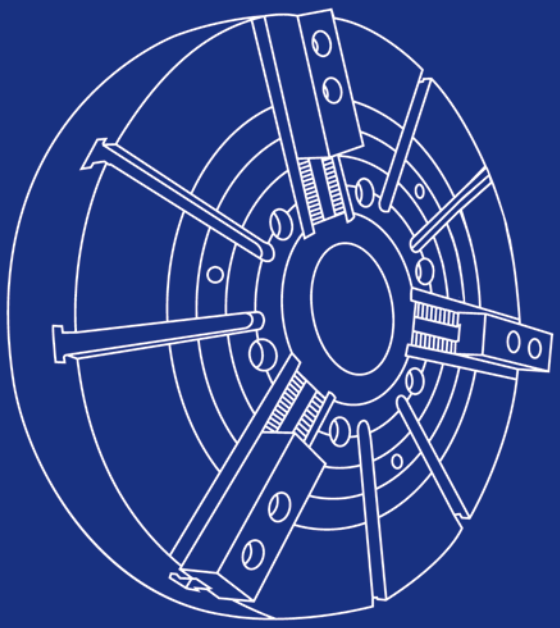
AUTOGRIP®



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。

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.

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。

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.

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。

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

佳賀精機彰化總廠

我們來自台灣　WE ARE FROM TAIWAN

佳賀精機的每一項產品都展現了濃厚的台灣精神 - 堅固耐用、剛性卓越、精度高，品質值得信賴。

憑藉優異的產品性能與良好的業界口碑，佳賀致力於提供最優化的工件夾持解決方案及專業服務，滿足各類製造需求。

Every product from AUTOGRIP Machinery embodies the strong spirit of Taiwan - durable, highly rigid, and precise, delivering trusted quality. With an excellent industry reputation, AUTOGRIP is committed to providing optimized workpiece clamping solutions and professional services to meet diverse manufacturing needs.

佳賀精機雲林廠 | AUTOGRIP Machinery Yunlin Factory

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

Testing Laboratory
3353

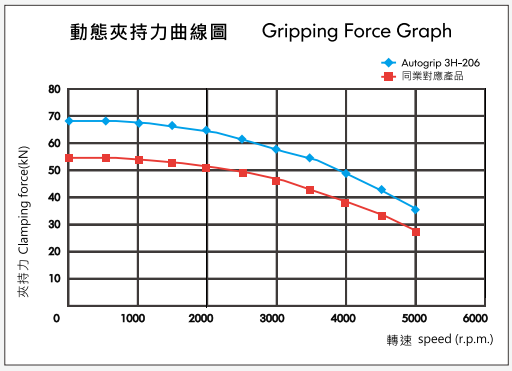
佳賀機械性能測試實驗室不斷開發可靠的測試設備與技術，為產品品質提供最嚴格的控管。新產品上市前，需經過一連串嚴格的測試，證明產品性能及精度符合設計規範。產品於製造過程中也需接受檢驗，確保產品的優良品質與一致性，替客戶的權益把關，提供客戶最安心的產品使用經驗。

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.

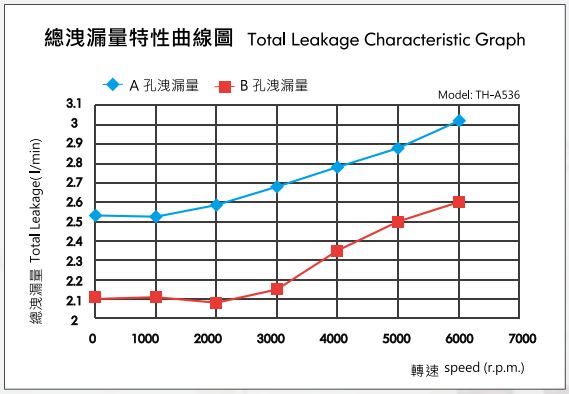
動態夾持力測試
Dynamic Gripping Force Test

- 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.



* 本實驗室經 TAF 認證項目：M 999 夾持力測試，包含動態夾持力測試及氣動夾頭夾持力檢測。

*AUTOGRIP Mechanical Testing Lab. is the only one holding ISO/IEC 17025 accreditation - M 999 Gripping Force Test . Include:Dynamic Gripping Force Test and Pneumatic chuck Test.






We Push the Boundaries of the Feasible

Your Trusted Partner in 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

我們提供量身訂製的夾持解決方案，以滿足您的特定需求：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. Available for customization

We provide tailor-made workholding solutions to meet your specific needs:

- Automatic clamping systems.
- Workpiece seating confirmation.
- Customized air/hydraulic cylinders.
- Rotary valves & joints.
- Special soft & hard jaws..

2. Extensive Selection: 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.


GFS-100

夾持力感測器

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.

AUTOGRIP

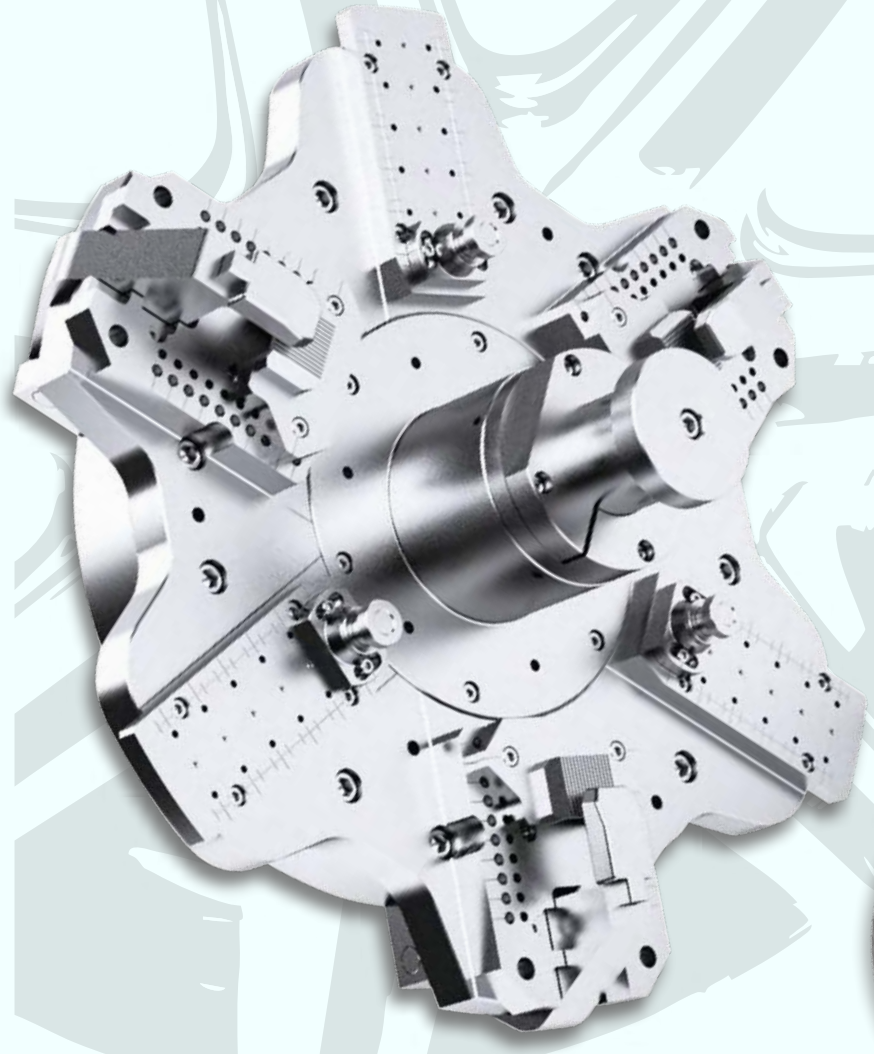
FINGER CHUCK FOR ALUMINUM WHEELS

鋁合金輪圈夾頭

3FW

一顆夾頭，對應多種尺寸。

高剛性 × 高精度 × 高彈性



特色 / FEATURES

- 高剛性、高精度。滑動面硬化研磨，穩定耐用。
- 對應 13"–24" 鋁合金輪圈。
- 可調承靠面，夾爪與驅動臂可更換。
- 治具可依工序更換，定心精度高。
- 適用 CNC 車床、輪圈加工機與車銑複合機。

- High rigidity and precision.
- Hardened and precision-ground slides for stability.
- For 13"–24" aluminum wheels .
- Adjustable supports with replaceable jaws and drive arms.
- For CNC lathes, wheel machines & MILL-TURN.

油壓中心架

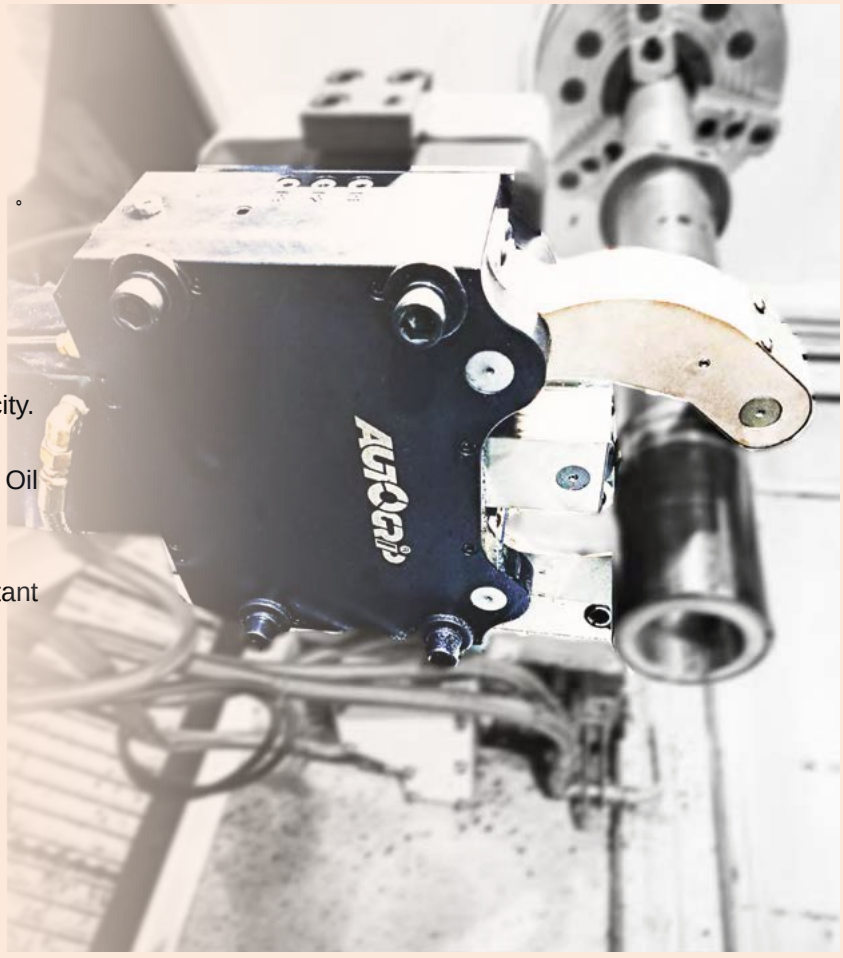
SELF-CENTERING STEADY REST

高剛性．高精度定位．穩定夾持

特色 / FEATURES

- 高夾持力與高同心度。
- 密封式主體設計。
- 中央潤滑系統 (可採用潤滑脂 / 油 / 油氣混合)。
- 內建止回閥鎖定機構。
- 防水防屑設計，可防止切削屑與液體進入主體。
- 配備防屑裝置。

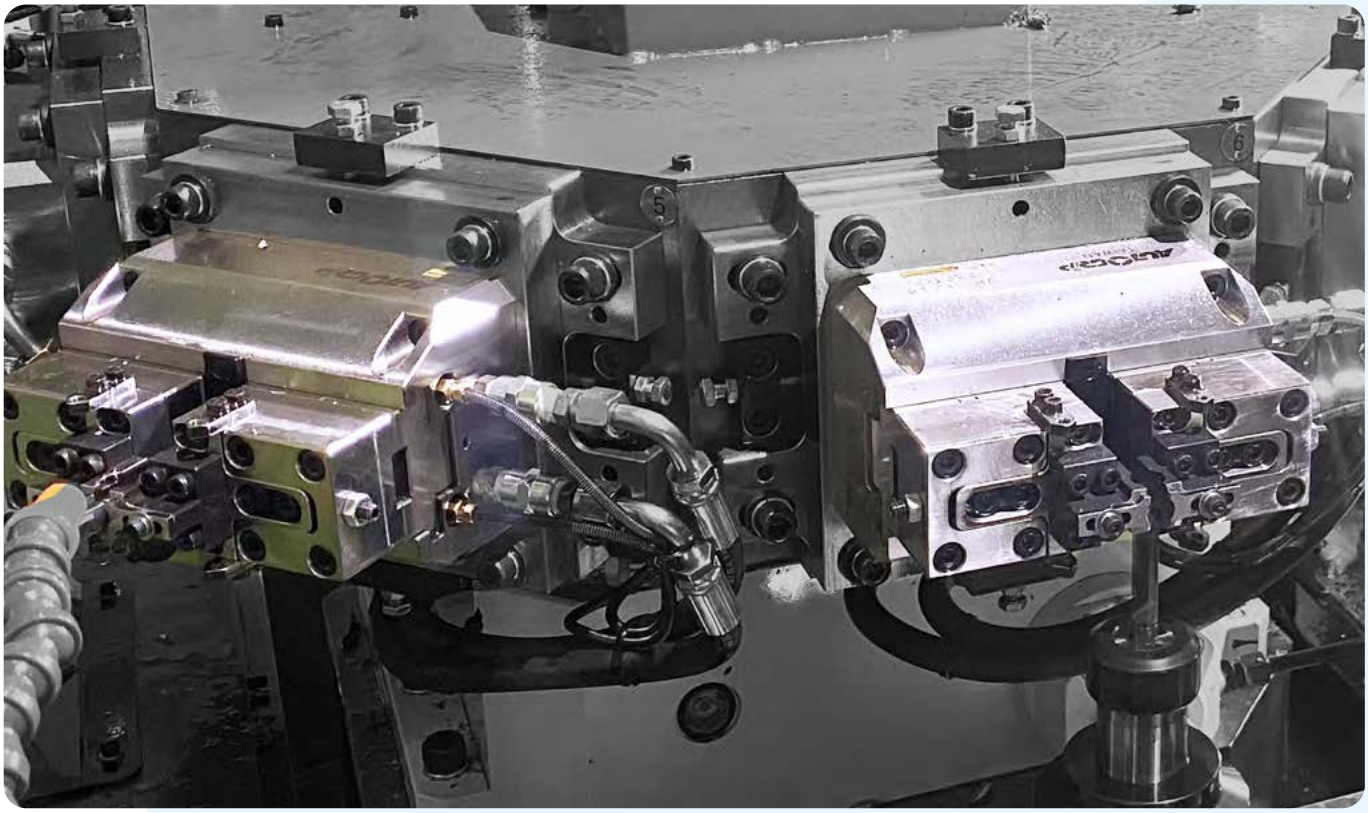
- High Clamping Force and High Concentricity.
- Enclosed Main Body Design.
- Central Lubrication System (Grease / Oil / Oil + Air).
- Built-in Check Valve Locking Mechanism.
- Compressed Air Waterproof & Chip-Resistant Design.
- Chip Guarding Device.



SR / 基本型

SRR / 進階型

SRB / 側置型



VRA|VRH

動力定心虎鉗

POWER CENTERING VISE

特色 / FEATURES

- 外型薄、短，提升機台作業空間利用率 。
- 側面與底部皆設油路輸入口，可依需求彈性連接 。
- 適用於銑床與加工中心機。

- Slim and compact design maximizes machine workspace utilization.
- Oil ports are available on both side and bottom for flexible connection options..
- ISuitable for milling machines and machining centers.

側向氣源介面
Side air inlet port

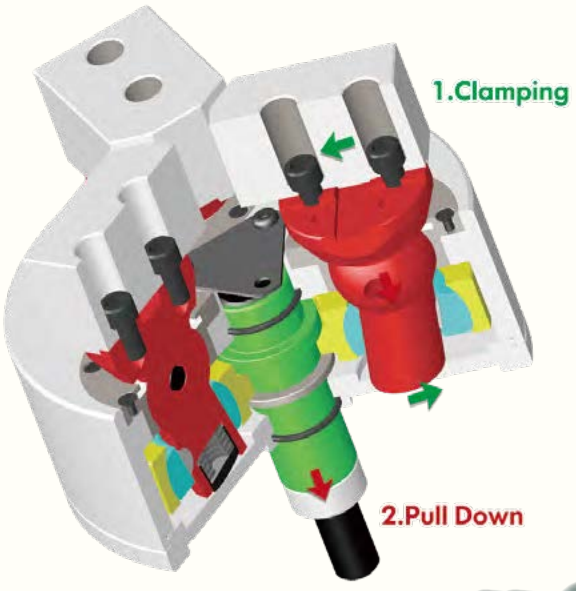
型號、規格、寸法，請參閱動力定心虎鉗頁面。Model, specifications, and dimensions, please refer to the Power Centering Vise page.

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

台灣精品 2018
TAIWAN EXCELLENCE

AP 三爪 / 中空型

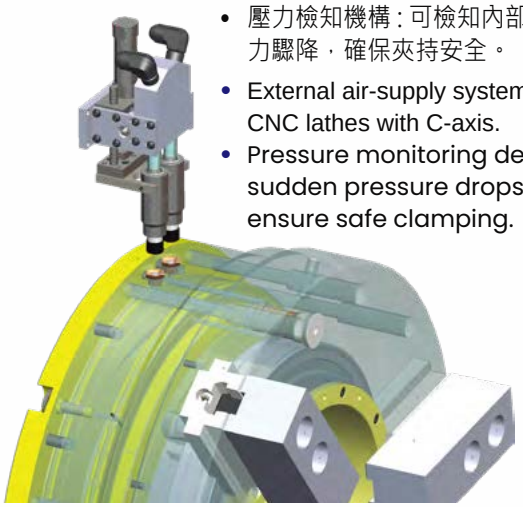
大孔徑中空氣動夾頭

特色 / FEATURES

- 超大通孔徑：Ø52mm~Ø375mm。
- 適合大型管材加工。
- 搭配注氣系統，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.
- Suitable for machining large pipes and tubes.
- Air-supply system with an integrated pneumatic cylinder.
- No traditional air tube distributor required, reducing installation and maintenance costs.

注氣系統
AIR SUPPLY 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。
- External air-supply system for CNC lathes with C-axis.
- Pressure monitoring detects sudden pressure drops to ensure safe clamping.



AUTOGRIP

POWER CHUCK FOR VERTICAL LATHE

楔形中實防切屑及防水動力夾頭

3V SERIES 系列

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 axles.
- 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.

AUTOGRIP

STATIONARY CHUCK
立置夾頭

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-type
* 斜楔式。
*Wedge-hook type.

SD - 立置式後拉夾頭
SD-type
* 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-type
* 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-type
* 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-type
* 後拉式 / 重切削 / 氣密檢知。
*Pull lock / Heavy duty machining/
Air tight detection.

AUTOGRIP

COLLET CHUCK
筒夾夾頭

車床用型式

CBD

RG

卸爪器

橡膠筒夾
Rubber Grip Collet

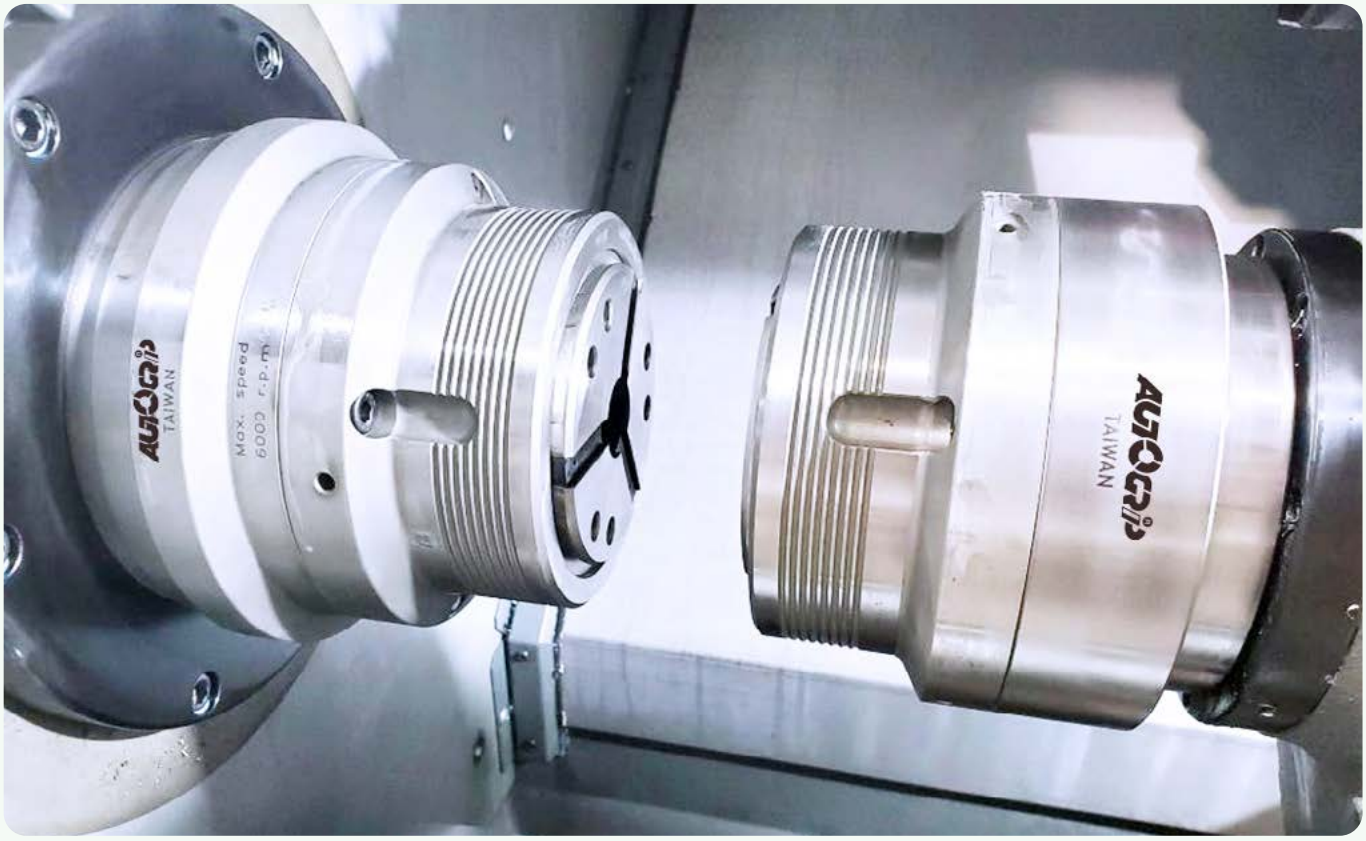
特色 / FEATURES

- 高夾持力 – 牢固夾緊，確保加工穩定。
- 高精度 – 適用於各種應用，精度始終如一。
- 快速卡爪更換 – 快速設置，提高效率。
- 防塵防屑 – 在惡劣環境下也能可靠運作。
- 夾持範圍 ±0.5 毫米 – 靈活多樣的夾持解決方案。

- High Gripping Force – Secure clamping for stable machining.
- High Accuracy – Consistent precision for every application.
- Quick Jaw Change – Fast setup for improved efficiency.
- Dust-proof & Swarf-proof – Reliable performance in harsh environments.
- Grip Range ±0.5mm – Flexible and versatile clamping solution.

銑床用型式 : 內建油 (氣) 缸
搭配硬爪拆卸工具，爪件更換更便利


SCB　　RG



AUTOGRIP

ROTARY CYLINDER & LINEAR POSITION SENSOR

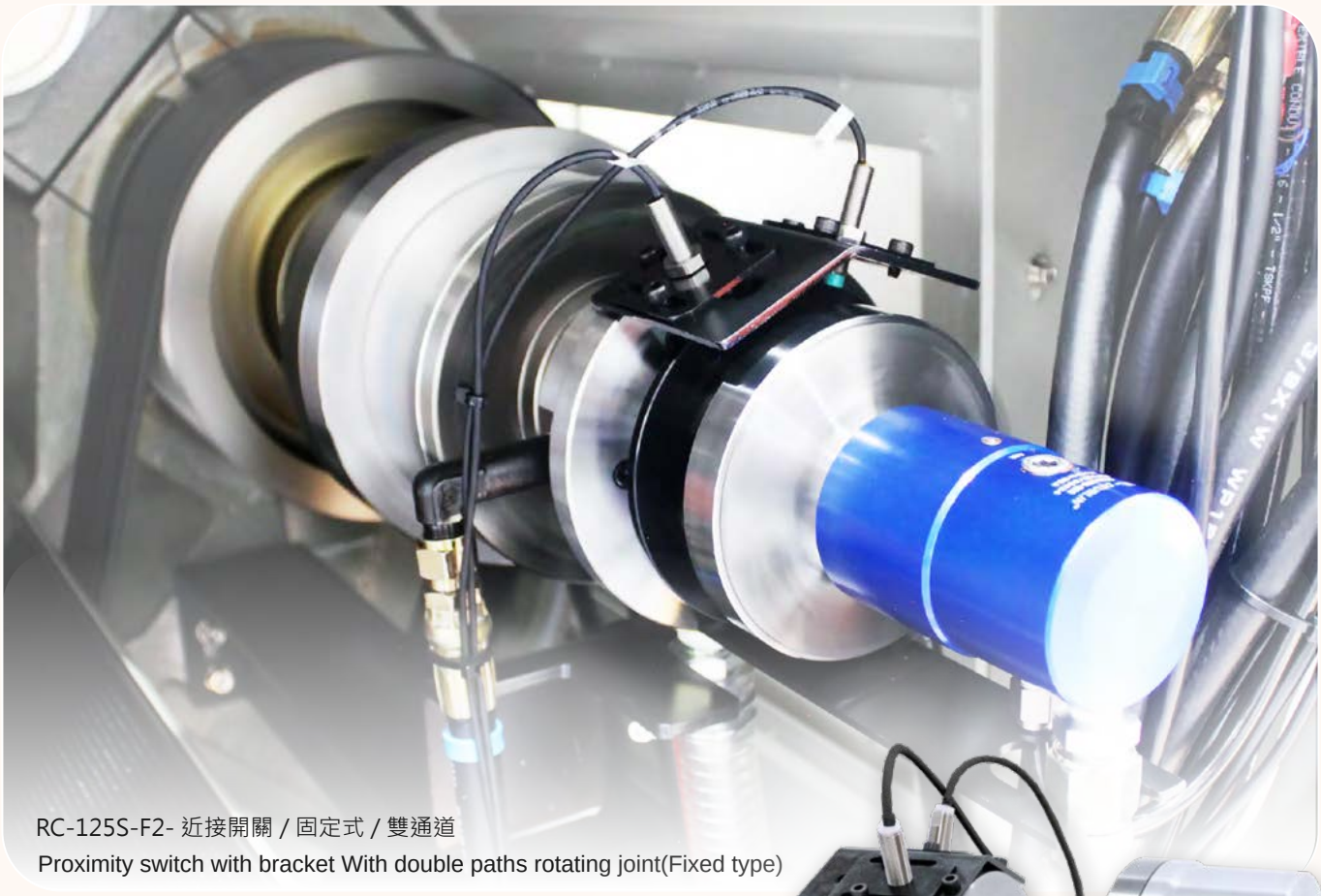
超短型中空 / 中實迴轉油壓缸附線性定位系統機構

減少停機時間=增加產出利潤

立式車床油壓缸

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.



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

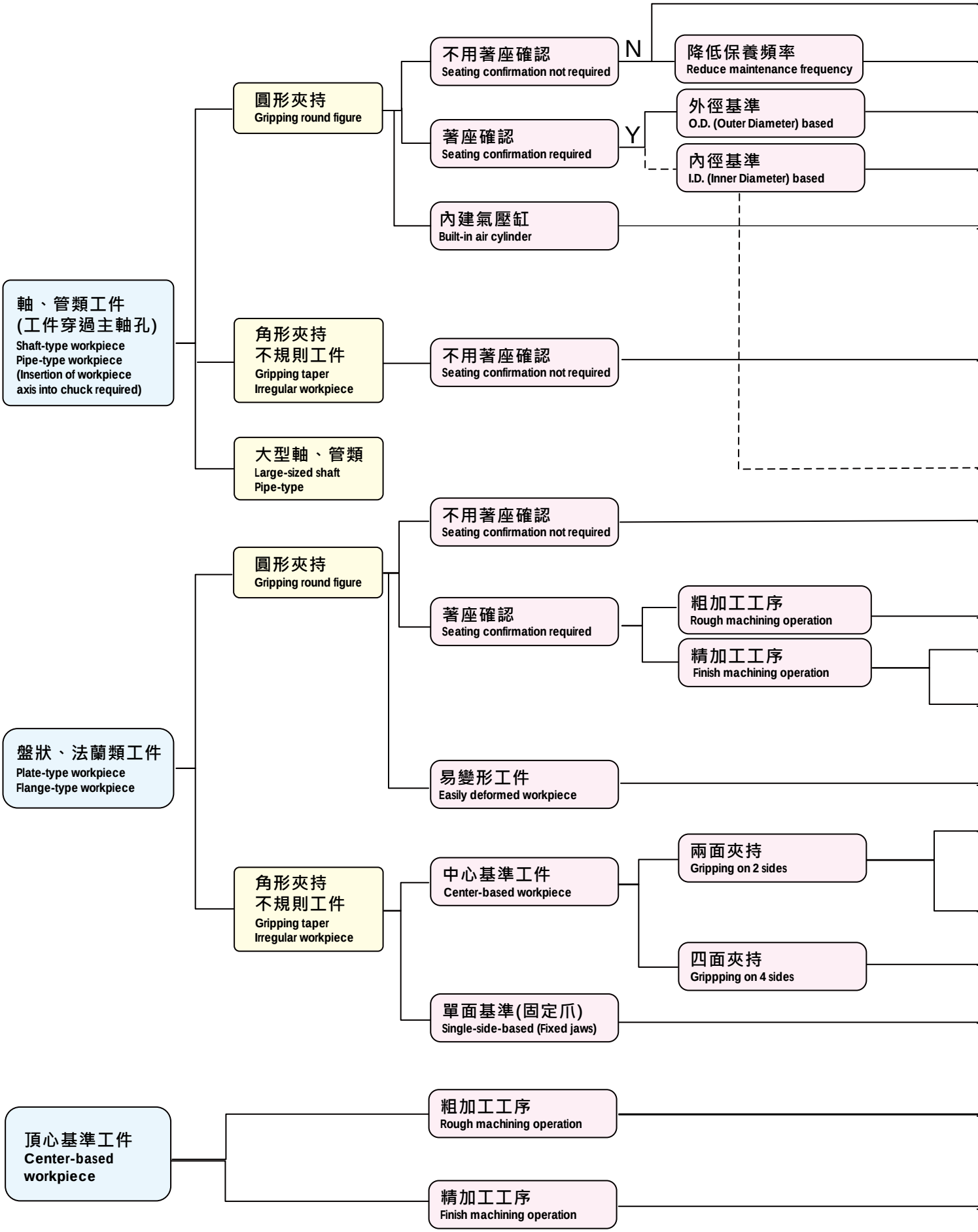
RC series

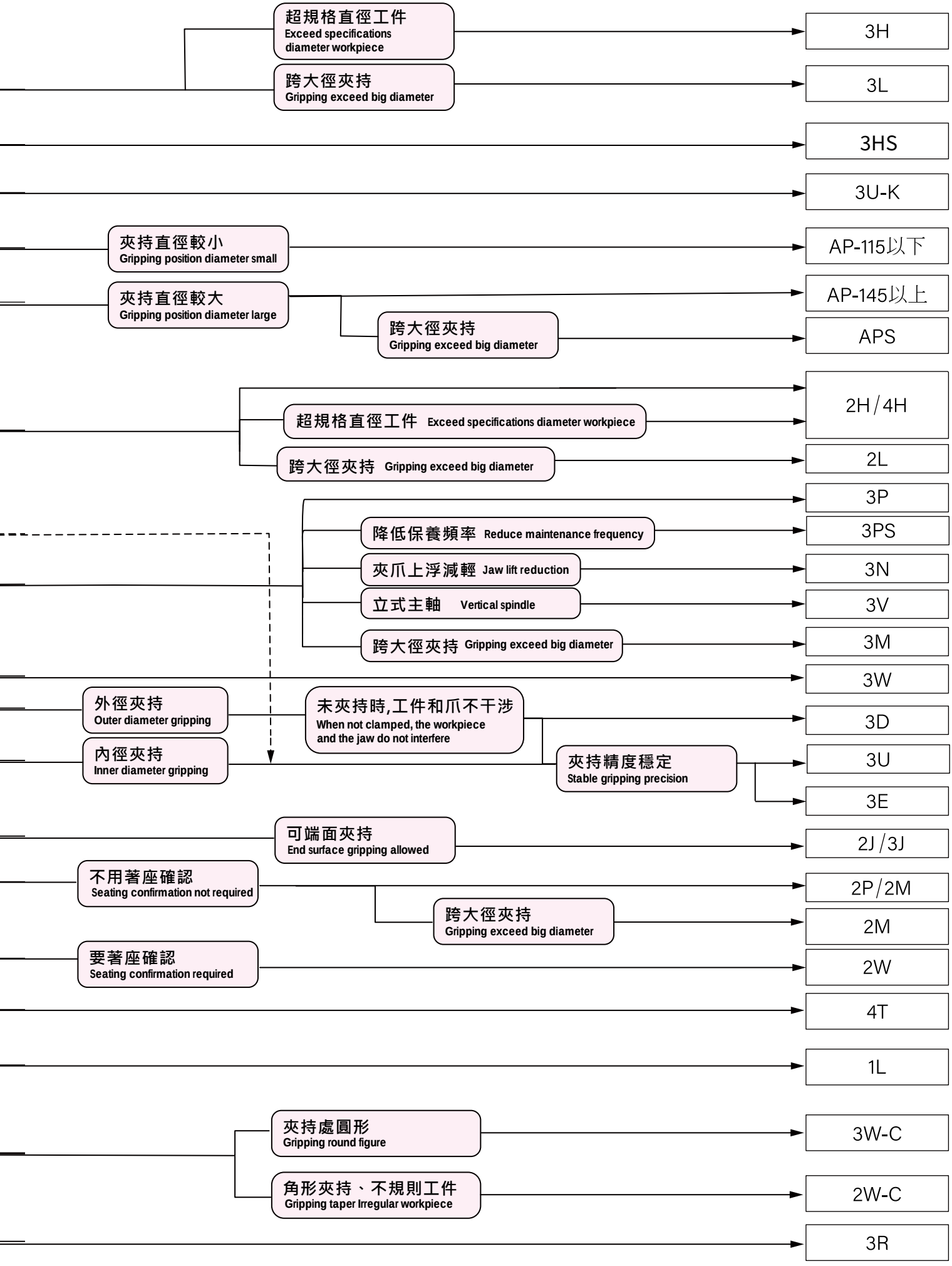
迴轉接頭外接型迴轉油壓缸
HYDRAULIC CYLINDER WITH ROTATING JOINT

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 buil-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.

