------|--------|
|             | 押側(Extend)            | 拉側(Retract)     | Piston stroke | Max. speed                 | Max. pressure             | Moment of inertia | Weight |
|             | cm <sup>2</sup>       | cm <sup>2</sup> | mm            | min <sup>-1</sup> (r.p.m.) | MPa(kgf/cm <sup>2</sup> ) | kg-m <sup>2</sup> | kg     |
| RC-85       | 43.8                  | 48.1            | 20            | 5000                       | 3.5(35)                   | 0.01              | 6.8    |
| RC-100      | 65.6                  | 64.4            | 20            | 5000                       | 3.5(35)                   | 0.02              | 9.2    |
| RC-125      | 109.8                 | 108.5           | 25            | 5000                       | 3.5(35)                   | 0.03              | 11.1   |
| RC-145      | 152.2                 | 143.9           | 30            | 5000                       | 3.5(35)                   | 0.03              | 14.6   |
| RC-200      | 279.3                 | 273.6           | 35            | 4000                       | 4.0(40)                   | 0.26              | 35.5   |

### 外型尺寸 DIMENSIONS

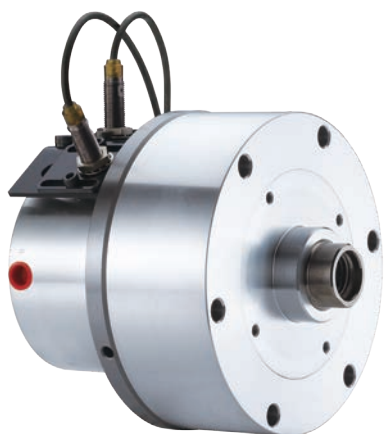
| Model  | A   | B  | C1  | C2  | D   | E (h7) | F  | G1max. | G1min. | G2max. | G2min. | H    | J     | K       |
|--------|-----|----|-----|-----|-----|--------|----|--------|--------|--------|--------|------|-------|---------|
| RC-85  | 85  | 20 | 120 | 116 | 100 | 65     | 30 | 45     | 25     | 28     | 8      | 70   | 150   | M20x1.5 |
| RC-100 | 100 | 20 | 135 | 131 | 115 | 80     | 40 | 45     | 25     | 28     | 8      | 72   | 158.5 | M30x1.5 |
| RC-125 | 125 | 25 | 160 | 156 | 140 | 110    | 40 | 50     | 25     | 33     | 8      | 78   | 164   | M30x1.5 |
| RC-145 | 145 | 30 | 187 | 183 | 165 | 110    | 50 | 55     | 25     | 38     | 8      | 89.5 | 169.5 | M40x1.5 |
| RC-200 | 195 | 35 | 257 | 257 | 225 | 120    | 55 | 73     | 38     | 51.5   | 16.5   | 120  | 222.5 | M36x4.0 |

| Model  | L1        | L2   | M(H8) | M1 | N  | P  | Q   | Q1 | R     | S1 | S2    | T1 | T2    |
|--------|-----------|------|-------|----|----|----|-----|----|-------|----|-------|----|-------|
| RC-85  | 6~M8x75   | 12.5 | 20.5  | 10 | 40 | 14 | 4   | 3  | RC3/8 | 31 | M4x10 | 48 | M5x9  |
| RC-100 | 6~M8x75   | 12.5 | 32    | 10 | 50 | 14 | 4   | 3  | RC3/8 | 31 | M4x10 | 48 | M5x9  |
| RC-125 | 6~M8x80   | 11   | 32    | 10 | 50 | 14 | 4   | 3  | RC3/8 | 31 | M4x10 | 48 | M5x9  |
| RC-145 | 6~M10x90  | 18   | 42    | 12 | 57 | 14 | 4   | 3  | RC3/8 | 31 | M4x10 | 48 | M5x9  |
| RC-200 | 6~M16x130 | 26   | 38    | 12 | 65 | 15 | 6.5 | 4  | RC1/2 | 35 | M4x10 | 60 | M5x11 |

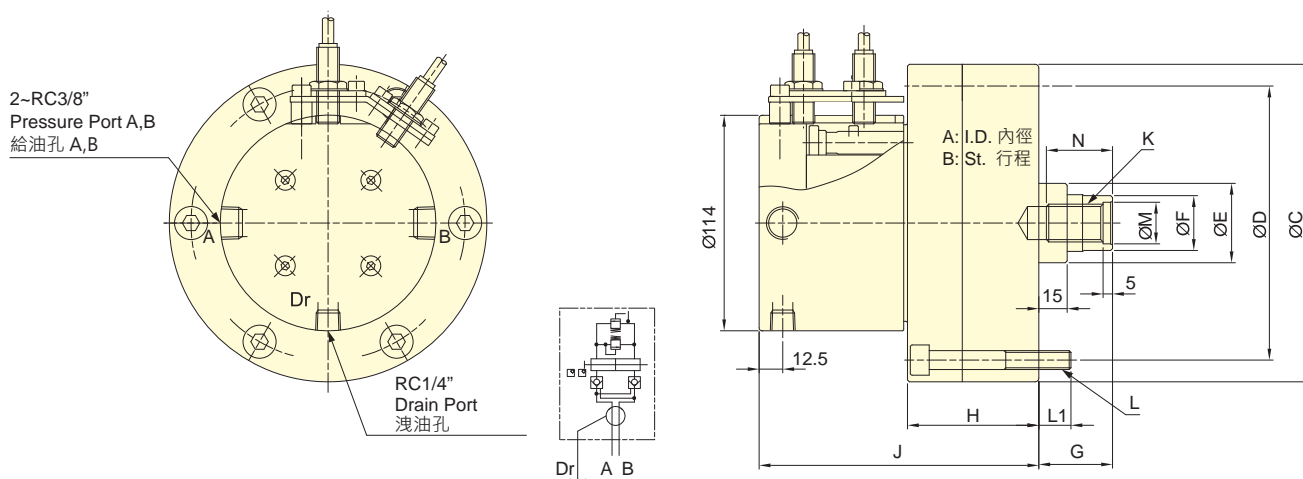


- 迴轉接頭和近接開關安裝型式。
- Rotating joint and Proximity switch with bracket type.

|   |   |  |  |
|---|---|--|--|
| <b>F1</b>   | 固定式 · 單通道<br>With single path rotating joint (Fixed type) | <b>F2</b>  | 固定式 · 雙通道<br>With double paths rotating joint(Fixed type)  |
|   |   |  |  |
| <b>M1</b>   | 移動式 · 單通道<br>With single path rotating joint(Moving type) | <b>M2</b>  | 移動式 · 雙通道<br>With double paths rotating joint(Moving type) |
|   |   |  |  |
| <b>B</b>  | 線性檢知和支架<br>linear Sensor with bracket                     | <b>S</b>   | 近接開關和支架<br>Proximity switch with bracket                   |
|   |   |  |  |
| <ul style="list-style-type: none"> <li>* 近接開關與迴轉接頭是選購品。</li> <li>* 可選擇所合適的附加類型。</li> <li>* 詳細安裝介面尺寸請與聯繫我們。</li> </ul> |   | <ul style="list-style-type: none"> <li>* The proximity switch and rotary joint are optional.</li> <li>* Choose and attach the appropriate type.</li> <li>* Please contact AUTOGRIP for more detailed drawing.</li> </ul> |  |



- 高速・輕量整合型迴轉油壓缸。
- 內建逆止閥自鎖機構・洩壓閥及行程控制近接開關。
- 安裝時可由後端鎖固之。
- For short form, light weight and high speed rotary cylinder.
- Built-in safety check valves, pressure relief valves and proximity sensor.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽・以避免產生背壓。
- 行程檢知機構可修改為線性定位系統機構。(訂製品)
- The drain port should be independently connected to oil tank to avoid back pressure.
- Stroke Detection Type can be customized to Linear Positioning System.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|
|             | 押側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |
| RE-110      | 92.7                          | 87.9                           | 20                  | 6000                | 3.5(35)                 | 0.02                   | 6.9          |
| RE-120      | 110.8                         | 106                            | 21                  | 6000                | 4.0(40)                 | 0.03                   | 8.8          |
| RE-130      | 130.4                         | 123.1                          | 30                  | 6000                | 4.0(40)                 | 0.03                   | 9.1          |

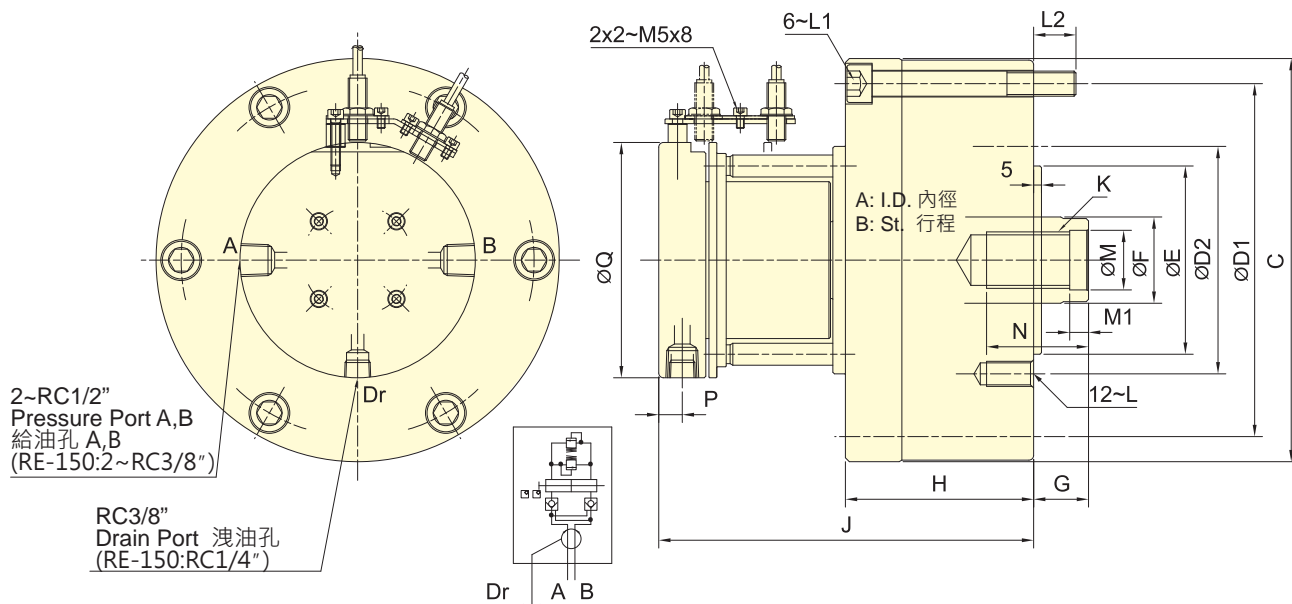
### 外型尺寸 DIMENSIONS

| Model  | A   | B  | C (h7) | D   | E  | F  | G max. | G min. | H    | J   | K       | L        | L1 | M (H8) | N  |
|--------|-----|----|--------|-----|----|----|--------|--------|------|-----|---------|----------|----|--------|----|
| RE-110 | 110 | 20 | 145    | 128 | 42 | 29 | 60     | 40     | 66   | 146 | M20x2.5 | 6~M8x70  | 12 | 22     | 35 |
| RE-120 | 120 | 21 | 168    | 145 | 42 | 29 | 60     | 39     | 69.5 | 148 | M20x2.5 | 6~M10x75 | 17 | 22     | 35 |
| RE-130 | 130 | 30 | 168    | 150 | 50 | 33 | 60     | 30     | 79.5 | 158 | M24x3.0 | 6~M10x85 | 17 | 27     | 40 |

\* 近接開關 : DC 10-30V 100mA NPN \* Proximity sensor : DC 10-30V 100mA NPN.



- 高速・輕量整合型迴轉油壓缸・特別適合使用於立式車床。
- 內建逆止閥自鎖機構・洩壓閥及行程控制近接開關。
- 安裝時可由後端鎖固之。
- For short form, light weight and high speed rotary cylinder, suitable for vertical lathe.
- Built-in safety check valves, pressure relief valves and proximity sensor.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽・以避免產生背壓。
- 行程檢知機構可修改為線性定位系統機構。(訂製品)
- The drain port should be independently connected to oil tank to avoid back pressure.
- Stroke Detection Type can be customized to Linear Positioning System.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|------------------------|--------------|
|             | 伸側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |                        |              |
| RE-150      | 174.4                         | 160.8                          | 30                  | 5500                | 4.0 (40)                | 0.06                   | 14.9         |
| RE-200K     | 292.4                         | 274.9                          | 35                  | 4000                | 4.0 (40)                | 0.19                   | 29.1         |
| RE-200L     | 292.4                         | 265.4                          | 50                  | 4000                | 5.0 (50)                | 0.21                   | 30.4         |
| RE-250      | 465.2                         | 438.2                          | 60                  | 2000                | 5.0 (50)                | 0.43                   | 47.2         |

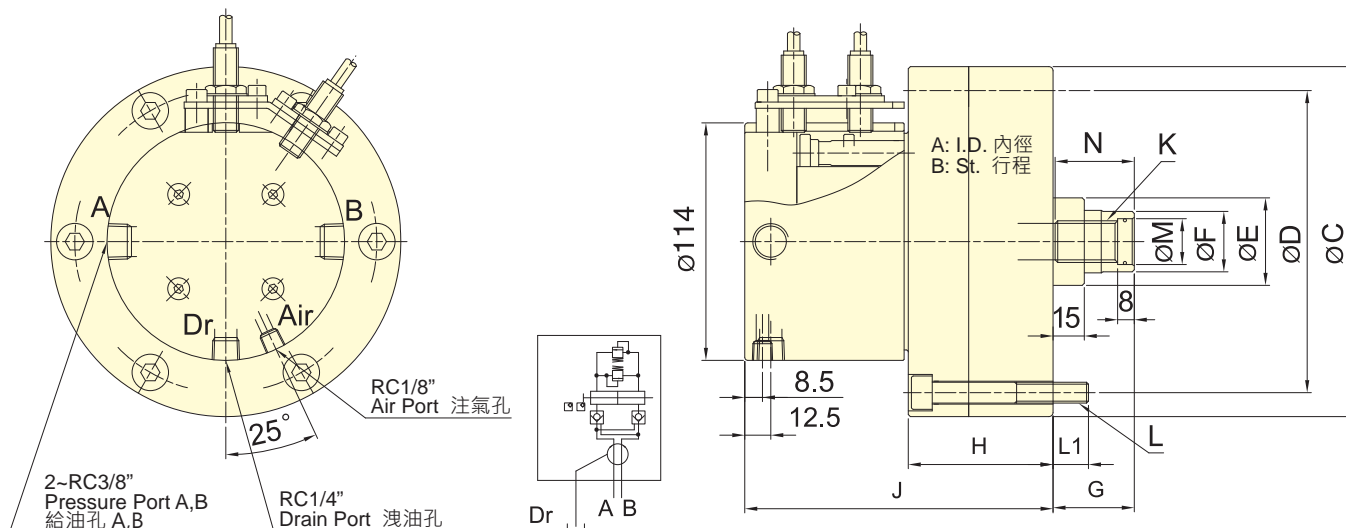
### 外型尺寸 DIMENSIONS

| Model   | A   | B  | C   | D1  | D2  | E (h7) | F  | G max. | G min. | H   | J     | K       | L      | L1      | L2   | M (H8) | M1 | N  | P    | Q   |
|---------|-----|----|-----|-----|-----|--------|----|--------|--------|-----|-------|---------|--------|---------|------|--------|----|----|------|-----|
| RE-150  | 150 | 30 | 205 | 180 | 130 | 110    | 45 | 60     | 30     | 99  | 177.5 | M30x3.5 | M12x24 | M12x105 | 18.5 | 32     | 10 | 50 | 12.5 | 114 |
| RE-200K | 195 | 35 | 257 | 225 | 145 | 120    | 55 | 73     | 38     | 120 | 239   | M36x4.0 | M16x30 | M16x130 | 27   | 38     | 12 | 65 | 15   | 150 |
| RE-200L | 195 | 50 | 257 | 225 | 170 | 125    | 65 | 80     | 30     | 135 | 254   | M42x3.0 | M16x30 | M16x145 | 27   | 45     | 12 | 65 | 15   | 150 |
| RE-250  | 245 | 60 | 307 | 275 | 220 | 160    | 65 | 85     | 25     | 165 | 280   | M42x3.0 | M20x35 | M16x175 | 28   | 45     | 12 | 65 | 15   | 150 |

\* 近接開關 : DC 10-30V 100mA NPN \* Proximity sensor : DC 10-30V 100mA NPN.



- 高速・輕量整合型注氣迴轉油壓缸，可經由後端供給空氣。
- 內建逆止閥自鎖機構，洩壓閥及行程控制近接開關。
- 安裝時可由後端鎖固之。
- For short form, light weight and high speed rotary cylinder. To allow compressed air to be feed from the rear end of the distributor through the rotating union.
- Built-in safety check valves, pressure relief valves and proximity sensor.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓。
- 使用時，請混入微量的油霧。
- 注氣孔無氣體通過時，請勿運轉。
- 行程檢知機構可修改為線性定位系統機構。(訂製品)
- The drain port should be independently connected to oil tank to avoid back pressure.
- When used, a little oil mist should be contained.
- Stroke Detection Type can be customized to Linear Positioning System.
- The rotary cylinder should not run without air passing through the air port.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | 注氣部最高使用壓力<br>Air connection<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|--|------------------------|--------------|
|             | 伸側(Extend)<br>cm <sup>2</sup> | 縮側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |  |                        |              |
| RE-A110     | 91.2                          | 87.9                           | 20                  | 6000                | 4.0(40)                 | 0.8(8)                                       | 0.02                   | 6.9          |
| RE-A120     | 109.3                         | 106                            | 21                  | 6000                | 4.0(40)                 | 0.8(8)                                       | 0.02                   | 8.8          |
| RE-A130     | 128.9                         | 123.1                          | 30                  | 6000                | 4.0(40)                 | 0.8(8)                                       | 0.03                   | 9.1          |

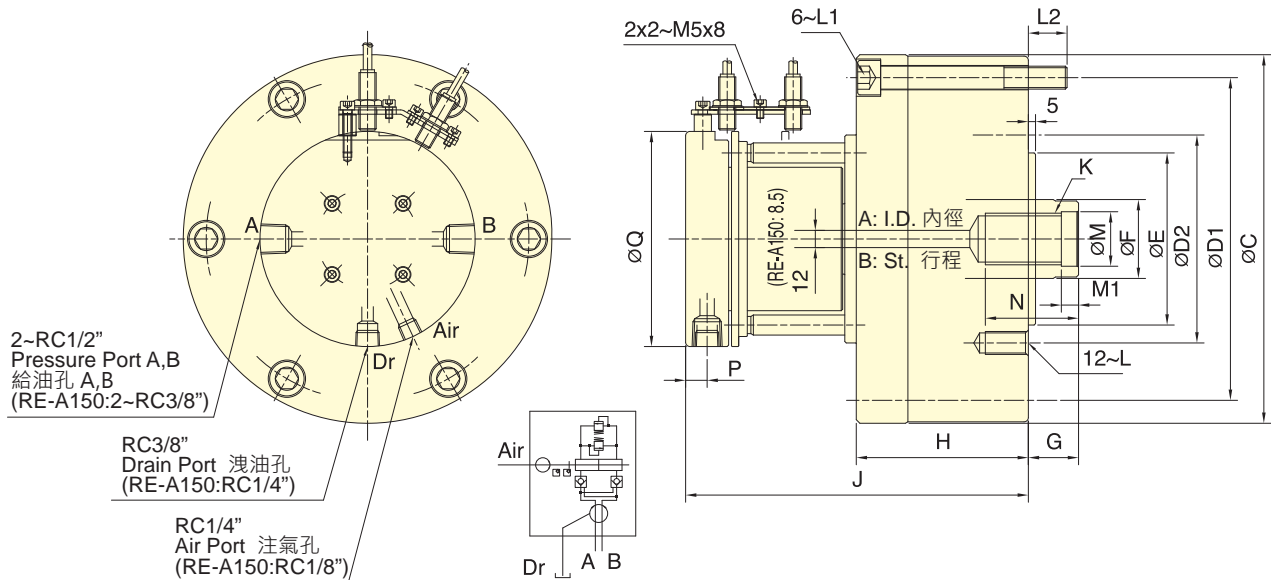
### 外型尺寸 DIMENSIONS

| Model   | A   | B  | C (h7) | D   | E  | F  | G max. | G min. | H    | J   | K       | L        | L1 | M (H8) | N  |
|---------|-----|----|--------|-----|----|----|--------|--------|------|-----|---------|----------|----|--------|----|
| RE-A110 | 110 | 20 | 145    | 128 | 42 | 29 | 60     | 40     | 66   | 146 | M20x2.5 | 6~M8x70  | 12 | 22     | 38 |
| RE-A120 | 120 | 21 | 168    | 145 | 42 | 29 | 60     | 39     | 69.5 | 148 | M20x2.5 | 6~M10x75 | 17 | 22     | 38 |
| RE-A130 | 130 | 30 | 168    | 150 | 50 | 33 | 60     | 30     | 79.5 | 158 | M24x3.0 | 6~M10x85 | 17 | 27     | 43 |

\* 近接開關 : DC 10-30V 100mA NPN \* Proximity sensor : DC 10-30V 100mA NPN.