夾頭選定建議表
CHUCK CHOOES PROPOSE LIST





* 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

特殊動力夾頭 Special Purpose Power Chucks

筒夾夾頭 Collet Chucks

立置式夾頭 Stationary Chucks

轉盤用氣壓夾頭 Pneumatic Rotary Chuck

手動夾頭 Manual Chuck

虎鉗 Vises

INDEX [Product Description]

展刀搪溝頭 Facing Heads

同步夾具 Synchronous Clamp

空油壓迴轉缸 Rotary Cylinders

迴轉分流閥 Rotary Valvies

RV
油壓迴轉分流閥
HYDRAULIC ROTARY VALVE
油路分配器
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RV-A
空壓迴轉分流閥
AIR ROTARY VALVE
空壓 AIR
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迴轉接頭 Rotary Joints

RJ-52
單通道迴轉接頭
SINGLE-PASSAGE ROTATING JOINT
單通道 SINGLE-PASSAGE
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RJ-80
冷卻液迴轉接頭
COOLANT ROTATING JOINT
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3H-2/3H-2A 中空動力夾頭
LARGE THRU-HOLE POWER CHUCK

三爪超大孔徑中空型

- 楔形三爪超大貫通孔徑。
- 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 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.

3H-215 A8
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Refer to Fig.A
參閱圖 A

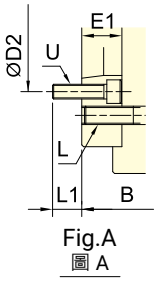
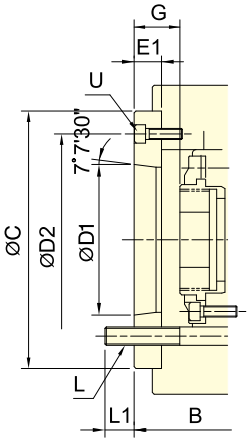
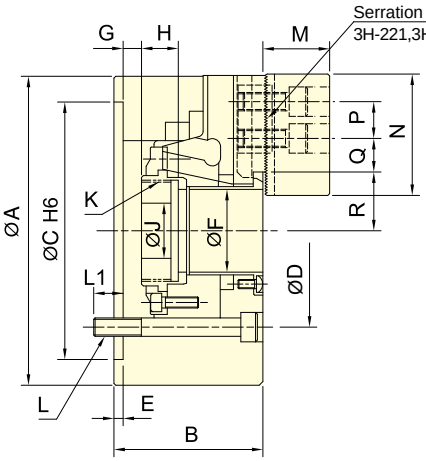
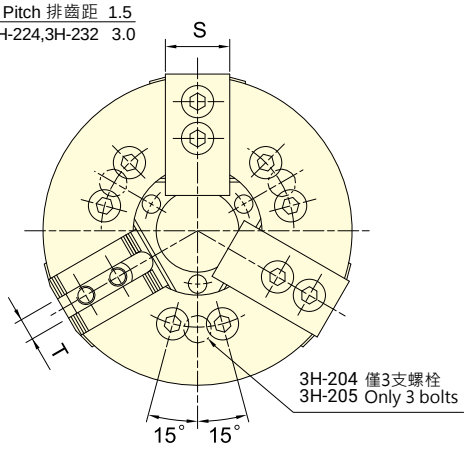


Fig.A
圖 A



3H-BA,3H-2A





3H-B,3H-2

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

技術規格 SPECIFICATIONS

型號 Model		通孔徑 Thru-hole (Dia.)	楔心行程 Plunger stroke	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg			MPa (kgf/cm²)
3H-204	A4	32	13	5.5	113	7	13.7(1400)	36(3670)	8000	0.012	4.22	5.34	TK-A528	2.0 (20)
3H-205	A4	39	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	53	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	66	18	7.6	210	17	31.9(3250)	95.7(9760)	5000	0.15	21.8	23.4	TK-A853	2.6 (26)
3H-210	A8	86	21	8.9	260	37	49.1(5010)	152(15500)	4500	0.32	37.5	43	TK-A1075	3.2 (32)
3H-212	A11	106	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	145	25	10.6	405	49	71(7240)	180(18350)	2500	2.8	127	149	TK-2114	2.1 (21)
3H-215	A11	145	25	10.6	405	49	71(7240)	180(18350)	2500	2.8	127	143.3	TK-2114	2.1 (21)
3H-215	A15	145	25	10.6	405	49	71(7240)	180(18350)	2500	2.8	127	135.6	TK-2114	2.1 (21)
3H-18B	A15	165	23	10.6	456	79	71(7240)	180(18350)	2000	4.8	162.4	173.4	TK-2416	1.9 (19)
3H-221	A15	180	28	12.9	530	105	90(9175)	234(23860)	1800	7.5	223	234	TK-2416	2.4 (24)
3H-224	A20	210	28	12.9	610	135	100(10200)	240(24500)	1500	15.8	270	284	TK-2820	2.1 (21)
3H-232	A20	275	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	64	25	3~M12
3H-224	A20	M225x3		M225x3		6~M24	35.0	33	73	180	60	93.5	24.5	128	121.5	64	25	3~M12
3H-232	A20	M295x3		M295x3		6~M24	36.0	34	73	180	60	150.5	24.5	166	157	64	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.

3H/3H-A 中空動力夾頭
THRU-HOLE POWER CHUCK

- 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.

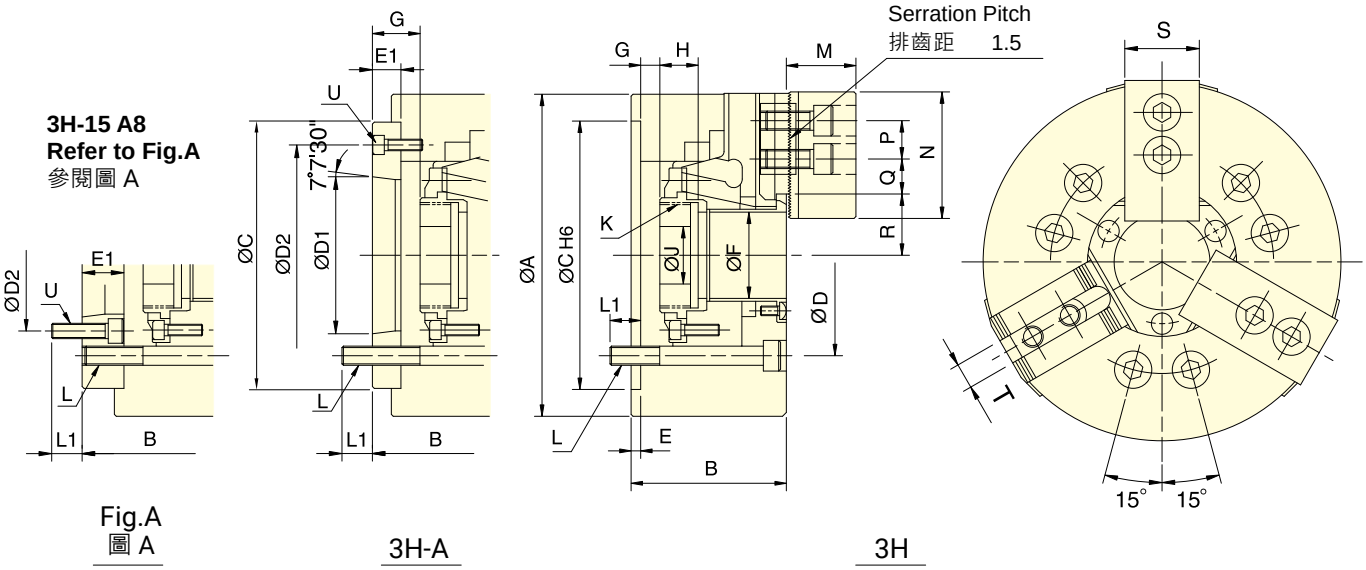


Fig.A 圖 A　　3H-A　　3H

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

技術規格 SPECIFICATIONS

型號 Model		通孔徑 Thru-hole (Dia.)	楔心行程 Plunger stroke	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	夾持直徑 Chucking Dia. 最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg			MPa (kgf/cm²)
3H-12	A8	91	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	120	25	10.6	381	50	71(7250)	179.8(18350)	2500	2.28	120	134	TK-A1512	2.3(23)
3H-15	A11	120	25	10.6	381	50	71(7250)	179.8(18350)	2500	2.28	120	127	TK-A1512	2.3(23)
3H-18	A11	120	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		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	82.75	21.25	77.5	72.2	62	25.5 or 22	3~M10

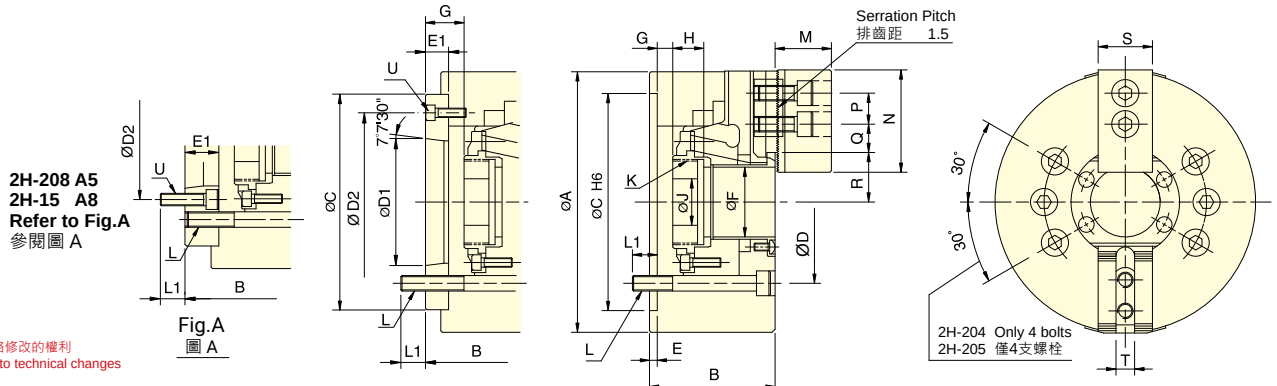
紅色數據為 3H-A 型之寸法 (The dimensions and the specifications of 3H-A type are in red data.)

2H/2H-A 中空動力夾頭
THRU-HOLE POWER CHUCK

- 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.



技術規格 SPECIFICATIONS

型號 Model		通孔徑 Thru-hole (Dia.)	楔心行程 Plunger stroke	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg			MPa (kgf/cm²)
2H-204	A4	32	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	39	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	53	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	66	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	66	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	86	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	91	25	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	120	25	10.6	381	50	46.9(4790)	119.6(12200)	2500	2.42	115	129	TK-A1512	1.5(15)
2H-15	A11	120	25	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	10	28	-15	3	28	50
2H-15	A8	381	133	160	300	235	139.72	171.4	6	33	120	11	44	-14	19	39	60
2H-15	A11	381	133	149	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
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	44.75	14.75	61.3	56	50	21	3~M8
2H-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
2H-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

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

- 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.

4H-208 A5
4H-210 A6
4H-15 A8
Refer to Fig.A
參閱圖 A

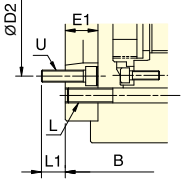
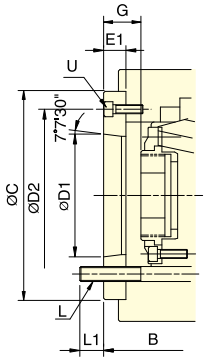
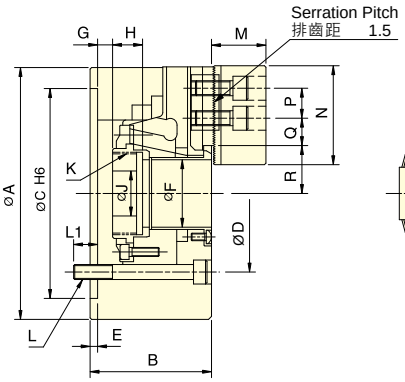


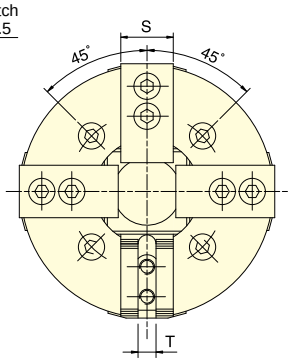
Fig.A
圖 A



4H-A、4H-2A



4H、4H-2



技術規格 SPECIFICATIONS

型號 Model		通孔徑 Thru-hole (Dia.)	楔心行程 Plunger stroke	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	夾持直徑 Chucking Dia. 最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg			MPa (kgf/cm²)
4H-206	A5	53	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	66	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	66	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	86	21	8.9	260	37	49.1(5010)	152.0(15500)	3800	0.4	38.7	44	TK-A1075	3.2(32)
4H-210	A8	86	21	8.9	260	37	49.1(5010)	152.0(15500)	3800	0.4	38.7	42.3	TK-A1075	3.2(32)
4H-12	A8	91	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	120	25	10.6	381	50	71(7250)	179.8(18350)	2000	2.31	117.6	130	TK-A1512	2.3(23)
4H-15	A11	120	25	10.6	381	50	71(7250)	179.8(18350)	2000	2.31	117.6	123.5	TK-A1512	2.3(23)
4H-18	A11	120	25	10.6	450	50	71(7250)	179.8(18350)	1700	4.35	162.6	168.5	TK-A1512	2.3(23)

外型尺寸 DIMENSIONS

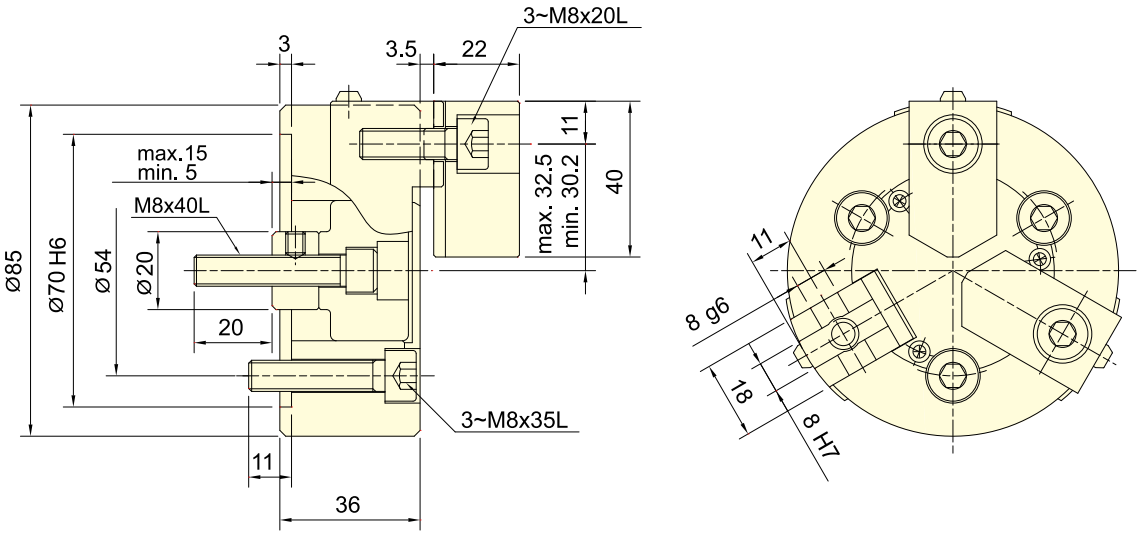
Model		A	B		C	D	D1	D2	E	E1	F	G max.		G min.		H	J
4H-206	A5	170	81	91	140	104.8	82.56	116	5	15	53	13	28	-1	14	17.5	20
4H-208	A5	210	91	109	170	133.4	82.56	104.8	5	23	66	16.5	39.5	-1.5	21.5	20	30
4H-208	A6	210	91	103	170	133.4	106.38	150	5	17	66	16.5	33.5	-1.5	15.5	20	30
4H-210	A6	260	102	122	220	171.4	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	132	159	300	235	139.72	171.4	6	33	120	11	44	-14	19	39	60
4H-15	A11	381	132	148	300	235	196.87	260	6	22	120	11	33	-14	8	39	60
4H-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
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	49.75	19.75	77.5	72.2	62	25.5 or 22	6~M16
4H-15	A11	M130x2	M130x2	4~M20	31	28	63	165	43	49.75	19.75	77.5	72.2	62	25.5 or 22	3~M10
4H-18	A11	M130x2	M130x2	4~M20	31	29	63	165	43	82.75	21.25	77.5	72.2	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.)

3P/3P-A 中實動力夾頭 (一)
MINI POWER CHUCK

- 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.

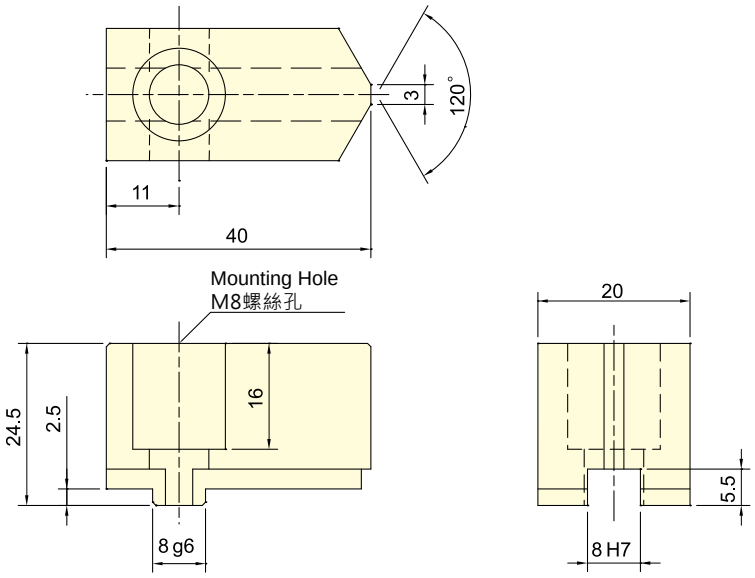


技術規格 SPECIFICATIONS

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^{-1} (r.p.m.)	$kg·m^2$	kg		MPa (kgf/cm^2)
3P-03	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

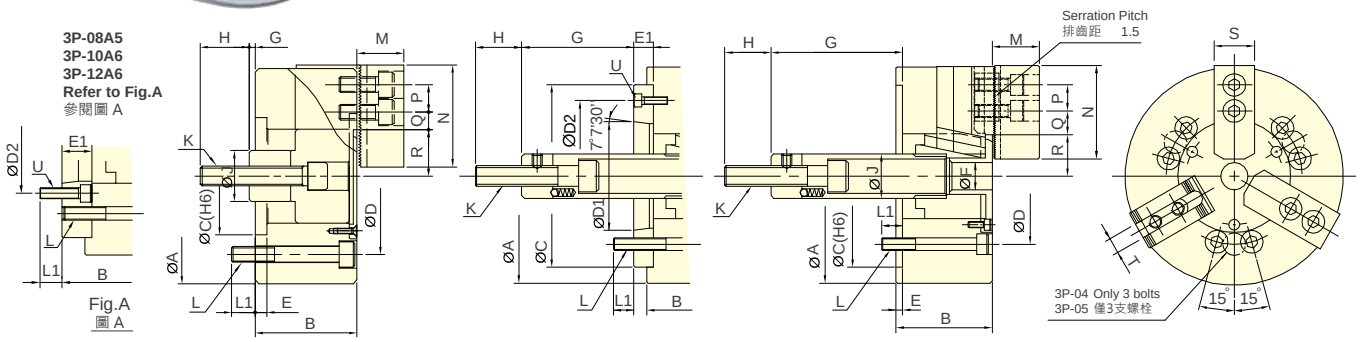
SJ-K03



3P/3P-A 中實動力夾頭 (二)
POWER CHUCK

三爪高速中實型

- 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 Model		楔心行程 Plunger stroke	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg·m^2	kg			MPa (kgf/cm^2)
3P-04		15	6.9	110	5	8.1(830)	22.5(2300)	6000	0.01	4.1	-	RK-75(N) RA-130	2.2(22) 0.6(6)
3P-05		15	6.9	135	14	8.1(830)	25(2550)	5500	0.02	6.2	-	RK-75(N) RA-130	2.2(22) 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) RA-170	2.6(26) 0.6(6)
3P-08	A5	21	9.7	210	21	25(2550)	74.5(7600)	4750	0.14	24	28	RK-125(N) RA-220	2.3(23) 0.5(5)
3P-08	A6	21	9.7	210	21	25(2550)	74.5(7600)	4750	0.14	24	27	RK-125(N) RA-220	2.3(23) 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) RA-220	2.6(26) 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) RA-220	2.6(26) 0.6(6)
3P-12	A6	30	10.5	304	24	41(4180)	155.8(15900)	3360	0.73	59	65	RK-150(N) RA-270	2.6(26) 0.8(8)
3P-12	A8	30	10.5	304	24	41(4180)	155.8(15900)	3360	0.73	59	63	RK-150(N) RA-270	2.6(26) 0.8(8)

外型尺寸 DIMENSIONS

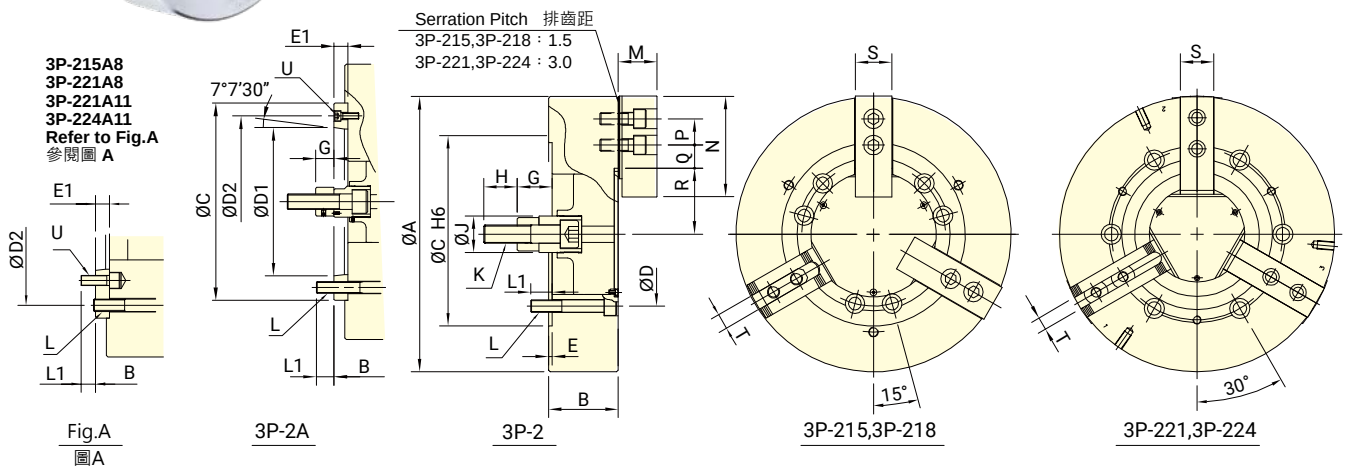
Model		A	B		C	D	D1	D2	E	E1	F	G max.		G min.		H	J
3P-04		110	52	-	60	80	-	-	6	-	-	18	-	3	-	25	26
3P-05		135	55	-	80	100	-	-	7	-	-	9	-	-6	-	35	28
3P-06	A5	165	74	84	140	104.8	82.56	116	5	15	21	102.5	87.5	82.5	67.5	35	34
3P-08	A5	210	85	103	170	133.4	82.56	104.8	5	23	25	126.6	103.6	105.6	82.6	36	38
3P-08	A6	210	85	97	170	133.4	106.38	150	5	17	25	126.6	109.6	105.6	88.6	36	38
3P-10	A6	254	89	109	220	171.4	106.38	133.4	5	25	34	157	132	132	107	36	45
3P-10	A8	254	89	102	220	171.4	139.72	190	5	18	34	157	139	132	114	36	45
3P-12	A6	304	106	125	220	171.4	106.38	133.4	6	25	34	163	138	133	108	36	50
3P-12	A8	304	106	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	15.75	6.75	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	49.25	13.25	61	55.75	50	18 or 21	6~M12
3P-12	A8	M20x2.5	6~M16	18	25	51	130	30	49.25	13.25	61	55.75	50	18 or 21	3~M8

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

3P/3P-A 中實動力夾頭 (三)
POWER CHUCK

- 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 Model		楔心行程 Plunger stroke	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg			MPa (kgf/cm²)
3P-215	A8	35	16	381	50	82(8360)	249(25390)	3000	1.8	109.9	122.4	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	116	RH-200 or RK-200(N)	2.8(28)
3P-218	A11	35	16	450	60	82(8360)	249(25400)	2800	2.32	124	130	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	200	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	194	RH-200 or RK-200(N)	2.8(28)
3P-224	A11	35	16	610	152	82(8360)	272.6(27800)	1750	7	230	246.28	RH-200 or RK-200(N)	2.8(28)
3P-224	A15	35	16	610	152	82(8360)	272.6(27800)	1750	7	230	238.6	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	64	25	6~M16
3P-221	A11	6~M24	31	28	71	180	60	96.5	24.5	86	78	64	25	6~M20
3P-224	A11	6~M24	31	28	71	180	60	96.5	24.5	125	117	64	25	6~M20
3P-224	A15	6~M24	31	34	71	180	60	96.5	24.5	125	117	64	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.

2P-08 A5
2P-10 A6
Refer to Fig.A
參閱圖 A

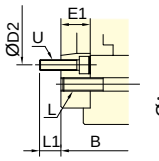
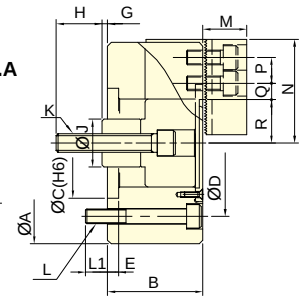
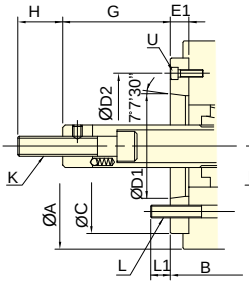


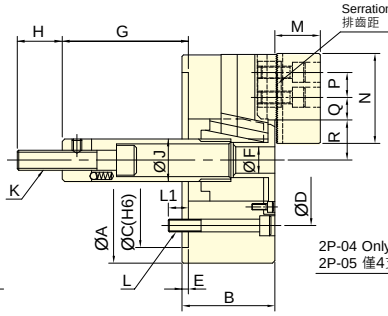
Fig.A
圖 A



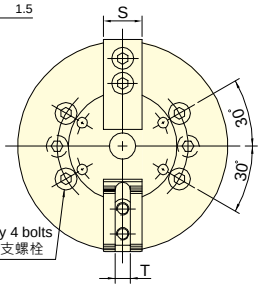
2P-04、2P-05



2P-A



2P



技術規格 SPECIFICATIONS

型號 Model		楔心行程 Plunger stroke	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	夾持直徑 Chucking Dia. 最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg			MPa (kgf/cm²)
2P-04		15	6.9	110	5	5.3(540)	14.7(1500)	6000	0.01	3.8	-	RK-75(N) RA-130	1.5(15) 0.4(4)
2P-05		15	6.9	135	14	5.3(540)	16.7(1700)	5500	0.02	5.8	-	RK-75(N) RA-130	1.5(15) 0.4(4)
2P-06	A5	20	9.2	165	14	12(1220)	35(3570)	5250	0.04	12	13	RK-100(N) RA-170	1.7(17) 0.4(4)
2P-08	A5	21	9.7	210	17	16.5(1680)	50(5100)	4750	0.13	22	26	RK-125(N) RA-220	1.5(15) 0.4(4)
2P-08	A6	21	9.7	210	17	16.5(1680)	50(5100)	4750	0.13	22	25	RK-125(N) RA-220	1.5(15) 0.4(4)
2P-10	A6	25	8.8	254	22	19.4(1980)	71.5(7300)	4000	0.29	33	42	RK-125(N) RA-220	1.8(18) 0.4(4)
2P-10	A8	25	8.8	254	22	19.4(1980)	71.5(7300)	4000	0.29	33	40	RK-125(N) RA-220	1.8(18) 0.4(4)
2P-12	A8	30	10.5	304	22	27.4(2800)	103.9(10600)	3360	0.70	57	61	RK-150(N)	1.7(17)
2P-15	A11	35	16	381	50	54.9(5600)	164.6(16800)	3000	1.70	96	103	RK-200(N)	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	-	25	26
2P-05		135	55	-	80	100	-	-	7	-	-	9	-	-6	-	35	28
2P-06	A5	165	74	84	140	104.8	82.56	116	5	15	21	102.5	87.5	82.5	67.5	35	34
2P-08	A5	210	85	103	170	133.4	82.56	104.8	5	23	25	126.6	103.6	105.6	82.6	36	38
2P-08	A6	210	85	97	170	133.4	106.38	150	5	17	25	126.6	109.6	105.6	88.6	36	38
2P-10	A6	254	89	109	220	171.4	106.38	133.4	5	25	34	157	132	132	107	36	45
2P-10	A8	254	89	102	220	171.4	139.72	190	5	18	34	157	139	132	114	36	45
2P-12	A8	304	106	118	220	171.4	139.72	190	6	18	34	163	145	133	115	36	50
2P-15	A11	381	114	130	300	235	196.87	260	6	22	-	104	82	69	47	55	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	14	11.2	6.7	23.3	20.15	23	10	-
2P-05		M12x1.75	4~M8	14	-	31	62	14	15.75	6.75	30.4	26.95	25	10	-
2P-06	A5	M16x2	6~M10	14	14	37	73	20	18.25	9.25	38.25	33.65	31	12	3~M6
2P-08	A5	M20x2.5	6~M12	20	17	38	95	25	25.25	11.75	46.3	41.45	35	14	6~M10
2P-08	A6	M20x2.5	6~M12	20	18	38	95	25	25.25	11.75	46.3	41.45	35	14	3~M6
2P-10	A6	M20x2.5	6~M16	18	18	43	110	30	35.25	12.75	51.1	46.7	40	16	6~M12
2P-10	A8	M20x2.5	6~M16	18	25	43	110	30	35.25	12.75	51.1	46.7	40	16	6~M8
2P-12	A8	M20x2.5	6~M16	18	25	51	130	30	49.25	13.25	61	55.75	50	18 or 21	6~M8
2P-15	A11	M30x3.5	6~M20	30	33	63	165	43	48.8	23.3	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.)