- 高速・輕量整合型注氣迴轉油壓缸，可經由後端供給空氣。
  - 內建逆止閥自鎖機構，洩壓閥及行程控制近接開關。
  - 安裝時可由後端鎖固之。
  - For short form, light weight and high speed rotary cylinder. To allow compressed air to be feed from the rear end of the distributor through the rotating union.
  - Built-in safety check valves, pressure relief valves and proximity sensor.
  - Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓。
  - 使用時，請混入微量的油霧。
  - 注氣孔無氣體通過時，請勿運轉。
  - 行程檢知機構可修改為線性定位系統機構。(訂製品)
  - The drain port should be independently connected to oil tank to avoid back pressure.
  - When used, a little oil mist should be contained.
  - Stroke Detection Type can be customized to Linear Positioning System.
  - The rotary cylinder should not run without air passing through the air port.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | 注氣部最高使用壓力<br>Air connection Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|---|------------------------|--------------|
|             | 押側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |   |                        |              |
| RE-A150     | 174.4                         | 160.8                          | 30                  | 5500                | 4.0(40)                 | 0.8(8)                                    | 0.06                   | 14.9         |
| RE-A200K    | 292.4                         | 274.9                          | 35                  | 4000                | 4.0(40)                 | 0.8(8)                                    | 0.19                   | 29.1         |
| RE-A200L    | 292.4                         | 265.4                          | 50                  | 4000                | 5.0(50)                 | 0.8(8)                                    | 0.21                   | 30.4         |
| RE-A250     | 465.2                         | 438.2                          | 60                  | 2000                | 5.0(50)                 | 0.8(8)                                    | 0.43                   | 47.2         |

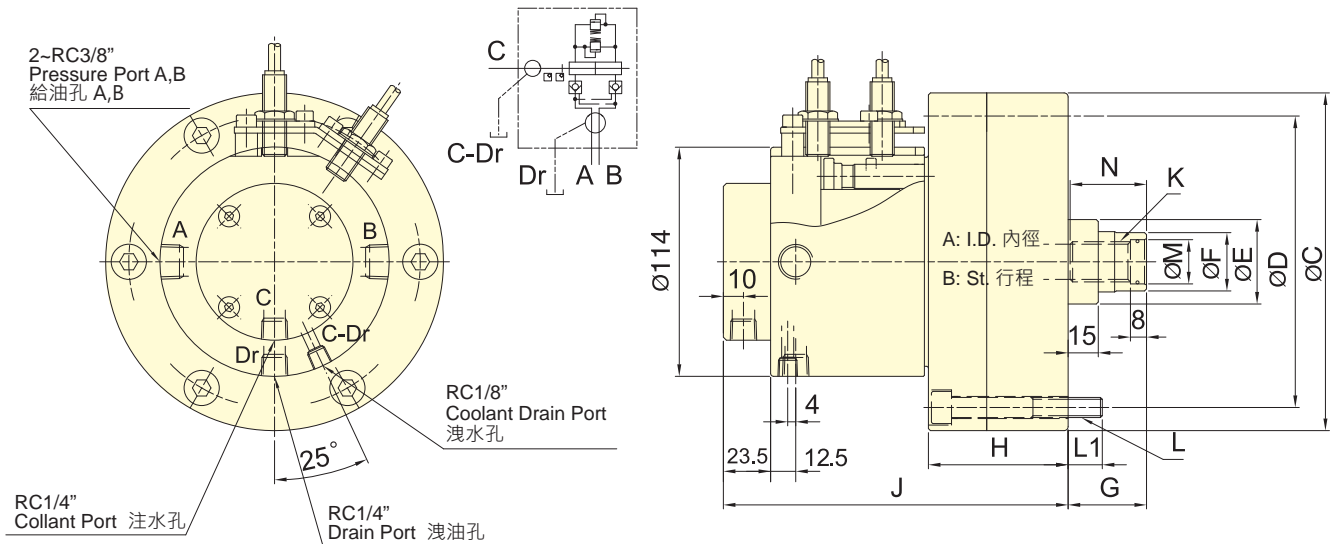
### 外型尺寸 DIMENSIONS

| Model    | A   | B  | C   | D1  | D2  | E (h7) | F  | G max. | G min. | H   | J     | K       | L      | L1      | L2   | M (H8) | M1 | N  | P    | Q   |
|----------|-----|----|-----|-----|-----|--------|----|--------|--------|-----|-------|---------|--------|---------|------|--------|----|----|------|-----|
| RE-A150  | 150 | 30 | 205 | 180 | 130 | 110    | 45 | 60     | 30     | 99  | 177.5 | M30x3.5 | M12x24 | M12x105 | 18.5 | 32     | 10 | 50 | 12.5 | 114 |
| RE-A200K | 195 | 35 | 257 | 225 | 145 | 120    | 55 | 73     | 38     | 120 | 239   | M36x4.0 | M16x30 | M16x130 | 27   | 38     | 12 | 65 | 15   | 150 |
| RE-A200L | 195 | 50 | 257 | 225 | 170 | 125    | 65 | 80     | 30     | 135 | 254   | M42x3.0 | M16x30 | M16x145 | 27   | 45     | 12 | 65 | 15   | 150 |
| RE-A250  | 245 | 60 | 307 | 275 | 220 | 160    | 65 | 85     | 25     | 165 | 280   | M42x3.0 | M20x35 | M16x175 | 28   | 45     | 12 | 65 | 15   | 150 |

\* 近接開關 : DC 10-30V 100mA NPN \* Proximity sensor : DC 10-30V 100mA NPN.



- 高速・輕量整合型注水迴轉油壓缸，可經由後端供給切削水。
- 內建逆止閥自鎖機構・洩壓閥及行程控制近接開關。
- 安裝時可由後端鎖固之。
- For short form, light weight and high speed rotary cylinder. To allow coolant to be feed from the rear end of the distributor through the rotating union.
- Built-in safety check valves, pressure relief valves and proximity sensor.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓。
- 注水孔無液體通過時，請勿運轉。
- 行程檢知機構可修改為線性定位系統機構。(訂製品)
- The drain port should be independently connected to oil tank to avoid back pressure.
- The rotary cylinder should not run without liquid through coolant port.
- Stroke Detection Type can be customized to Linear Positioning System.



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

### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | 注水孔最高使用壓力<br>Coolant connection<br>Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|--|------------------------|--------------|
|             | 押側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |  |                        |              |
| RE-L110     | 92.7                          | 87.9                           | 20                  | 6000                | 4.0(40)                 | 1.5(15)  | 0.02                   | 7.2          |
| RE-L120     | 109.3                         | 106                            | 21                  | 6000                | 4.0(40)                 | 1.5(15)  | 0.03                   | 9.1          |
| RE-L130     | 128.9                         | 123.1                          | 30                  | 6000                | 4.0(40)                 | 1.5(15)  | 0.03                   | 9.5          |

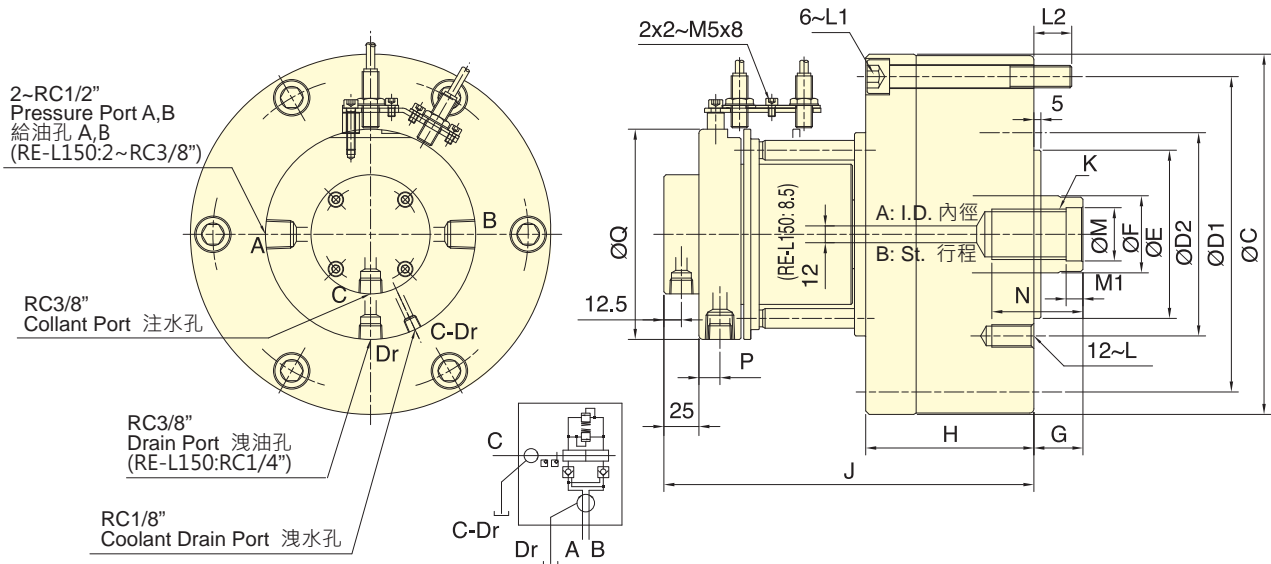
### 外型尺寸 DIMENSIONS

| Model   | A   | B  | C<br>(h7) | D   | E  | F  | G<br>max. | G<br>min. | H    | J     | K       | L        | L1 | M<br>(H8) | N  |
|---------|-----|----|-----------|-----|----|----|-----------|-----------|------|-------|---------|----------|----|-----------|----|
| RE-L110 | 110 | 20 | 145       | 128 | 42 | 29 | 60        | 40        | 66   | 169.5 | M20x2.5 | 6~M8x70  | 12 | 22        | 38 |
| RE-L120 | 120 | 21 | 168       | 145 | 42 | 29 | 60        | 39        | 69.5 | 171.5 | M20x2.5 | 6~M10x75 | 17 | 22        | 38 |
| RE-L130 | 130 | 30 | 168       | 150 | 50 | 33 | 60        | 30        | 79.5 | 181.5 | M24x3.0 | 6~M10x85 | 17 | 27        | 43 |

\* 近接開關 : DC 10-30V 100mA NPN \* Proximity sensor : DC 10-30V 100mA NPN.



- 高速・輕量整合型注水迴轉油壓缸，可經由後端供給切削水，特別適合使用於立式車床。
- 內建逆止閥自鎖機構，洩壓閥及行程控制近接開關。
- 安裝時可由後端鎖固之。
- For short form, light weight and high speed rotary cylinder. To allow coolant to be feed from the rear end of the distributor through the rotating union, suitable for vertical lathe.
- Built-in safety check valves, pressure relief valves and proximity sensor.
- Can screw it from the rear end of the cylinder when mounting.
- 洩油孔配管務必單獨接回油壓槽，以避免產生背壓。
- 注水孔無液體通過時，請勿運轉。
- 行程檢知機構可修改為線性定位系統機構。(訂製品)
- The drain port should be independently connected to oil tank to avoid back pressure.
- The rotary cylinder should not run without liquid through coolant port.
- Stroke Detection Type can be customized to Linear Positioning System.



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

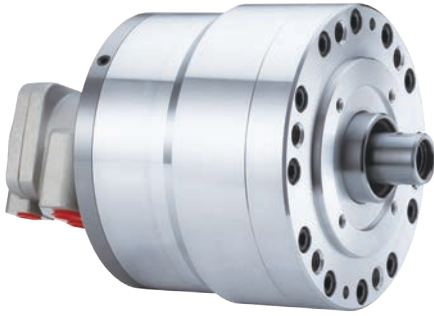
### 技術規格 SPECIFICATIONS

| 型號<br>Model | 活塞面積 Eff. piston area         |                                | 行程<br>Piston stroke | 最高迴轉數<br>Max. speed | 最高使用壓力<br>Max. pressure | 注水孔最高使用壓力<br>Coolant connection Max. pressure | I<br>Moment of inertia | 重量<br>Weight |
|-------------|-------------------------------|--------------------------------|---------------------|---------------------|-------------------------|---|------------------------|--------------|
|             | 伸側(Extend)<br>cm <sup>2</sup> | 拉側(Retract)<br>cm <sup>2</sup> |                     |                     |                         |   |                        |              |
| RE-L150     | 174.4                         | 160.8                          | 30                  | 5500                | 4.0(40)                 | 1.5(15)                                       | 0.06                   | 15.2         |
| RE-L200K    | 292.4                         | 274.9                          | 35                  | 4000                | 4.0(40)                 | 1.5(15)                                       | 0.19                   | 29.4         |
| RE-L200L    | 292.4                         | 265.4                          | 50                  | 4000                | 5.0(50)                 | 1.5(15)                                       | 0.21                   | 30.7         |
| RE-L250     | 465.2                         | 438.2                          | 60                  | 2000                | 5.0(50)                 | 1.5(15)                                       | 0.43                   | 47.5         |

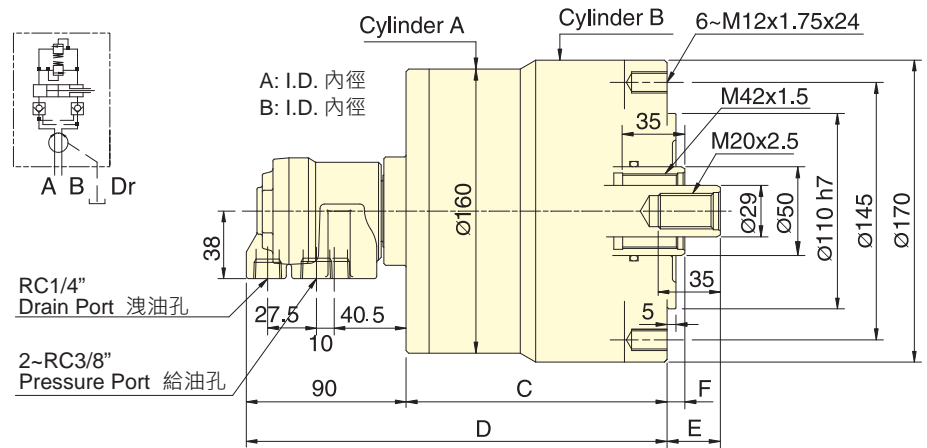
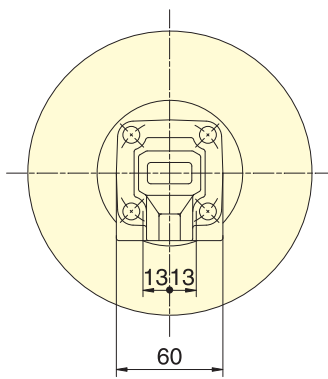
### 外型尺寸 DIMENSIONS

| Model    | A   | B  | C   | D1  | D2  | E (h7) | F  | G max. | G min. | H   | J   | K       | L      | L1      | L2   | M (H8) | M1 | N  | P    | Q   |
|----------|-----|----|-----|-----|-----|--------|----|--------|--------|-----|-----|---------|--------|---------|------|--------|----|----|------|-----|
| RE-L150  | 150 | 30 | 205 | 180 | 130 | 110    | 45 | 60     | 30     | 99  | 201 | M30x3.5 | M12x24 | M12x105 | 18.5 | 32     | 10 | 50 | 12.5 | 114 |
| RE-L200K | 195 | 35 | 257 | 225 | 145 | 120    | 55 | 73     | 38     | 120 | 264 | M36x4.0 | M16x30 | M16x130 | 27   | 38     | 12 | 65 | 15   | 150 |
| RE-L200L | 195 | 50 | 257 | 225 | 170 | 125    | 65 | 80     | 30     | 135 | 279 | M42x3.0 | M16x30 | M16x145 | 27   | 45     | 12 | 65 | 15   | 150 |
| RE-L250  | 245 | 60 | 307 | 275 | 220 | 160    | 65 | 85     | 25     | 165 | 305 | M42x3.0 | M20x35 | M16x175 | 28   | 45     | 12 | 65 | 15   | 150 |

\* 近接開關 : DC 10-30V 100mA NPN · \*Proximity sensor : DC 10-30V 100mA NPN.



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



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

### 技術規格 SPECIFICATIONS

| 型號            | 活塞面積 Eff. piston area |                 |                 |                 | 行程            | 最高迴轉數                      | 最高使用壓力                    | I                 | 重量     |
|---------------|-----------------------|-----------------|-----------------|-----------------|---------------|----------------------------|---------------------------|-------------------|--------|
|               | 伸側(Extend)            |                 | 縮側(Retract)     |                 |               |                            |                           |                   |        |
| Model         | A                     | B               | A               | B               | Piston stroke | Max. speed                 | Max. pressure             | Moment of inertia | Weight |
|               | cm <sup>2</sup>       | cm <sup>2</sup> | cm <sup>2</sup> | cm <sup>2</sup> | mm            | min <sup>-1</sup> (r.p.m.) | MPa(kgf/cm <sup>2</sup> ) | kg·m <sup>2</sup> | kg     |
| <b>RD-120</b> | 122.7                 | 126.1           | 116.1           | 113.1           | 20            | 5000                       | 3.0(30)                   | 0.14              | 11.3   |
| <b>RD-125</b> | 122.7                 | 126.1           | 116.1           | 113.1           | 25            | 5000                       | 3.0(30)                   | 0.15              | 11.5   |

### 外型尺寸 DIMENSIONS

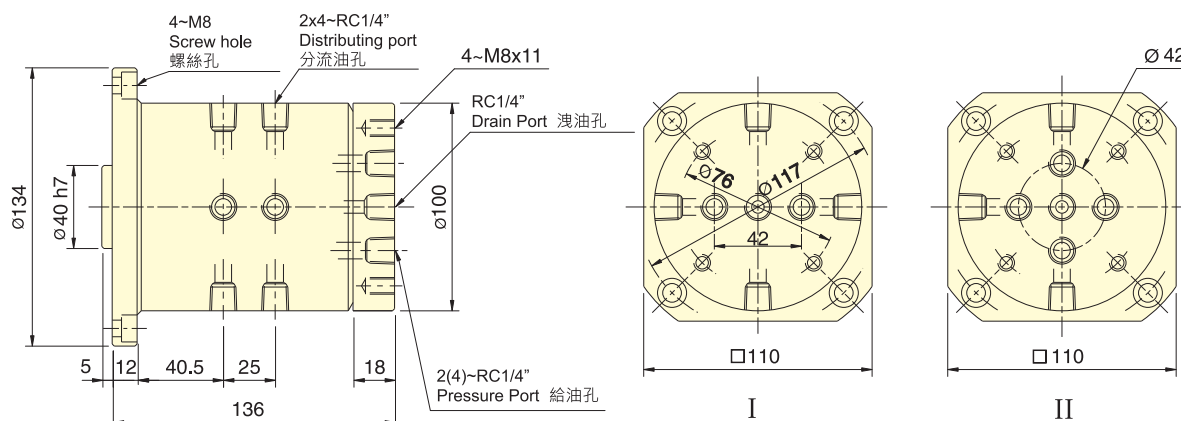
| Model         | A   | B   | C   | D   | E max. | E min. | F max. | F min. |
|---------------|-----|-----|-----|-----|--------|--------|--------|--------|
| <b>RD-120</b> | 125 | 130 | 137 | 227 | 60     | 40     | 35     | 15     |
| <b>RD-125</b> | 125 | 130 | 147 | 237 | 55     | 30     | 35     | 10     |







- 迴轉工作台上夾治具空油壓缸用迴轉分流閥。
- 迴轉閥內部經特殊設計，使得迴轉軸可輕力轉動，且不虞漏油。
- I型為一迴路，同時控制開夾動作。
- II型為二迴路，可分別控制開夾動作。
- Rotary valve is used for clamping cylinder on rotary table.
- Through unique design, it can make the rotary housing be rotated light force and is free from oil leaking.
- I Type is a single circuit which controls the clamping.
- II Type is a double circuit which separately controls the clamping.
- RV 型式的洩油孔配管務必單獨接回油槽，以避免產品背壓。
- The drain port of RV type should be independently connected to oil tank to avoid back pressure.

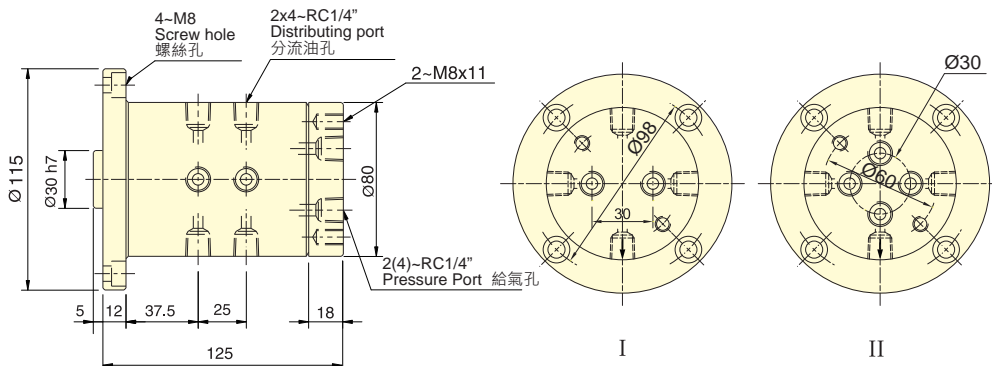


保留規格修改的權利  
Subject to technical changes

### 技術規格 SPECIFICATIONS

| 型號     | 分流數          | 最高使用壓力                                     | 重量            |
|--------|--------------|--|---------------|
| Model  | Distributing | Max. pressure<br>MPa(kgf/cm <sup>2</sup> ) | Weight<br>kgs |
| RV-31H | 4 向 (可訂製)    | 4.0(40)                                    | 7.4           |

註:RV 可提供客製。(Note:RV can be custom-made.)



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

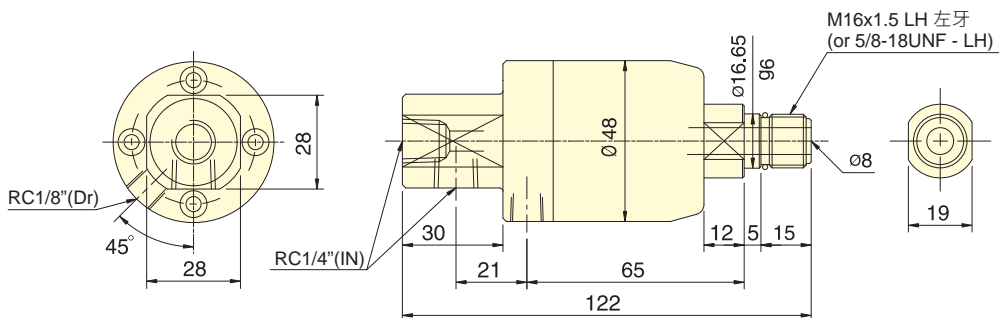
### 技術規格 SPECIFICATIONS

| 型號      | 分流數          | 最高使用壓力                                     | 重量            |
|---------|--------------|--|---------------|
| Model   | Distributing | Max. pressure<br>MPa(kgf/cm <sup>2</sup> ) | Weight<br>kgs |
| RV-A31H | 4 向 (可訂製)    | 0.8(8)                                     | 4.8           |

註:RV-A 可提供客製。(Note:RV-A can be custom-made.)



- 高轉速·高壓力用冷卻液迴轉接頭。
  - 內部止水閥使用超硬合金及精密陶瓷相配對·耐磨耗特性佳。
  - Coolant joint for high speed, high pressure. Usable for oil and water-soluble coolant.
  - Seal bushing inside is made of cemented carbide and ceramics, which provide higher wear-resistance.
- 注水部無流體通過時·請勿運轉。
  - The joint should not run without liquid through coolant port.



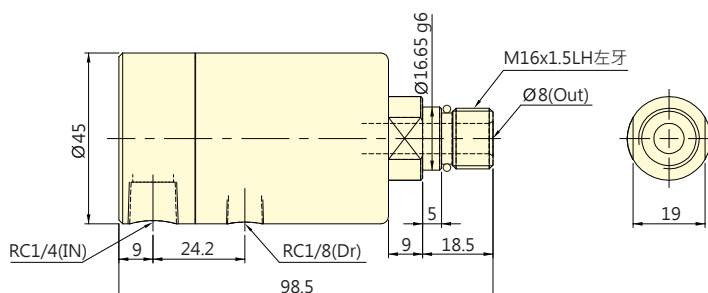
保留規格修改的權利 Subject to technical changes

### 技術規格 SPECIFICATIONS

| 型號           | PV限制值 MPa·r/m          | 最高使用壓力MPa(kgf/cm <sup>2</sup> )         | 吐油量(使用壓力 50 kgf/cm <sup>2</sup> )            | 最高使用迴轉數(r.p.m.)     | 重量(kg)      |
|--------------|------------------------|---|--|---------------------|-------------|
| Model        | PV Limit value MPa·r/m | Max. pressure MPa(kgf/cm <sup>2</sup> ) | Delivery amount (at 50 kgf/cm <sup>2</sup> ) | Max. speed (r.p.m.) | Weight (kg) |
| <b>RJ-80</b> | 14400                  | 6.0(60)                                 | 28 l/min                                     | 8000                | 0.5         |



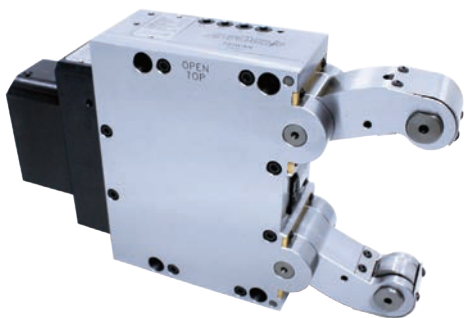
- 外型長度精短·重量輕巧。
  - 高轉數·高壓力用冷卻液迴轉接頭。
  - 內部止水閥使用超硬合金及精密陶瓷相配對·耐磨耗性特佳。
  - 運轉時如無流體通過·則止水閥自動脫離·使止水閥不致乾磨而損壞。
  - Short form, light weight coolant rotating joint.
  - Coolant joint for high speed, high pressure. Usable for oil and water-soluble coolant.
  - Seal bushing inside is made of cemented carbide and ceramics, which provide higher wear-resistance.
  - The seal will depart automatically if no liquid passes during operation, and will not be damaged due to dry touching.
- 最小啟動壓力 4kgf/cm<sup>2</sup>。
  - Min. pressure is 4kgf/cm<sup>2</sup>.



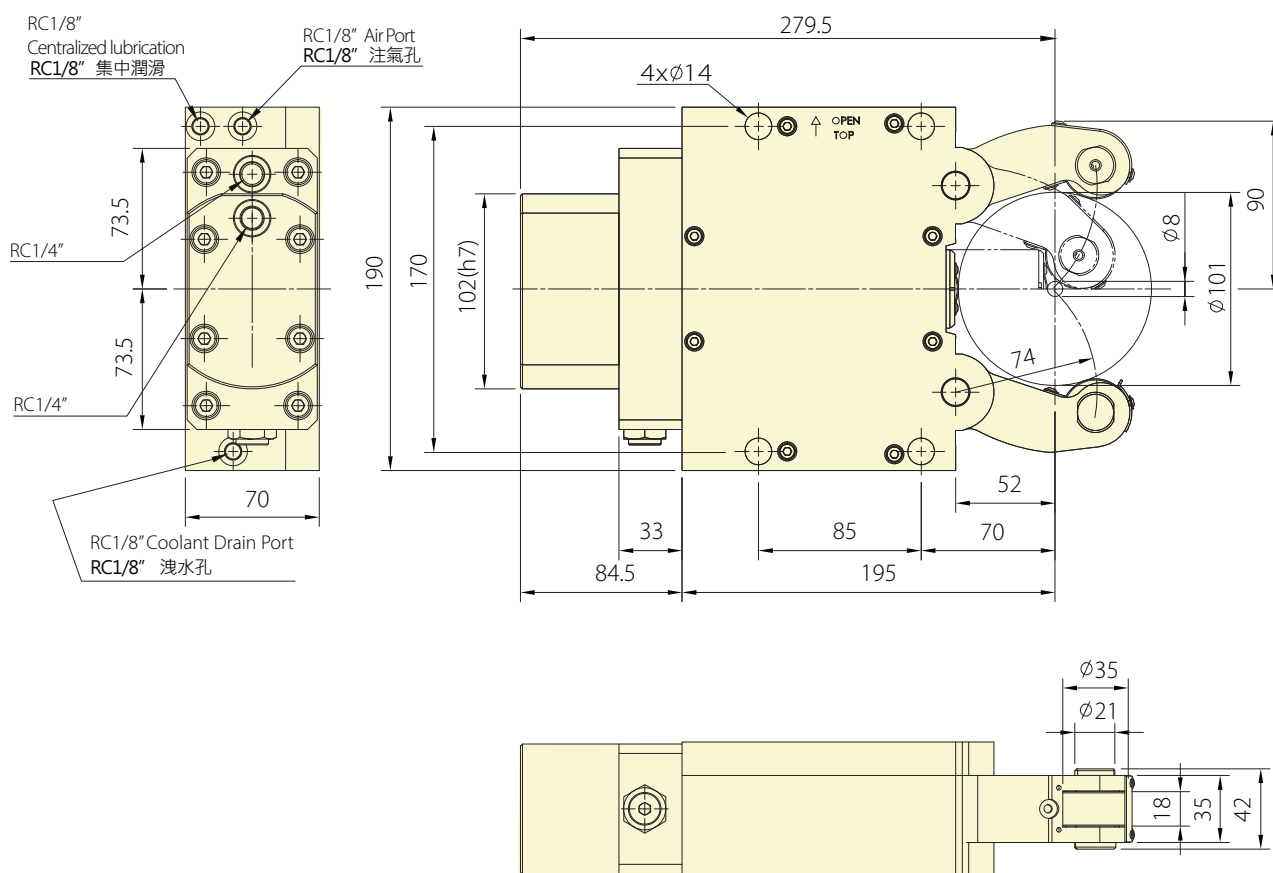
保留規格修改的權利 Subject to technical changes

### 技術規格 SPECIFICATIONS

| 型號           | PV限制值 MPa·r/m          | 最高使用壓力 MPa(kgf/cm <sup>2</sup> )        | 吐油量(使用壓力 50 kgf/cm <sup>2</sup> )            | 最高使用迴轉數(r.p.m.)     | 最小啟動壓力 MPa(kgf/cm <sup>2</sup> )        | 重量(kg)      |
|--------------|------------------------|---|--|---------------------|---|-------------|
| Model        | PV Limit value MPa·r/m | Max. pressure MPa(kgf/cm <sup>2</sup> ) | Delivery amount (at 50 kgf/cm <sup>2</sup> ) | Max. speed (r.p.m.) | Min. pressure MPa(kgf/cm <sup>2</sup> ) | Weight (kg) |
| <b>RJ-92</b> | 17500                  | 7.0(70)                                 | 28 l/min                                     | 10000               | 0.4(4)                                  | 0.46        |



- 大夾持力與高同心度。
  - 封閉式主體設計。
  - 中央潤滑- 潤滑脂/ 油/ 油+ 空氣
  - 內建逆止閥自鎖機構。
  - 壓縮空氣防水防切屑設計，加工中切屑不易進入主體內。
  - 切削擋屑裝置。
- High Clamping Force and High Concentricity.
  - Enclosed Main Body Design.
  - Central Lubrication: Grease/Oil/Oil + Air.
  - Built-in Check Valve Locking Mechanism.
  - Compressed Air Waterproof and Chip-Resistant Design: Prevents chips from entering the main body during machining.
  - Chip Guarding Device.



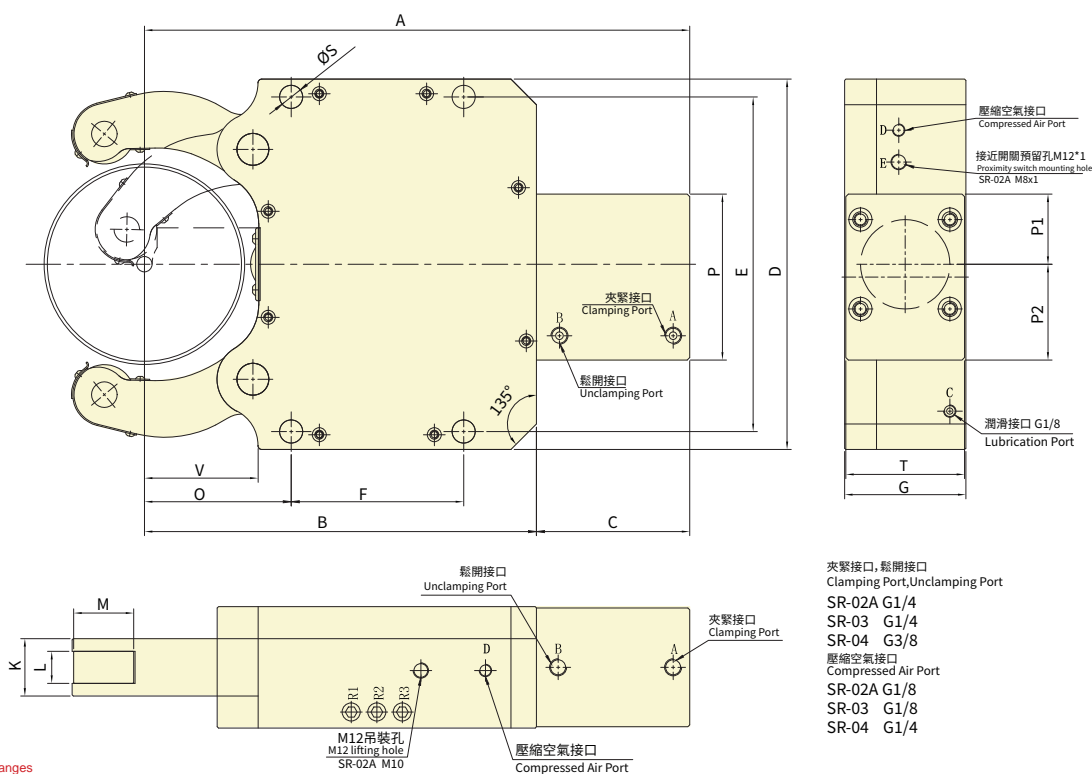
保留規格修改的權利  
Subject to technical changes

### 技術規格 SPECIFICATIONS

| 型號           | 活塞面積             | 夾持直徑 |      | 最大夾持力               | 滾輪最大線速度                   | 最大使用壓力        | 定心精度              | 重複精度            | 夾持重量            | 重量     |
|--------------|------------------|------|------|---------------------|---------------------------|---------------|-------------------|-----------------|-----------------|--------|
|              |                  | 最大   | 最小   |                     |                           |               |                   |                 |                 |        |
| Model        | Eff. piston area | Max. | Min. | Max. clamping force | Max. roller surface speed | Max. pressure | Clamping accuracy | Repeat accuracy | clamping weight | Weight |
|              | cm <sup>2</sup>  | mm   | mm   | kN (kgf)            | M/min.                    | bar           | mm                | mm              | kg              | kg     |
| <b>SR-02</b> | 19.6             | 101  | 8    | 4.5(459)            | 800                       | 70            | 0.002             | 0.005           | 450             | 17.3   |



- 大夾持力與高同心度。
  - 封閉式主體設計。
  - 中央潤滑- 潤滑脂/ 油/ 油+ 空氣
  - 內建逆止閥自鎖機構。
  - 壓縮空氣防水防切屑設計，加工中切屑不易進入主體內。
  - 切削擋屑裝置。
- High Clamping Force and High Concentricity.
  - Enclosed Main Body Design.
  - Central Lubrication: Grease/Oil/Oil + Air.
  - Built-in Check Valve Locking Mechanism.
  - Compressed Air Waterproof and Chip-Resistant Design: Prevents chips from entering the main body during machining.
  - Chip Guarding Device.