3L/3L-A 超長爪行程動力夾頭
EXTRA LONG JAW STROKE POWER CHUCK

- 曲柄型三爪超大貫通孔徑，超長爪行程。
- 摺動面均經硬化及精密研磨，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

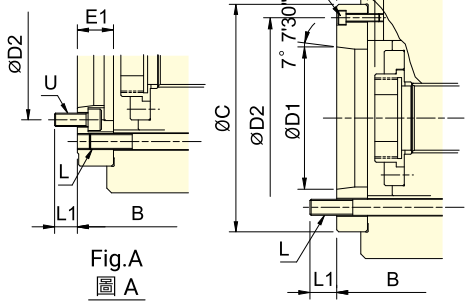
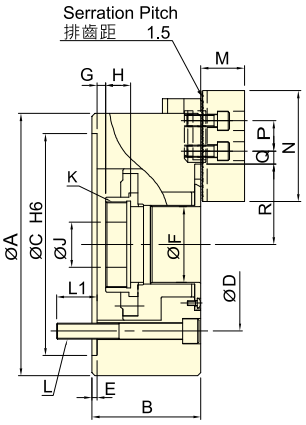
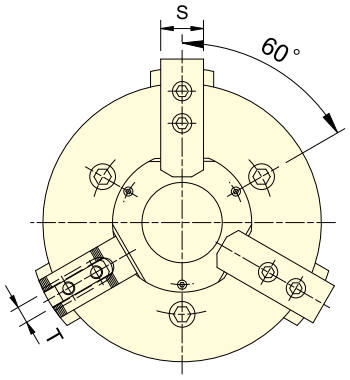


Fig.A
圖 A

3L-2A





3L-2

技術規格 SPECIFICATIONS

型號 Model		通孔徑 Thru-hole (Dia.)	楔心行程 Plunger stroke	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	夾持直徑 Chucking Dia. 最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹(r.p.m.)	kg·m²	kg			MPa (kgf/cm²)
3L-205	A4	32	12	18	138	6	15.6(1590)	17.2(1750)	4200	0.019	7.2	8	TK-A533	2.3(23)
3L-206	A5	45	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	52	20	32	215	30	34.3(3500)	35.0(3570)	3000	0.18	23	25.7	TK-A853	2.8(28)
3L-208	A6	52	20	32	215	30	34.3(3500)	35.0(3570)	3000	0.18	23	24.6	TK-A853	2.8(28)
3L-210	A6	75	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	75	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	91	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	120	35	52	405	52	84.3(8600)	85.0(8665)	1600	2.58	139	152	TK-A1512-35	2.7(27)
3L-215	A11	120	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

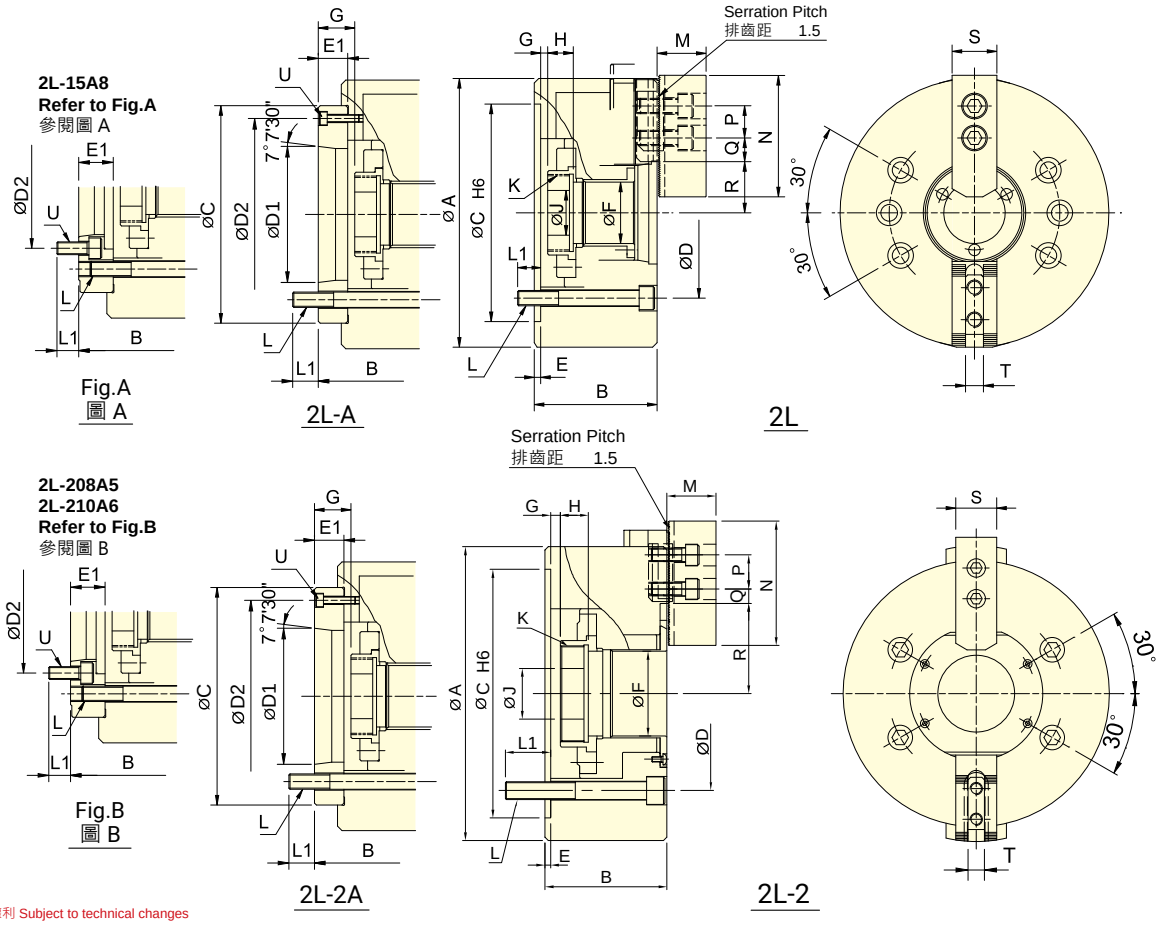
Model		A	B		C	D	D1	D2	E	E1	F	G max.		G min.		H	J
3L-205	A4	138	65	76	110	82.6	63.51	96	4	15	32	1	15	-11	3	20	12
3L-206	A5	170	84	97	140	104.8	82.56	116	5	18	45	6.5	24.5	-8.5	9.5	19	20
3L-208	A5	215	96	114	170	133.4	82.56	104.8	5	23	52	7	30	-13	10	20	30
3L-208	A6	215	96	114	170	133.4	106.38	150	5	23	52	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。
- 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 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.



技術規格 SPECIFICATIONS

型號 Model		通孔徑 Thru-hole (Dia.)	楔心行程 Plunger stroke	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	夾持直徑 Chucking Dia. 最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg·m^2	kg			MPa (kgf/cm^2)
2L-205	A4	32	12	18	138	6	10.4(1060)	11.4(1170)	4200	0.018	6.9	7.7	TK-A533	1.5(15)
2L-206	A5	45	15	24	170	24	15.7(1600)	17.3(1760)	3600	0.063	14.4	15.6	TK-C646	1.8(18)
2L-208	A5	52	20	32	215	30	22.9(2330)	27.1(2760)	3000	0.173	22	26	TK-A853	1.9(19)
2L-208	A6	52	20	32	215	30	22.9(2330)	27.1(2760)	3000	0.173	22	24.2	TK-A853	1.9(19)
2L-210	A6	75	25	37.5	260	53	31.8(3250)	37.3(3800)	2400	0.33	40	45.5	TK-A1075	2.1(21)
2L-210	A8	75	25	37.5	260	53	31.8(3250)	37.3(3800)	2400	0.33	40	44	TK-A1075	2.1(21)
2L-12	A8	91	30	45	304	30	43.1(4400)	50.0(5100)	2100	0.8	60	65.5	TK-A1291	2.0(20)
2L-15	A8	120	35	52	385	26	56.2(5730)	53.0(5400)	1600	2.52	133	147	TK-A1512-35	1.8(18)
2L-15	A11	120	35	52	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.)

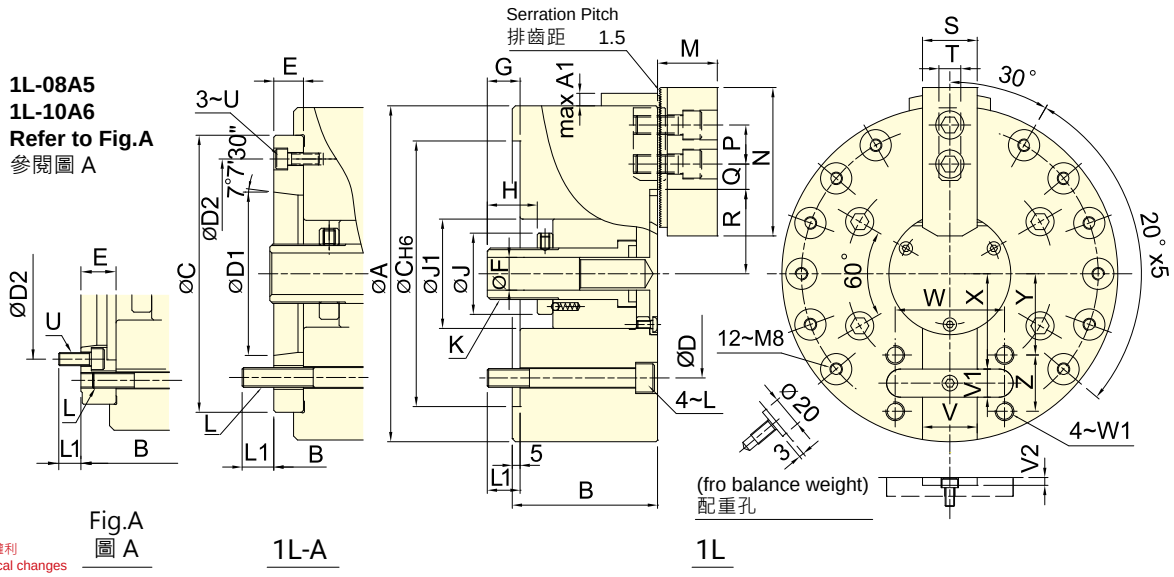
外型尺寸 DIMENSIONS

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

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

- 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.



技術規格 SPECIFICATIONS

型號 Model		楔心行程 Plunger stroke	爪行程 Jaw stroke	夾持直徑 Chucking Dia. 最大 Max.	夾持直徑 Chucking Dia. 最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	慣性 Moment of inertia	重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg			MPa (kgf/cm²)
1L-06	A5	20	16	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	20	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	20	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	24	254	17	21.6(2200)	48.5(4950)	2400	0.28	38.8	46	RK-150	1.3(13.7)
1L-10	A8	30	24	254	17	21.6(2200)	48.5(4950)	2400	0.28	38.8	44.3	RK-150	1.3(13.7)

外型尺寸 DIMENSIONS

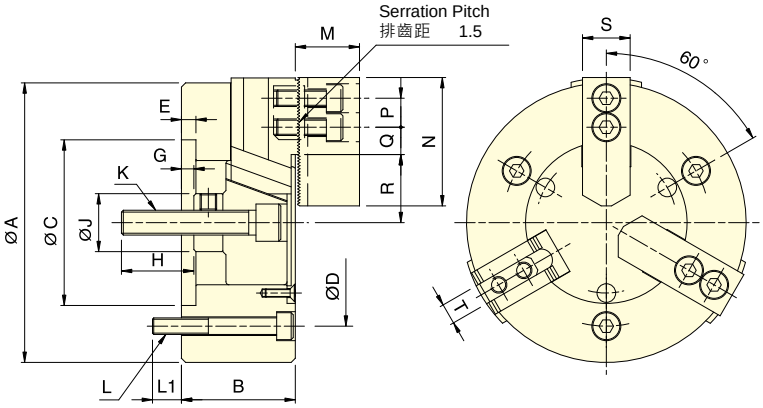
Model		A	A1	B		C	D	D1	D2	E	F	G max.	G min.	H	J	J1	K max.	L	L1	
1L-06	A5	168	9.5	80	90	140	104.8	82.56	116	15	21	37	17	25	46	54	M30x1.5	M10	16	16
1L-08	A5	215	8	93	111	170	133.4	82.56	104.8	23	21	46	21	32	52	70	M33x1.5	M12	21	19
1L-08	A6	215	8	93	105	170	133.4	106.38	150	17	21	46	21	32	52	70	M33x1.5	M12	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	M14	71	58.5	45
1L-10	A8	43	110	30	33.75	11.25	67	43	40	16	M8	40	20	5	90	M14	71	58.5	45

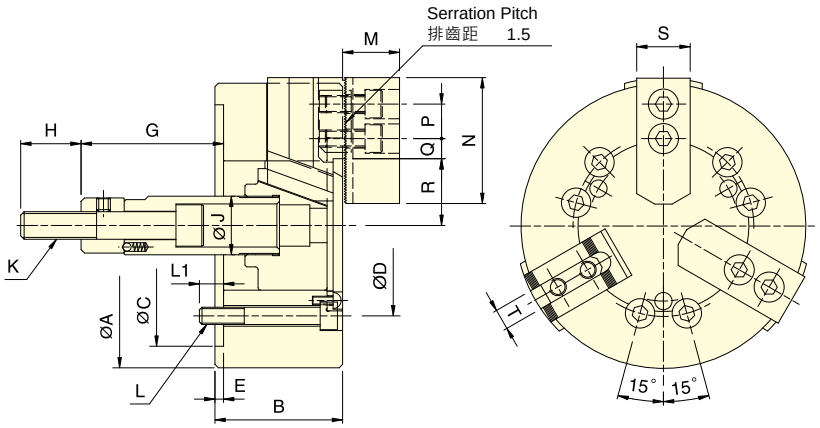
紅色數據為 1L-A 型之寸法 (The dimensions and the specifications of 1L-A type are in red data.)

中實長爪行程夾頭 (一)
LONG JAW STROKE POWER CHUCK

- 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

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⁻¹ (r.p.m.)	kg·m²	kg		MPa (kgf/cm²)
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 (5100)	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)

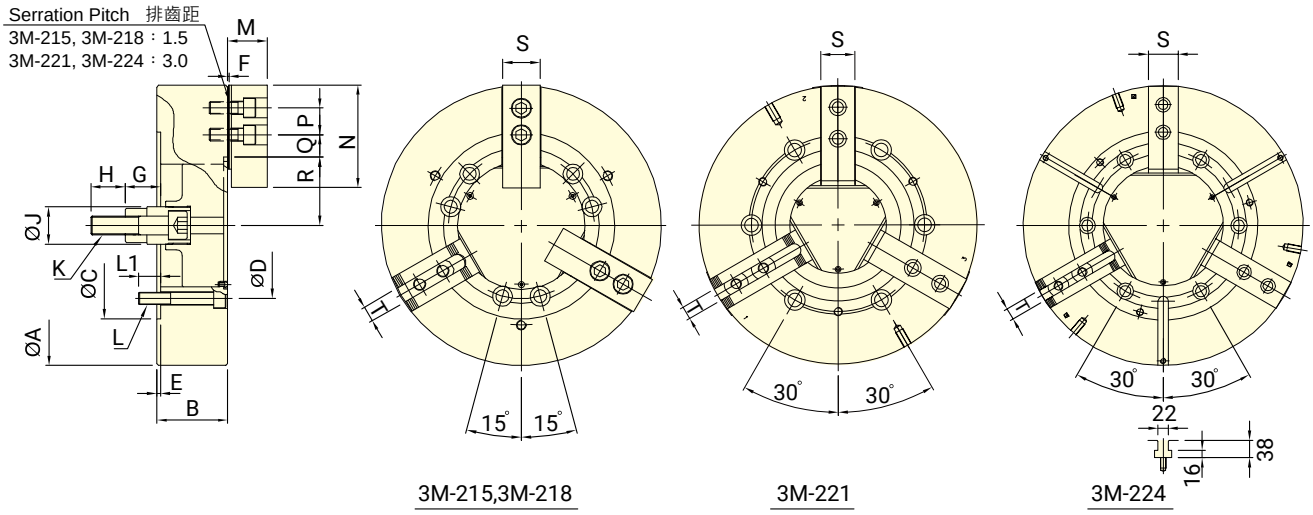
外型尺寸 DIMENSIONS

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

中實長爪行程夾頭 (二)
LONG JAW STROKE POWER CHUCK

- 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-215,3M-218　　3M-221　　3M-224

技術規格 SPECIFICATIONS

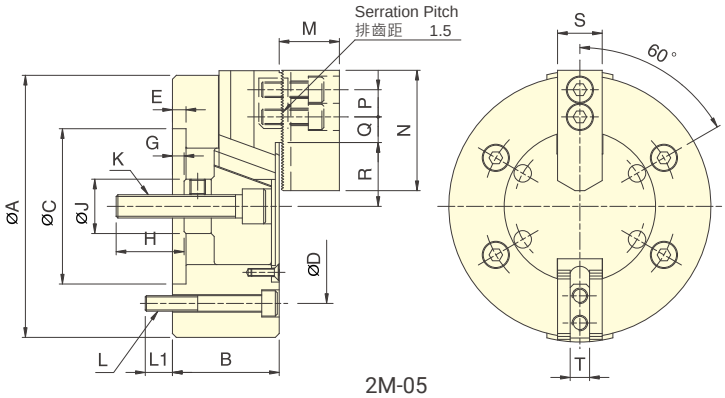
型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg·m^2	kg		MPa (kgf/cm^2)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

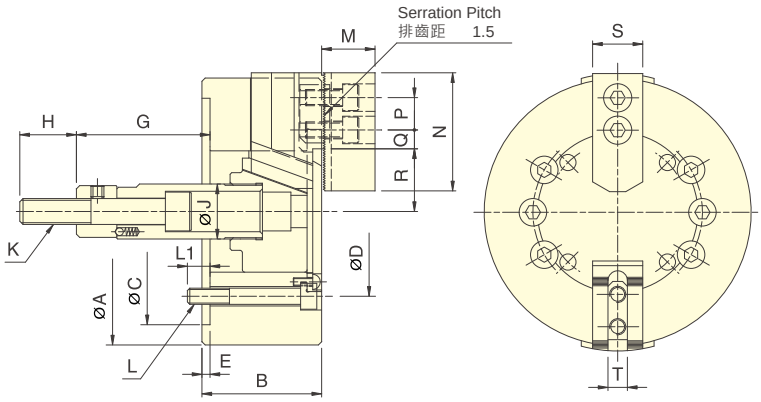
Model	A	B	C(H6)	D	E	F	G max.	G min.	H	J
3M-215	381	114	300	235	6	2	104	69	55	60
3M-218	450	114	300	235	6	2	92	57	55	60
3M-221	530	125	380	330.2	6	3	97	62	55	60
3M-224	610	125	380	330.2	6	3	97	62	55	60

Model	K	L	L1	M	N	P	Q max.	Q min.	R max.	R min.	S	T
3M-215	M30x3.5	6~M20	30	63.3	165	43	49.75	18.25	79	66.3	62	25.5
3M-218	M30x3.5	6~M20	35	63.3	165	43	51.25	18.25	109.5	96.8	62	25.5
3M-221	M30x3.5	6~M24	31	71	180	60	90.5	24.5	92	79.3	64	25
3M-224	M30x3.5	6~M24	31	71	180	60	90	24	131	118.3	64	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

技術規格 SPECIFICATIONS

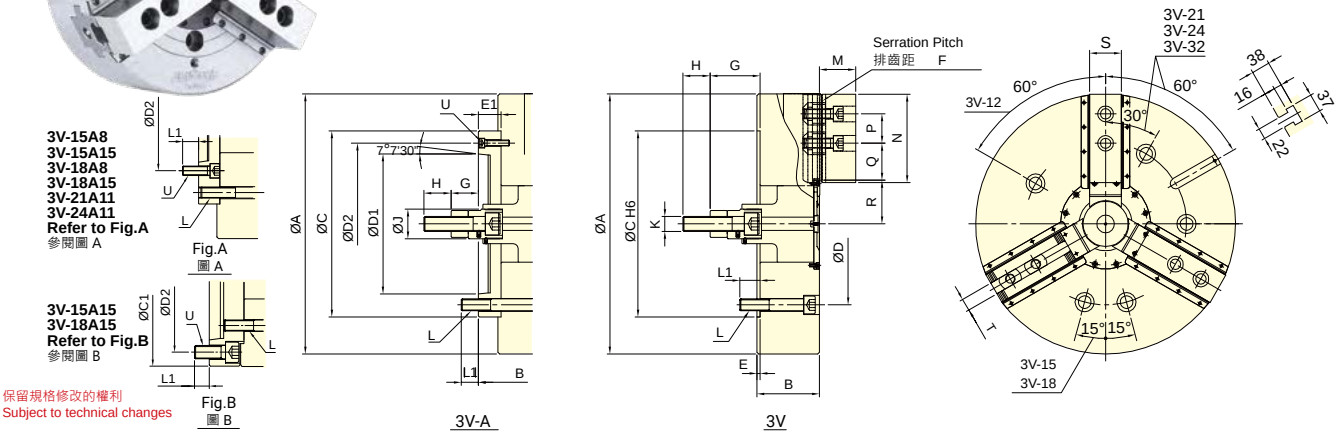
型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg·m^2	kg		MPa (kgf/cm^2)
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.



技術規格 SPECIFICATIONS

型號 Model		楔心行程 Plunger stroke	爪行程 (直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	夾持直徑 Chucking Dia. 最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. Clamping force	最高迴轉數 Max. speed	I Moment of inertia		重量 Weight		適用迴轉缸 Matching cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg·m^2		kg			MPa (kgf/cm^2)
3V-12	A8	30	12.7	304	30	41(4180)	156(15900)	3150	0.73	0.79	62.9	68.7	RK-150 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		
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	RK-200 RE-200K	2.8(28) 3.0(30)
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	C1	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	64	25	6~M20
3V-21	A15	M30x3.5	6~M24	41	35	74	180	60	93.5	24.5	89	81	64	25	3~M12
3V-24	A11	M30x3.5	6~M24	41	35	74	180	60	93.5	24.5	128	120	64	25	6~M20
3V-24	A15	M30x3.5	6~M24	41	35	74	180	60	93.5	24.5	128	120	64	25	3~M12
3V-32	A15	M30x3.5	6~M24	41	35	74	180	60	189.5	24.5	128	120	64	25	3~M12

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

- 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.
- The jaws can be manually adjusted individually to help center the workpiece.
- Sealed against swarf, chips and coolant, suitable for vertical lathe.

- 背面設有減重孔。如有其他客製化需求，請於訂製前與我司洽談。
- Features weight reduction holes on the rear. For any other custom requirements, please consult with us prior to ordering.

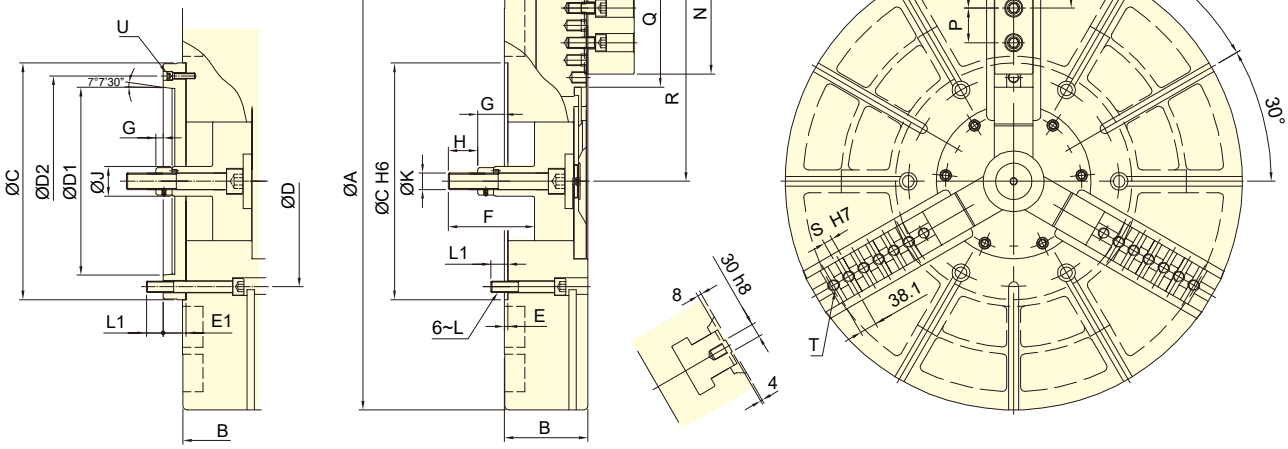
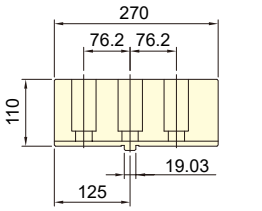
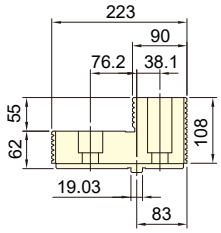


Fig.A
圖 A

3V-40A20
3V-50A20
Refer to Fig.A
參閱圖 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

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⁻¹ (r.p.m.)	kg·m²		kg			MPa (kgf/cm²)
3V-40	A20	57	46+(60)	1005	310	180(18350)	320(32620)	630	68	72	780	849	RK-250 RE-250 RE-A250 RE-L250	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	-	1900	-		4.6(46)
3V-79		60	48+(80)	2000	440	200(20390)	360(36700)	320	1250	-	2800	-		4.6(46)

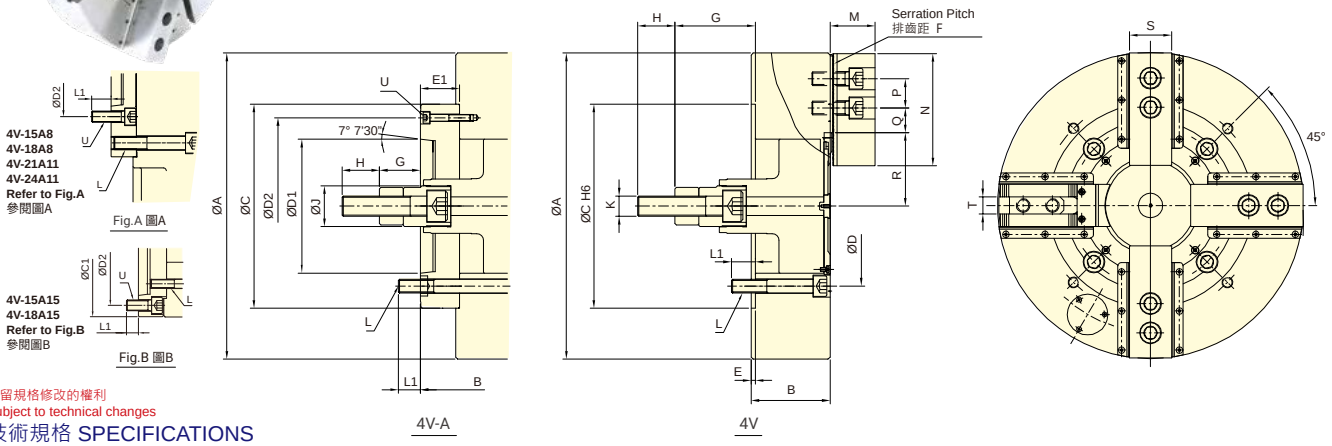
外型尺寸 DIMENSIONS

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	102	270	76.2	295	457	404	6~19.03	7~M24	3~M12	42	84
3V-50	A20	M24	37	102	270	76.2	416	563	510	9~19.03	9~M24	3~M12	42	84
3V-63		M30	46	102.5	270	76.2	540	738	674	12~19.03	13~M24	-	42	110
3V-79		M30	48	102.5	270	76.2	740	914	850	16~19.03	17~M24	-	42	110

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

- 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.



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^{-1} (r.p.m.)	$kg{\cdot}m^2$		kg			MPa (kgf/cm^2)
4V-12	A8	30	12.7	304	48	41(4180)	156(15900)	2520	0.72	0.79	59	67	RK-150 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 RE-200K	2.8(28) 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	C1	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	64	25	6~M20
4V-21	A15	M30x3.5	6~M24	41	35	74	180	60	72.5	24.5	89	81	64	25	3~M12
4V-24	A11	M30x3.5	6~M24	41	35	74	180	60	93.5	24.5	128	120	64	25	6~M20
4V-24	A15	M30x3.5	6~M24	41	35	74	180	60	93.5	24.5	128	120	64	25	3~M12
4V-32	A15	M30x3.5	6~M24	36	35	74	180	60	189.5	24.5	128	120	64	25	3~M12

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

- 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.
- The jaws can be manually adjusted individually to help center the workpiece.
- Sealed against swarf, chips and coolant, suitable for vertical lathe.
- 背面設有減重孔。如有其他客製化需求，請於訂製前與我司洽談。
- Features weight reduction holes on the rear. For any other custom requirements, please consult with us prior to ordering.

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

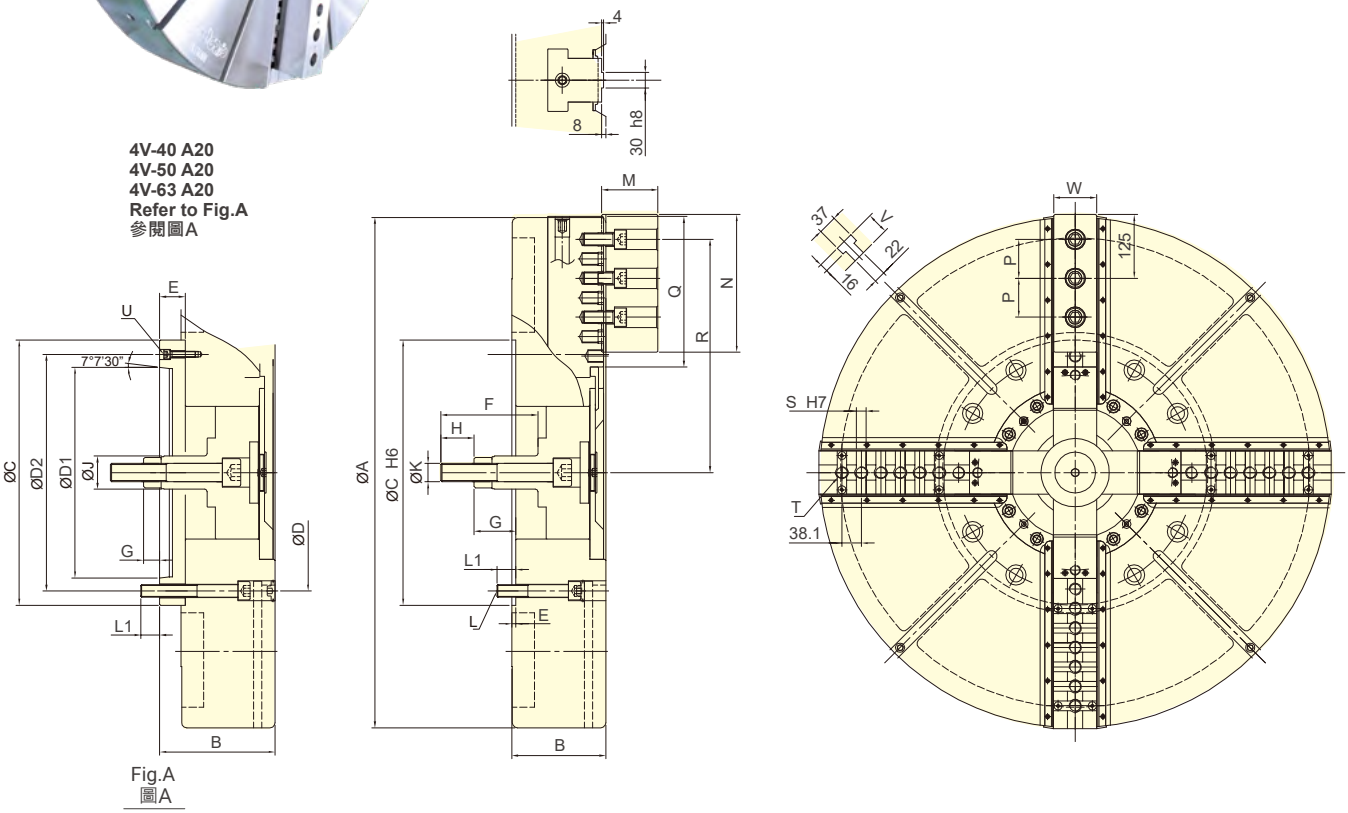


Fig.A
圖A

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^{-1} (r.p.m.)	kg·m^2		kg			MPa (kgf/cm^2)
4V-40	A20	57	46+(60)	1000	310	180(18350)	320(32620)	500	70	94	740	790	RK-250 RE-250 RE-A250 RE-L250	4.2(42)
4V-50	A20	57	46+(60)	1250	290	180(18350)	320(32620)	450	222	224	1130	1180		4.2(42)
4V-63		60	48+(80)	1600	390	200(20390)	360(36700)	340	565		2000			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

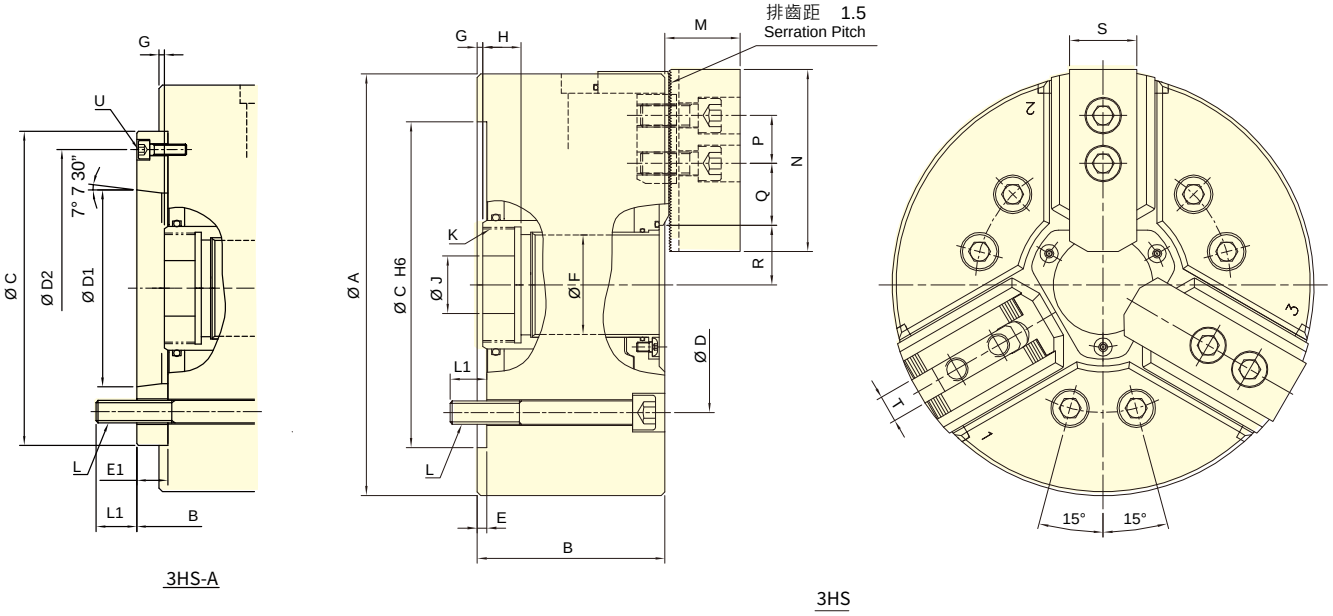
Model		L	L1	M	N	P	Q	R max.	R min.	S	T	U	V	W
4V-40	A20	M24	37	102	270	76.2	295	457	404	6~19.03	7~M24	3~M12	42	84
4V-50	A20	M24	38	102	270	76.2	416	563	510	9~19.03	9~M24	3~M12	42	84
4V-63		M30	46	102.5	270	76.2	540	738	674	12~19.03	13~M24	-	42	110

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

三爪中空低保養動力夾頭
THRU-HOLE FULLY SEALED TYPE POWER CHUCK

- 全密閉式設計，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		通孔徑	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		Thru-hole (Dia.)	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	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	$kg{\cdot}m^2$	kg			MPa (kgf/cm^2)
3HS-08	A6	52	18	7.6	220	22	31.9(3250)	92(9380)	5000	0.18	26.5	28.1	TK-A853	2.6(26)
3HS-10	A8	75	21	8.9	268	31	50(5100)	132(13460)	4500	0.46	45.4	48.4	TK-A1075	3.2(32)
3HS-12	A11	91	25	10.6	315	48	58.8(6000)	154(15600)	3500	0.83	65	71.2	TK-A1512	1.9(19)

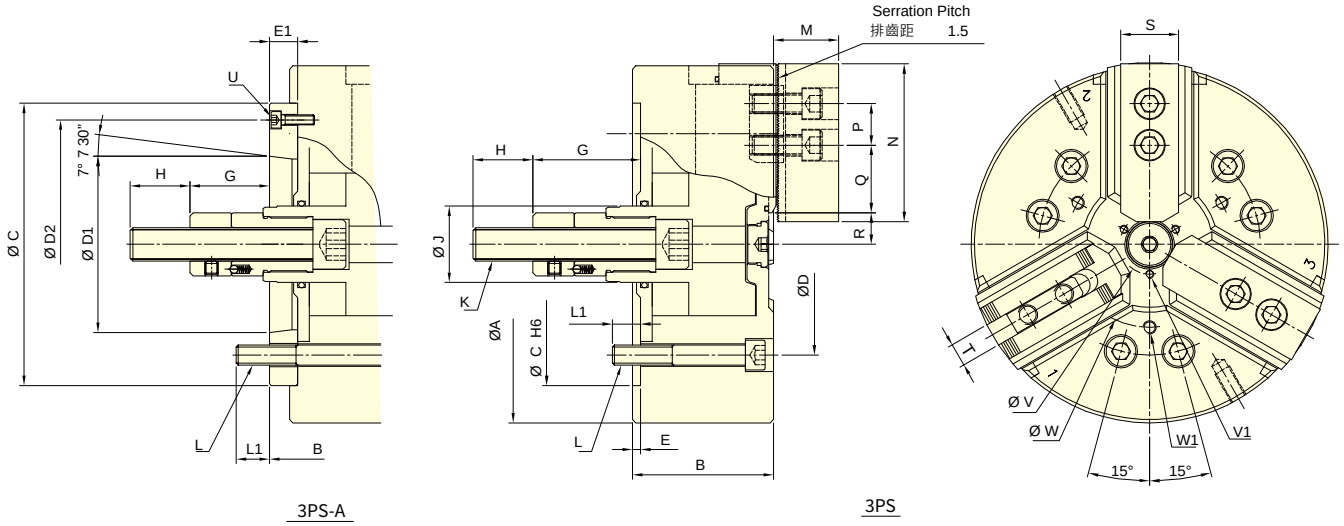
外型尺寸 DIMENSIONS

Model		A	B		C	D	D1	D2	E	E1	F	G max.		G min.		H	J
3HS-08	A6	220	98	110	170	133.4	106.38	150	5	17	52	20	15	2	-3	20	30
3HS-10	A8	268	112	125	220	171.4	139.72	190	5	18	75	24	15	3	-6	25	35
3HS-12	A11	315	118	134	300	235	196.87	260	6	22	91	32.5	14.5	7.5	-10.5	28	50

Model		K max.	K Default	L	L1		M	N	P	Q max.	Q min.	R max.	R min.	S	T	U
3HS-08	A6	M60x2	M55x2	6~M12	19	17	39	95	25	47.75	29.75	29	25.2	35	14	3~M6
3HS-10	A8	M85x2	M70x2	6~M16	24	26	44	110	30	54.25	33.25	41.5	37.05	40	16	3~M8
3HS-12	A11	M100x2	M85x2	6~M20	32	25	52	130	30	65.25	36.75	49.5	44.2	50	21	3~M10

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

- 全密閉式設計，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 (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
		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
Model		mm	mm	mm	mm	kN(kgf)	kN (kgf)	min⁻¹(r.p.m.)	kg·m²	kg			MPa (kgf/cm²)
3PS-08	A6	22	9.3	215	21	30(3060)	82(8360)	4800	0.15	24.7	26.3	RK-125(N)	2.7(27)
3PS-10	A8	24	10.2	260	24	36(3670)	107(10910)	4000	0.32	38.1	40.8	RK-150(N)	3.1(31.7)
3PS-12	A8	30	12.7	315	30	60(6100)	165(16900)	3200	0.75	66.3	69.3	RK-150(N)	3.7(37.9)

外型尺寸 DIMENSIONS

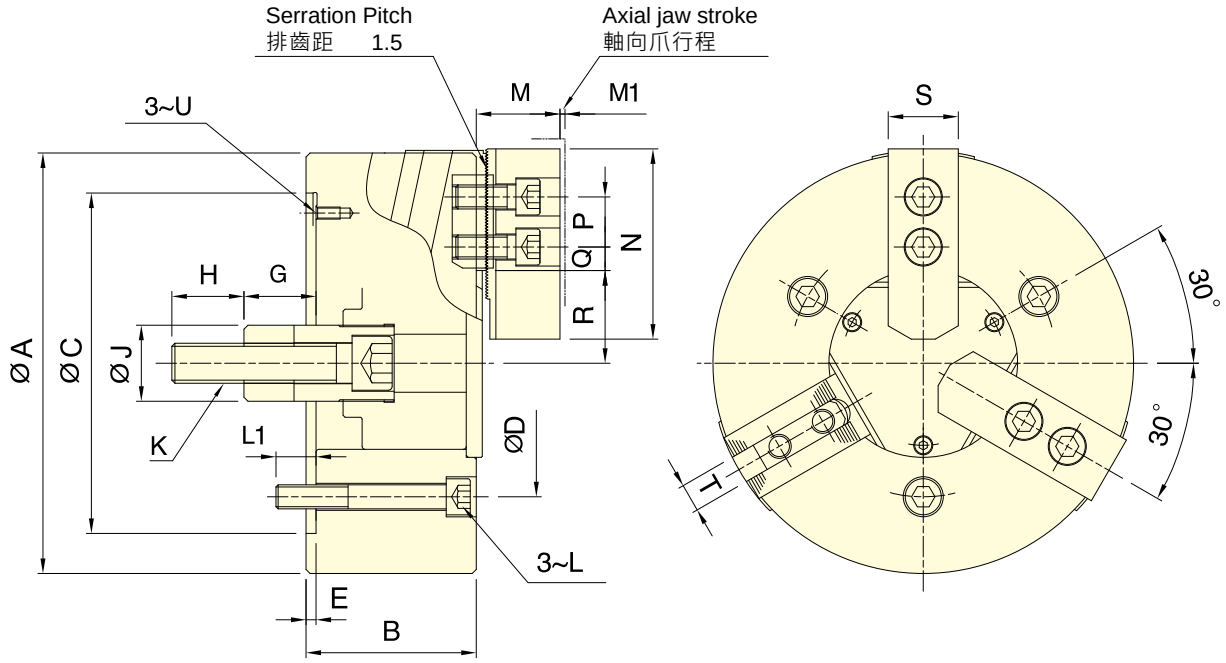
Model		A	B		C	D	D1	D2	E	E1	G max.		G min.		H	J	K
3PS-08	A6	215	85	97	170	133.4	106.38	150	5	17	87	70	65	48	36	46	M20x2.5
3PS-10	A8	260	92	105	220	171.4	139.72	190	5	18	86	68	62	44	36	56	M20x2.5
3PS-12	A8	315	106	118	220	171.4	139.72	190	6	18	96	78	66	48	36	67	M20x2.5

Model		L	L1		M	N	P	Q max.	Q min.	R max.	R min.	S	T	U	V	V1	W	W1
3PS-08	A6	6~M12	17	20	39	95	25	54.25	36.25	18.5	13.85	35	14	3~M6	36	3~M5	100	3~M8
3PS-10	A8	6~M16	20	22	44	110	30	69.25	39.25	22.5	17.4	40	16	3~M8	45	3~M6	110	3~M8
3PS-12	A8	6~M16	22	24	52	130	30	86.75	46.25	27	20.65	50	21	3~M8	56	3~M6	220	3~M12

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

- 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.



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^{-1} (r.p.m.)	$kg{\cdot}m^2$	kg		MPa (kgf/cm^2)
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)

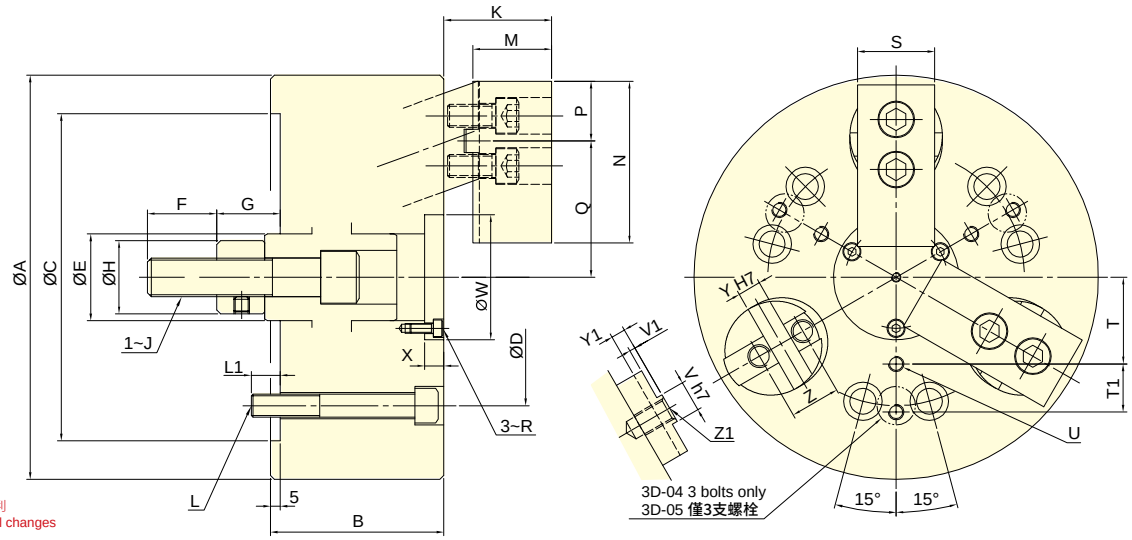
外型尺寸 DIMENSIONS

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

- 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 durableness.

- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.



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^{-1} (r.p.m.)	kg·m^2	kg		MPa (kgf/cm^2)
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)

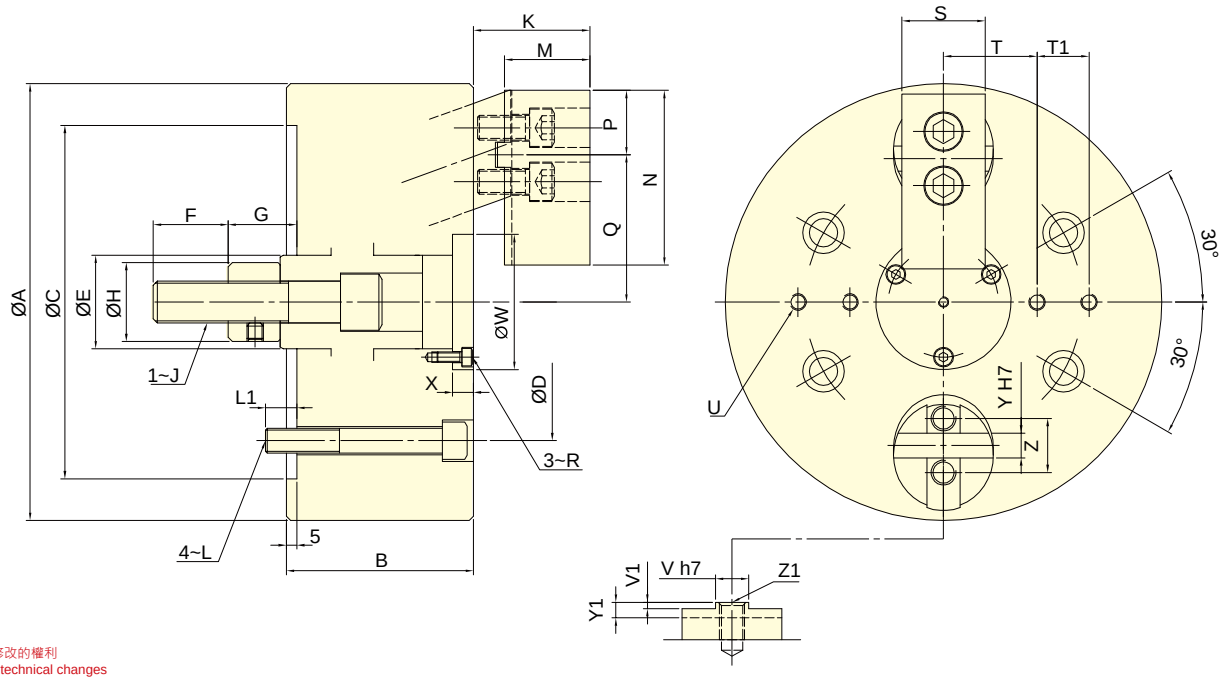
外型尺寸 DIMENSIONS

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	T1	U	V (h7)	V1	W	X	Y(H7)	Y1	Z	Z1
3D-04	37	34.5	M3	25	22.5	-	3~M6	8	2.5	35	4.5	8	6	-	M10
3D-05	46	43.5	M3	30	27.5	-	3~M6	8	2.5	44	4.5	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 durableness.

- 氣密檢知 (選配)。
- Airtight pressure detect function is optional.



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^{-1} (r.p.m.)	$kg·m^2$	kg		MPa (kgf/cm^2)
2D-05	7	5	135	21	6.6(680)	11.0(1150)	3500	0.018	7.7	RK-75	1.8(18.3)
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)	3000	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)
2D-12	15	10.8	304	50	30.0(3060)	50.0(5100)	2000	0.73	71	RK-150	1.9(19.0)

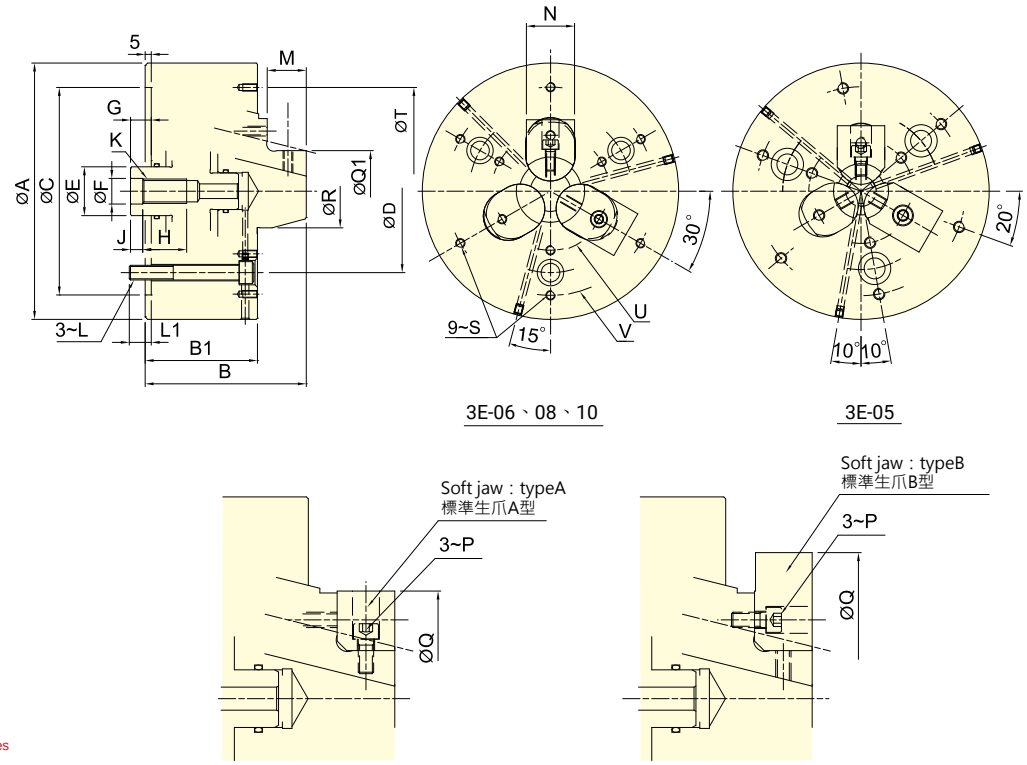
外型尺寸 DIMENSIONS

Model	A	B	C (H6)	D	E	F	G max.	G min.	H	J	K max.	K min.	L	L 1	M	N	P
2D-05	135	70	110	82.6	30	25	24	17	28	M12	35	28	M10	16	24.5	56	23
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
2D-12	304	125	220	171.4	55	50	49.5	34.5	53	M27	70	55	M16	22	51	120	42

Model	Q max.	Q min.	R	S	T	T1	U	V (h7)	V 1	W	X	Y (H7)	Y1	Z	Z1
2D-05	46	43.5	M3	30	27.5	-	2~M6	8	2.5	44	4.5	8	6	-	M12
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
2D-12	101.9	96.5	M6	60	70	35	4~M10	20	3	90	12	17	7.5	36	M16

內張後拉式動力夾頭
EXPANSIBLE PULL LOCK POWER CHUCK

- 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.



技術規格 SPECIFICATIONS

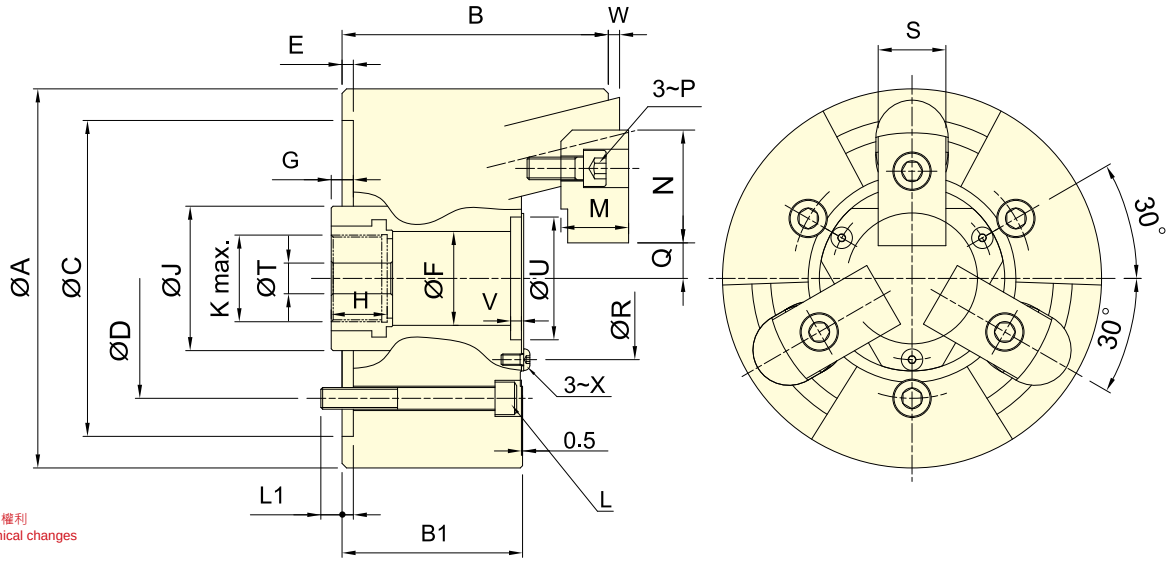
型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大Max.	最小Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	$kg·m^2$	kg		MPa (kgf/cm^2)
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

- 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.



技術規格 SPECIFICATIONS

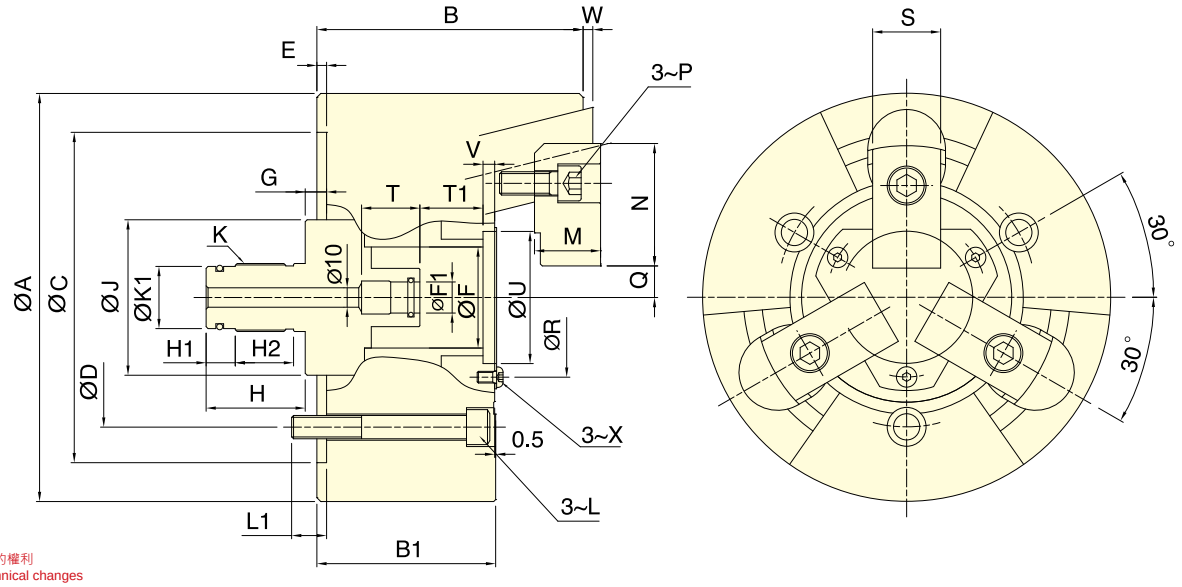
型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. Clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg・m^2	kg		MPa (kgf/cm^2)
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的場合。
- 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.



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^{-1} (r.p.m.)	kg·m^2	kg		MPa (kgf/cm^2)
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

3W/3W-C 擺動型後拉三爪夾頭
SWING TYPE 3-JAW POWER CHUCK

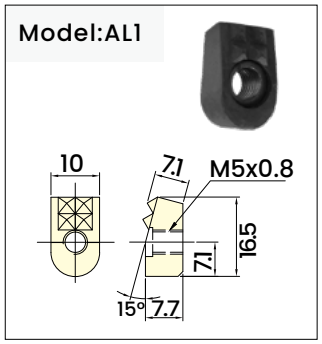
台灣精品 2020
TAIWAN EXCELLENCE

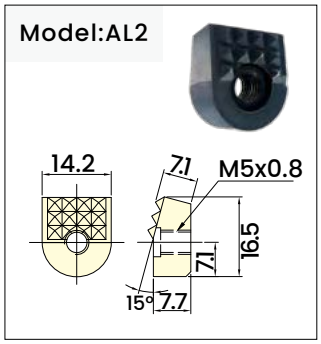
- 三爪擺動夾持工件。(自動求心型 3W)
- 適合鑄件及鍛件等原材料進行加工。
- 特別適合使用於需要重切削的場合。
- 防塵及防切削液密封圈，使保養工作更加便利。
- 擺動機構零件均以合金鋼加以熱處理硬化及研磨，以提升產品使用壽命。
- 三爪擺動夾持工件。(定心補償型 3W-C)
- 工件偏心補償量2mm，中心頂針定位。

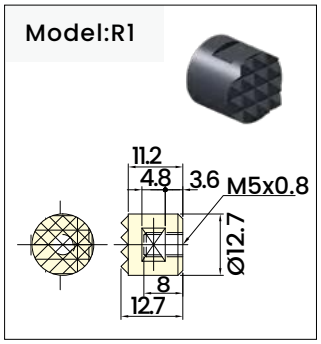
- Swing and grasp the workpiece to three jaw. (3W is automatically positioned to the center type.)
- Suitable for such materials as the casting and forging to process.
- Suitable for heavy machining.
- Seal proof for dust and cutting fluid, it is more convenient when maintenance.
- Swing parts are to 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.

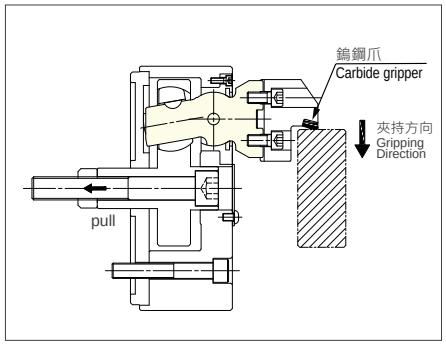
鎢鋼爪型式 Type of the Carbide gripper



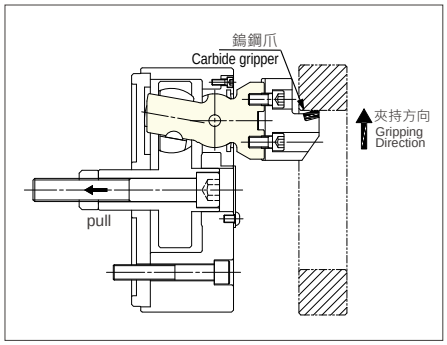




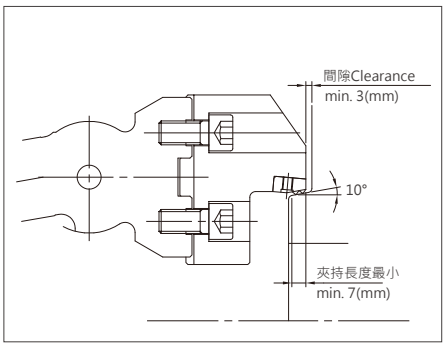
外徑夾持 O.D. Gripping



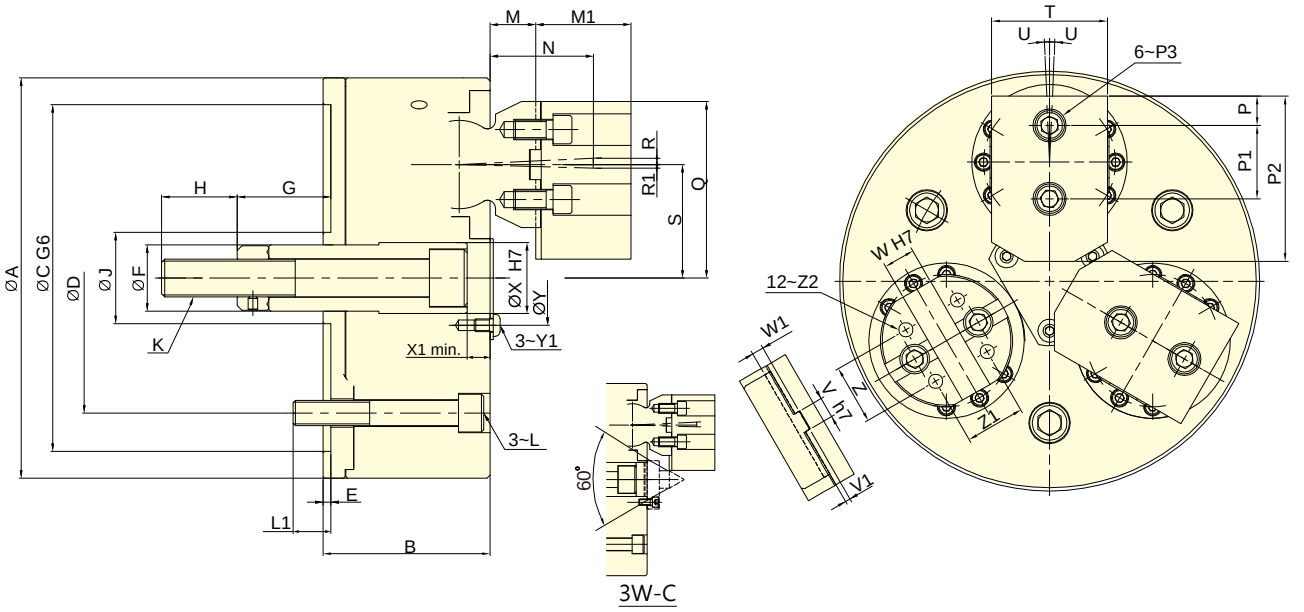
內徑夾持 I.D. Gripping



最小夾持範圍 Min. Gripping range



3W/3W-C 擺動型後拉三爪夾頭
SWING TYPE 3-JAW POWER CHUCK



技術規格 SPECIFICATIONS

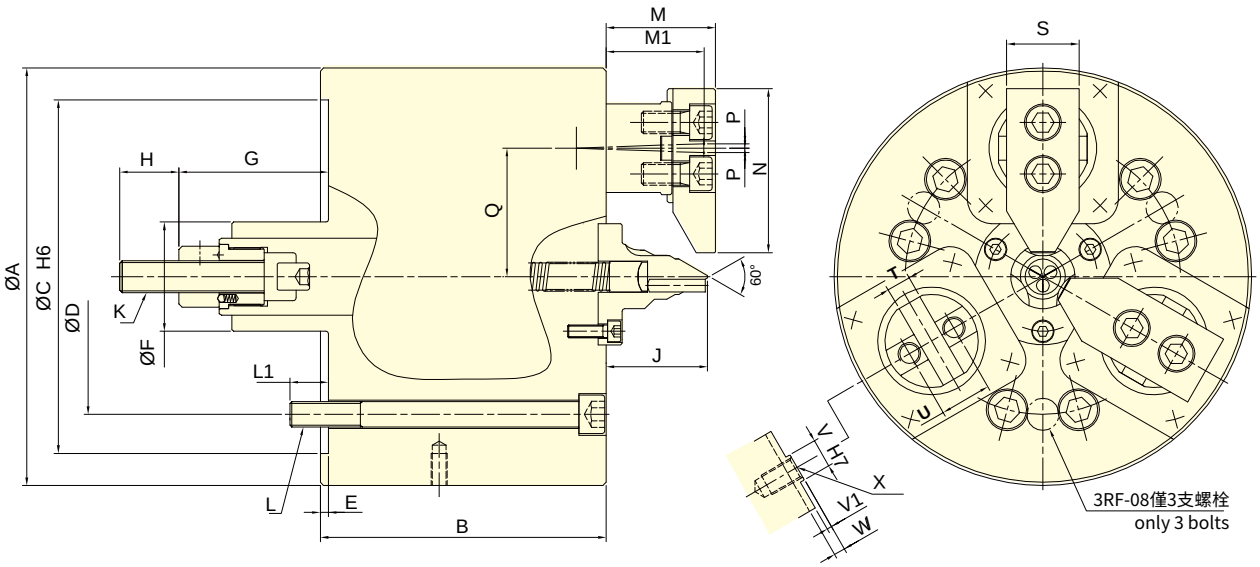
型號	楔心行程	爪行程(直徑)	夾持外徑 Chucking O.D.	夾持內徑 Chucking I.D.	容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	補償量
Model	Plunger stroke	Jaw stroke (Dia.)	最小~最大 Min.~Max.	最小~最大 Min.~Max.	Max. D.B. pull	Max. clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Compensation
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg·m^2	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

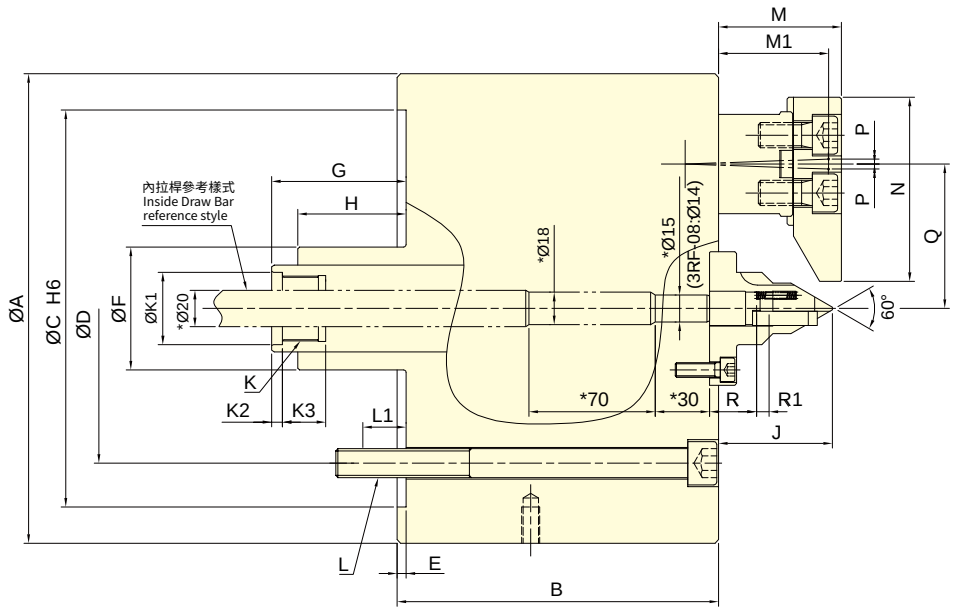
Model	A	B	C(G6)	D	E	F	G max.	G min.	H	J	K	L	L1	M	M1	N	P	P1	P2
3W-08	210	89	170	133.4	5	34	51.9	37.5	40	50	M18x2.5	M12	19	19.3	56.5	52.7	16	38	80
3W-C08	210	89	170	133.4	5	34	51.9	37.5	40	50	M18x2.5	M12	19	19.3	56.5	52.7	16	38	80
3W-10	254	106	220	171.4	5	42	67.5	50	48	58	M24x3	M16	24	29	60.5	65.6	17.8	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，請勿任意更動。
Note: The dimensions marked [*] are the dimensions of the inside Draw Bar ,
Please don't change it.