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

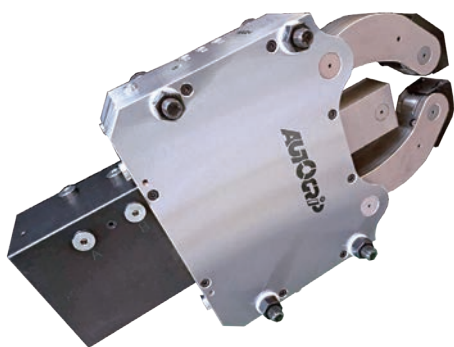
### 技術規格 SPECIFICATIONS

| 型號     | 活塞面積             | 夾持直徑 |      | 最大夾持力               | 滾輪最大線速度                   | 最大使用壓力        | 定心精度              | 重複精度            | 夾持重量            | 重量     |
|--------|------------------|------|------|---------------------|---------------------------|---------------|-------------------|-----------------|-----------------|--------|
|        |                  | 最大   | 最小   |                     |                           |               |                   |                 |                 |        |
| Model  | Eff. piston area | Max. | Min. | Max. clamping force | Max. roller surface speed | Max. pressure | Clamping accuracy | Repeat accuracy | clamping weight | Weight |
|        | cm <sup>2</sup>  | mm   | mm   | kN (kgf)            | M/min.                    | bar           | mm                | mm              | kg              | kg     |
| SR-02A | 19.6             | 102  | 8    | 4.59(468)           | 900                       | 30            | 0.02              | 0.005           | 459             | 19     |
| SR-03  | 38.5             | 152  | 12   | 10.2(1040)          | 750                       | 60            | 0.02              | 0.005           | 1000            | 39     |
| SR-04  | 63.5             | 245  | 30   | 15(1529)            | 760                       | 75            | 0.05              | 0.007           | 1500            | 98     |

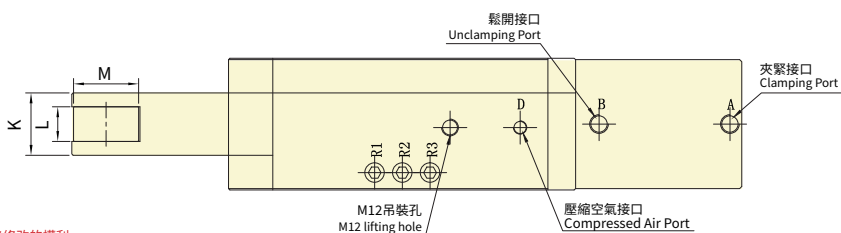
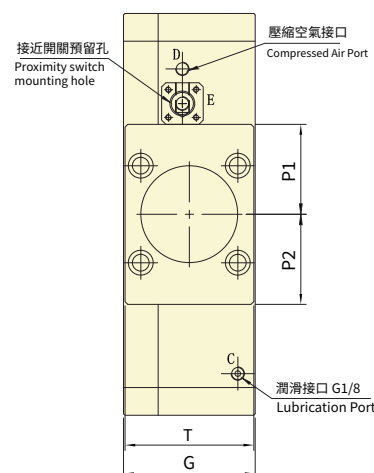
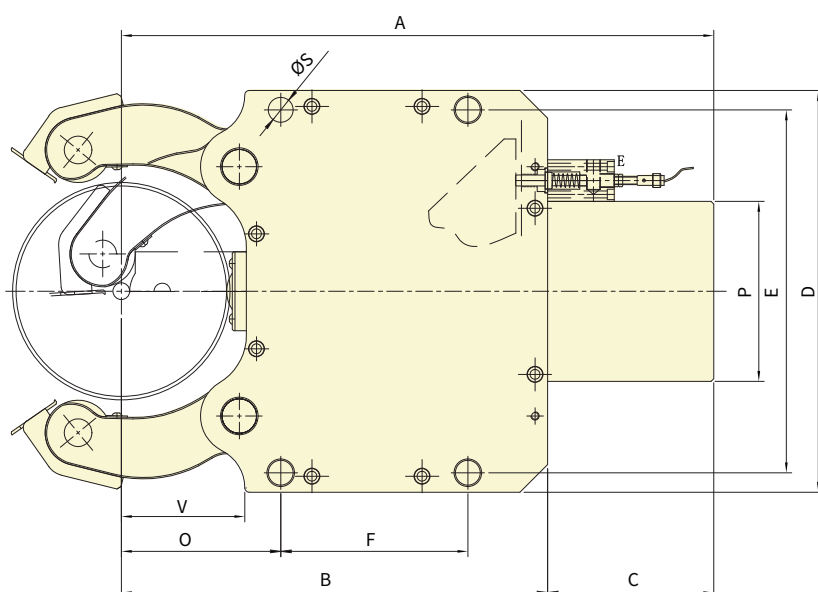
### 外型尺寸 DIMENSIONS

| Model  | A   | B   | C   | D   | E   | F   | G   | O   |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|
| SR-02A | 279 | 197 | 82  | 205 | 170 | 85  | 70  | 70  |
| SR-03  | 427 | 307 | 120 | 290 | 262 | 135 | 95  | 115 |
| SR-04  | 603 | 448 | 155 | 405 | 365 | 240 | 110 | 146 |

| Model  | K  | L                  |        | M                     |        | P  | P1 | P2  | S   | T | V |
|--------|----|--------------------|--------|-----------------------|--------|----|----|-----|-----|---|---|
|        |    | (Width of rollers) | (滾輪厚度) | (Diameter of rollers) | (滾輪直徑) |    |    |     |     |   |   |
| SR-02A | 35 | 19                 | 35     | 102                   | 51     | 51 | 14 | 68  | 54  |   |   |
| SR-03  | 45 | 25                 | 47     | 130                   | 55     | 75 | 18 | 93  | 89  |   |   |
| SR-04  | 60 | 25                 | 52     | 150                   | 75     | 75 | 23 | 105 | 128 |   |   |



- 精密型。
  - 本體全密封、低維護。
  - 可編程、自動化產線使用。
  - 帶噴水/氣防鐵屑(選配)、冷卻功能。
  - 範圍：12-245mm。
- Precision Type.
  - Sealed body design for low maintenance.
  - Programmable, suitable for automated assembly lines.
  - Equipped with water/air sprays for debris, coolant-proof, and chip-proof.
  - Range: 12-245mm.



夾緊接口, 鬆開接口  
Clamping Port, Unclamping Port  
SRR-03 G1/4  
SRR-04 G3/8

壓縮空氣接口  
Compressed Air Port  
SRR-03 G1/8  
SRR-04 G1/4

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

### 技術規格 SPECIFICATIONS

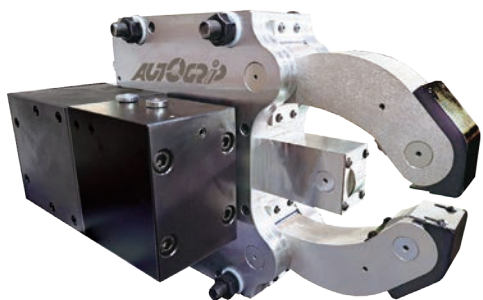
| 型號            | 活塞面積             | 夾持直徑<br>Chuckling Dia. |            | 最大夾持力                  | 滾輪最大線速度                      | 最大使用壓力        | 定心精度                 | 重複精度               | 夾持重量               | 重量     |
|---------------|------------------|------------------------|------------|------------------------|------------------------------|---------------|----------------------|--------------------|--------------------|--------|
| Model         | Eff. piston area | 最大<br>Max.             | 最小<br>Min. | Max. clamping<br>force | Max. roller<br>surface speed | Max. pressure | Clamping<br>accuracy | Repeat<br>accuracy | clamping<br>weight | Weight |
|               | cm <sup>2</sup>  | mm                     | mm         | kN (kgf)               | M/min.                       | bar           | mm                   | mm                 | kg                 | kg     |
| <b>SRR-03</b> | 38.5             | 152                    | 12         | 10.2(1040)             | 750                          | 65            | 0.04                 | 0.007              | 1000               | 39     |
| <b>SRR-04</b> | 63.5             | 245                    | 30         | 15(1529)               | 760                          | 60            | 0.05                 | 0.007              | 1500               | 98     |

### 外型尺寸 DIMENSIONS

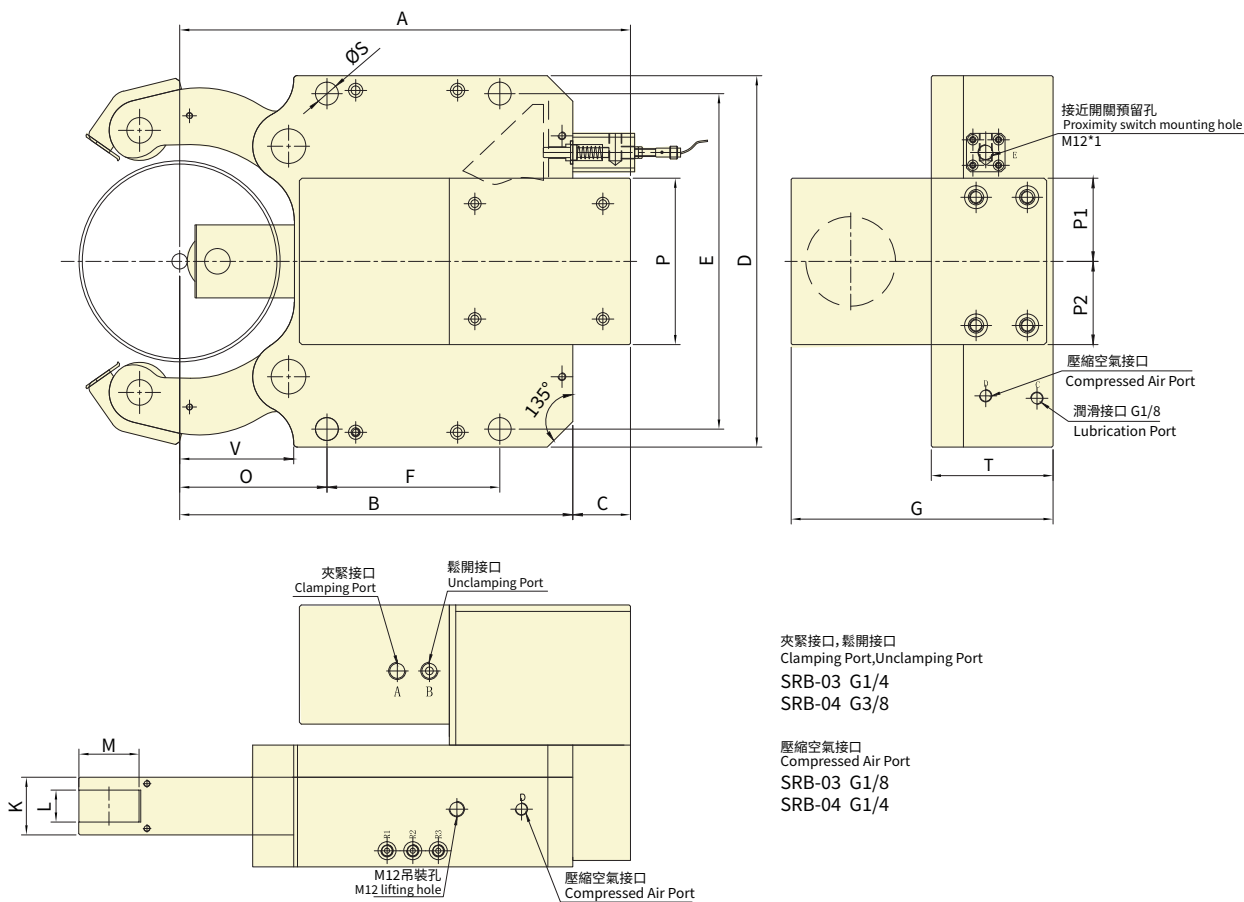
| Model         | A   | B   | C   | D   | E   | F   | G   | O   |
|---------------|-----|-----|-----|-----|-----|-----|-----|-----|
| <b>SRR-03</b> | 427 | 307 | 120 | 290 | 262 | 135 | 95  | 115 |
| <b>SRR-04</b> | 603 | 448 | 155 | 405 | 365 | 240 | 110 | 146 |

| Model         | K  | L<br>(Width of rollers)<br>(滾輪厚度) | M<br>(Diameter of rollers)<br>(滾輪直徑) | P   | P1 | P2 | S  | T   | V   |
|---------------|----|-----------------------------------|--------------------------------------|-----|----|----|----|-----|-----|
| <b>SRR-03</b> | 45 | 25                                | 47                                   | 130 | 65 | 65 | 18 | 93  | 89  |
| <b>SRR-04</b> | 60 | 25                                | 52                                   | 150 | 75 | 75 | 23 | 105 | 128 |



- 油缸側置中心架。
  - 本體全密封、低維護。
  - 帶噴水/氣防鐵屑(選配)、冷卻功能。
  - 尺寸小、結構緊湊。
  - 範圍：12-245mm。
- Side-Mounted Hydraulic Cylinder Steady Rest.
  - Fully Sealed Body, Low Maintenance.
  - Optional Water/Air Jet for Chip Removal and Cooling Functionality.
  - Compact Size and Structure.
  - Range: 12-245 mm.



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

### 技術規格 SPECIFICATIONS

| 型號            | 活塞面積             | 夾持直徑 |      | 最大夾持力               | 滾輪最大線速度                   | 最大使用壓力        | 定心精度              | 重複精度            | 夾持重量            | 重量     |
|---------------|------------------|------|------|---------------------|---------------------------|---------------|-------------------|-----------------|-----------------|--------|
|               |                  | 最大   | 最小   |                     |                           |               |                   |                 |                 |        |
| Model         | Eff. piston area | Max. | Min. | Max. clamping force | Max. roller surface speed | Max. pressure | Clamping accuracy | Repeat accuracy | clamping weight | Weight |
|               | cm <sup>2</sup>  | mm   | mm   | kN (kgf)            | M/min.                    | bar           | mm                | mm              | kg              | kg     |
| <b>SRB-03</b> | 38.5             | 152  | 12   | 10(1019)            | 850                       | 55            | 0.04              | 0.007           | 1000            | 44     |
| <b>SRB-04</b> | 63.5             | 245  | 30   | 15(1529)            | 750                       | 75            | 0.05              | 0.007           | 1500            | 115    |

### 外型尺寸 DIMENSIONS

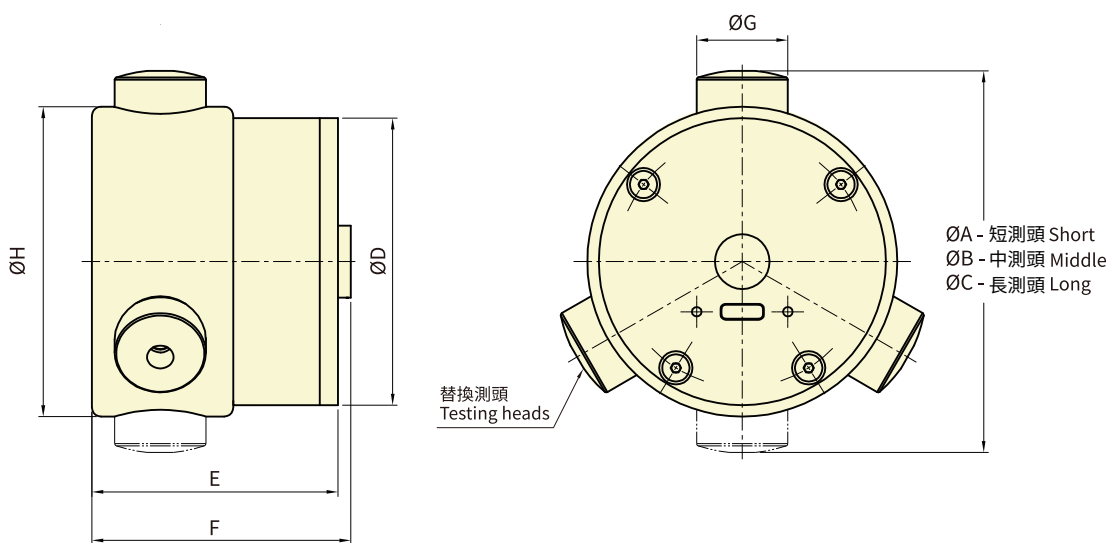
| Model         | A   | B   | C  | D   | E   | F   | G     | O   |
|---------------|-----|-----|----|-----|-----|-----|-------|-----|
| <b>SRB-03</b> | 352 | 307 | 45 | 290 | 262 | 135 | 204.5 | 115 |
| <b>SRB-04</b> | 480 | 448 | 32 | 405 | 365 | 240 | 245   | 146 |

| Model         | K  | L<br>(Width of rollers)<br>(滾輪厚度) | M<br>(Diameter of rollers)<br>(滾輪直徑) | P   | P1 | P2 | S  | T   | V   |
|---------------|----|-----------------------------------|--------------------------------------|-----|----|----|----|-----|-----|
| <b>SRB-03</b> | 45 | 25                                | 47                                   | 130 | 65 | 65 | 18 | 95  | 89  |
| <b>SRB-04</b> | 60 | 25                                | 52                                   | 150 | 75 | 75 | 23 | 110 | 128 |



- 藍牙 5.0 傳輸穩定：擁有最新的藍牙 5.0 技術，確保無線連接的穩定性。
- Type-C 充電便利：支援 Type-C 充電，讓充電更加便捷。
- 高性能鋰電池：提供更長的續航時間，讓您在工作中無需擔心電量問題。
- 支援 Android 和 iOS：無論您使用的是 Android 還是 iOS 系統，GFS-100 都能夠完美兼容，讓您無縫體驗。
- 可配置 2 爪或 3 爪操作：根據您的實際需求，GFS-100 可以輕鬆配置為 2 爪或 3 爪操作，提供更大的彈性。
- 注意：第一代夾持力感測器 (GFS-100) 和第二代的夾持力感測器 (GFS-100) APP 不能共用。
- iOS 系統：Apple iOS 16.1.2 版本以上。Android 系統：Android 12 版本或以上。
- Stable Bluetooth 5.0 Transmission: Equipped with the latest Bluetooth 5.0 technology, ensuring stability in wireless connections.
- Convenient Type-C Charging: Supports Type-C charging for added convenience in recharging.
- High-Performance Lithium Battery: Provides a longer-lasting battery life, eliminating concerns about power during work.
- Supports Android and iOS: Whether you use Android or iOS systems, the GFS-100 is perfectly compatible, offering a seamless experience.
- Configurable for 2-Jaw or 3-Jaw Operation: Based on your specific needs, the GFS-100 can easily be configured for either 2-jaw or 3-jaw operation, providing greater flexibility.
- Note: The first-generation gripping force sensor (GFS-100) and the second-generation gripping force sensor (GFS-100) APP are not compatible and cannot be used interchangeably.
- iOS System: Apple iOS 16.1.2. Android System: Android version 12.