技術規格 SPECIFICATIONS

型號 Model	楔心行程 Plunger stroke	爪行程(直徑) Jaw stroke (Dia.)	夾持直徑 Chucking Dia. 最大 Max.	夾持直徑 Chucking Dia. 最小 Min.	容許最大入力 Max. D.B. pull	最大夾持力 Max. clamping force	最高迴轉數 Max. speed	I Moment of inertia	重量 Weight	適用迴轉缸 Matching cyl.	補償量 Compensation
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg·m^2	kg		mm
3RF-08	43.5	9.4	70	18	39.2 (4000)	39.2 (4000)	4000	0.15	39.4	RS-1250	1
3RF-08D	43.5	9.4	70	18	39.2 (4000)	39.2 (4000)	4000	0.15	38.6	RDL-160S	1
3RF-10	50	11	85	25	44.1(4500)	67.4(6873)	3500	0.56	68.3	RS-1550	1
3RF-10D	50	11	85	25	44.1(4500)	67.4(6873)	3500	0.56	67.5	RDL-160S	1
3RF-12	52	11.2	110	25	78.4(8000)	99(10000)	2500	0.56	109	RS-2060	1
3RF-12D	52	11.2	110	25	78.4(8000)	99(10000)	2500	0.56	107.7	RDL-160S	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
3RF-10	260	178	220	171.4	5	68	143	93	37	63	M20x2.5	-	-	-	6~M16	24
3RF-10D	260	178	220	171.4	5	68	116.5	66.5	60	63	M36x1.5	40.5	6	24	6~M16	26
3RF-12	315	190	220	171.4	5	76	167	115	46	70	M24x3	-	-	-	6~M16	24
3RF-12D	315	190	220	171.4	5	76	135	83	75	70	M40x1.5	44.5	6	28	6~M16	24

Model	M max.	M min.	M1	N	P	Q	R	R1 max.	R1 min.	S	T(H7)	U	V	V1	W	X
3RF-08	62	31	58	78	2.35	62	-	-	-	40	12	26	16	3	7	M12
3RF-08D	62	31	58	78	2.35	62	25.5	7	0	40	12	26	16	3	7	M12
3RF-10	68	35.5	61	102	2.75	80	-	-	-	45	15	32	18	3	7	M14
3RF-10D	68	35.5	61	102	2.75	80	28	7	0	45	15	32	18	3	7	M14
3RF-12	76	43	63	125	2.8	100	-	-	-	50	17	36	20	3	7	M16
3RF-12D	76	43	63	125	2.8	100	28	7	0	50	17	36	20	3	7	M16

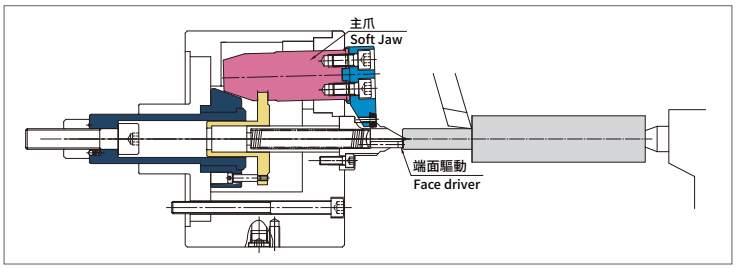
應用說明 Application Notes

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.

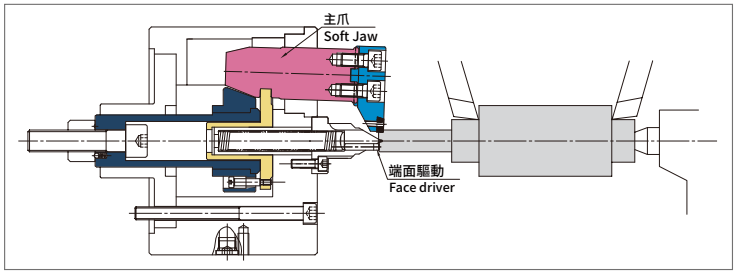


2.粗加工

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.

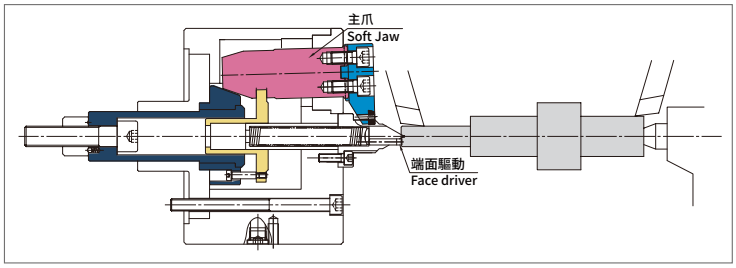


3.精加工

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。

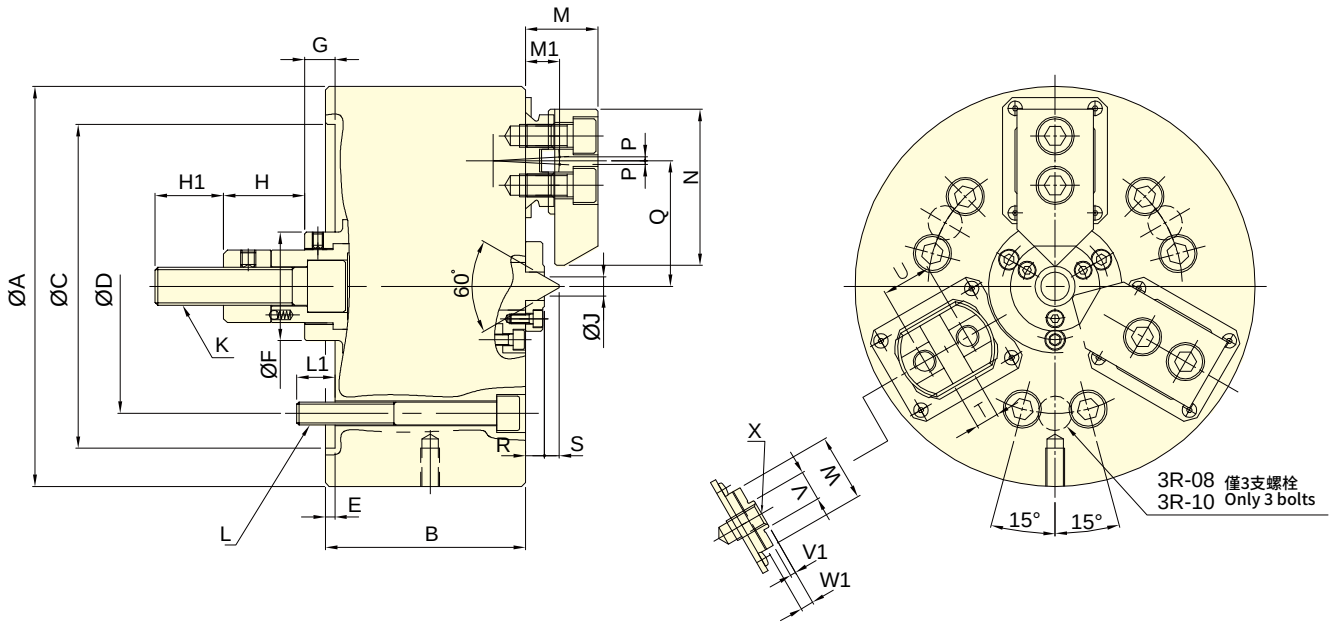
3.Finish machining

Additionally, it is driven by the face driver. The entire workpiece can be machined with precise concentricity.



擺動補償型三爪夾頭
SWING COMPENSATING TYPE 3-JAW POWER CHUCK

- 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

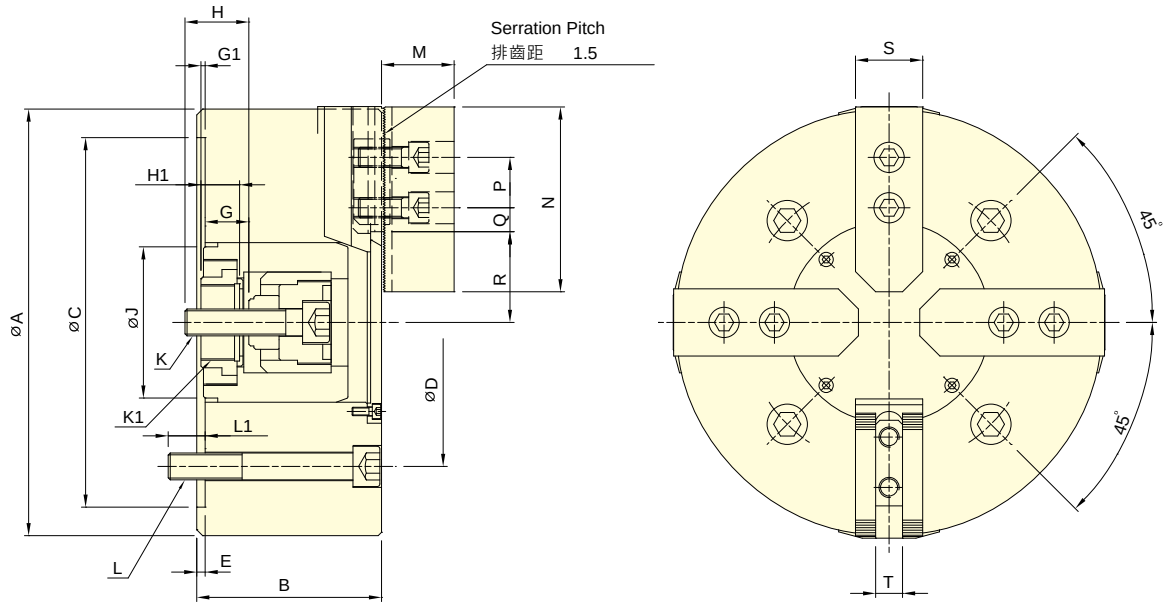
型號	楔心行程	爪行程 (直徑)	夾持直徑 Chucking Dia.		容許最大入力	最大夾持力	最高迴轉數	I	重量	適用迴轉缸	補償量
Model	Plunger stroke	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. D.B. pull	Max. clamping force	Max. speed	Moment of inertia	Weight	Matching cyl.	Compensation
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	$kg{\cdot}m^2$	kg		mm
3R-08	20	8	65	18	19.6(2000)	53.0(5404)	2800	0.15	27	RK-100N	2
3R-10	25	10	90	22	29.4(3000)	67.7(6901)	2500	0.38	45	RK-125N	2
3R-12	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
3R-08	210	105	170	133.4	5	57	26	6	42.5	36	10.4	M20x2.5	3~M12	20
3R-10	254	115	220	171.4	5.5	64	36.5	11.5	25	39	15	M20x2.5	3~M16	22.5
3R-12	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
3R-08	38	18	82	2	68	64	10	7.7	12	26	16	3	35	7	M12
3R-10	40	19	102	2.6	82	78	10	11.3	15	32	18	3	40	7	M14
3R-12	51	24	125	2.5	102.5	97.5	10	11.3	17	36	20	3	50	7	M16

- 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.



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)	夾持範圍 Chucking Range		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^{-1} (r.p.m.)	$kg·m^2$	kg		MPa (kgf/cm^2)
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)

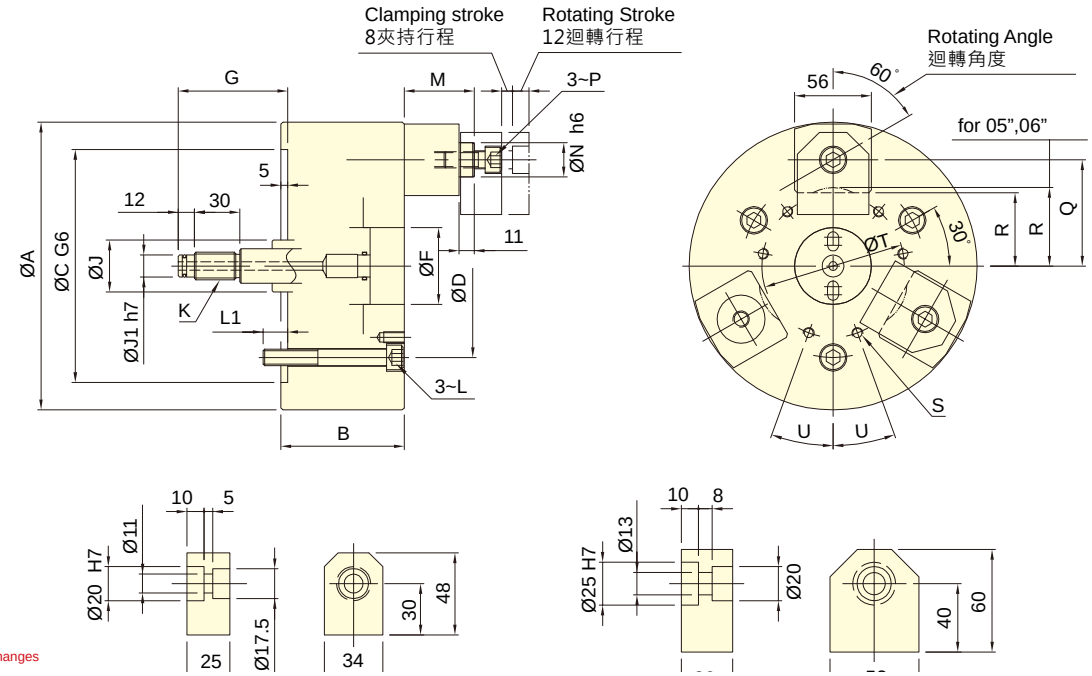
外型尺寸 DIMENSIONS

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

- 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.



技術規格 SPECIFICATIONS

型號	迴轉行程	夾持行程	爪補償量	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	Rotating stroke	Claming 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⁻¹ (r.p.m.)	kg·m²	kg		MPa (kgf/cm²)
3J-05	12	8	2	53	25	7.5(765)	6.0(612)	4000	0.02	11.0	RK-100 OR 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 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 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 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 RK-100(N)	2.5(25)

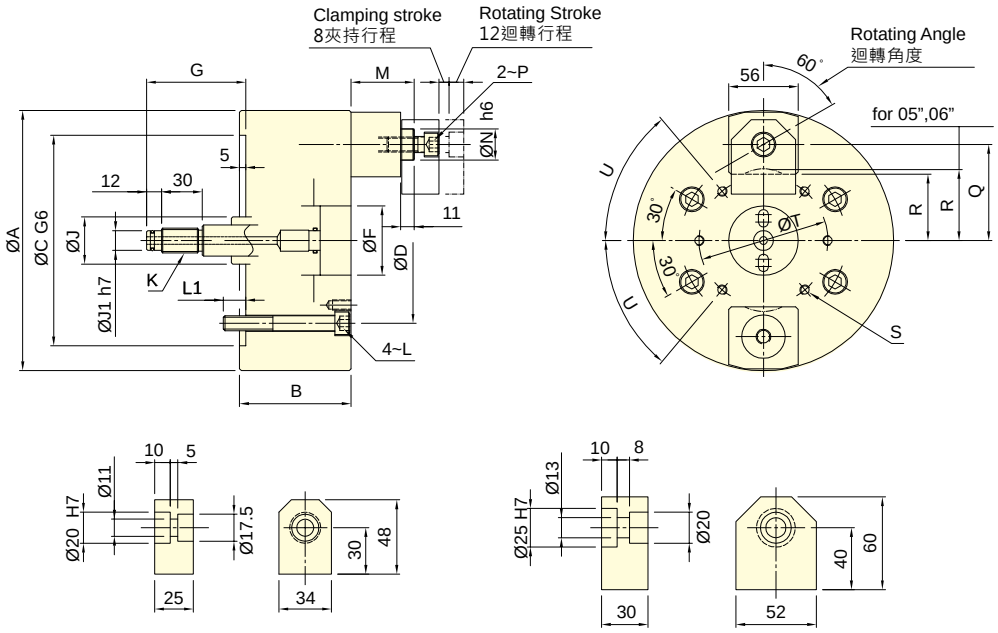
外型尺寸 DIMENSIONS

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.



技術規格 SPECIFICATIONS

型號	迴轉行程	夾持行程	爪補償量	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	Rotating stroke	Claming 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^{-1} (r.p.m.)	$kg·m^2$	kg		MPa (kgf/cm^2)
2J-05	12	8	2	53	25	5.0(510)	4.0(408)	4000	0.015	9.0	RK-100 OR 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 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 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 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 RK-100(N)	1.7(17)

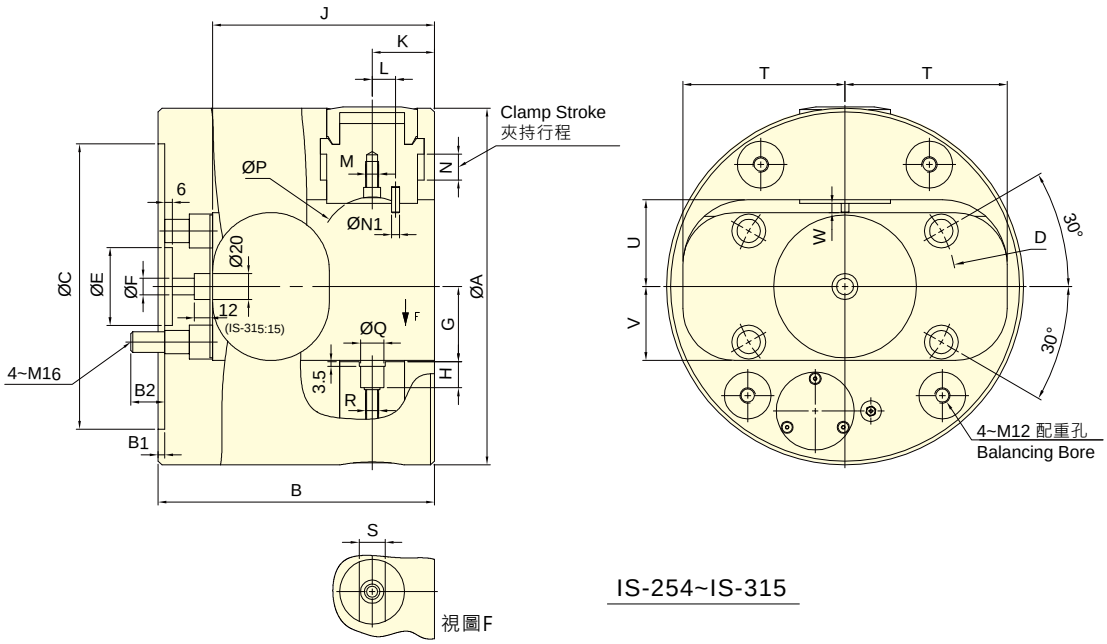
外型尺寸 DIMENSIONS

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

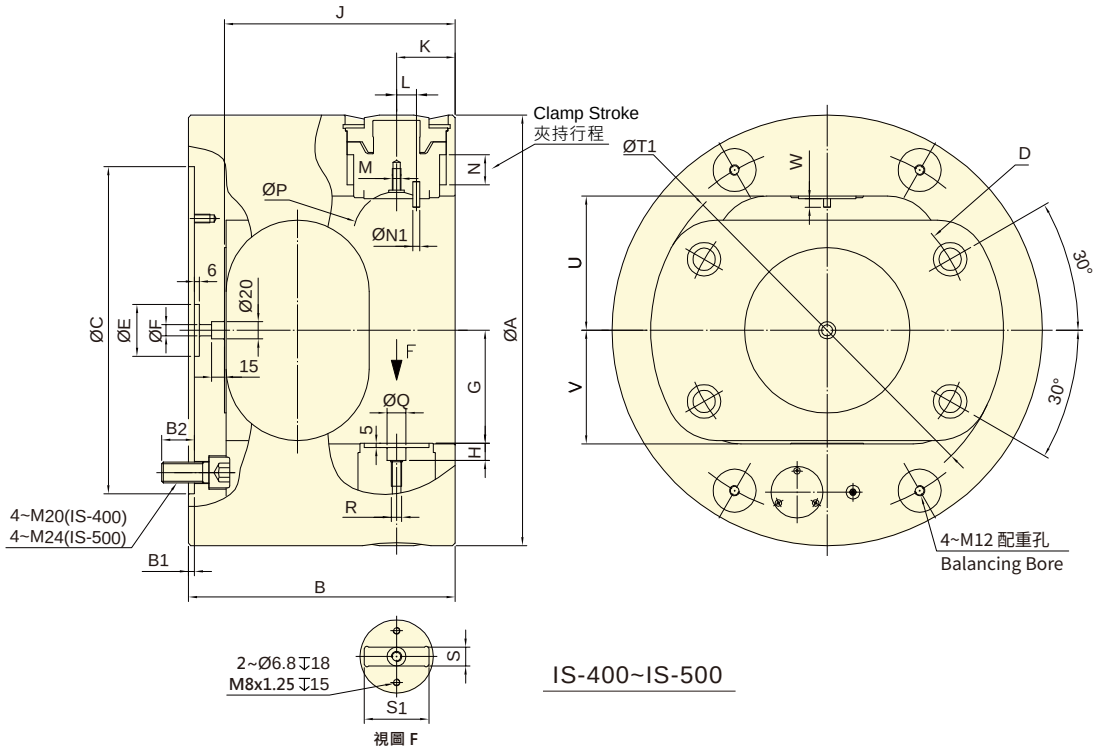
Model	L	L1	M max.	M min.	N	P	Q	R	S	T	U
2J-05	M10	15	56	36	20	M10	42.5	27	4~M6	50	30°
2J-06	M10	15	56	36	20	M10	57.5	40	4~M8	64	30°
2J-08	M12	18	71	51	25	M12	77.5	53.5	6~M8	104	50°
2J-10	M16	24	71	51	25	M12	99.5	75.5	6~M8	140	50°
2J-12	M16	24	71	51	25	M12	124.5	100.5	6~M8	190	50°

自動分度夾頭
POWER INDEXING CHUCK

- 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 axles.
- 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



IS-400~IS-500

自動分度夾頭
POWER INDEXING CHUCK

技術規格 SPECIFICATIONS

型號	分度角度	爪行程	夾持範圍 Chucking Area		容許油壓壓力	最大夾持力	最高迴轉數	I	重量	油壓迴轉接頭組	主軸內孔	夾持治具重量
Model	Index Angle	Jaw stroke	直徑Dia Max.	長度Len Max.	Max. pressure	Max. Clamping force	Max. speed	Moment of inertia	Weight	ROTATING JOINT	Main Spindle Bore	Clamp Jaw Weight
	Deg	mm	mm	mm	kgf/cm²	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg		mm	kg
IS-254	4x90°	20	65	160	45	19.5(1990)	3100	0.41	41	IRJ-5E1	61 以上	0.6
IS-275	4x90°	20	80	220	45	25.4(2590)	2500	0.61	52	IRJ-5E1	61 以上	1.2
IS-315	4x90°	20	100	230	45	25.0(2550)	1200	1.13	76	IRJ-5E1	61 以上	1.8
***IS-400**	4x90°	30	170	260	45	34.5(3510)	1000	3.4	125	IRJ-5E1	61 以上	4.0
***IS-500**	4x90°	35	220	310	45	45.7(4660)	1000	9.4	220	IRJ-5E1	61 以上	6.0

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
***IS-400**	400	260	6	30	300	235	60	13	99	21	220	60
***IS-500**	500	308	6	38	380	330.2	60	13	131	21	266	68

Model	L	M	N	N1	P	Q(H7)	R	S(H7)	S1	T	T1	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	-	136	-	85	70	7.5
***IS-400**	23	M10	30	8	100	22	M12	24	70	-	330	112	100	10
***IS-500**	25	M10	35	8	100	22	M12	24	75	-	410	156	132	10

最高迴轉數僅在油壓壓力最大時才可達到，且工作壓力與夾持治具的重量不可超過上表所示。
主軸旋轉時可進行分度，當在高轉速進行分度時，建議將轉速降低 50%, 避免因工件處於中間位置時由於重量不平衡時而產生振動。另外，依據工件的形狀，有時無法在主軸旋轉時進行分度。

型號 * 表示接單生產之特殊規格，無現貨供應。
分度角度 8x45°或特殊分度角度，請逕洽本公司業務部。

The maximum rotational speed can only be achieved when the hydraulic pressure is at its maximum. Additionally, the operating pressure and the weight of the clamping fixture must not exceed the values shown in the table above.

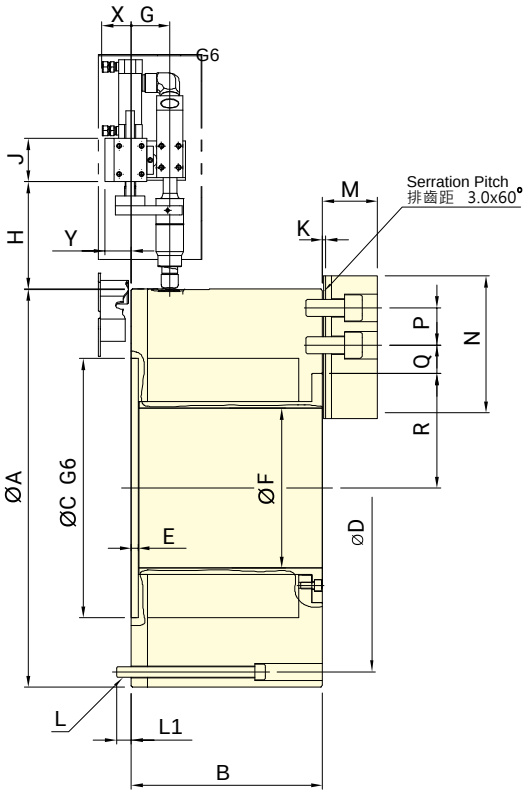
Indexing can be performed while the spindle is rotating. However, when indexing at high rotational speeds, it is recommended to reduce the speed by 50% to avoid vibration caused by imbalance when the workpiece is in an intermediate position. Furthermore, depending on the shape of the workpiece, indexing during spindle rotation may not be possible.

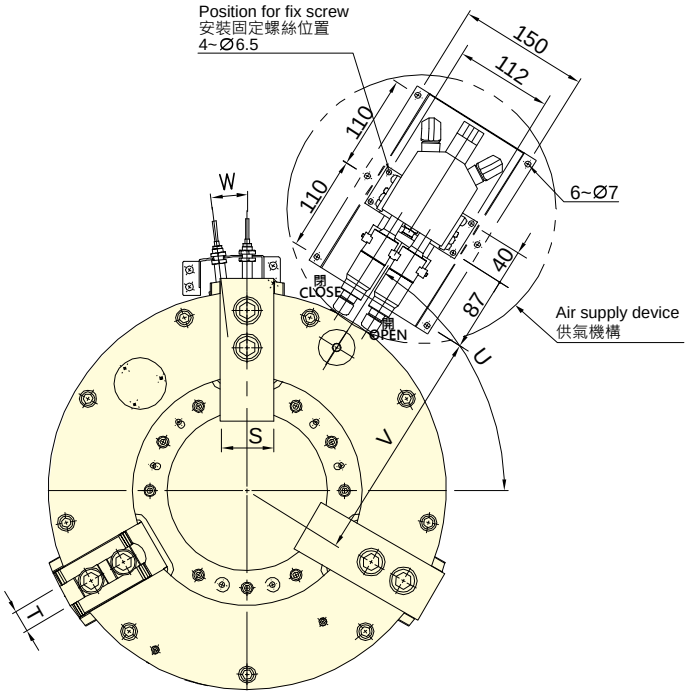
The "*" model is produced upon order, with no stock available.
*Index Angle 8x45° or Specific Angle, Please contact AUTOGRIP for more detailed information.Thanks.

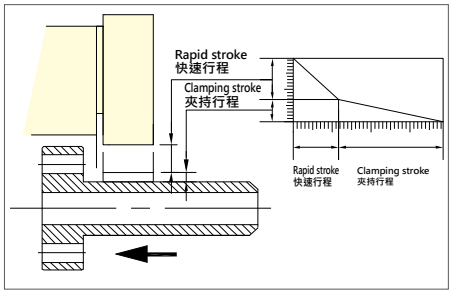
大孔徑中空氣動夾頭 (二段式行程)
LARGE THRU-HOLE AIR CHUCK (DOUBLE SPEED JAW STROKE)

- 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。
- 搭配注氣系統，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.
- Features an 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 O.D. 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.