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

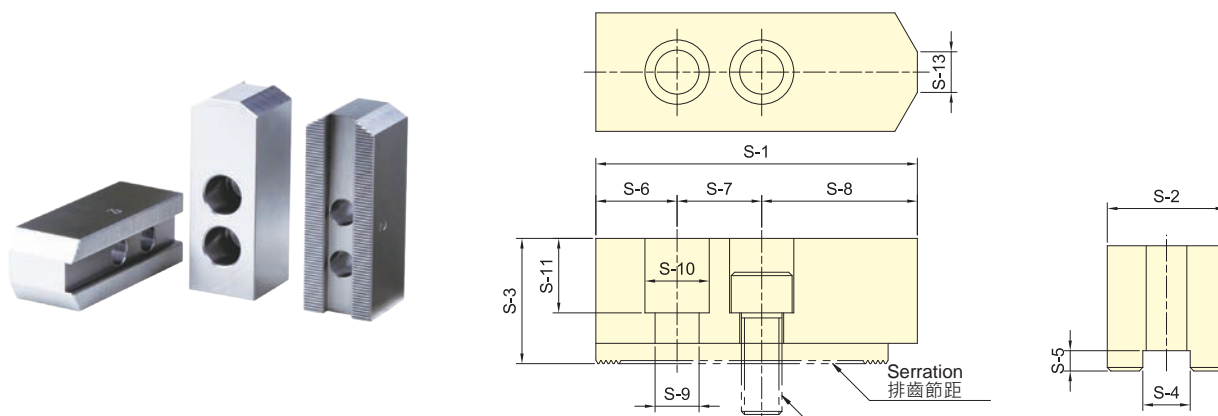
### 技術規格 SPECIFICATIONS

| 型號             | 最大夾持力(單爪)         | 最高轉速       | 夾持範圍           | 準確度      |
|----------------|-------------------|------------|----------------|----------|
| Model          | Max. Load (1-jaw) | Max. Speed | Gripping range | Accuracy |
|                | (kN)              | (r.p.m.)   | (mm)           |          |
| <b>GFS-100</b> | 100               | 6000       | 70, 84, 104    | ± 2%     |

### 外型尺寸 DIMENSIONS

| Model          | A  | B  | C   | D  | E  | F  | G  | H  |
|----------------|----|----|-----|----|----|----|----|----|
| <b>GFS-100</b> | 70 | 84 | 104 | 63 | 54 | 57 | 20 | 68 |





### 外型尺寸 DIMENSIONS

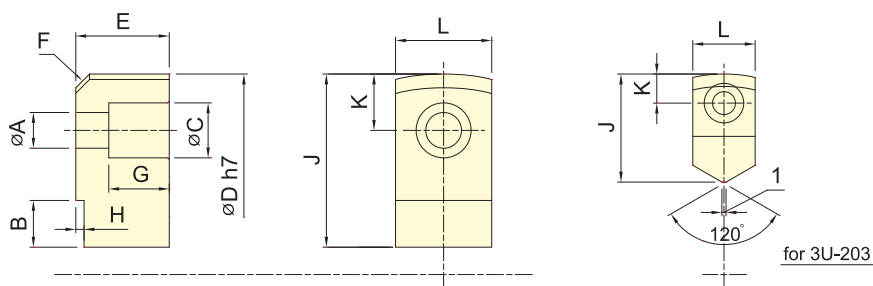
保留規格修改的權利 Subject to technical changes

| 型號             | S-1 | S-2 | S-3 | S-4  | S-5 | S-6 | S-7 | S-8 | S-9 | S-10 | S-11 | S-12 | S-13 | 排齒節距            | 適用夾頭   | 三爪重量         |
|----------------|-----|-----|-----|------|-----|-----|-----|-----|-----|------|------|------|------|-----------------|--|--------------|
| MODEL          |     |     |     |      |     |     |     |     |     |      |      |      |      | Serration Pitch | Matching Chuck   | 3 Jaw Weight |
|                |     |     |     |      |     |     |     |     |     |      |      |      |      |                 |  | kg           |
| <b>SJ-04</b>   | 52  | 23  | 23  | 10   | 5   | 10  | 14  | 28  | 9   | 14   | 13   | M8   | 3    | 1.5x60°         | 3H-204, 3P-04  | 0.5          |
| <b>SJ-05</b>   | 62  | 25  | 30  | 10   | 5   | 10  | 14  | 38  | 9   | 14   | 20   | M8   | 3.5  | 1.5x60°         | 3H-205, 3L-205, 3P-05, 3M-05                                   | 0.8          |
| <b>SJ-06</b>   | 73  | 31  | 36  | 12   | 5   | 15  | 20  | 38  | 11  | 17   | 24   | M10  | 14   | 1.5x60°         | 3H-206, 3L-206, 3P-06, 3M-06                                   | 1.5          |
| <b>SJ-08</b>   | 95  | 35  | 37  | 14   | 5   | 24  | 25  | 46  | 13  | 19   | 22   | M12  | 16   | 1.5x60°         | 3H-208, 3L-208, 3P-08, 3M-08                                   | 2.4          |
| <b>SJ-10</b>   | 110 | 40  | 42  | 16   | 5   | 30  | 30  | 50  | 13  | 19   | 27   | M12  | 18   | 1.5x60°         | 3H-210, 3L-210, 3P-10, 3M-10                                   | 3.7          |
| <b>*SJ-12H</b> | 130 | 50  | 50  | 21   | 5   | 40  | 30  | 60  | 17  | 25   | 30   | M16  | 23   | 1.5x60°         | 3H-12, 3H-212, 3L-212,<br>3V-12, 3P-12, 3M-12                  | 6.3          |
| <b>SJ-12P</b>  | 130 | 50  | 50  | 18   | 5   | 40  | 30  | 60  | 16  | 23   | 30   | M14  | 23   | 1.5x60°         | 3H-12, 3H-212, 3L-212,<br>3V-12, 3P-12, 3M-12                  | 6.5          |
| <b>SJ-15H</b>  | 165 | 62  | 62  | 22   | 8   | 37  | 43  | 85  | 21  | 32   | 37   | M20  | -    | 1.5x60°         | 3H-15, 3H-215, 3H-18, 3L-15,<br>3P-215, 3P-218, 3V-15, 3V-18   | 12.6         |
| <b>*SJ-15P</b> | 165 | 62  | 62  | 25.5 | 6   | 37  | 43  | 85  | 21  | 32   | 37   | M20  | -    | 1.5x60°         | 3H-15, 3H-215, 3H-18, 3L-15,<br>3P-215, 3P-218, 3V-15, 3V-18   | 12.5         |
| <b>SJ-21</b>   | 180 | 64  | 70  | 25   | 9   | 40  | 60  | 80  | 21  | 32   | 45   | M20  | -    | 3.0x60°         | 3H-221, 3H-224, 3H-232,<br>3P-221, 3P-224, 3V-21, 3V-24, 3V-32 | 15.8         |

\* SJ-12H 為 12" 夾頭出廠配備。(12" Chucks are originally equipped with SJ-12H.)

\* SJ-15P 為 15" 夾頭出廠配備。(15" Chucks are originally equipped with SJ-15P.)

### 3U 夾頭之標準生爪 STANDARD SOFT JAW FOR 3U CHUCK

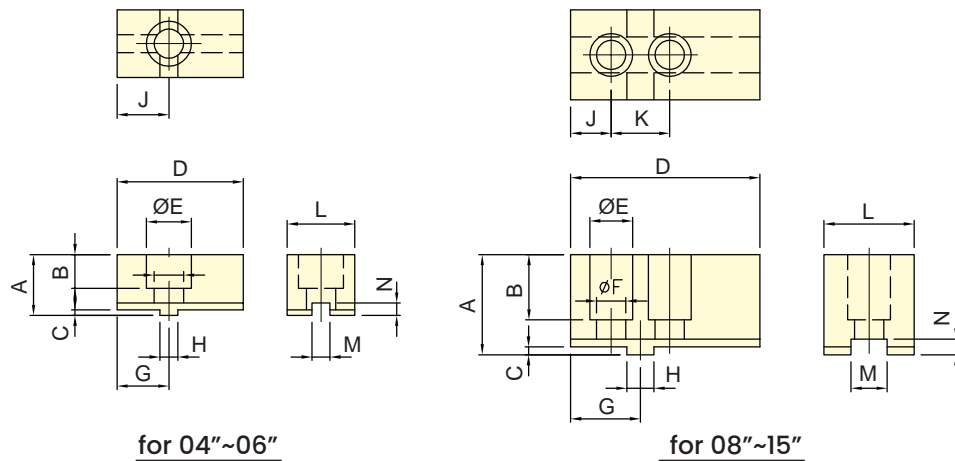


### 外型尺寸 DIMENSIONS

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

| 型號            | A   | B    | C   | D   | E  | F  | G  | H | J    | K    | L  |
|---------------|-----|------|-----|-----|----|----|----|---|------|------|----|
| MODEL         |     |      |     |     |    |    |    |   |      |      |    |
| <b>3U-203</b> | 5.5 | 11   | 9.5 | 66  | 12 | C3 | 7  | 3 | 26   | 7    | 15 |
| <b>3U-204</b> | 6.6 | 11   | 11  | 84  | 17 | C4 | 11 | 3 | 32   | 9.5  | 20 |
| <b>3U-205</b> | 9   | 13.5 | 14  | 108 | 20 | C4 | 12 | 3 | 41.5 | 13   | 24 |
| <b>3U-206</b> | 11  | 15   | 17  | 129 | 30 | C6 | 20 | 3 | 50   | 17   | 30 |
| <b>3U-208</b> | 13  | 17   | 20  | 156 | 34 | C6 | 22 | 3 | 63   | 20.5 | 35 |
| <b>3U-210</b> | 15  | 20   | 22  | 187 | 39 | C6 | 24 | 4 | 74   | 23   | 40 |
| <b>3U-212</b> | 15  | 18   | 22  | 234 | 44 | C6 | 29 | 4 | 72   | 23   | 40 |

## 2D/3D 夾頭之標準生爪 Standard Soft Jaw for 2D/3D chuck

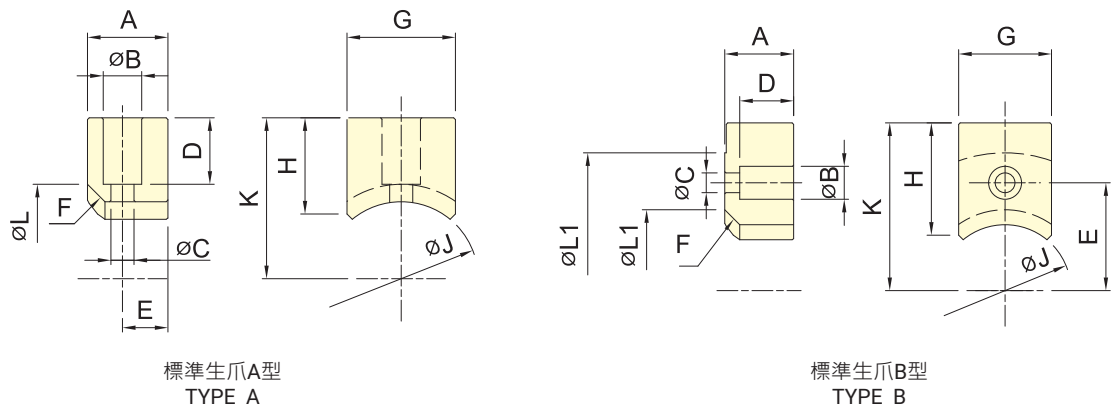


保留規格修改的權利  
Subject to technical changes

### 外型尺寸 DIMENSIONS

| 型號<br>MODEL | A    | B  | C   | D   | E    | F    | G  | H  | J  | K  | L  | M  | N   |
|-------------|------|----|-----|-----|------|------|----|----|----|----|----|----|-----|
| 3D-04       | 22   | 13 | 2.5 | 52  | 17.5 | 11   | 19 | 8  | 19 | -  | 25 | 8  | 5.5 |
| 3D-05       | 27   | 15 | 2.5 | 56  | 20   | 13   | 23 | 8  | 23 | -  | 30 | 8  | 5.5 |
| 3D-06       | 34   | 21 | 3   | 70  | 23   | 15.5 | 27 | 10 | 27 | -  | 35 | 10 | 6   |
| 3D-08       | 44.5 | 29 | 3.5 | 84  | 19   | 13   | 31 | 12 | 18 | 26 | 40 | 16 | 7   |
| 3D-10       | 49.5 | 32 | 3.5 | 100 | 22   | 15   | 38 | 15 | 22 | 32 | 50 | 18 | 7   |
| 3D-12       | 54.5 | 36 | 3.5 | 120 | 26   | 18   | 42 | 17 | 24 | 36 | 60 | 20 | 7   |
| 3D-15       | 65   | 40 | 5   | 165 | 26   | 18   | 60 | 20 | 40 | 40 | 70 | 24 | 10  |

## 3E 夾頭之標準生爪 Standard Soft Jaw for 3E chuck

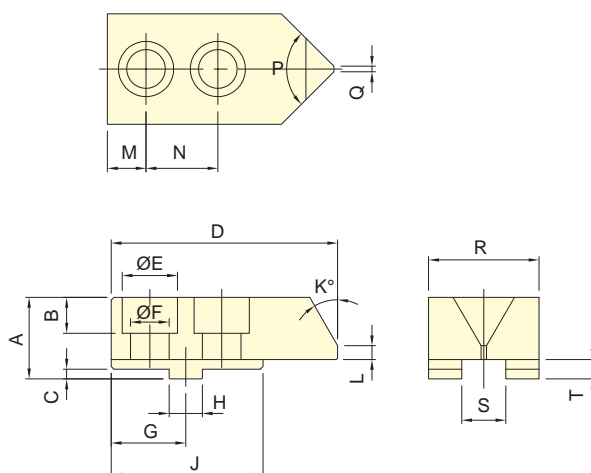


保留規格修改的權利  
Subject to technical changes

### 外型尺寸 DIMENSIONS

| 型號<br>MODEL | A   | B  | C    | D   | E    | F    | G  | H  | J    | K  | L    | L1 |     |
|-------------|-----|----|------|-----|------|------|----|----|------|----|------|----|-----|
| 3E-05       | A 型 | 20 | 11   | 6.6 | 16.5 | 10   | C5 | 25 | 22   | 29 | 34.5 | 39 | -   |
|             | B 型 | 20 | 11   | 6.6 | 15   | 25.5 | C5 | 25 | 30   | 29 | 42.5 | 39 | 69  |
| 3E-06       | A 型 | 23 | 11   | 7   | 19   | 13   | C5 | 31 | 27.5 | 44 | 46   | 54 | -   |
|             | B 型 | 23 | 11   | 6.6 | 18   | 36   | C5 | 31 | 37.5 | 44 | 56   | 54 | 92  |
| 3E-08       | A 型 | 30 | 14   | 9   | 25   | 15   | C6 | 35 | 36   | 50 | 56   | 62 | -   |
|             | B 型 | 30 | 14   | 9   | 24   | 41   | C6 | 35 | 56   | 50 | 76   | 62 | 112 |
| 3E-10       | A 型 | 35 | 17.5 | 11  | 26.5 | 17.5 | C5 | 40 | 40   | 60 | 64.5 | 70 | -   |
|             | B 型 | 35 | 17.5 | 11  | 26   | 47.5 | C5 | 40 | 71.5 | 60 | 96   | 70 | 129 |

### 3R 夾頭之標準生爪 Standard Soft Jaw for 3R chuck

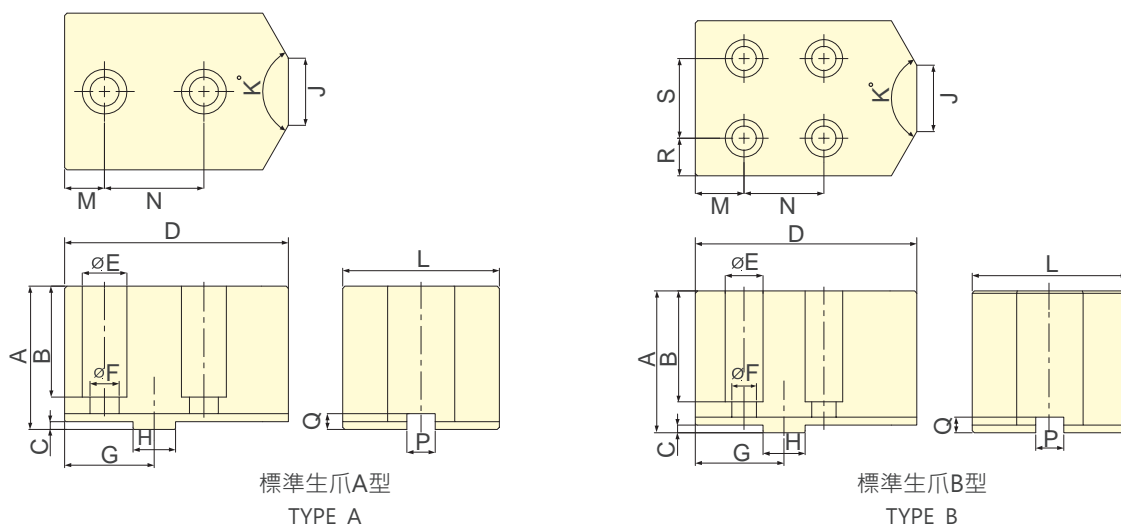


保留規格修改的權利  
Subject to technical changes

#### 外型尺寸 DIMENSIONS

| 型號<br>MODEL | A    | B  | C   | D   | E  | F  | G  | H  | J  | K  | L | M  | N  | P  | Q | R  | S  | T |
|-------------|------|----|-----|-----|----|----|----|----|----|----|---|----|----|----|---|----|----|---|
| 3R-08       | 29.5 | 13 | 3.5 | 82  | 20 | 14 | 27 | 12 | 55 | 30 | 5 | 14 | 26 | 90 | 2 | 40 | 16 | 7 |
| 3R-10       | 30.5 | 15 | 3.5 | 102 | 23 | 16 | 37 | 15 | 65 | 30 | 7 | 21 | 32 | 90 | 2 | 40 | 18 | 7 |

### 3W 夾頭之標準生爪 Standard Soft Jaw for 3W chuck



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

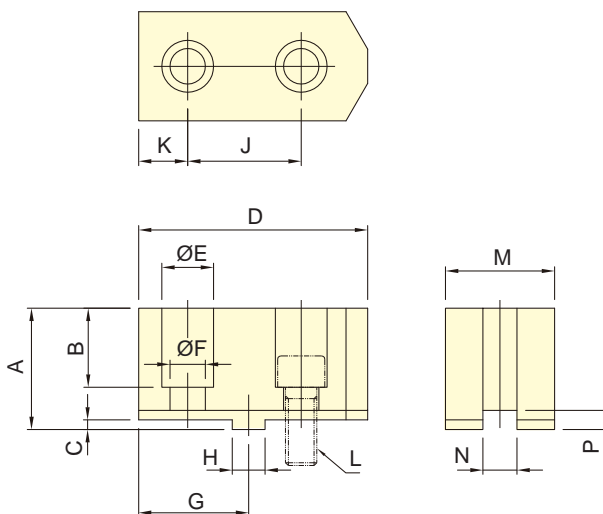
#### 外型尺寸 DIMENSIONS

| 型號<br>MODEL | A   | B  | C    | D   | E   | F  | G  | H  | J     | K  | L   | M  | N    | P    | Q    | R | S    |    |
|-------------|-----|----|------|-----|-----|----|----|----|-------|----|-----|----|------|------|------|---|------|----|
| 3W-08       | A 型 | 60 | 44   | 3.5 | 80  | 20 | 13 | 35 | 12.68 | 30 | 120 | 57 | 16   | 38   | 7.94 | 7 | -    | -  |
|             | B 型 | 60 | 48   | 3.5 | 80  | 17 | 11 | 35 | 12.68 | 30 | 120 | 57 | 19   | 32   | 7.94 | 7 | 12.5 | 32 |
| 3W-10       | A 型 | 64 | 49.5 | 3.5 | 100 | 20 | 13 | 40 | 19.03 | 30 | 120 | 70 | 17.8 | 44.4 | 12.7 | 7 | -    | -  |
|             | B 型 | 64 | 50   | 3.5 | 100 | 17 | 11 | 40 | 19.03 | 30 | 120 | 70 | 22   | 36   | 12.7 | 7 | 17   | 36 |
| 3W-12       | A 型 | 64 | 49.5 | 3.5 | 100 | 20 | 13 | 40 | 19.03 | 30 | 120 | 70 | 17.8 | 44.4 | 12.7 | 7 | -    | -  |
|             | B 型 | 64 | 50   | 3.5 | 100 | 17 | 11 | 40 | 19.03 | 30 | 120 | 70 | 22   | 36   | 12.7 | 7 | 17   | 36 |

\*3W 系列軟爪可搭配鎢鋼爪，根據工件條件選擇鎢鋼爪型式，訂製生產。

\*3W series Carbide gripper is optional. \* The type of the gripper is selected according to the work-piece conditions.

### 3MF 夾頭之標準生爪 Standard Soft Jaw for 3MF chuck

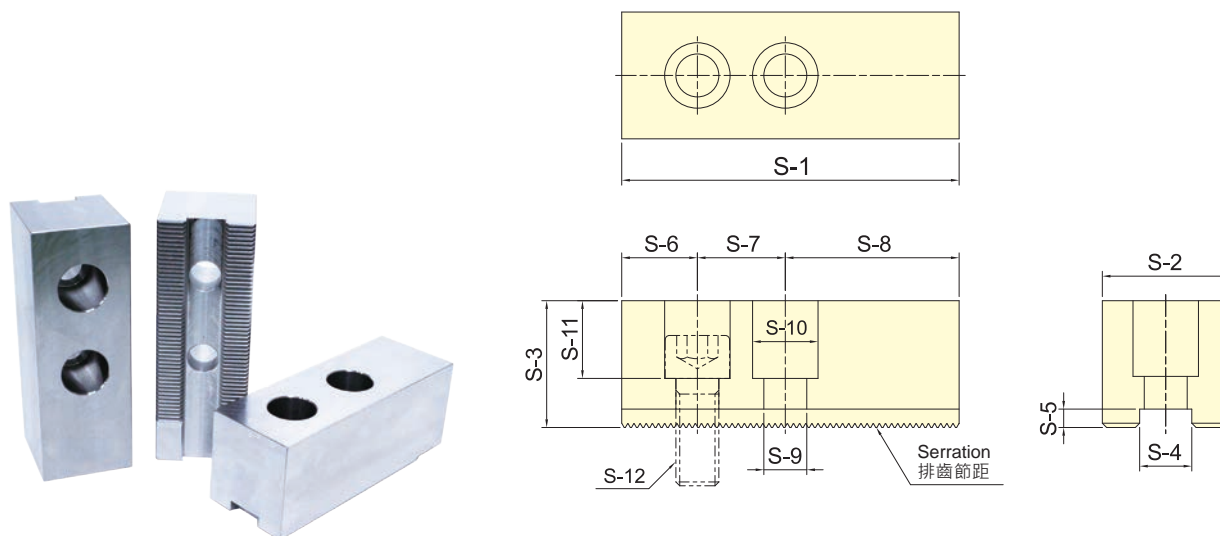


保留規格修改的權利  
Subject to technical changes

#### 外型尺寸 DIMENSIONS

| 型號<br>MODEL   | A  | B  | C | D   | E  | F  | G  | H     | J    | K    | L   | M  | N    | P    | 三爪重量 (kg)<br>3 Jaw Weight |
|---------------|----|----|---|-----|----|----|----|-------|------|------|-----|----|------|------|---------------------------|
| <b>3MF-20</b> | 70 | 48 | 6 | 160 | 25 | 17 | 80 | 19.03 | 76.2 | 41.9 | M16 | 50 | 12.7 | 11.5 | 10.4                      |

### AP 夾頭之標準生爪 Standard Soft Jaw for AP chuck



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

#### 外型尺寸 DIMENSIONS

| 型號<br>MODEL   | S-1           | S-2 | S-3 | S-4  | S-5  | S-6 | S-7 | S-8 | S-9 | S-10 | S-11 | S-12 | 排齒節距<br>Serration Pitch | 適用夾頭<br>Matching Chuck | 三爪重量 (kg)<br>3 Jaw Weight |
|---------------|---------------|-----|-----|------|------|-----|-----|-----|-----|------|------|------|-------------------------|------------------------|---------------------------|
|               | <b>SJ-185</b> | 165 | 62  | 62   | 25.5 | 9   | 37  | 43  | 85  | 21   | 32   | 38   | M20                     | 3.0×60°                | AP-145, AP-185            |
| <b>SJ-275</b> | 180           | 64  | 70  | 25.5 | 9    | 40  | 60  | 80  | 21  | 32   | 45   | M20  | 3.0×60°                 | AP-230, AP-275         | 16.1                      |
| <b>SJ-320</b> | 210           | 75  | 80  | 30   | 9    | 40  | 60  | 110 | 26  | 38   | 55   | M24  | 3.0×60°                 | AP-320, AP-375         | 24.7                      |

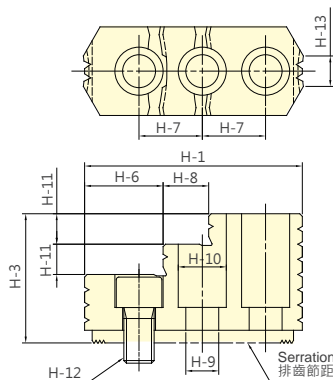


Fig. 1

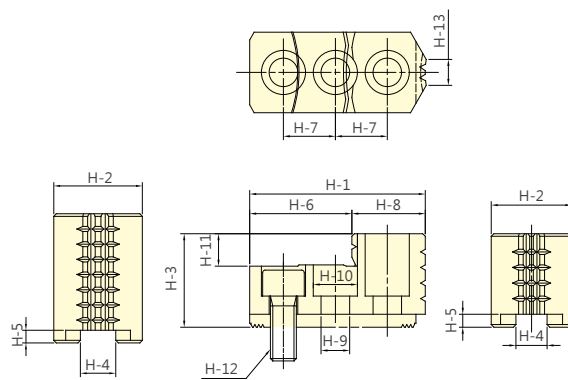


Fig. 2

保留規格修改的權利  
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### 外型尺寸 DIMENSIONS

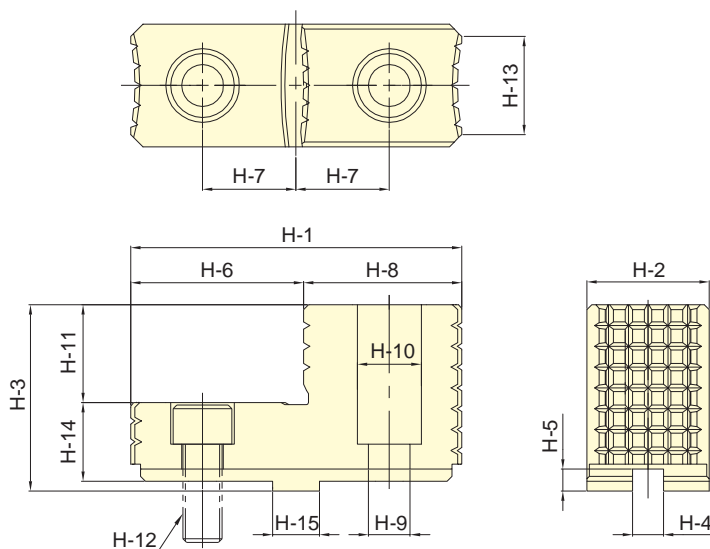
| 型號<br>MODEL    | H-1   | H-2 | H-3 | H-4  | H-5 | H-6   | H-7 | H-8  | H-9 | H-10 | H-11 | H-12 | H-13 | 排齒節距<br>Serration Pitch | 適用夾頭<br>Matching Chuck  | 三爪重量<br>3 Jaw Weight<br>kg | 參考圖<br>Reference Drawing |
|----------------|-------|-----|-----|------|-----|-------|-----|------|-----|------|------|------|------|-------------------------|---|----------------------------|--------------------------|
|                |       |     |     |      |     |       |     |      |     |      |      |      |      |                         |   |                            |                          |
| <b>HJ-06</b>   | 67.6  | 31  | 36  | 12   | 5   | 40.2  | 20  | 27.4 | 11  | 17   | 12   | M10  | 9.3  | 1.5x60°                 | 3H-206, 3P-06   | 1.7                        | Fig.2                    |
| <b>HJ-08</b>   | 86.1  | 35  | 51  | 14   | 5   | 33.5  | 25  | 18.4 | 13  | 19   | 12   | M12  | 14   | 1.5x60°                 | 3H-208, 3P-08   | 2                          | Fig.1                    |
| <b>HJ-10</b>   | 100   | 40  | 54  | 16   | 5   | 39.5  | 30  | 22.5 | 13  | 19   | 13   | M12  | 15   | 1.5x60°                 | 3H-210, 3P-10   | 3                          | Fig.1                    |
| <b>*HJ-12H</b> | 100.2 | 50  | 52  | 21   | 5   | 64.7  | 30  | 35.5 | 17  | 25   | 17   | M16  | 31.5 | 1.5x60°                 | 3H-12,3H-212, 3L-212,<br>3V-12,3P-12, 3M-12                       | 3.5                        | Fig.2                    |
| <b>*HJ-12P</b> | 100.2 | 50  | 52  | 18   | 5   | 64.7  | 30  | 35.5 | 15  | 23   | 17   | M14  | 31.5 | 1.5x60°                 | 3H-12,3H-212, 3L-212,<br>3V-12,3P-12, 3M-12                       | 3.6                        | Fig.2                    |
| <b>*HJ-15H</b> | 140.7 | 62  | 86  | 22   | 8   | 62.5  | 43  | 34   | 21  | 32   | 20   | M20  | 43   | 1.5x60°                 | 3H-15, 3H-215, 3H-18, 3L-15<br>3V-15, 3V-18,3P-215, 3P-218        | 9.6                        | Fig.1                    |
| <b>*HJ-15P</b> | 140.7 | 62  | 86  | 25.5 | 6   | 62.5  | 43  | 34   | 21  | 32   | 20   | M20  | 43   | 1.5x60°                 | 3H-15, 3H-215, 3H-18, 3L-15<br>3V-15, 3V-18,3P-215, 3P-218        | 9.5                        | Fig.1                    |
| <b>HJ-21</b>   | 153.5 | 80  | 90  | 25   | 9   | 103.7 | 50  | 49.8 | 21  | 32   | 40   | M20  | 56.5 | 3.0x60°                 | 3H-221, 3H-224, 3H-232,<br>3P-221, 3P-224, 3V-21,<br>3V-24, 3V-32 | 14.3                       | Fig.2                    |

\* HJ-12H、HJ-12P、HJ-15H、HJ-15P 選用前請確認 H-4 的尺寸。

\* For HJ-12H, HJ-12P, HJ-15H, HJ-15P, please confirm the dimension of H-4 before placing the order.

### 3MF 標準硬爪

#### STANDARD HARDEN JAW FOR 3MF CHUCK

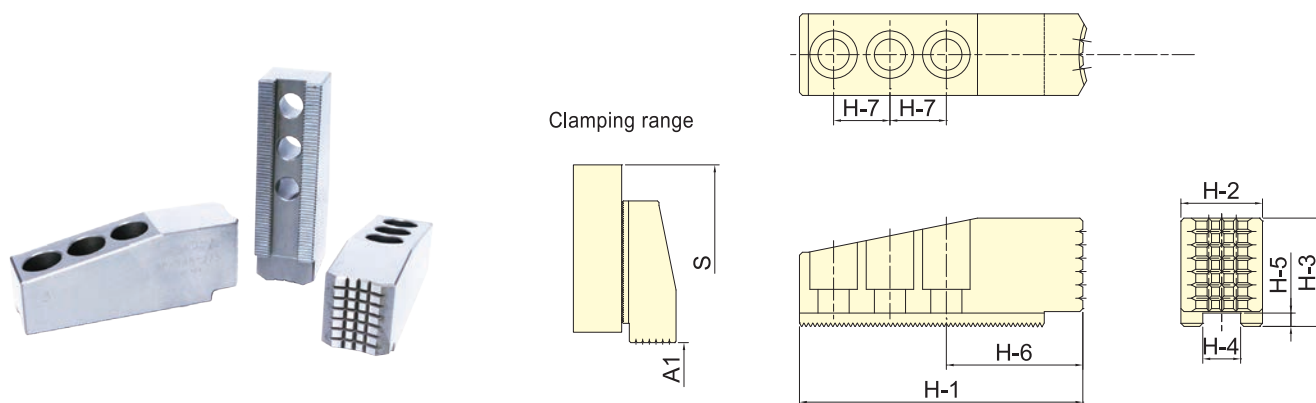


保留規格修改的權利 Subject to technical changes

### 外型尺寸 DIMENSIONS

| 型號<br>Model   | H-1 | H-2 | H-3 | H-4  | H-5 | H-6 | H-7  | H-8 | H-9 | H-10 | H-11 | H-12 | H-13 | H-14 | H-15  | 適用夾頭           | 三爪重量 kg      |
|---------------|-----|-----|-----|------|-----|-----|------|-----|-----|------|------|------|------|------|-------|----------------|--------------|
|               |     |     |     |      |     |     |      |     |     |      |      |      |      |      |       | Matching Chuck | 3 Jaw Weight |
| <b>3MF-20</b> | 135 | 50  | 76  | 12.7 | 9   | 70  | 38.1 | 65  | 17  | 26   | 40   | M16  | 40   | 32   | 19.03 | 3MF-20         | 6.7          |

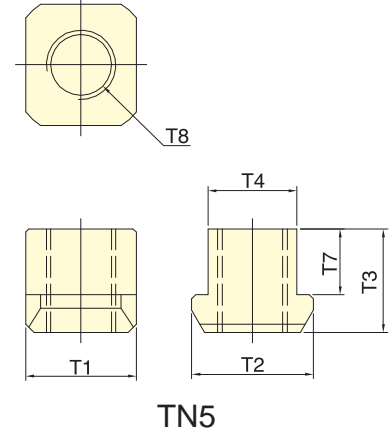
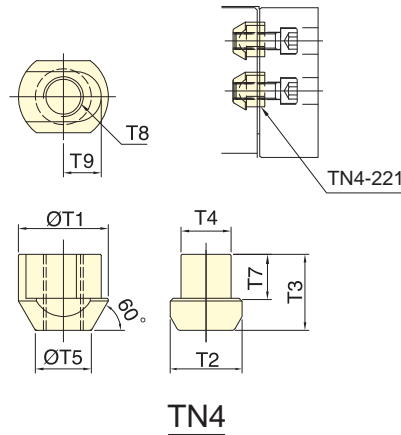
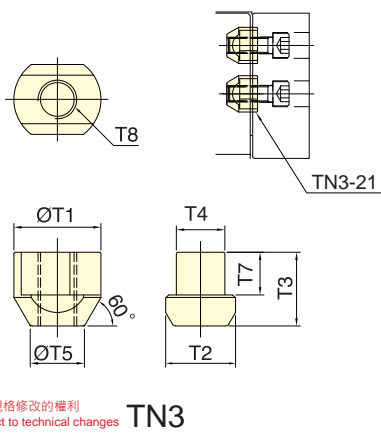
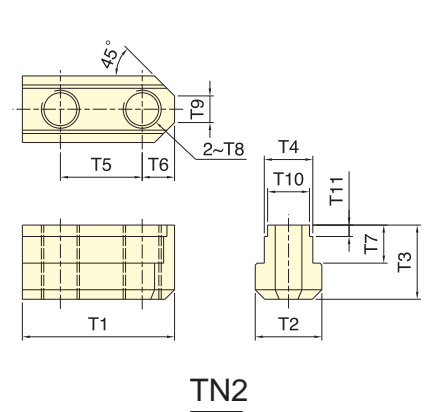
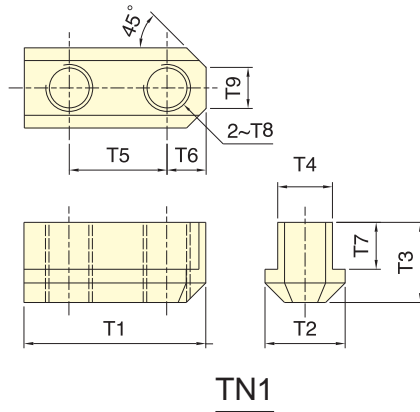
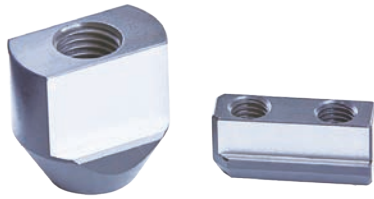
AP 標準硬爪 STANDARD HARDENED JAW FOR AP CHUCK



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

外型尺寸 DIMENSIONS

| 型號<br>Model   | H-1           | H-2 | H-3 | H-4  | H-5  | H-6 | H-7 | A1      | S      | 排齒節距<br>Serration Pitch | 適用夾頭<br>Matching Chuck | 三爪重量 kg<br>3 Jaw Weight kg |
|---------------|---------------|-----|-----|------|------|-----|-----|---------|--------|-------------------------|------------------------|----------------------------|
|               | <b>HJ-145</b> | 191 | 55  | 73   | 25.5 | 9   | 92  | 38      | 30-125 | 420                     | 3.0×60°                | AP-145                     |
| <b>HJ-145</b> | 191           | 55  | 73  | 25.5 | 9    | 92  | 38  | 35-165  | 460    | 3.0×60°                 | AP-185                 | 12.5                       |
| <b>HJ-145</b> | 191           | 55  | 73  | 25.5 | 9    | 92  | 38  | 55-240  | 535    | 3.0×60°                 | AP-230                 | 12.5                       |
| <b>HJ-145</b> | 191           | 55  | 73  | 25.5 | 9    | 92  | 38  | 100-285 | 580    | 3.0×60°                 | AP-275                 | 12.5                       |
| <b>HJ-320</b> | 243           | 75  | 82  | 30   | 9    | 110 | 50  | 105-300 | 658    | 3.0×60°                 | AP-320                 | 24.6                       |
| <b>HJ-320</b> | 243           | 75  | 82  | 30   | 9    | 110 | 50  | 165-375 | 738    | 3.0×60°                 | AP-375                 | 24.6                       |