技術規格 SPECIFICATIONS

型號	通孔徑	爪行程 (直徑)		夾持 直徑 Chucking Dia.		最大夾持力	最高迴轉數	I	重量	空氣消耗量 (使用壓力 6kgf/cm²)
Model	Thru-hole Dia.	Jaw stroke (Dia.)		最大 Max.	最小Min.	Max. Clamping force	Max. speed	Moment of inertia	Weight	Air Consumption
	mm	mm		mm	mm	kN (kgf)	min⁻¹(r.p.m.)	kg·m²	kg	lit(at 6kgf/cm²)
APS-185	185	26	14	460	127	110(11216)	1300	6.45	198	22

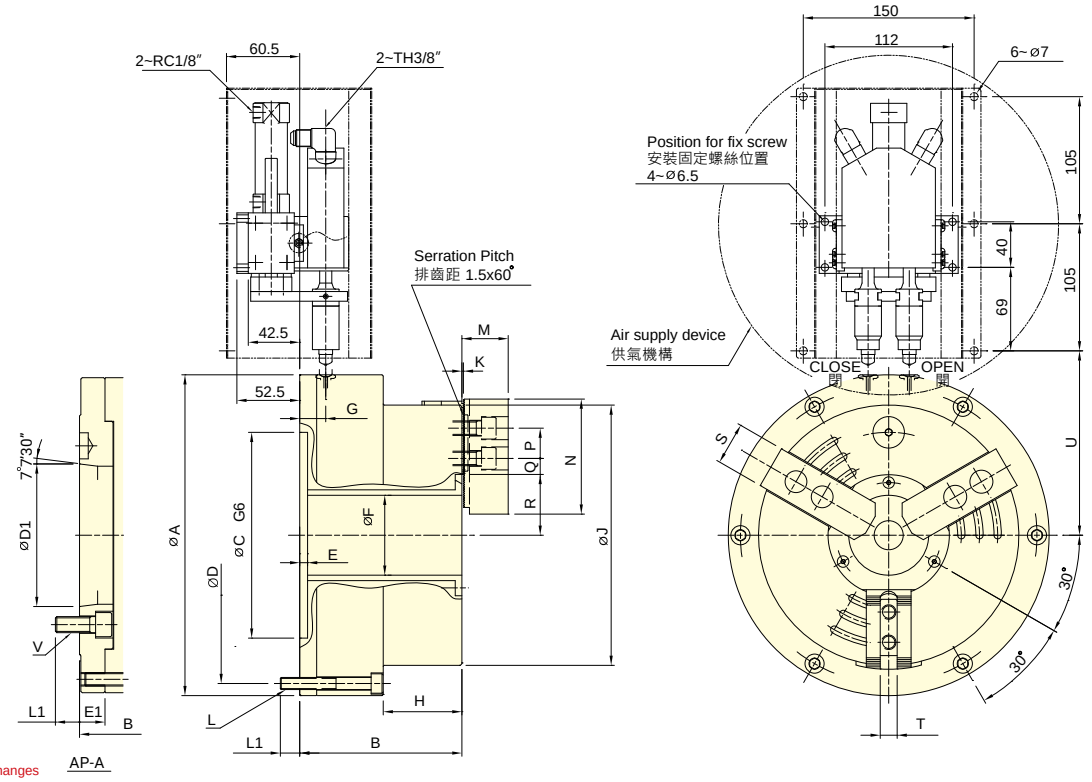
外型尺寸 DIMENSIONS

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

大孔徑中空氣動夾頭 (一)
LARGE THRU-HOLE AIR CHUCK

- 超大通孔徑氣動夾頭，內藏氣壓缸設計，特別適合管材加工應用。
- 夾頭內建「壓力檢知」機構，可即時偵測夾持壓力異常驟降，提升操作安全性 (僅適用於外徑夾持) 。
- 搭配注氣系統，安裝快速、維護簡便，無傳統注氣密封環磨耗問題。
- 有效降低安裝與維修成本，並縮短保養時間。
- Large through-hole 3-jaw pneumatic power chuck with a built-in air cylinder, ideal for pipe and tube machining.
- Equipped with an integrated pressure detection mechanism that monitors sudden pressure drops inside the chuck, ensuring safe operation (Applicable to O.D. gripping only).
- Features an air supply system that allows quick installation and easy maintenance, eliminating wear issues associated with traditional air sealing rings.
- Reduces installation and maintenance costs while minimizing downtime.



技術規格 SPECIFICATIONS

型號		通孔徑	爪行程(直徑)	夾持直徑 Chucking Dia.		最大使用壓力	最大夾持力	最高迴轉數	I	重量		空氣消耗量 (使用壓力 6kgf/cm²)
Model		Thru-hole Dia.	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. pressure	Max. Clamping force	Max. speed	Moment of inertia	Weight		Air Consumption
		mm	mm	mm	mm	MPa (kgf/cm²)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg		lit (at 6kgf/cm²)
AP-52	A6	52	5.9	170	15	0.6(6.1)	40.5(4128)	3900	0.2	26	30	3.1
AP-66	A6	66	7.6	215	24	0.6(6.1)	50(5097)	3000	0.4	38	45	5.1
AP-86	A8	86	8.9	268	43	0.6(6.1)	80(8156)	2800	0.7	58	72	8.7
AP-115	A8	115	10.6	330	55	0.6(6.1)	90(9174)	2000	1.7	92	112	12

外型尺寸 DIMENSIONS

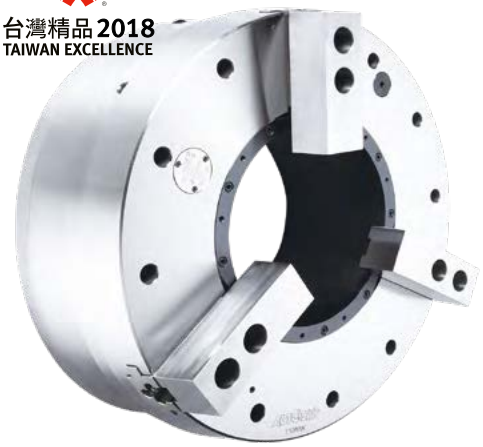
Model		A	B		C	D	D1	E	E1	F	G	H	J	K	L
AP-52	A6	235	121	140	170	215	106.38	6.5	19	52	21.5	58.5	170	2	6~M10
AP-66	A6	265	134	153	170	245	106.38	6.5	19	66	21.5	65	215	2	6~M10
AP-86	A8	315	142	169	220	295	139.72	6.5	27	86	21.5	67	268	2	6~M10
AP-115	A8	370	154	181	220	350	139.72	6.5	27	115	21.5	69	330	2	6~M10

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

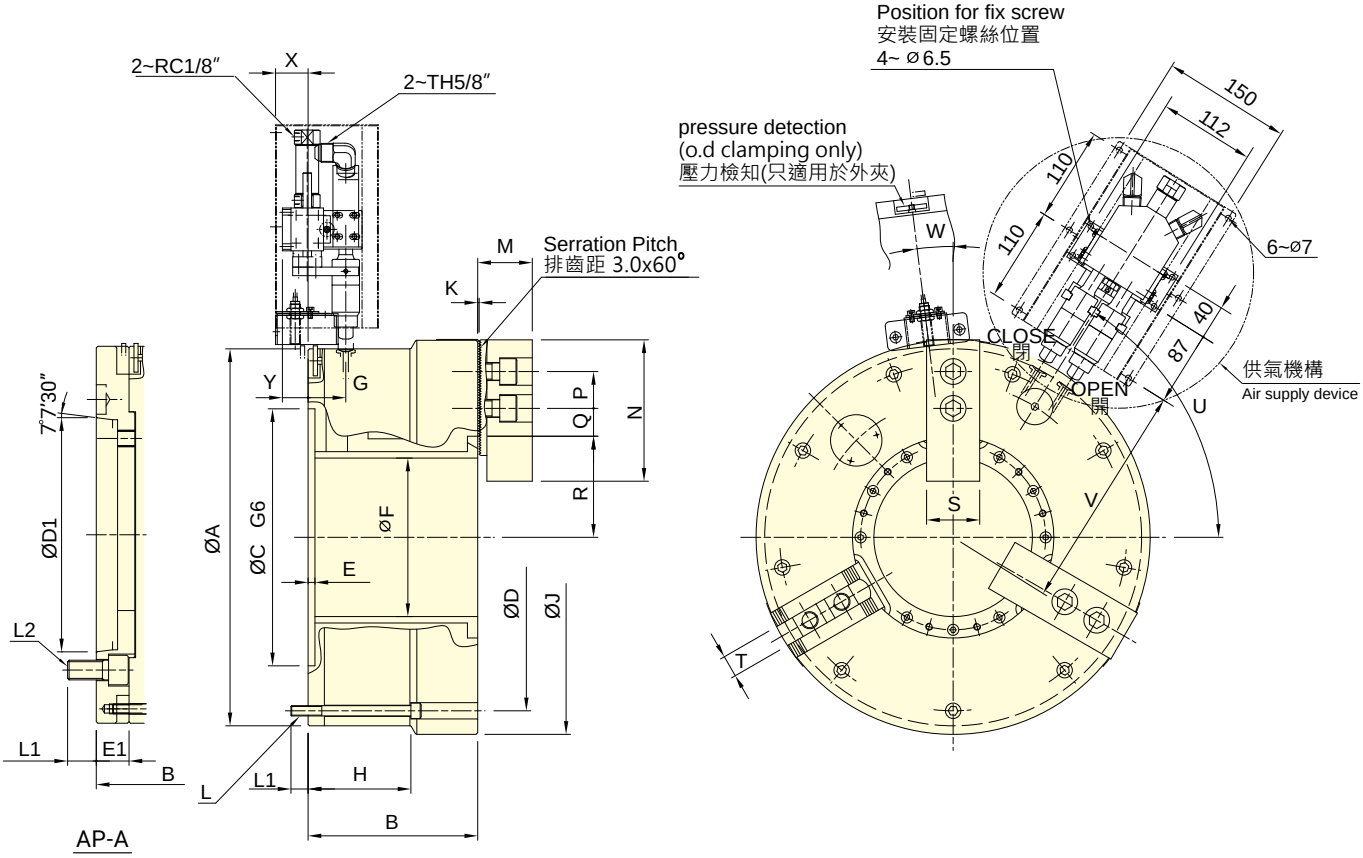
紅色數據為 AP-A 型之寸法 (The dimensions and the specifications of AP-A type are in red data.)

大孔徑中空氣動夾頭 (二)
LARGE THRU-HOLE AIR CHUCK

台灣精品 2018
TAIWAN EXCELLENCE



- 超大通孔徑氣動夾頭，內藏氣壓缸設計，特別適合管材加工應用。
- 夾頭內建「壓力檢知」機構，可即時偵測夾持壓力異常驟降，提升操作安全性（僅適用於外徑夾持）。
- 搭配注氣系統，安裝快速、維護簡便，無傳統注氣密封環磨耗問題。
- 有效降低安裝與維修成本，並縮短保養時間。
- Large through-hole 3-jaw pneumatic power chuck with a built-in air cylinder, ideal for pipe and tube machining.
- Equipped with an integrated pressure detection mechanism that monitors sudden pressure drops inside the chuck, ensuring safe operation (Applicable to O.D. gripping only).
- Features an air supply system that allows quick installation and easy maintenance, eliminating wear issues associated with traditional air sealing rings.
- Reduces installation and maintenance costs while minimizing downtime.



技術規格 SPECIFICATIONS

型號		通孔徑	爪行程 (直徑)	夾持直徑 Chucking Dia.		最大使用壓力	最大夾持力	最高迴轉數	I	重量		空氣消耗量 (使用壓力 6kgf/cm²)
Model		Thru-hole Dia.	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. pressure	Max. Clamping force	Max. speed	Moment of inertia	Weight		Air Consumption
		mm	mm	mm	mm	MPa (kgf/cm²)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg		lit(at 6kgf/cm²)
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

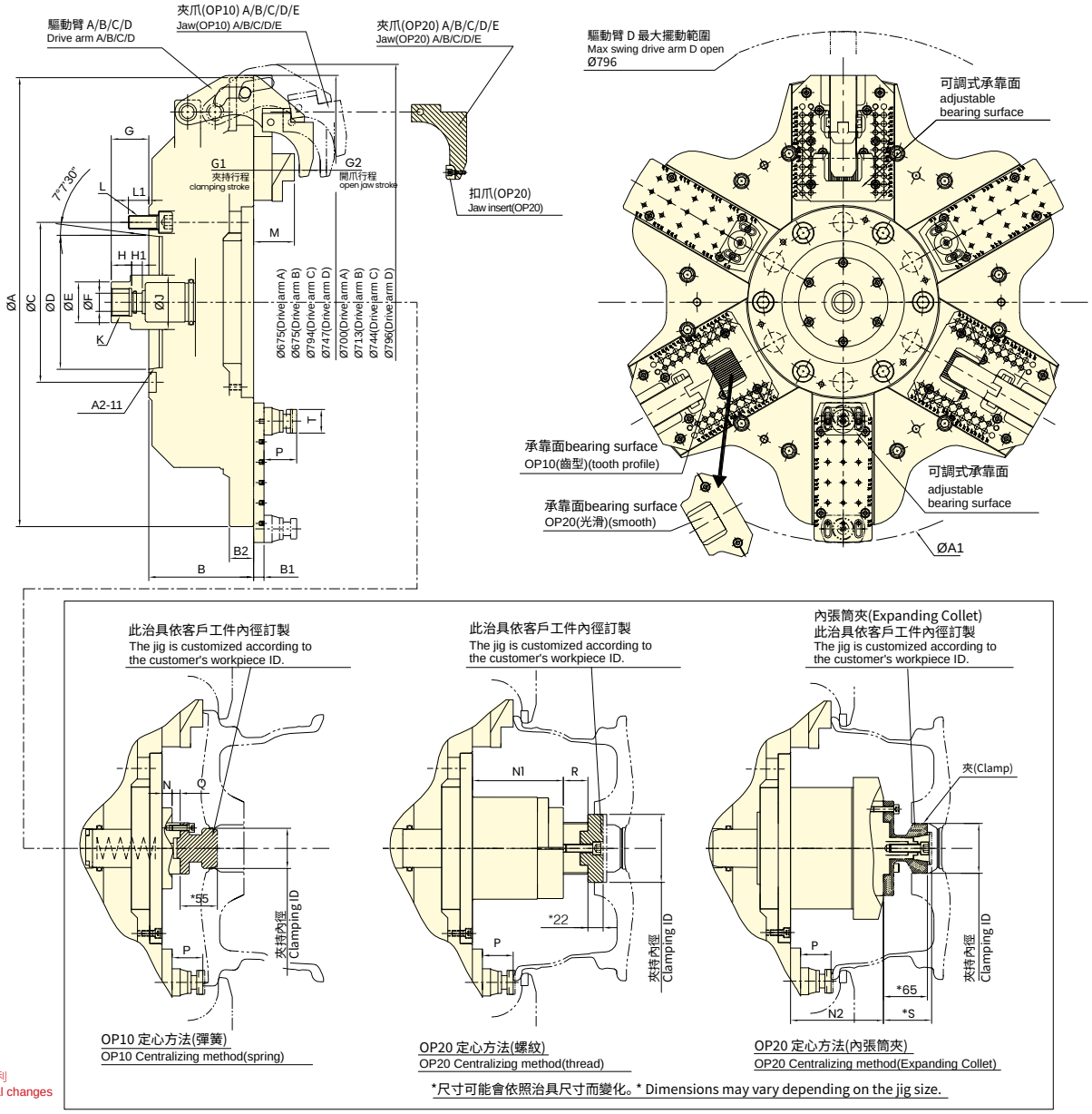
Model		L2	M	N	P	Q max.	Q min.	R max.	R min.	S	T	U	V	W	X	Y
AP-145	A11	6~M20	63.7	165	43	53.5	23.5	98	91	62	25.5	57°	242	0°	38	20
AP-185	A15	6~M24	63.7	165	43	53.5	23.5	118	111	62	25.5	58°	272	7°	38	20
AP-230	A15	6~M24	71.7	180	60	48.5	18.5	145	136.5	64	25.5	30°	300	7°	33	15
AP-275	A20	6~M24	71.7	180	60	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	75	30	52°	350	7°	27	9
AP-375	A20	6~M24	81.5	210	60	66.5	24.5	223.5	211.5	75	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.)

鋁合金輪圈夾頭
FINGER CHUCK FOR ALUMINUM WHEELS

- 採用高級合金鋼製成，所有滑動面皆經表面硬化與精密研磨處理，確保結構耐用與運作穩定。
- 適用於四輪車用鋁合金輪圈的粗加工與精加工等多種加工需求。
- 可透過調整承靠面與氣密面，並更換驅動臂與夾爪，對應13吋至24吋各式規格輪圈的加工作業。
- 可依不同輪圈形狀更換治具，對應各工序所需的定心方式，有效提升加工精度與生產彈性。
- 適用於CNC車床、專用輪圈加工機及車銑複合機等設備。
- Made of high-grade alloy steel. All sliding surfaces are surface-hardened and precision-ground to ensure durability and operational stability.
- Designed for rough and finish machining of aluminum alloy wheels for passenger vehicles.
- Accommodates wheel sizes ranging from 13″ to 24″ by adjusting the support and sealing surfaces, and replacing the drive arms and jaws.
- Changeable fixtures allow adaptation to various centering methods required in different machining processes, enhancing precision and production flexibility.
- Compatible with CNC lathes, dedicated wheel machining machines, and mill-turn centers.

- 可選配對應的夾爪及驅動臂。
- Optional matching jaws and drive arms available.



鋁合金輪圈夾頭
FINGER CHUCK FOR ALUMINUM WHEELS

技術規格 SPECIFICATIONS

型號		軸向總行程	開爪行程	夾持行程	最大夾持輪圈尺寸	最小夾持輪圈尺寸	容許最大入力	最大夾持力
Model		Total axial stroke	Open jaw stroke	Clamping stroke	Max. clamping size of the Wheel	Min. clamping size of the Wheel	Max. D.B. pull	Max. clamping force
		mm	mm	mm	inch	inch	kN (kgf)	kN (kgf)
3FW-26	**A11**	40	9	31	24"	13"	34.3(3500)	30.9(3150)

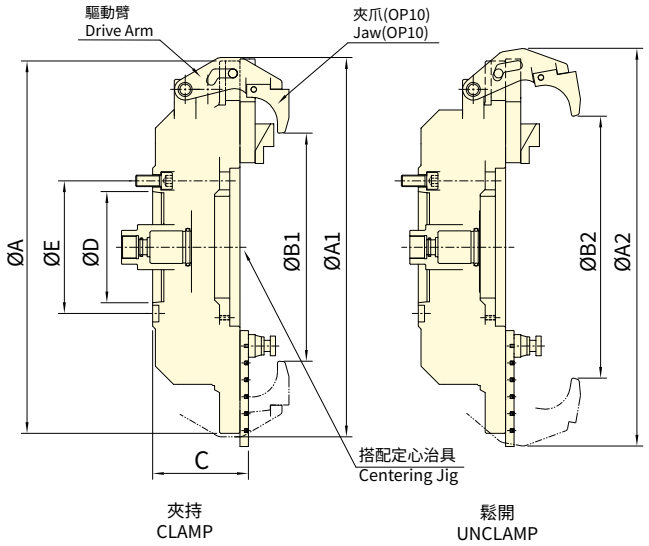
型號		最高迴轉數	I	重量 (不包含治具)	重量 (包含OP10治具)	重量 (包含OP20治具)	適用迴轉缸	最大使用壓力
Model		Max. speed	Moment of inertia	Weight (Jig not included)	Weight (OP10 jig included)	Weight (OP20 jig included)	Matching cyl.	Max. pressure
		min^{-1} (r.p.m.)	$kg·m^2$	kg	kg	kg		MPa kgf/cm^2
3FW-26	**A11**	2200	7.3	160	180	190-200	RE-A1340 RC-1240	3.2(33)

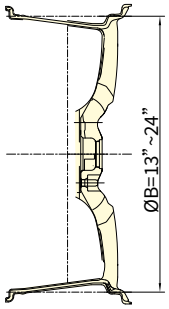
外型尺寸 DIMENSIONS

Model		A	A1	B	B1	B2	C	D	E	F	G max.	G min.	G1	G2	H	H1	J
3FW-26	**A11**	660	706	154.5	15	36	235	196.87	60	26.5	55	15	31	9	30	15.5	80

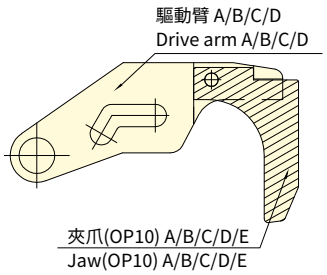
Model		K	L	L1	M	N	N1	N2 max.	N2 min.	P max.	P min.	Q max.	Q min.	R max.	R min.	S max.	S min.	T
3FW-26	**A11**	M40x1.5	6~M20	30	60	15	134	220	38	48	42	15	0	106	32	71.5	66.5	35

鋁合金輪圈夾頭 - 夾爪選配表 (OP10)
FINGER CHUCK FOR ALUMINUM WHEELS - JAW SELECTION (OP10)





ØB為輪圈的公稱尺寸
ØB is the nominal size of the Wheel



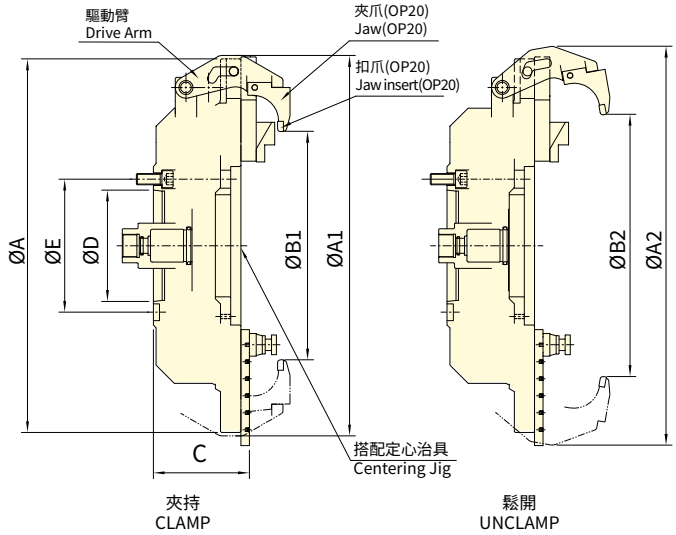
保留規格修改的權利 Subject to technical changes

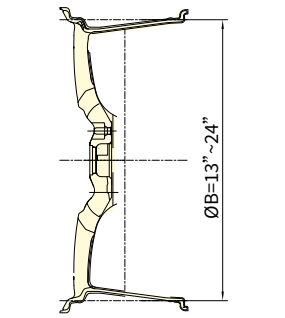
驅動臂 Drive Arm / 輪圈尺寸 Wheel size	驅動臂A Drive Arm A		驅動臂B Drive Arm B		驅動臂C Drive Arm C		驅動臂D Drive Arm D	
	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2
13"	夾爪 Jaw A							
	339	400						
14"	夾爪 Jaw B							
	364	425						
15"	夾爪 Jaw C							
	392	453						
16"	夾爪 Jaw D		夾爪 Jaw A					
	421	482	419	480				
17"	夾爪 Jaw E		夾爪 Jaw B					
	445	506	444	505				
18"			夾爪 Jaw C		夾爪 Jaw A			
			472	533	477	538		
19"			夾爪 Jaw D		夾爪 Jaw B			
			501	502	502	563		
20"			夾爪 Jaw E		夾爪 Jaw C		夾爪 Jaw A	
			525	586	530	591	530	591
21"					夾爪 Jaw D		夾爪 Jaw B	
					559	620	555	616
22"					夾爪 Jaw E		夾爪 Jaw C	
					583	644	583	644
23"							夾爪 Jaw D	
							607	668
24"							夾爪 Jaw E	
							633	694
夾頭最大徑 Max. chuck diameter ØA	Ø660							
夾持時最大外徑 Max. OD when CLAMP ØA1	Ø675		Ø675		Ø694		Ø747	
張開時最大外徑 Max. OD when UNCLAMP ØA2	Ø700		Ø713		Ø744		Ø796	
輪圈尺寸 Wheel size ØB	13"~17"		16"~20"		18"~22"		20"~24"	
C	169.5							
ØD	196.87							
ØE	235							

* 同一顏色區塊代表夾持該尺寸輪圈時，可選擇不同的驅動臂與夾爪組合來夾持，依據機台的允許空間來選擇。
例如：驅動臂 A+ 夾爪 D = 夾持 16" 輪圈 ， 驅動臂 B+ 夾爪 A = 亦可夾持 16" 輪圈。

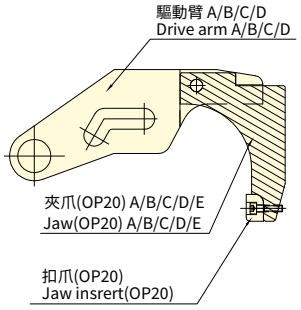
Blocks in the same color indicate that different combinations of drive arms and jaws can be used to clamp wheels of the same size.
The selection depends on the available space of the machine. For example: Drive Arm A + Jaw D = clamping a 16" wheel, and Drive Arm B + Jaw A can also clamp a 16" wheel.

鋁合金輪圈夾頭 - 夾爪選配表 (OP20)
FINGER CHUCK FOR ALUMINUM WHEELS-JAW SELECTION (OP20)





ØB為輪圈的公稱尺寸
ØB is the nominal size of the Wheel



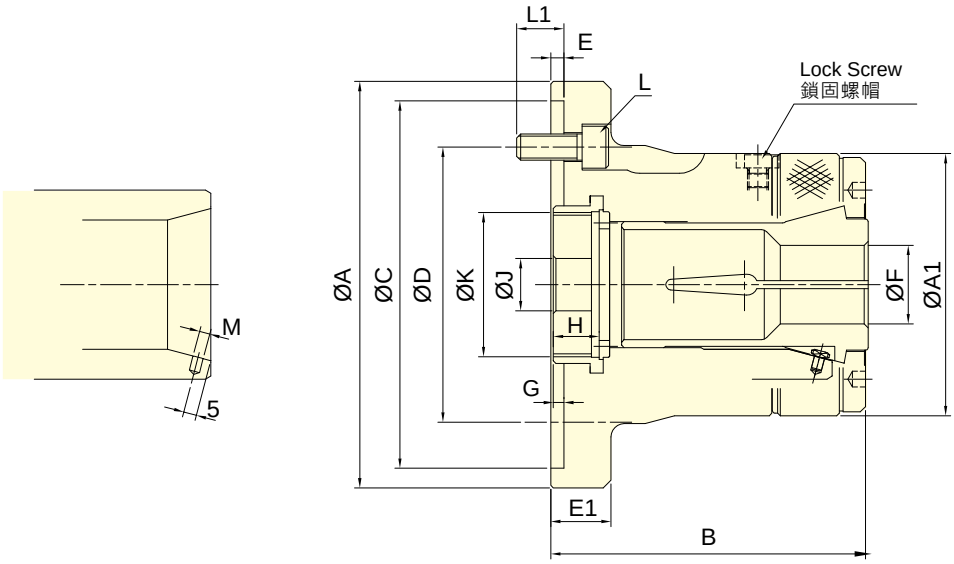
保留規格修改的權利 Subject to technical changes

輪圈尺寸 Wheel size / 驅動臂 Drive Arm	驅動臂A Drive Arm A		驅動臂B Drive Arm B		驅動臂C Drive Arm C		驅動臂D Drive Arm D	
	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2	夾爪最小內徑 Min. ID ØB1	夾爪最大內徑 Max. ID ØB2
13"	夾爪 Jaw A							
	335	396						
14"	夾爪 Jaw B							
	362	423						
15"	夾爪 Jaw C							
	392	453						
16"	夾爪 Jaw D		夾爪 Jaw A					
	417	478	415	476				
17"	夾爪 Jaw E		夾爪 Jaw B					
	445	506	442	503				
18"			夾爪 Jaw C		夾爪 Jaw A			
			472	553	473	534		
19"			夾爪 Jaw D		夾爪 Jaw B			
			497	558	500	561		
20"			夾爪 Jaw E		夾爪 Jaw C		夾爪 Jaw A	
			525	586	530	591	526	587
21"					夾爪 Jaw D		夾爪 Jaw B	
					555	616	553	614
22"					夾爪 Jaw E		夾爪 Jaw C	
					583	644	583	644
23"							夾爪 Jaw D	
							603	664
24"							夾爪 Jaw E	
							633	694
夾頭最大徑 Max. chuck diameter ØA	Ø660							
夾持時最大外徑 Max. OD when CLAMP ØA1	Ø675		Ø675		Ø694		Ø747	
張開時最大外徑 Max. OD when UNCLAMP ØA2	Ø700		Ø713		Ø744		Ø796	
輪圈尺寸 Wheel size ØB	13"~17"		16"~20"		18"~22"		20"~24"	
C	169.5							
ØD	196.87							
ØE	235							

* 同一顏色區塊代表夾持該尺寸輪圈時，可選擇不同的驅動臂與夾爪組合來夾持，依據機台的允許空間來選擇。
例如：驅動臂 A+ 夾爪 D = 夾持 16" 輪圈 ， 驅動臂 B+ 夾爪 A = 亦可夾持 16" 輪圈。

Blocks in the same color indicate that different combinations of drive arms and jaws can be used to clamp wheels of the same size.
The selection depends on the available space of the machine. For example: Drive Arm A + Jaw D = clamping a 16" wheel, and Drive Arm B + Jaw A can also clamp a 16" wheel.

- 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.



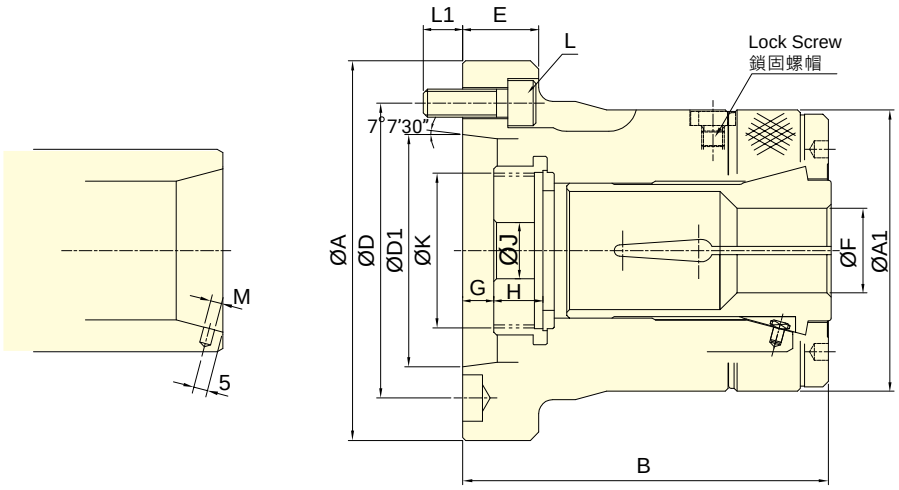
技術規格 SPECIFICATIONS

型號	套筒行程	最大夾持能力 Max. Chucking Capacity			容許最大入力	最大夾持力	最高迴轉數	I	重量	使用筒夾	適用迴轉缸	最大使用壓力
Model	Plunger stroke	圓棒 Round	六角材 Hexagom	方材 Square	Max. D.B. pull	Max. clamping force	Max. speed	Moment of inertia	Weight	Matching steel collet	Matching Cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	$kg{\cdot}m^2$	kg			MPa (kgf/cm^2)
CL-26	4.5	26	22	18	17.6(1800)	37.9(3870)	8000	0.040	4.3	161E	TK-A533	2.4(24)
CL-30	4.5	30	26	21	19.6(2000)	42.1(4300)	8000	0.038	4.2	163E	TK-A533	2.7(27)
CL-36	6	36	31	25	22.5(2300)	48.5(4950)	6000	0.062	7.0	171E	TK-C643	2.3(23)
CL-42	6	42	36	29	24.5(2500)	52.9(5400)	6000	0.060	6.9	173E	TK-C643	2.5(25)
CL-52	6	52	45	36	27.4(2800)	59.0(6020)	6000	0.101	14.3	177E	TK-A853	2.0(20)
CL-6017	6	60	51	42	29.4(3000)	63.7(6500)	5000	0.098	14.1	185E	TS-866	1.8(18)
CL-6022	6	60	51	42	29.4(3000)	63.7(6500)	5000	0.126	16.3	185E	TS-866	1.8(18)
CL-80	6	80	69	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.