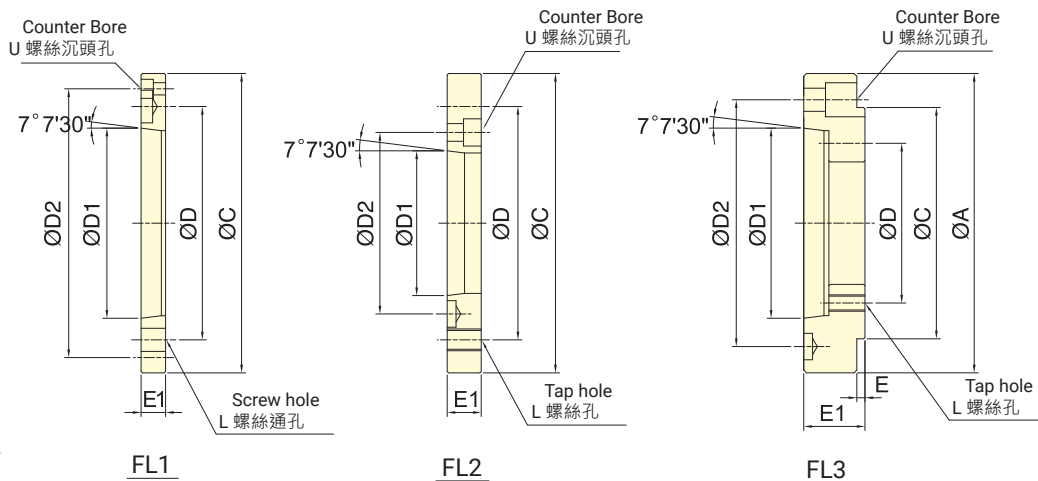
保留規格修改的權利  
Subject to technical changes

外型尺寸 DIMENSIONS

| 型號<br>Model      | T1   | T2   | T3   | T4   | T5 | T6   | T7   | T8  | T9 | T10 | T11 | 適合夾頭<br>Matching Chuck  | 三只重量<br>3 Pcs Weight |
|------------------|------|------|------|------|----|------|------|-----|----|-----|-----|---|----------------------|
|                  |      |      |      |      |    |      |      |     |    |     |     |   | kg                   |
| <b>TN1-04</b>    | 26   | 14   | 15   | 10   | 14 | 6    | 9.5  | M8  | 5  | -   | -   | H-204, H-205, P-04, P-05, L-205, M-05, SP-304                         | 0.06                 |
| <b>TN1-06</b>    | 36   | 17   | 18.5 | 12   | 20 | 8    | 11   | M10 | 6  | -   | -   | H-206, P-06, L-206, 1L-06, M-06, 3N-06, AP-52, RAP-306, SP-306        | 0.15                 |
| <b>TN1-08</b>    | 46.5 | 20   | 20.5 | 14   | 25 | 10.5 | 12   | M12 | 10 | -   | -   | H-208, P-08, L-208, 1L-08, M-08, 3N-08, 4T-08, AP-66, RAP-308, SP-308 | 0.27                 |
| <b>TN1-10</b>    | 51   | 22   | 21.5 | 16   | 30 | 11   | 13   | M12 | 11 | -   | -   | H-210, P-10, L-210, 1L-10, M-10, 3N-10, 4T-10, AP-86, RAP-310, SP-310 | 0.36                 |
| <b>* TN1-12</b>  | 55.5 | 29.5 | 28   | 21   | 30 | 12   | 16.7 | M16 | 13 | -   | -   | 2H-12, P-12, L-12, M-12   | 0.63                 |
| <b>TN2-12</b>    | 55.5 | 29.5 | 28   | 21   | 30 | 12   | 16.7 | M14 | 13 | 18  | 4.5 | 2H-12, P-12, L-12, M-12   | 0.63                 |
| <b>* TN1-15</b>  | 80   | 35   | 39.5 | 25.5 | 43 | 17   | 20.5 | M20 | 14 | -   | -   | 2H-15, 3H-18B, P-15, P-215, P-218, L-15, M-215, M-218, V-15, V-18     | 1.53                 |
| <b>TN2-15</b>    | 80   | 35   | 39.5 | 25.5 | 43 | 17   | 20.5 | M20 | 14 | 22  | 6   | 2H-15, 3H-18B, P-15, P-215, P-218, L-15, M-215, M-218, V-15, V-18     | 1.5                  |
| <b>* TN1-212</b> | 56   | 29.5 | 23.5 | 21   | 30 | 12   | 12   | M16 | 10 | -   | -   | 3H-12, 4H-12, H-212, L-212, V-12, 4T-15, AP-115                       | 0.63                 |
| <b>TN2-212</b>   | 56   | 29.5 | 23.5 | 21   | 30 | 12   | 12   | M14 | 10 | 18  | 4   | 3H-12, 4H-12, H-212, L-212, V-12, 4T-15, AP-115                       | 0.63                 |
| <b>* TN1-215</b> | 80   | 35   | 34   | 25.5 | 43 | 17   | 19   | M20 | 14 | -   | -   | 3H-15, 4H-15, 3H-18, 4H-18, H-215, L-215, SP-316                      | 1.32                 |
| <b>TN2-215</b>   | 80   | 35   | 34   | 25.5 | 43 | 17   | 19   | M20 | 14 | 22  | 6   | 3H-15, 4H-15, 3H-18, 4H-18, H-215, L-215, SP-316                      | 1.29                 |
| <b>TN3-21</b>    | 46   | 37.5 | 45   | 25   | 26 | -    | 26   | M20 | -  | -   | -   | P-221, P-224, M-221, M-224, V-21, V-24, V-32,                         | 1.84                 |
| <b>TN4-221</b>   | 45   | 36   | 38   | 25   | 28 | -    | 22   | M20 | 19 | -   | -   | H-221, H-224, H-232, SP-320, SP-324                                   | 0.63                 |
| <b>TN5-185</b>   | 32   | 35   | 30   | 25.5 | -  | -    | 19   | M20 | -  | -   | -   | AP-145, AP-185, AP-230, AP-275  | 0.15                 |
| <b>TN5-320</b>   | 36   | 42   | 39   | 30   | -  | -    | 24   | M24 | -  | -   | -   | AP-320, AP-375  | 0.24                 |

\* TN1-12 & TN1-212 為 12" 夾頭出廠配備。(12" Chucks are originally equipped with TN1-12 & TN1-212.)

\* TN1-15 & TN1-215 為 15" 夾頭出廠配備。(15" Chucks are originally equipped with TN1-15 & TN1-215.)



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

## 外型尺寸 DIMENSIONS

| Model                               | A   | C   | D     | D1      | D2    | E   | E1  | L   | U   | 備註<br>Remark  | 重量<br>Weight<br>(kg) |
|-------------------------------------|-----|-----|-------|---------|-------|-----|-----|-----|-----|---|----------------------|
| <b>FL3-04A<math>\times</math>4</b>  | 110 | 85  | 70.6  | 63.513  | 82.6  | 8   | 28  | M10 | M10 | 3H-204, 2H-204  | 1.12                 |
| <b>FL3-04A<math>\times</math>5</b>  | 140 | 85  | 70.6  | 82.563  | 104.8 | 5.5 | 32  | M10 | M10 | 3H-204, 2H-204  | 2.28                 |
| <b>FL1-05A<math>\times</math>4</b>  | -   | 110 | 82.6  | 63.513  | 96    | -   | 15  | M10 | M6  | 3H-205, 2H-205, 3L-05, 2L-05, 3J-05, 2J-05  | 0.65                 |
| <b>FL3-05A<math>\times</math>5</b>  | 135 | 110 | 82.6  | 82.563  | 104.8 | 6   | 30  | M10 | M10 | 3H-205, 2H-205, 3L-05, 2L-05  | 1.99                 |
| <b>FL1-06A<math>\times</math>5</b>  | -   | 140 | 104.8 | 82.563  | 116   | -   | 15  | M10 | M6  | 2H-206, 4H-206, 3H-206, 3P-06, 2P-06, 3M-06, 2M-06,<br>3E-06, 3D-06, 2D-06, 3N-06, 3J-06, 2J-06   | 0.96                 |
|                                     |     |     |       |         |       |     | *18 |     |     |   |                      |
| <b>FL3-06A<math>\times</math>6</b>  | 165 | 140 | 104.8 | 106.375 | 133.4 | 6   | 35  | M10 | M12 | 2H-206, 4H-206, 3H-206, 3L-206, 2L-206, 3P-06, 2P-06,<br>3M-06, 2M-06, 3E-06, 3D-06, 2D-06, 3N-06, 3J-06, 2J-06   | 3.12                 |
| <b>FL2-08A<math>\times</math>5</b>  | -   | 170 | 133.4 | 82.563  | 104.8 | -   | 23  | M12 | M10 | 3H-208, 2H-208, 4H-208, 3P-08, 2P-08, 3M-08, 2M-08,<br>4T-08, 3E-08, 3D-08, 2D-08, 3N-08, 3J-08, 2J-08,<br>3R-08, 3W-08, 3Q-08  | 2.7                  |
|                                     |     |     |       |         |       |     |     |     |     | *3L-208, *2L-208,   |                      |
| <b>FL1-08A<math>\times</math>6</b>  | -   | 170 | 133.4 | 106.375 | 150   | -   | 17  | M12 | M6  | 2H-208, 4H-208, 3H-208, 3P-08, 2P-08, 3M-08, 2M-08, 4T-08,<br>3E-08, 3D-08, 2D-08, 3N-08, 3J-08, 2J-08, 3R-08, 3W-08, 3Q-08   | 1.55                 |
|                                     |     |     |       |         |       |     | *23 |     |     |   |                      |
| <b>FL2-10A<math>\times</math>6</b>  | -   | 220 | 171.4 | 106.375 | 133.4 | -   | 25  | M16 | M12 | 4H-10, 3P-10, 2P-10, 3M-10, 2M-10, 3H-12, 2H-12, 4H-12,<br>3L-212, 2L-12, 3P-12, 2P-12, 3M-12, 2M-12, 4T-10, 4T-12,<br>3E-10, 3D-10, 2D-10, 3N-10, 3J-10, 2J-10, 3R-10, 3Q-10,<br>3W-10, 3W-12  | 5.02                 |
| <b>FL1-10A<math>\times</math>8</b>  | -   | 220 | 171.4 | 139.719 | 190   | -   | 18  | M16 | M8  | 2H-210, 4H-10, 3H-210, 3L-210, 2L-210, 3P-10, 2P-10, 3M-10,<br>2M-10, 3H-12, 2H-12, 4H-12, 3L-212, 2L-12, 3P-12, 2P-12,<br>3M-12, 2M-12, 4T-10, 4T-12, 3E-10, 3D-10, 2D-10, 3N-10,<br>3J-10, 2J-10, 3R-10, 3Q-10, 3Q-12, 3W-10, 3W-12 | 2.73                 |
| <b>FL2-15A<math>\times</math>8</b>  | -   | 300 | 235   | 139.719 | 171.4 | -   | 33  | M20 | M16 | 3H-15, 3H-212, 2H-15, 4H-15, 3L-15, 2L-15, 3P-215, 2P-15,<br>3M-15, 2M-15, 4T-15, 3H-18, 4H-18, 3P-218  | 12.52                |
| <b>FL1-15A<math>\times</math>11</b> | -   | 300 | 235   | 196.869 | 260   | -   | 22  | M20 | M10 | 3H-15, 3H-212, 2H-15, 4H-15, 3L-15, 2L-15, 3P-215, 2P-15,<br>3M-15, 2M-15, 4T-15, 3H-18, 4H-18, 3P-218  | 6.03                 |
| <b>FL2-21A<math>\times</math>8</b>  | -   | 380 | 330.2 | 139.719 | 171.4 | -   | 33  | M24 | M16 | 3H-215, 3P-221, 3P-224  | 22.05                |
| <b>FL2-21A<math>\times</math>11</b> | -   | 380 | 330.2 | 196.869 | 235   | -   | 40  | M24 | M20 | 3H-215  | 16.28                |
|                                     |     |     |       |         |       |     | *27 |     |     | *3P-221, *3P-224  |                      |
| <b>FL1-21A<math>\times</math>15</b> | -   | 380 | 330.2 | 285.775 | 330.2 | -   | 27  | M24 | M12 | 3H-215, 3H-18B, 3H-221, 3P-221, 3P-224  | 8.6                  |
| <b>FL2-40A<math>\times</math>15</b> | -   | 520 | 463.6 | 285.775 | 330.2 | -   | 40  | M24 | M24 | 3H-224  | 43.26                |
| <b>FL1-40A<math>\times</math>20</b> | -   | 520 | 463.6 | 412.775 | 463.6 | -   | 27  | M24 | M12 | 3H-224, 3H-232  | 13.55                |

“\*” 記號表示接單生產之型號規格，無現貨供應。(Models with "\*" mark are produced only by order.)





- 可附加行程確認裝置和線性檢知裝置(選配)。
- The proximity switch and linear Sensor are optional.

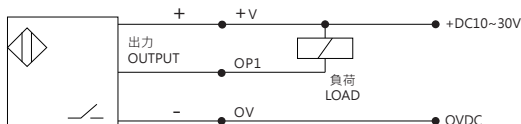
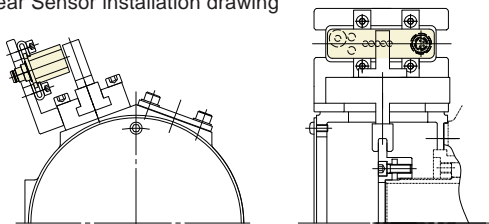
■ 行程確認裝置。(選配) The proximity switch is optional.

| 電壓           | 負荷容量           | 輸出規格        |
|--------------|----------------|-------------|
| Power supply | Switching cap. | Output tpye |
| DC 10/30V    | 100mA          | NPN         |

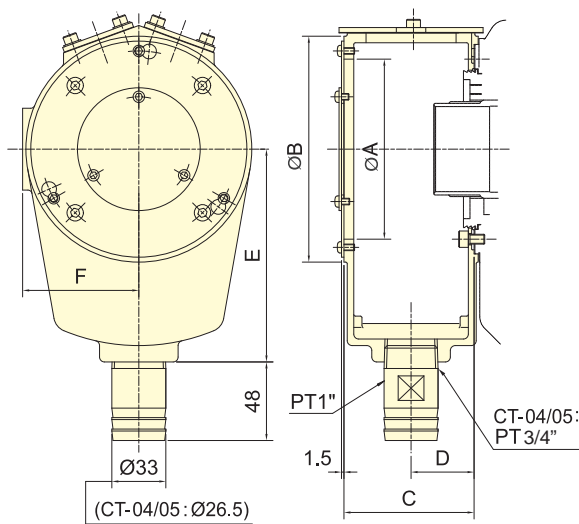
■ 端子連接 Terminal Connections

| +V      | OP1     | OV     |
|---------|---------|--------|
| 棕 BROWN | 黑 BLACK | 藍 BLUE |

■ 線性檢知裝置安裝示意圖  
linear Sensor installation drawing



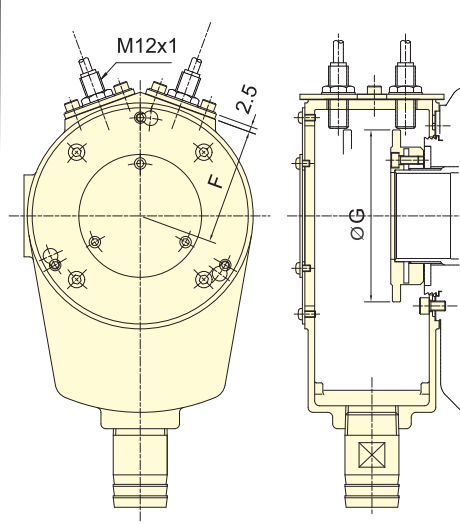
CT



(CT-04/05: Ø26.5)  
(CT-24/28: Ø60)

集水盒  
Coolant Collector

CT-S



集水盒與檢出環  
Coolant Collector with Detecting Ring

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

### 外型尺寸 DIMENSIONS

| Model            | A   | B   | C   | D  | E   | F    | G   | 重量Weight (kg) |      | 適用迴轉缸                                      |
|------------------|-----|-----|-----|----|-----|------|-----|---------------|------|--|
|                  |     |     |     |    |     |      |     | CT            | CT-S | Matching cyl.                              |
| CT-04/CT-04S     | 87  | 110 | 60  | 29 | 110 | 57   | 79  | 0.9           | 1.1  | TH-428                                     |
| CT-05/CT-05S(TH) | 87  | 110 | 60  | 29 | 110 | 57   | 84  | 0.9           | 1.1  | TH-A536                                    |
| CT-05/CT-05S(TK) | 87  | 110 | 60  | 29 | 110 | 57   | 84  | 0.9           | 1.1  | TK-A528, TK-A533                           |
| CT-06/CT-06S     | 100 | 125 | 74  | 36 | 120 | 64.5 | 94  | 1.2           | 1.6  | TK-C643, TK-A646, TK-B646, TK-C646, TR-646 |
| CT-08/CT-08S     | 110 | 138 | 80  | 39 | 130 | 71   | 105 | 1.3           | 1.8  | TK-B846, TK-A853, TK-B853, TR-853          |
| CT-K10/CT-K10S   | 158 | 185 | 88  | 43 | 160 | 94.5 | 145 | 1.9           | 2.6  | TK-A1068, TK-A1075, TK-A1078, TR-1075      |
| CT-12/CT-12S     | 158 | 185 | 88  | 43 | 160 | 94.5 | 145 | 1.9           | 2.6  | TK-A1287, TK-A1291, TR-1291                |
| CT-15/CT-15S     | 206 | 235 | 100 | 50 | 210 | 121  | 190 | 3.1           | 4.3  | TK-A1511, TK-A1512, TK-A1512-35            |
| CT-21/CT-21S     | 226 | 255 | 100 | 50 | 210 | 131  | 210 | 3.3           | 4.6  | TK-2114                                    |
| CT-24/CT-24S     | 250 | 270 | 100 | 50 | 230 | 154  | 248 | 3.5           | 5.5  | TK-2416, TK-2416L                          |
| CT-28/CT-28S     | 310 | 330 | 100 | 50 | 260 | 181  | 305 | 4.3           | 7.2  | TK-2820                                    |

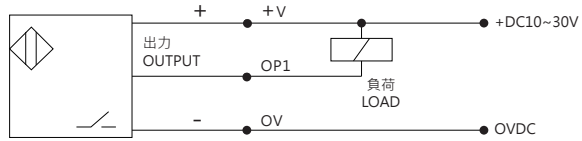


- 可附加行程確認裝置和線性檢知裝置(選配)。
  - 加大的排水管接頭 $\varnothing 40$ 和 $\varnothing 60$ (選購品)。
  - $\varnothing 60$ 排水管接頭只適用於CT-S08B、CT-S10B、CT-S12B。
  - The proximity switch and linear Sensor are optional.
  - Drain port  $\varnothing 40$  and  $\varnothing 60$  are optional product.
  - Drain port  $\varnothing 60$  only use to CT-S08B,CT-S10B,CT-S12B.
- 行程確認裝置。(選配) The proximity switch is optional.

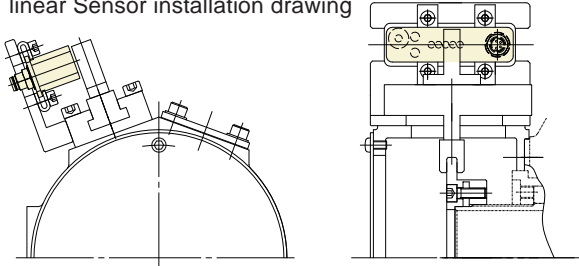
| 電壓           | 負荷容量           | 輸出規格        |
|--------------|----------------|-------------|
| Power supply | Switching cap. | Output type |
| DC 10/30V    | 100mA          | NPN         |

■ 端子連接 Terminal Connections

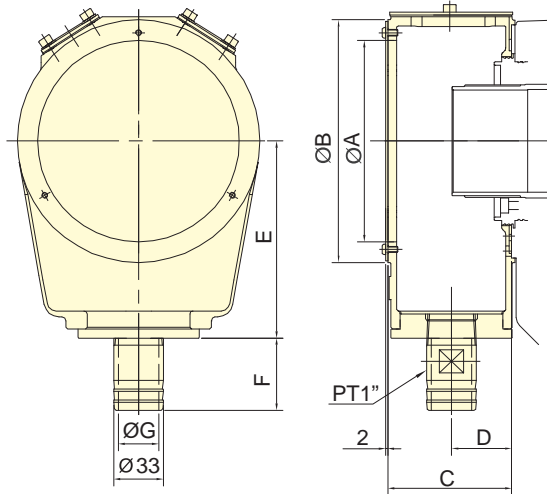
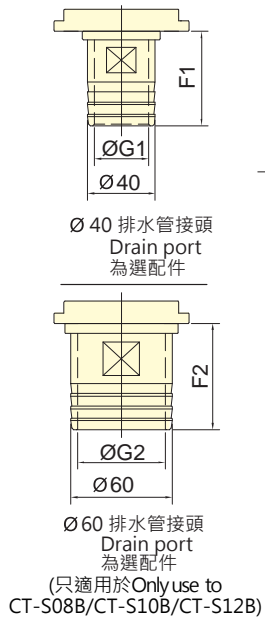
| +V      | OP1     | OV     |
|---------|---------|--------|
| 棕 BROWN | 黑 BLACK | 藍 BLUE |



■ 線性檢知裝置安裝示意圖  
linear Sensor installation drawing

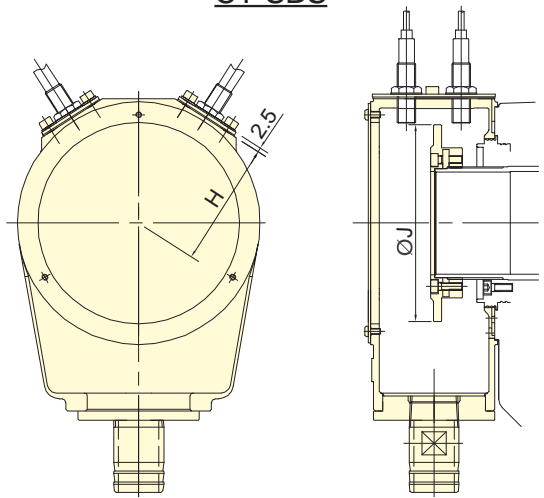


### CT-SB



集水盒  
Coolant Collector

### CT-SBS



集水盒與檢出環  
Coolant Collector with Detecting Ring

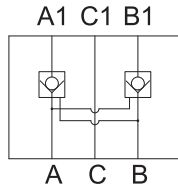
保留規格修改的權利  
Subject to technical changes

### 外型尺寸 DIMENSIONS

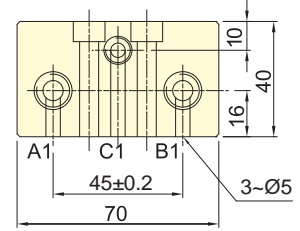
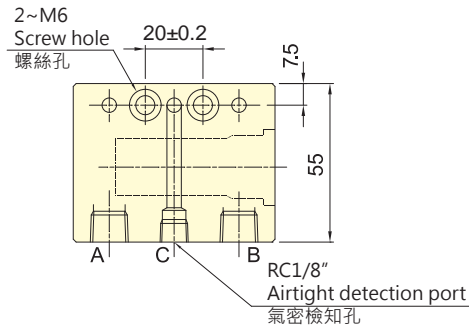
| Model            | A   | B   | C    | D    | E   | F    | F1 | F2 | G  | G1 | G2 | H   | J   | 重量Weight (kg) |        | 適用迴轉缸          |
|------------------|-----|-----|------|------|-----|------|----|----|----|----|----|-----|-----|---------------|--------|----------------|
|                  |     |     |      |      |     |      |    |    |    |    |    |     |     | CT-SB         | CT-SBS | Matching cyl.  |
| CT-S05B/CT-S05BS | 97  | 120 | 68.3 | 33.3 | 96  | 49.6 | 56 | -  | 25 | 32 | -  | 62  | 86  | 1.1           | 1.6    | TS-539, TR-539 |
| CT-S08B/CT-S08BS | 133 | 160 | 82   | 40   | 130 | 49.6 | 56 | 63 | 25 | 32 | 52 | 82  | 130 | 0.9           | 1.4    | TS-866         |
| CT-S10B/CT-S10BS | 160 | 188 | 88   | 43   | 148 | 49.6 | 56 | 63 | 25 | 32 | 52 | 96  | 148 | 1.16          | 2.9    | TS-1081        |
| CT-S12B/CT-S12BS | 200 | 232 | 88   | 43   | 171 | 49.6 | 56 | 63 | 25 | 32 | 52 | 118 | 190 | 2.6           | 4      | TS-1210        |



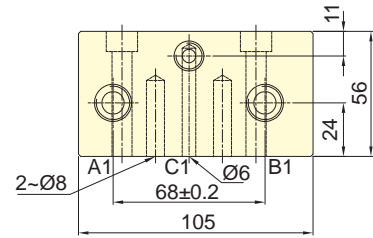
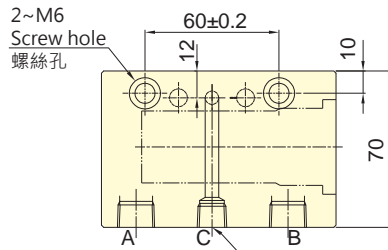
**Model:FV-01**



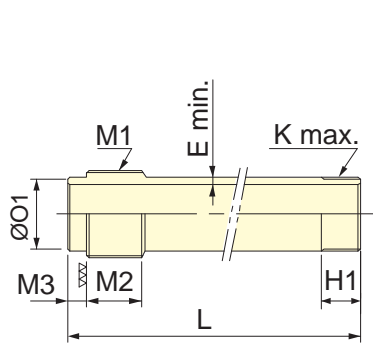
Circuit drawing  
迴路圖



**Model:FV-03**

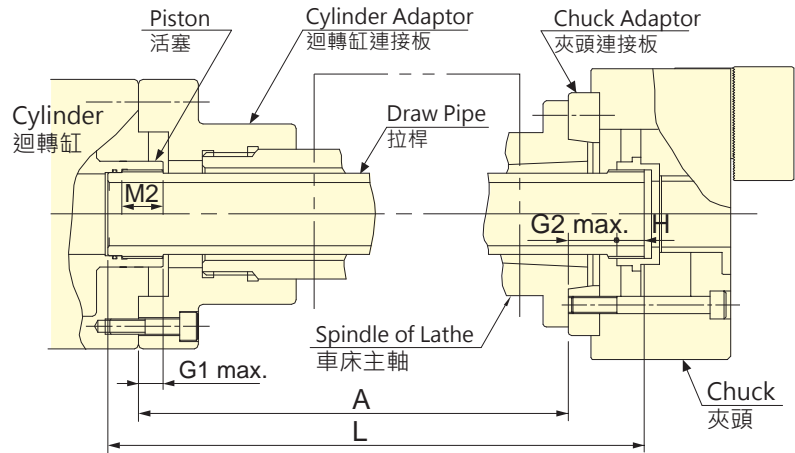


保留規格修改的權利  
Subject to technical changes



中空拉桿詳圖 Detail of Draw Tube

$$L = A + G2_{max.} + H - G1_{max.} + M2 + M3$$



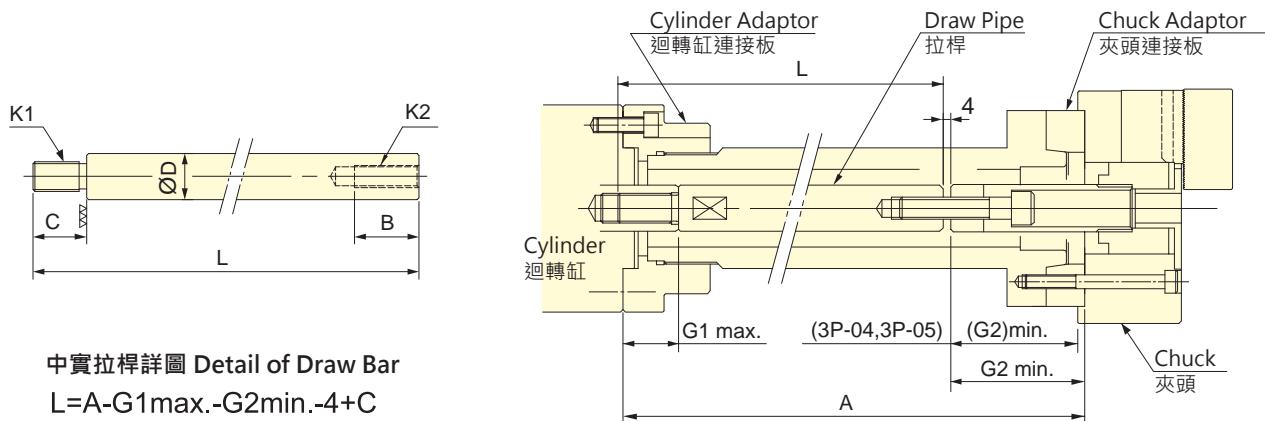
保留規格修改的權利  
Subject to technical changes

### 技術規格 SPECIFICATIONS

| 夾頭規格       |               | 迴轉缸規格    | G1<br>max. | H  | M3 | M2 | G2<br>max. | M1     | H1 | O1  |                  | K<br>max. | E<br>min. | L       |
|------------|---------------|----------|------------|----|----|----|------------|--------|----|-----|------------------|-----------|-----------|---------|
| Chuck type | Cylinder type | (f7)     |            |    |    |    |            |        |    |     |                  |           |           |         |
| 3H-12      | A8            | TK-A1291 | 30         | 23 | 12 | 35 | 28         | M100x2 | 35 | 95  | -0.036<br>-0.071 | M100x2    | 5         | A+56+12 |
| 3H-15      | A11           | TK-A1512 | 30         | 33 | 12 | 45 | 33         | M130x2 | 45 | 125 | -0.043<br>-0.083 | M130x2    | 5         | A+81+12 |
| 3H-18      | A11           | TK-A1512 | 30         | 33 | 12 | 45 | 33         | M130x2 | 45 | 125 | -0.043<br>-0.083 | M130x2    | 5         | A+81+12 |

| 夾頭規格       |               | 迴轉缸規格    | G1<br>max. | H    | M3 | M2 | G2<br>max. | M1      | H1 | O1  |                  | K<br>max. | E<br>min. | L         |
|------------|---------------|----------|------------|------|----|----|------------|---------|----|-----|------------------|-----------|-----------|-----------|
| Chuck type | Cylinder type | (f7)     |            |      |    |    |            |         |    |     |                  |           |           |           |
| 3H-204     | A4            | TK-A528  | 12         | 14.5 | 10 | 25 | 31.5       | M38x1.5 | 20 | 35  | -0.025<br>-0.05  | M38x1.5   | 5         | A+59+10   |
| 3H-205     | A4            | TK-A533  | 12         | 17   | 10 | 25 | 16         | M38x1.5 | 25 | 35  | -0.025<br>-0.05  | M45x1.5   | 5         | A+46+10   |
| 3H-206     | A5            | TK-A646  | 15         | 14   | 10 | 25 | 28         | M55x2   | 20 | 50  | -0.025<br>-0.05  | M60x2     | 5         | A+52+10   |
| 3H-208     | A6            | TK-A853  | 20         | 16.5 | 12 | 30 | 33.5       | M60x2   | 20 | 55  | -0.03<br>-0.06   | M75x2     | 5         | A+60+12   |
| 3H-210     | A8            | TK-A1075 | 25         | 21   | 12 | 35 | 28.5       | M85x2   | 25 | 80  | -0.03<br>-0.06   | M95x2     | 5         | A+59.5+12 |
| 3H-212     | A11           | TK-A1512 | 30         | 23   | 12 | 45 | 32         | M130x2  | 30 | 125 | -0.043<br>-0.083 | M115x2    | 5         | A+70+12   |
| 3H-215     | A8            | TK-2114  | 35         | 33   | 17 | 45 | 44         | M155x2  | 40 | 145 | -0.043<br>-0.083 | M115x2    | 5         | A+87+17   |
| 3H-215     | A11           | TK-2114  | 35         | 33   | 17 | 45 | 51         | M155x2  | 40 | 145 | -0.043<br>-0.083 | M155x3    | 5         | A+93+17   |
| 3H-215     | A15           | TK-2114  | 35         | 33   | 17 | 45 | 38         | M155x2  | 40 | 145 | -0.043<br>-0.083 | M155x3    | 5         | A+81+17   |
| 3H-18B     | A15           | TK-2416  | 35         | 35   | 17 | 45 | 45         | M180x3  | 40 | 170 | -0.043<br>-0.083 | M175x3    | 5         | A+90+17   |
| 3H-221     | A15           | TK-2416  | 35         | 34   | 17 | 45 | 42         | M180x3  | 40 | 170 | -0.043<br>-0.083 | M190x3    | 5         | A+86+17   |
| 3H-224     | A20           | TK-2820  | 51         | 35   | 17 | 45 | 42         | M220x3  | 40 | 210 | -0.050<br>-0.096 | M225x3    | 5         | A+71+17   |
| 3H-232     | A20           | TK-2820  | 51         | 37   | 17 | 45 | 51         | M220x3  | 45 | 230 | -0.050<br>-0.096 | M295x3    | 5         | A+82+17   |

註：2H,4H 型式之拉桿長度計算同 3H、3H-2 型式。(Note: To calculate the draw-tube length of 2H,4H as 3H,3H-2.)



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

### 技術規格 SPECIFICATIONS

| 夾頭型式<br>Chuck type | 迴轉缸型式<br>Cylinder type | B  | C     | D     | G1<br>max. | G2<br>min. | K1            | K2       | L           |
|--------------------|------------------------|----|-------|-------|------------|------------|---------------|----------|-------------|
| <b>3P-04</b>       | RK-75(N)/RA-130        | 30 | 30/20 | 30/25 | 45         | 3          | M20x2.5/M16x2 | M10x1.5  | A-22/A-32   |
| <b>3P-05</b>       | RK-75(N)/RA-130        | 40 | 30/20 | 30/25 | 45         | -6         | M20x2.5/M16x2 | M12x1.75 | A-13/A-23   |
| <b>3P-06</b>       | RK-100(N)/RA-170       | 40 | 30/25 | 30/25 | 45         | 81.5       | M20x2.5/M16x2 | M16x2    | A-101/A-106 |
| <b>3P-08</b>       | RK-125(N)/RA-220       | 40 | 40/30 | 35/30 | 50         | 106        | M24x3/M20x2.5 | M20x2.5  | A-120/A-130 |
| <b>3P-10</b>       | RK-125(N)/RA-220       | 40 | 40/30 | 35/30 | 50         | 133        | M24x3/M20x2.5 | M20x2.5  | A-147/A-157 |
| <b>3P-12</b>       | RK-150(N)/RA-270       | 40 | 40/35 | 45/35 | 55         | 133        | M30x3.5/M24x3 | M20x2.5  | A-152/A-157 |
| <b>3P-215</b>      | RK-200(N)/RH-200       | 60 | 55    | 55    | 70         | 69         | M36x4         | M30x3.5  | A-88        |
| <b>3P-218</b>      | RK-200(N)/RH-200       | 60 | 55    | 55    | 70         | 57         | M36x4         | M30x3.5  | A-76        |
| <b>3P-221</b>      | RK-200(N)/RH-200       | 60 | 55    | 55    | 70         | 62         | M36x4         | M30x3.5  | A-81        |
| <b>3P-224</b>      | RK-200(N)/RH-200       | 60 | 55    | 55    | 70         | 62         | M36x4         | M30x3.5  | A-81        |

註 :2P 型式之拉桿長度計算同 3P 型式。(Note:To calculate the draw-bar length of 2P as 3P.)

| 夾頭型式<br>Chuck type | 迴轉缸型式<br>Cylinder type | B  | C  | D  | G1<br>max. | G2<br>min. | K1      | K2       | L     |
|--------------------|------------------------|----|----|----|------------|------------|---------|----------|-------|
| <b>3M-05</b>       | RK-75(N)               | 40 | 30 | 30 | 45         | -2         | M20x2.5 | M12x1.75 | A-17  |
| <b>3M-06</b>       | RK-100(N)              | 40 | 30 | 30 | 45         | 81.5       | M20x2.5 | M16x2    | A-101 |
| <b>3M-08</b>       | RK-125(N)              | 40 | 40 | 35 | 50         | 106        | M24x3.0 | M20x2.5  | A-120 |
| <b>3M-10</b>       | RK-150(N)              | 40 | 40 | 35 | 50         | 135        | M24x3.0 | M20x2.5  | A-148 |
| <b>3M-12</b>       | RK-150(N)              | 50 | 40 | 45 | 55         | 40         | M30x3.5 | M24x3    | A-59  |

註 :2M 型式之拉桿長度計算同 3M 型式。(Note:To calculate the draw-bar length of 2M as 3M.)







為精進產品品質, 本公司擁有規格變更之權利, 如有變更恕不另行通知。

We reserve the right to modify the specifications without prior notice.



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