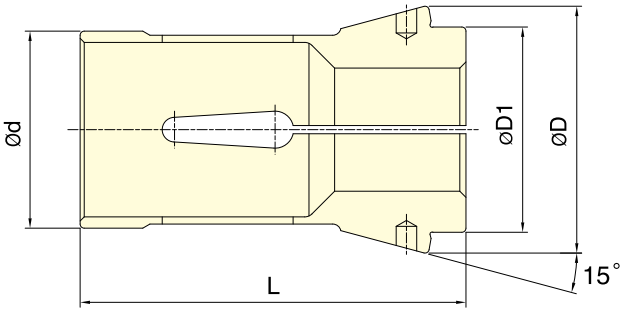
保留規格修改的權利
Subject to technical changes

技術規格 SPECIFICATIONS

型號 Model		套筒行程 Plunger stroke	最大夾持能力 Max. Chucking Capacity 圓棒 Round	六角材 Hexagom	方材 Square	容許最大入力 Max. D.B. pull	最大夾持力 Max. clamping force	最高迴轉數 Max. speed	慣性 Moment of inertia	重量 Weight	使用筒夾 Matching steel collet	適用迴轉缸 Matching Cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg·m²	kg			MPa (kgf/cm²)
CL-26	**A4**	4.5	26	22	18	17.6(1800)	37.9(3870)	8000	0.040	4.2	161E	TK-A533	2.4(24)
CL-30	**A4**	4.5	30	26	21	19.6(2000)	42.1(4300)	8000	0.038	4.1	163E	TK-A533	2.7(27)
CL-36	**A5**	6	36	31	25	22.5(2300)	48.5(4950)	6000	0.058	6.3	171E	TK-C643	2.3(23)
CL-42	**A5**	6	42	36	29	24.5(2500)	52.9(5400)	6000	0.057	6.1	173E	TK-C643	2.5(25)
CL-42	**A6**	6	42	36	29	24.5(2500)	52.9(5400)	6000	0.061	7.5	173E	TK-C643	2.5(25)
CL-52	**A6**	6	52	45	36	27.4(2800)	59.0(6020)	6000	0.093	13.8	177E	TK-A853	2.0(20)
CL-60	**A6**	6	60	51	42	29.4(3000)	63.7(6500)	5000	0.091	13.5	185E	TS-866	1.8(18)
CL-60	**A8**	6	60	51	42	29.4(3000)	63.7(6500)	5000	0.104	14.5	185E	TS-866	1.8(18)
CL-80	**A8**	6	80	69	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	15	9	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



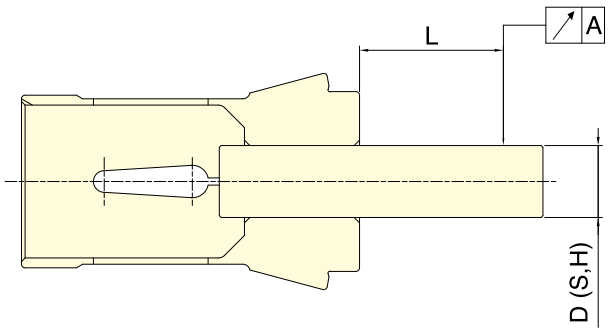
DIN 6343 Collet standard
筒夾規範

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

外型尺寸 DIMENSIONS

彈性筒夾 Collet	最大夾持能力 Max. Chucking Capacity (mm)			d	D	D1	L	適合筒夾夾頭 Matching Collet Chuck
	圓棒 Round	六角材 Hexagom	方材 Square					
161E	26	22	18	32	45	34	75	CL-26, CL-26A4
163E	30	26	21	35	48	38	80	CL-30, CL-30A4
171E	36	31	25	42	55	42	94	CL-36, CL-36A5
173E	42	36	29	48	60	50	94	CL-42, CL-42A5, CL-42A6
177E	52	45	36	58	70	60	94	CL-52, CL-52A6
185E	60	51	42	66	84	73	110	CL-6017, CL-6022, CL-60A6, CL-60A8
193E	80	69	56	90	107	92	130	CL-80, CL-80A8

測棒D(S,H) Test Bar 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



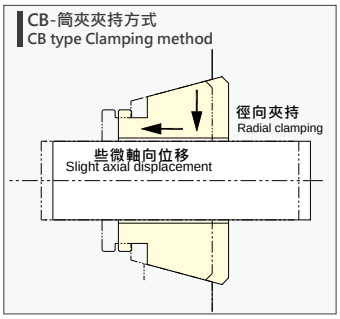
註 : 一般內筒夾 精度為 DIN 二級
Note: Collets chuck are conformed to DIN 6343 Class2.

CB/CB-A 後拉式筒夾夾頭
DRAW BACK COLLET CHUCK

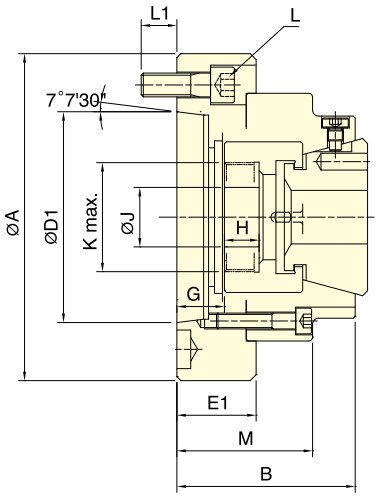
- 適合CNC車床，專用機，或其他旋削機械，作棒材或心軸加工用。
- 後拉夾持，具徑向夾持與軸向微調力矩，貫通孔徑。
- 高精度，高轉速及高剛性結構。
- 全面防水設計，防止切削水進入主軸通孔處。
- Ideal for CNC lathes, specialized machines, and turning equipment for bar stock or shaft machining.
- Draw-back clamping with radial clamping and axial fine-tuning torque, featuring through-hole.
- Offers 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。

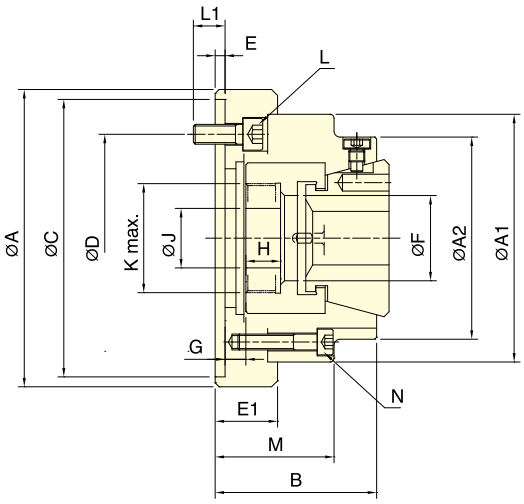
■ J is the hole diameter of blank draw nut.
K is the maximum thread specification and it could be customize.



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.



CB-A



CB

技術規格 SPECIFICATIONS

型號 Model		套筒行程 Plunger stroke	最大夾持能力 Max. Chucking Capacity 圓棒 Round	六角材 Hexagom	方材 Square	容許最大入力 Max. D.B. pull	最大夾持力 Max. clamping force	最高迴轉數 Max. speed	重量 Weight	使用筒夾 Matching steel collet	適用迴轉缸 Matching Cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	kN (kgf)	kN (kgf)	min⁻¹ (r.p.m.)	kg			MPa (kgf/cm²)
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)

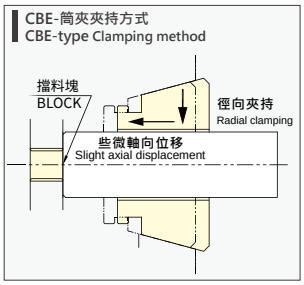
外型尺寸 DIMENSIONS

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

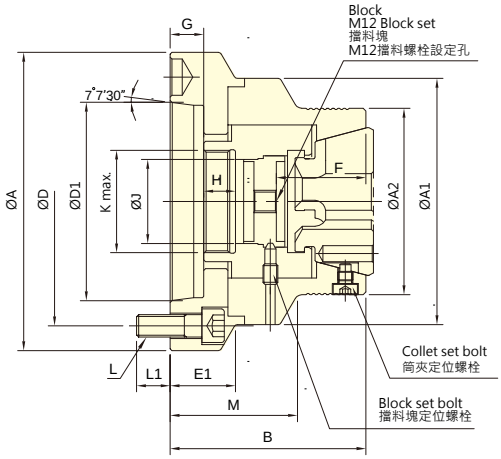
CBE/CBE-A 後拉定位式橡膠筒夾夾頭
END STOP COLLET CHUCK

- 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.

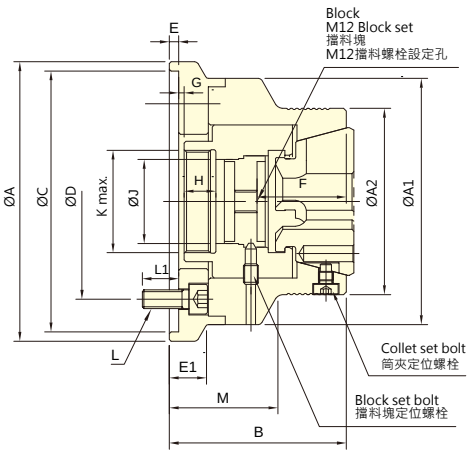
- J 值為連結螺帽未車製螺牙時的孔徑。
- K max 值為連結螺帽可車製螺牙之最大規格，可依實際需求訂製。
- J is the hole diameter of blank draw nut.
- K is the maximum thread specification and it could be customize.



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.



CBE-A



CBE

技術規格 SPECIFICATIONS

型號 Model		套筒行程 Plunger stroke	最大夾持能力 Max. Chucking Capacity 圓棒 Round	六角材 Hexagom	方材 Square	容許最大入力 Max. D.B. pull	最大夾持力 Max. clamping force	最高迴轉數 Max. speed	重量 Weight	使用筒夾 Matching steel collet	適用迴轉缸 Matching Cyl.	最大使用壓力 Max. pressure
		mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg			MPa (kgf/cm^2)
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)

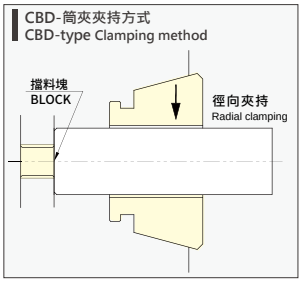
外型尺寸 DIMENSIONS

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

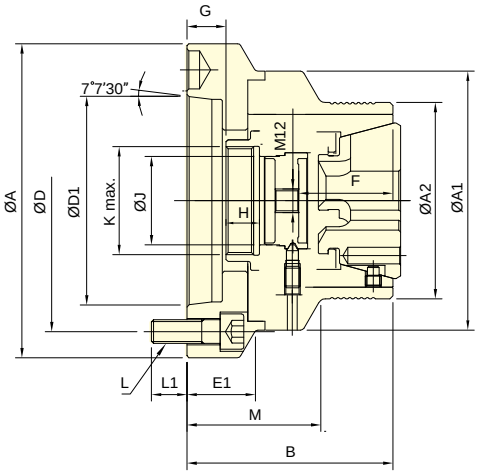
CBD/CBD-A 前推固定式橡膠筒夾夾頭
DEAD LENGTH COLLET CHUCK

- 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.

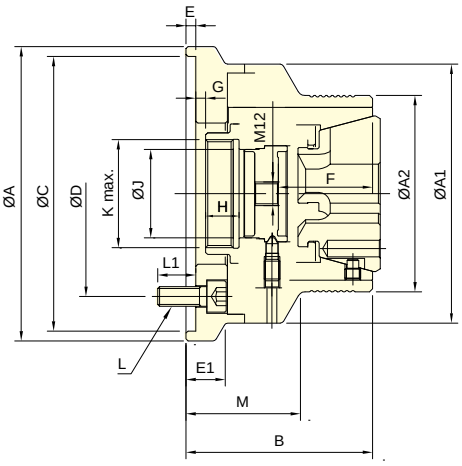
- J 值為連結螺帽未車製螺牙時的孔徑。
  K max 值為連結螺帽可車製螺牙之最大規格，可依實際需求訂製。
- J is the hole diameter of blank draw nut.
  K is the maximum thread specification and it could be customize.



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



CBD-A



CBD

技術規格 SPECIFICATIONS

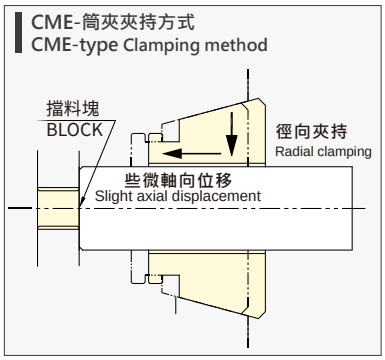
型號		套筒行程	最大夾持能力 Max. Chucking Capacity			容許最大入力	最大夾持力	最高迴轉數	重量	使用筒夾	適用迴轉缸	最大使用壓力
Model		Plunger stroke	圓棒 Round	六角材 Hexagom	方材 Square	Max. D.B. pull	Max. clamping force	Max. speed	Weight	Matching steel collet	Matching Cyl.	Max. pressure
		mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg			MPa (kgf/cm^2)
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)	7000	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)	7000	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)	6000	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)	6000	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)	6000	9.5	RG-65	TS-866	2.7(27)

外型尺寸 DIMENSIONS

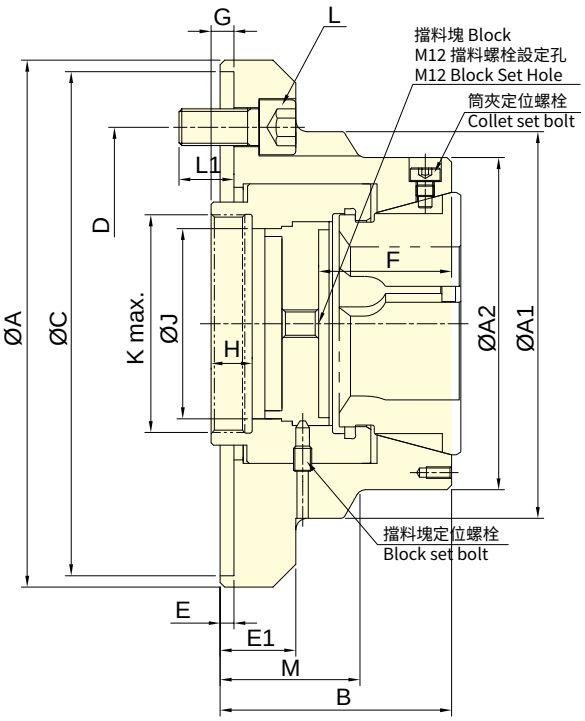
Model		A	A1	A2	B	C (H6)	D	D1	E	E1	F	G max.	G min.	H	J	K max.	L	L1	M
CBD-52		150	140	116	99	140	104.8	-	5	-	52	7	2.5	17	56	M60x2	4~M10x20	14.5	57
CBD-5212		140	140	116	99	120	100	-	5	-	52	7	2.5	17	56	M60x2	4~M10x20	14.5	57
CBD-5217		180	140	116	109	170	133.4	-	6	-	52	16	11.5	17	56	M60x2	4~M12x30	18	67
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

- 簡易、精短、輕量化設計。
- 採後拉定位夾持，搭配擋料塊機構，具備徑向夾持及軸向微調力矩功能，可精準定位工件入料長度，提升長度精度控制。
- 擋料塊與防塵蓋可互換使用，同時兼顧通孔加工需求與防屑功能。
- Simple, concise, and lightweight design.
- Rear pull positioning clamping, with a stopper block mechanism. Equipped with radial clamping and axial fine-tuning torque, it can precisely position the workpiece's material entry length, ensuring more accurate length control.
- The stopper block and dust cover can be interchanged, allowing for through-hole applications and dustproof functionality.

- 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.



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

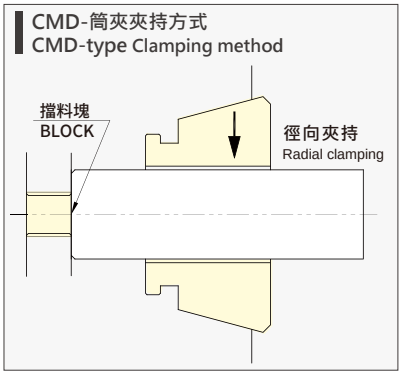
型號	套筒行程	最大夾持能力 Max. Chucking Capacity			容許最大入力	最大夾持力	最高迴轉數	重量	使用筒夾	適用迴轉缸	最大使用壓力
Model	Plunger stroke	圓棒 Round	六角材 Hexagom	方材 Square	Max. D.B. pull	Max. clamping force	Max. speed	Weight	Matching steel collet	Matching Cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg			MPa (kgf/cm^2)
CME-80	4.5	5~50	6~68	8~56	50.0(5100)	115(11730)	6500	13.6	RG-80	TK-A1287	2.3 (23)

外型尺寸 DIMENSIONS

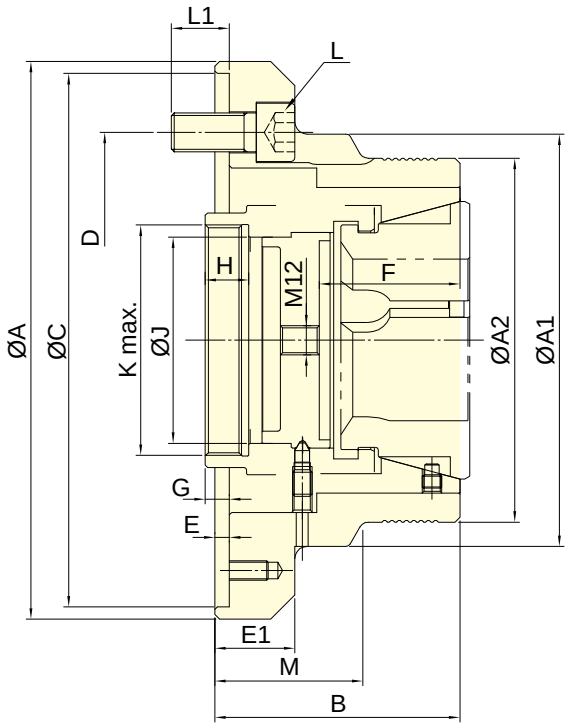
Model	A	A1	A2	B	C(H6)	D	E	E1	F	G max.	G min.	H	J	K max.	L	L1	M
CME-80	230	170	145	101	220	171.4	6	33	58	12	7.5	18	83	M95x2	3~M16x35	24	61

- 精簡輕量設計，結構簡單。
- 前推夾持，搭配擋料塊機構，徑向夾持零位移，有效控制工件進給長度。
- 搭配AUTOGRIP橡膠筒夾，避免工件被推動，保護工件表面。
- 擋料塊與防塵蓋可互換，兼具通孔加工與防屑功能，適用於副主軸夾持，降低夾持拉壓力。
- Compact and lightweight design with simplified structure.
- Dead length clamping with a built-in work stop ensures zero axial movement for precise workpiece positioning.
- Compatible with AUTOGRIP rubber collets to prevent forward push and protect the workpiece surface.
- Interchangeable work stop and dust cover for through-hole machining and chip protection. Ideal for sub-spindle clamping with reduced axial clamping force.

- 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.



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

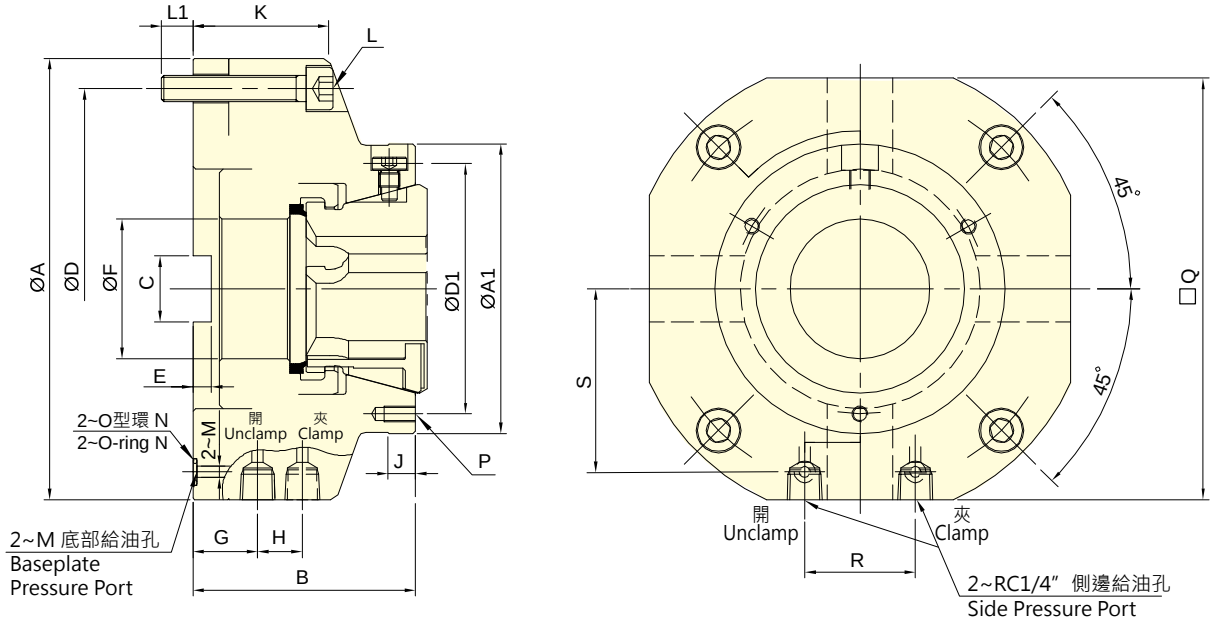
技術規格 SPECIFICATIONS

型號	套筒行程	最大夾持能力 Max. Chucking Capacity			容許最大入力	最大夾持力	最高迴轉數	重量	使用筒夾	適用迴轉缸	最大使用壓力
Model	Plunger stroke	圓棒 Round	六角材 Hexagom	方材 Square	Max. D.B. pull	Max. clamping force	Max. speed	Weight	Matching steel collet	Matching Cyl.	Max. pressure
	mm	mm	mm	mm	kN (kgf)	kN (kgf)	min^{-1} (r.p.m.)	kg			MPa (kgf/cm^2)
CMD-80	4.5	5~80	8~68	8~56	50.0(5100)	115(11730)	6500	13.6	RG-80	TK-A1287	2.3(23)

外型尺寸 DIMENSIONS

Model	A	A1	A2	B	C(H6)	D	E	E1	F	G max.	G min.	H	J	K max.	L	L1	M
CMD-80	230	170	150	101	220	171.4	6	33	58	12.5	8	18	85	M95x2	3~M16x35	24	61

- 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.



技術規格 SPECIFICATIONS

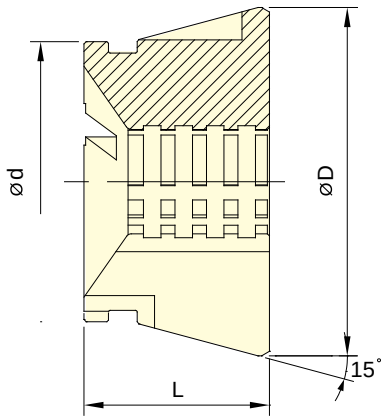
型號	爪行程(直徑)	最大夾持能力 Max. Chucking Capacity			最大夾持力 Max. clamping force		最大使用壓力 Max. pressure		重量	使用筒夾
	Jaw stroke(Dia.)	圓棒 Round	六角材 Hexagom	方材 Square	氣壓 Pneumatic	油壓 Hydraulic	氣壓 Pneumatic	油壓 Hydraulic	Weight	Matching steel collet
Model	mm	mm	mm	mm	kN (kgf)	kN (kgf)	MPa (kgf/cm²)	MPa (kgf/cm²)	kg	
SCB-52	± 0.5	4~52	7~45	7~36	8.2(837)	101(10300)	0.6(6)	4.0(40)	8.6	RG-52
SCB-65	± 0.5	4~65	8~56	8~46	10(1020)	105(10700)	0.6(6)	4.2(42)	10.2	RG-65

外型尺寸 DIMENSIONS

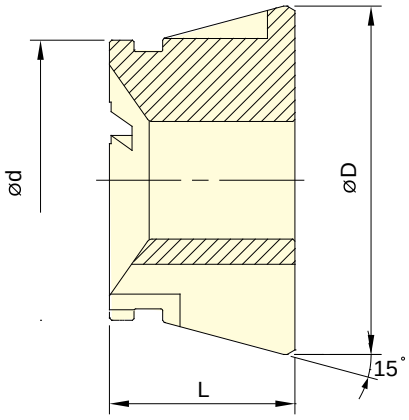
Model	A (g6)	A1	B	C	D	D1	E	F	G	H
SCB-52	175	110	84.5	25	152	95	7	53	24.5	17
SCB-65	192	130	94	30	169	114	9	66	26.5	20

Model	J	K	L	L1	M	N	P	Q	R	S
SCB-52	10	51.5	4~M10	12	4.2	P7	3~M6x12	160	42	69.5
SCB-65	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±0.5mm。
- 更換快速方便。
- 防塵防屑設計。
- Rubber grip collet for push type or draw type collet chucks.
- Full griping 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: ±0.5mm.
- Quick change and easy.
- Dust-proof and swarf-proof design.



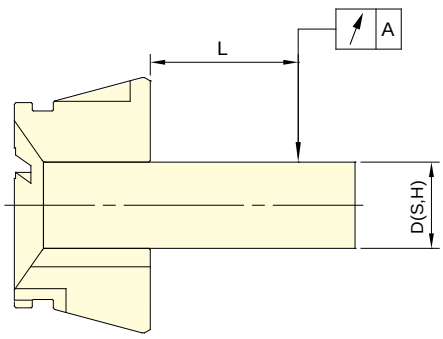
RG-RT



RG-R

技術規格 SPECIFICATIONS

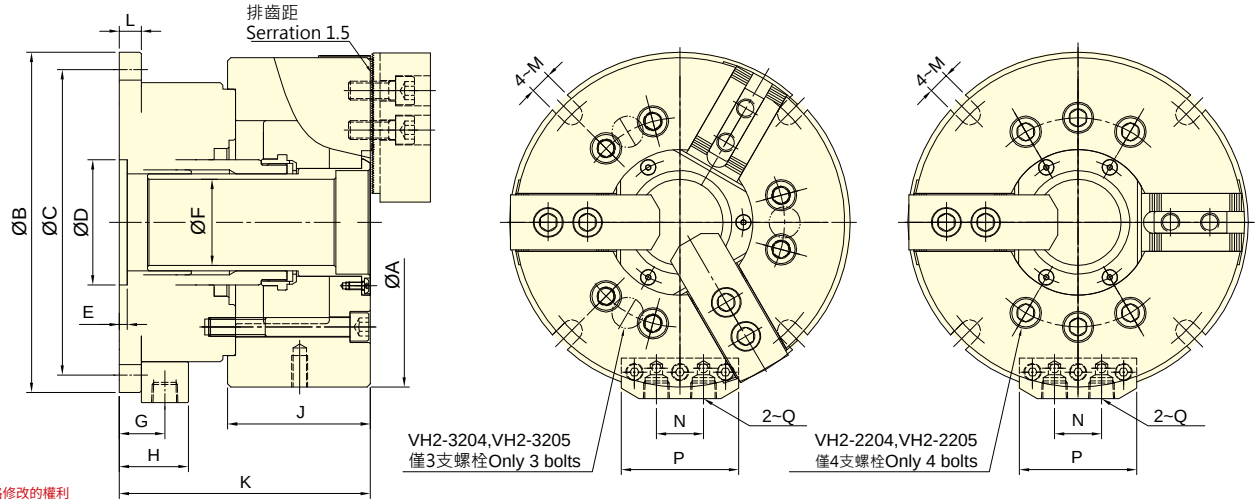
型號 Model	最大夾持能力 Max. Chucking Capacity 圓棒 Round mm	d	D	L	適合筒夾夾頭 Matching Collect Chuck
RG-42R	4~42	54	79.3	42	CB-42, CBE-42
RG-42RT	11~42	54	79.3	42	CB-42, CBE-42
RG-52R	4~52	66	79.3	46	CB-52, CBD-52, CBE-52, SCB-52
RG-52RT	11~52	66	79.3	46	CB-52, CBD-52, CBE-52, SCB-52
RG-65R	4~65	80	99.5	53	CB-65, CBD-65, CBE-65, SCB-65
RG-65RT	11~65	80	99.5	53	CB-65, CBD-65, CBE-65, SCB-65
RG-80	5~80	95	114.5	53	CB-80, CMD-80, CME-80



測棒 D(S,H) Test Bar D(S,H)	L mm	A DIN Class1	A DIN 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.

- 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.



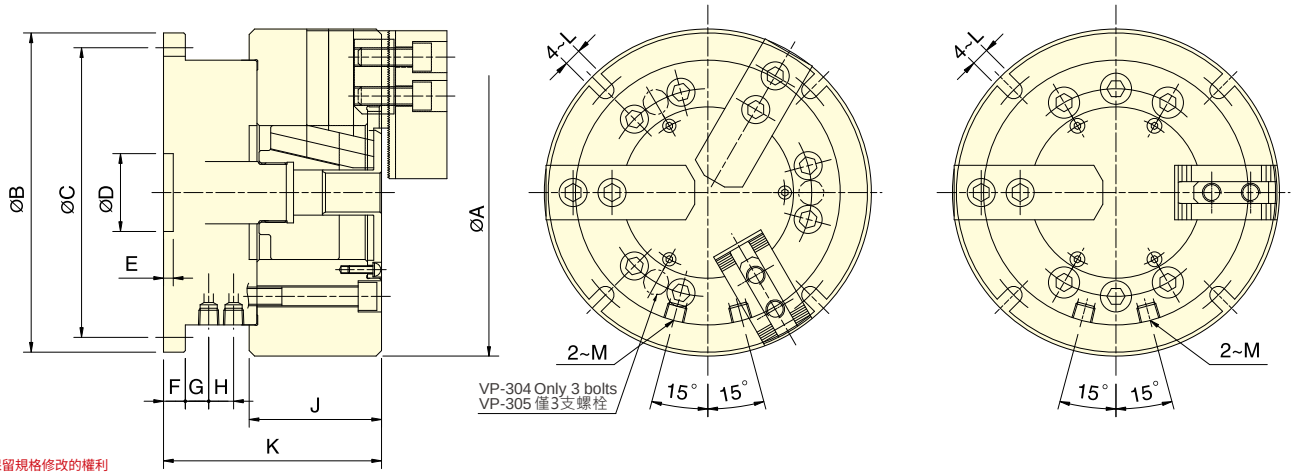
技術規格 SPECIFICATIONS

型號	活塞面積Eff. Piston area		爪行程(直徑)	最大使用壓力	重量
Model	押側Extend	拉側Retract	Jaw stroke(Dia.)	Max. pressure	Weight
	cm^2	cm^2	mm	MPa(kgf/cm^2)	kg
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.



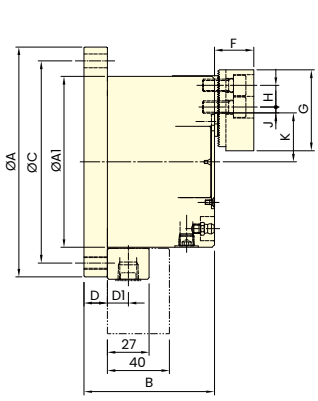
技術規格 SPECIFICATIONS

型號	活塞面積Eff. Piston area		爪行程(直徑)	最大使用壓力	重量
Model	押側Extend	拉側Retract	Jaw stroke(Dia.)	Max. pressure	Weight
	cm^2	cm^2	mm	MPa(kgf/cm^2)	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

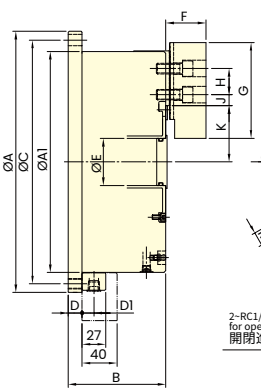
外型尺寸 DIMENSIONS

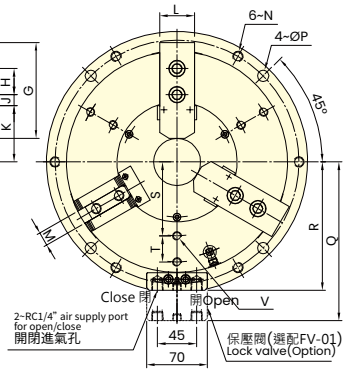
Model	A	B	C	D(H8)	E	F	G	H	J	K	L	M
VP-204	110	146	130	30	4.5	12	18	2	52	92	9	RC1/4
VP-304	110	146	130	30	4.5	12	18	2	52	92	9	RC1/4
VP-205	135	146	130	30	4.5	12	18	2	55	95	9	RC1/4
VP-305	135	146	130	30	4.5	12	18	2	55	95	9	RC1/4
VP-206	165	178	160	40	5	12	14.5	12.5	74	125	11	RC1/4
VP-306	165	178	160	40	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

- 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，亦可選配保壓閥，支援氣壓驅動。
- 小通孔設計，適合加工較長棒材。
- 安裝簡便，接上配管即可開始作業。
- 輕薄設計，可搭配標準生爪或硬爪使用。
- 可結合立置夾頭座板進行多樣化加工應用。
- 適用於旋轉加工，可安裝於車銑複合加工機。
- Stationary Chucks – Non-Thru-Hole and Thru-Hole Types.
- Available in two jaw configurations: 2-jaw and 3-jaw.
- Equipped with a built-in hydraulic cylinder; compatible with lock valves and can also be operated using air pressure.
- Features a small thru-hole, making it ideal for machining long bar workpieces.
- Side and bottom air/hydraulic inlets available; either can be used for operation.
- Slim and compact design. Compatible with standard soft jaws or hard jaws.
- Suitable for rotary machining and can be installed on mill-turn machines.
- Can be integrated with multi-plate setups for enhanced versatility.

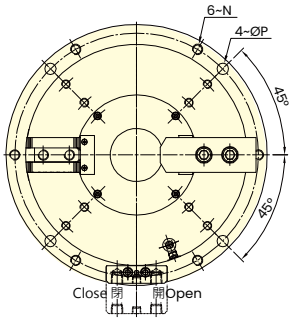


SP-304

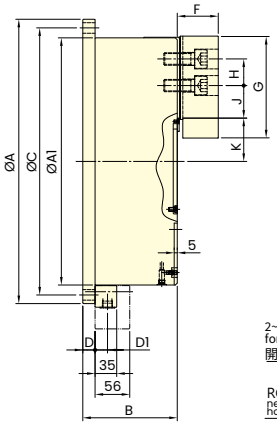


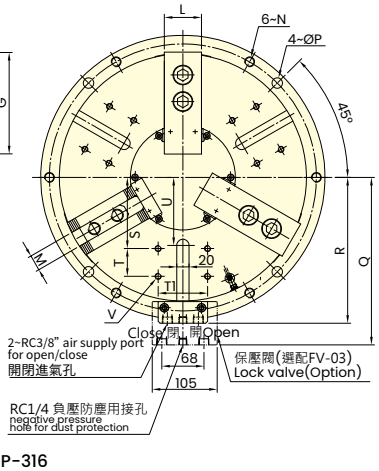


SP-306~SP-312

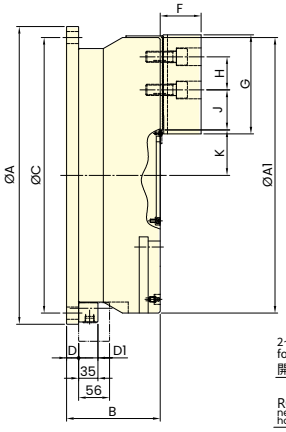


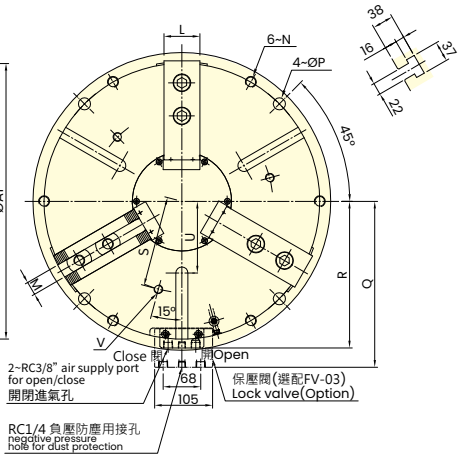
SP-206,SP-208,SP-210





SP-316





SP-320/SP-324

技術規格 SPECIFICATIONS

型號	爪行程(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/cm²	
Model	Jaw stroke (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/cm²)	MPa(kgf/cm²)	kgf/cm²	lit (at 6.0 kgf/cm²)	kg
SP-304	5.1	110	10	11.0(1120)	20.0(2040)	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 (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/cm²	
Model	Jaw stroke (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/cm²)	MPa(kgf/cm²)	kgf/cm²	lit (at 6.0 kgf/cm²)	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

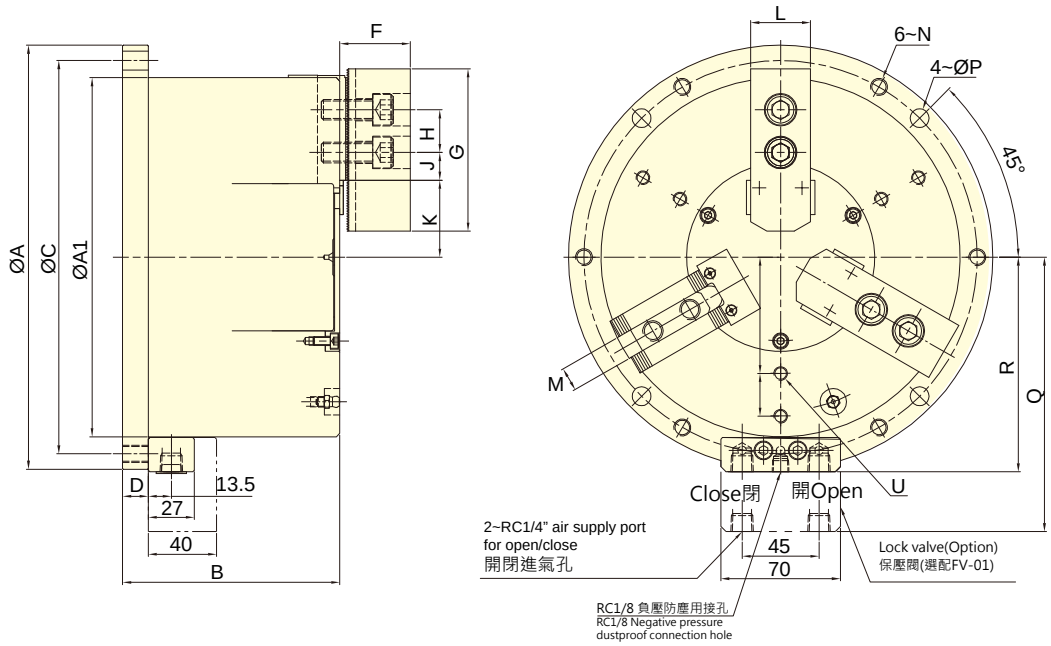
外型尺寸 DIMENSIONS

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	16.25	8.75
SP-308	248	210	108	230	15	13.5	32	41	95	25	16.25	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	53	49.6	35	14	M10x1.5	11	160.5	125.5	68	25	-	-	6~M8x1.25
SP-308	53	49.6	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	64	25	M20x2.5	22	301	266	165	-	-	130	3~M16x2.0
SP-324	129.5	121.5	64	25	M20x2.5	22	351	316	200	-	-	180	3~M16x2.0

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

- 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。
- 單一潤滑油孔，集中潤滑。
- Wedge-hook type solid power chuck with long jaw stroke.
- Equipped with a built-in hydraulic cylinder. When using air pressure as the power source, an optional pressure-holding valve can be installed.
- Easy installation — simply connect the piping and start machining.
- Thin and lightweight design, compatible with standard soft jaws or standard hard jaws.
- Features a single lubrication port for centralized lubrication.



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)	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/cm²	
Model	Jaw stroke (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/cm²)	MPa(kgf/cm²)	kgf/cm²	lit (at 6.0 kgf/cm²)	kg
SM-306	13.1	168	14	18.0(1830)	32.2(3280)	0.7(7)	1.2(12)	2	1.5	18.7
SM-308	16	210	18	26.2(2670)	45.0(4590)	0.7(7)	1.2(12)	2	2.7	32.5
SM-310	19.6	254	20	37.0(3772)	63.0(6422)	0.7(7)	1.2(12)	2	4.6	53.6

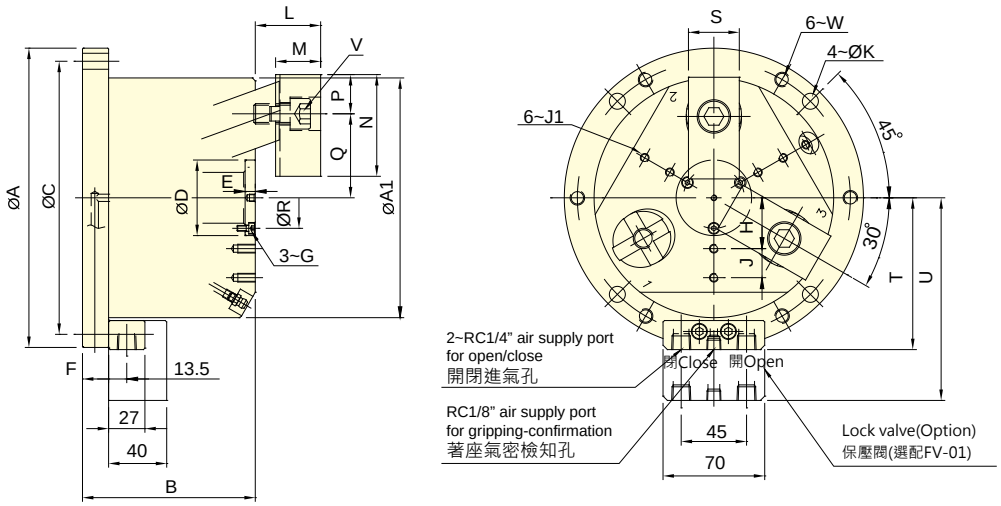
外型尺寸 DIMENSIONS

Model	A(h7)	A1	B	C	D	F	G	H	J max.	J min.
SM-306	206	168	110	188	15	40	73	20	16.75	4.75
SM-308	248	210	127	230	15	41	95	25	23.75	8.75
SM-310	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
SM-306	39	32.45	31	12	M10x1.5	11	139.5	104.5	55	18
SM-308	45	37	35	14	M10x1.5	11	160.5	125.5	68	25
SM-310	50	40.2	40	16	M12x1.75	13	182.5	147.5	85	30

- 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 durableness, 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.



技術規格 SPECIFICATIONS

型號	爪行程 (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/cm²	
Model	Jaw stroke (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/cm²)	MPa(kgf/cm²)	kgf/cm²	lit (at 6.0 kgf/cm²)	kg
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

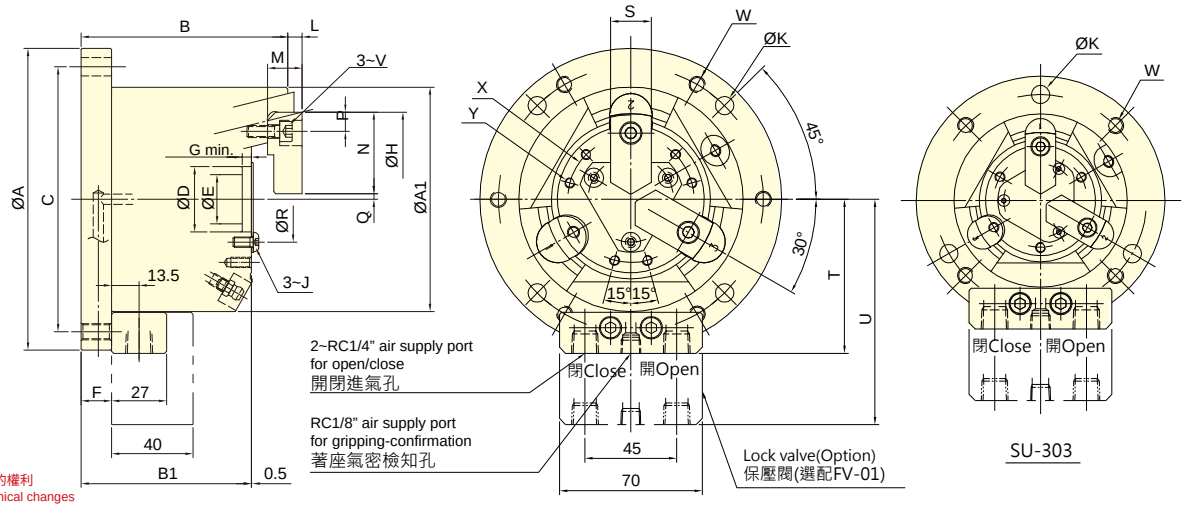
Model	A(h7)	A1	B	C	D(H7/h7)	E	F	G	H	J	J1	K	L max.	L min.
SD-304	148	110	93.5	130	35	2	15	M3	22.5	10	M5x0.8	9	30	23
SD-306	206	165	116	188	52	7	18	M4	35	20	M6x1	11	45	35
SD-308	248	210	122	230	65	10	18	M5	45	25	M8x1.2	11	56	46
SD-310	300	254	151	280	75	12	20	M6	55	30	M8x1.2	13	65	50

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

立置式爪背托後拉夾頭
STATIONARY PULL LOCK CHUCK

- 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 durableness, 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 (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/cm²	
Model	Jaw stroke (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/cm²)	MPa(kgf/cm²)	kgf/cm²	lit (at 6.0 kgf/cm²)	kg
SU-303	2	42	4	5.2(530)	12.8(1305)	0.6(6)	1.3(13)	2	0.16	5.7
SU-304	3	60	5	6.7 (683)	16.0 (1632)	0.6 (6)	1.3 (13)	2	0.26	7.4
SU-306	5	105	31	18.5 (1886)	40.0 (4079)	0.6 (6)	1.3 (13)	2	0.58	18
SU-308	5	132	32	37.0 (3773)	80.0 (8158)	0.6 (6)	1.3 (13)	2	1.02	31.5
SU-310	5	163	44	46.2(4710)	100.0(10100)	0.6(6)	1.3(13)	2	2.11	53

外型尺寸 DIMENSIONS

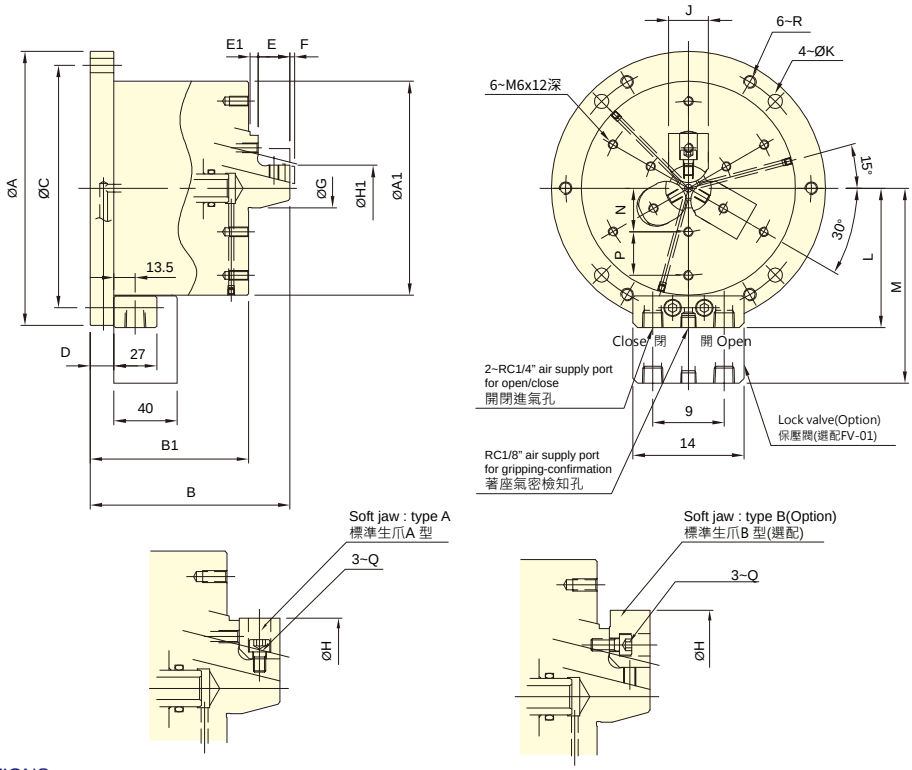
Model	A(h7)	A1	B	B1	C	D(H6)	E	F	G	H(H6)	J	K	L max.	L min.
SU-303	122	85	80.5	68	104	28	22	12	3.5	66	M3	3~9	5	1
SU-304	148	110	101.5	83.5	130	32	24	15	4.5	84	M5	4~9	7	1
SU-306	206	168	136.5	104	188	35	25	18	6	129	M5	4~11	15	5
SU-308	248	210	152	115	230	55	45	18	7	156	M6	4~11	17	7
SU-310	300	254	181	131	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
SU-303	12	30	7	3.5	2.5	36	15	63	98	M5	4~M8x1.25	46	3~M5x10
SU-304	17	40	9.5	2.75	1.25	42	20	75.5	110.5	M6	6~M8x1.25	62	6~M5x10
SU-306	30	50	17	15.75	13.25	49	30	104.5	139.5	M10	6~M10x1.5	72	6~M6x12
SU-308	34	63	20.5	16.25	13.75	71	35	125.5	160.5	M12	6~M10x1.5	95	6~M6x12
SU-310	39	74	23	20.75	18.25	85	40	147.5	182.5	M14	6~M12x1.75	115	6~M6x12

立置式內張後拉夾頭
STATIONARY EXPANSIBLE PULL BACK CHUCK

- 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.



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)	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/cm²	
Model	Jaw stroke (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/cm²)	MPa(kgf/cm²)	kgf/cm²	lit (at 6.0 kgf/cm²)	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

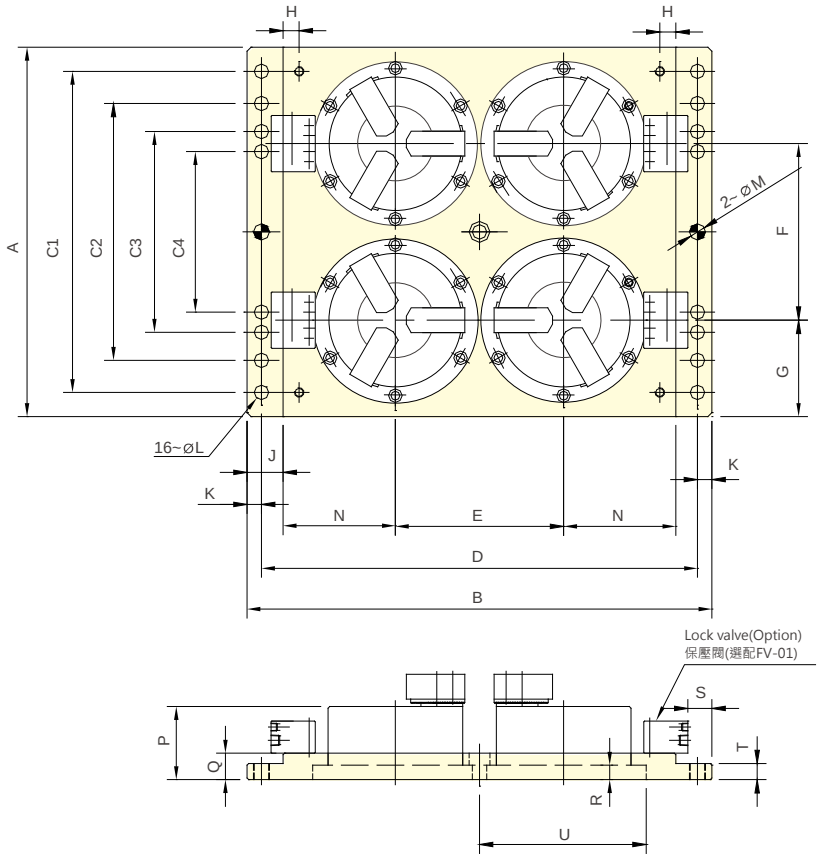
外型尺寸 DIMENSIONS

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

MP4 立置夾頭座板
STATIONARY CHUCK BASE PLATE

- 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
MP4-06206	460	580	400	320	250	200	544	210	220	120

Model	H	J	K	L	M	N	P	Q	R	S	T	U
MP4-06206	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.

VH-201 手動切換閥
HAND OPERATED AIR VALVE

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

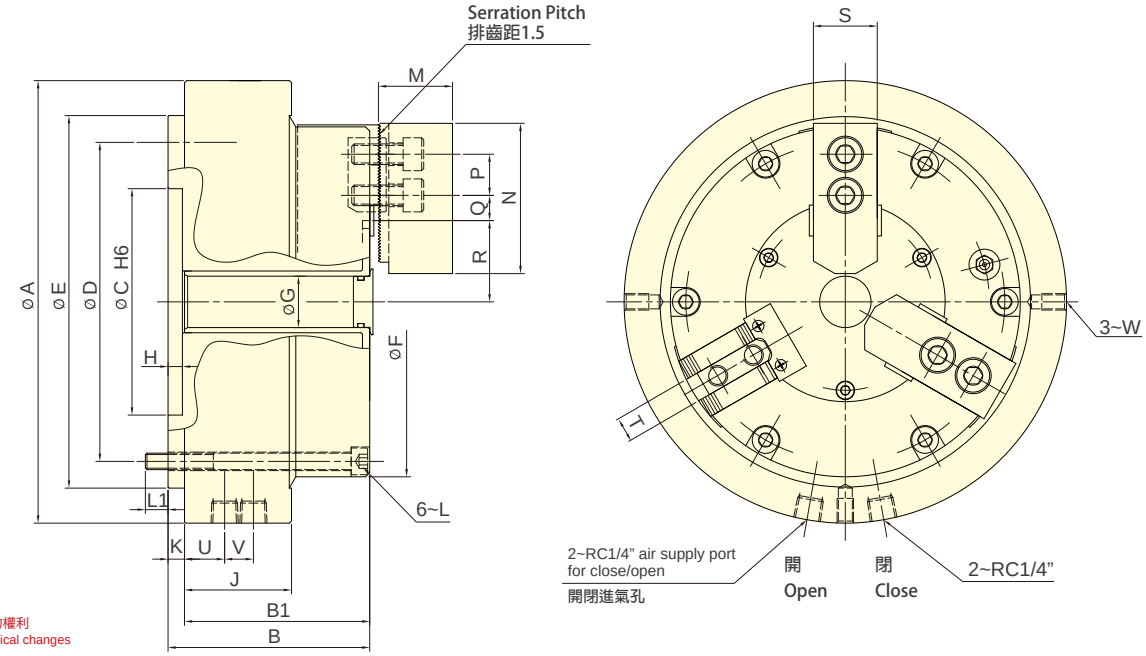
最大容許壓力	操作角度	持續口徑
Max. pressure MPa(kgf/cm²)	Operating angle	Port size
1.0 (10)	90 °	Rc1/4

轉盤用氣壓三爪夾頭
PNEUMATIC ROTARY CHUCK

- 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 distubritor ring and chuck body, the rotating torque of rotary table must be highr than the requirement shown in the table.



技術規格 SPECIFICATIONS

型號	爪行程 (直徑)	夾持直徑 Chucking Dia.		最大夾持力 氣壓(使用壓力6.0 kgf/cm²)	最大使用壓力	最高轉速	旋轉扭矩	空氣消耗量 (使用壓力6.0 kgf/cm²)	重量
Model	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. clamping force Pneumatic(at 6.0kgf/cm²)	Max. pressure	Max. speed	Max Rotation reslstance torque	Air consumption (at 6.0 kgf/cm²)	Weight
	mm	mm	mm	kN (kgf)	(kgf/cm²)	(r.p.m.)	Nm	lit (kgf/cm²)	kg
RAP-306	5.5	170	25	21.0 (2141.4)	7	72	40	3.1	16.2
RAP-308	6.8	215	37	34.2 (3487.4)	7	60	60	3.1	30.6
RAP-310	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
RAP-306	215	98	90	110	155	181	170	25	7	52	8
RAP-308	260	113	104	110	200	226	215	32	8	52	9
RAP-310	300	117	52	140	235	261	254	54	8	52	10

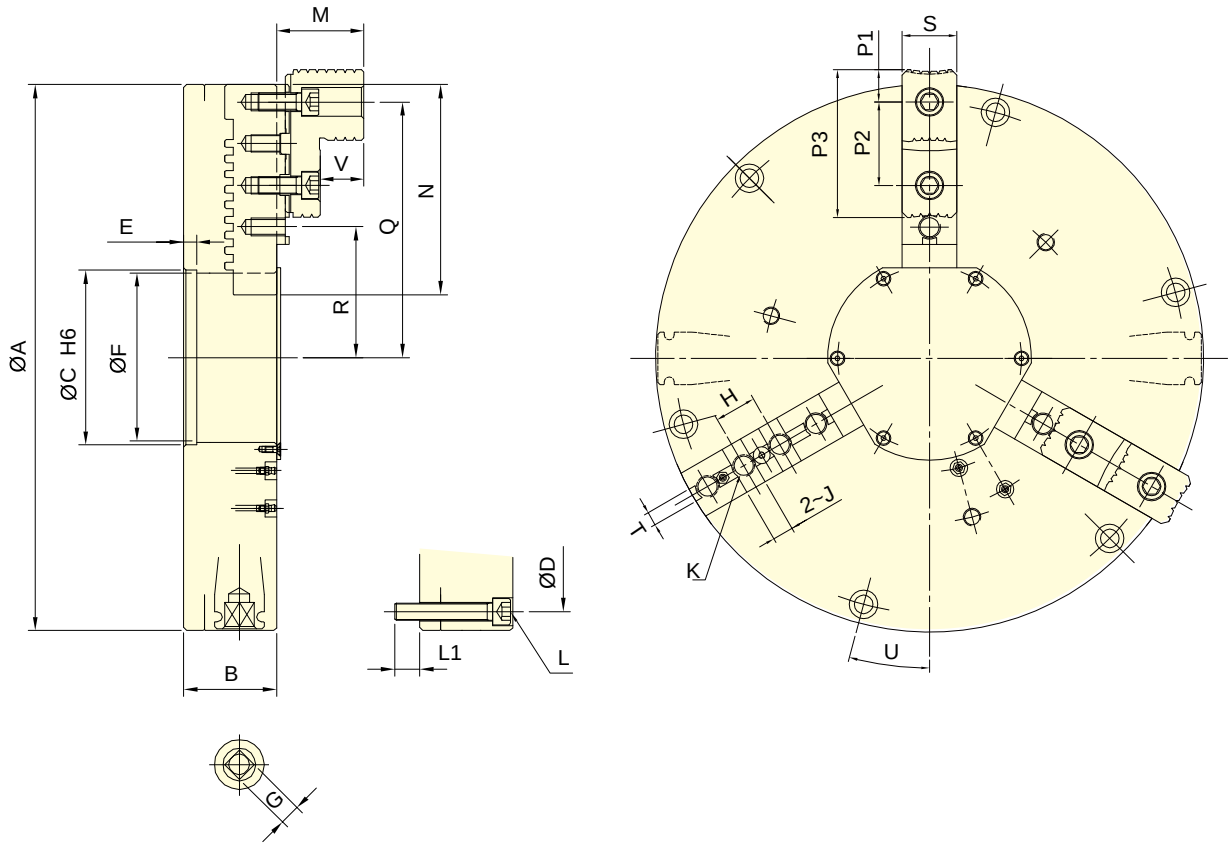
Model	L	L1	M	N	P	Q max.	Q min.	R max.	R min.	S	T	U	V	W
RAP-306	6~M8	11	36	73	20	10.75	6.25	47	44.25	31	12	19.5	14	3~M8
RAP-308	6~M8	16	37	95	25	13.25	8.75	57	53.6	35	14	19.5	14	3~M8
RAP-310	6~M8	14	42	110	30	23.25	12.75	64.5	61	40	16	19.5	14	3~M8

薄型手動求心三爪夾頭
SELF-CENTERING 3-JAW MANUAL CHUCK

- 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.



技術規格 SPECIFICATIONS

型號	爪行程(直徑)	夾持 直徑 Chucking Dia.		最大容許扭矩	最大夾持力	最高迴轉數	重量
Model	Jaw stroke (Dia.)	最大 Max.	最小 Min.	Max. allowable torque	Max. clamping force	Max. speed	Weight
	mm	mm	mm	N · m (kgf · m)	kN (kgf)	min-1 (r.p.m.)	kg
3MF-16	60	350	95	175 (17.8)	59 (6000)	1450	66.9
3MF-20	80	450	135	170 (17.3)	71.2 (7300)	1150	121
3MF-24	96	520	220	170 (17.3)	71.2 (7300)	950	165

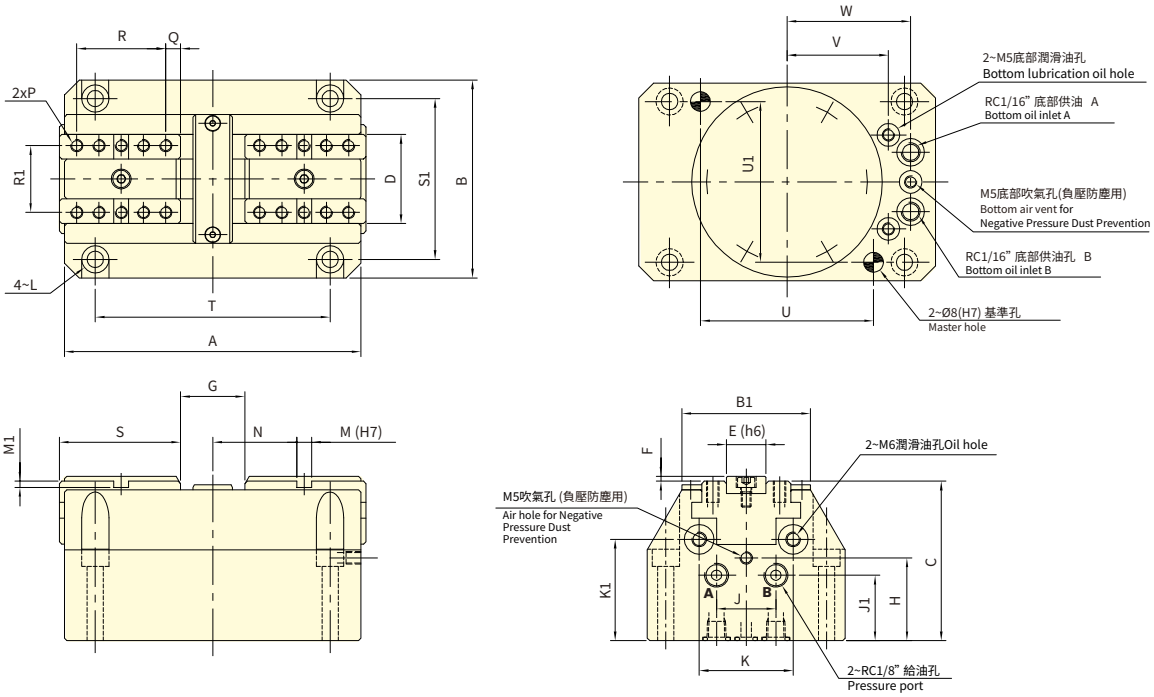
外型尺寸 DIMENSIONS

Model	A	B	C (H6)	D	E	F	G	H	J (H7)	K	L	L1	M
3MF-16	400	80	140	375	10	135	□ 14	27	19.03	4~M12	6~M12	23	60
3MF-20	500	85	170	465	12	160	□ 19	38.1	19.03	4~M16	6~M16	23	80
3MF-24	600	84	220	560	10	210	□ 19	38.1	19.03	4~M16	6~M16	23	79

Model	N	P1	P2	P3	Q max.	Q min.	R max.	R min.	S	T (h8)	U	V
3MF-16	148.5	27.16	54	112.5	184.5	164	103	62	40	12.7	15 °	28
3MF-20	192.5	29.5	76.2	135	254	214	139.7	99.7	50	12.7	15 °	40
3MF-24	215	29.5	76.2	135	298	250	183.7	135.7	50	12.7	15 °	40

- 氣壓驅動快速開合，有效提升加工效率。
- 外型薄、短，提升機台作業空間利用率 。
- 側面與底部皆設油路輸入口，可依需求彈性連接 。
- 適用於銑床與加工中心機 。
- 亦可使用油壓，夾持開合速度會較為緩慢。

- Pneumatic actuation enables rapid opening and closing for improved machining efficiency.
- Slim and compact design maximizes machine workspace utilization.
- Oil ports are available on both side and bottom for flexible connection options.
- Suitable for milling machines and machining centers.
- Hydraulic actuation is also available; however, chuck opening and closing speed will be relatively slower.
- Hydraulic actuation is also supported; however, clamping and unclamping speed will be comparatively slower.



技術規格 SPECIFICATIONS

型號	爪行程(直徑)	最大夾持直徑	最大夾持力 Max. clamping force		最大使用壓力 Max. pressure		夾爪最大高度	重量
Model	Jaw stroke (Dia.)	Max.Chucking (Dia.)	氣壓 Pneumatic	油壓 Hydraulic	氣壓 Pneumatic	油壓 Hydraulic	Max. Jaw Height	Weight
	mm	mm	kN (kgf)	kN (kgf)	MPa(kgf/cm²)	MPa(kgf/cm²)	mm	kg
VRA-808	8.8	100	2.2(224)	8.1(830)	0.9(9)	2.1(21)	60	3.8
VRA-1012	12	120	4.4(450)	13.4(1370)	0.9(9)	2.1(21)	60	7
VRA-1214	14	160	15.0(1530)	31.1(3171)	0.9(9)	2.1(21)	60	12

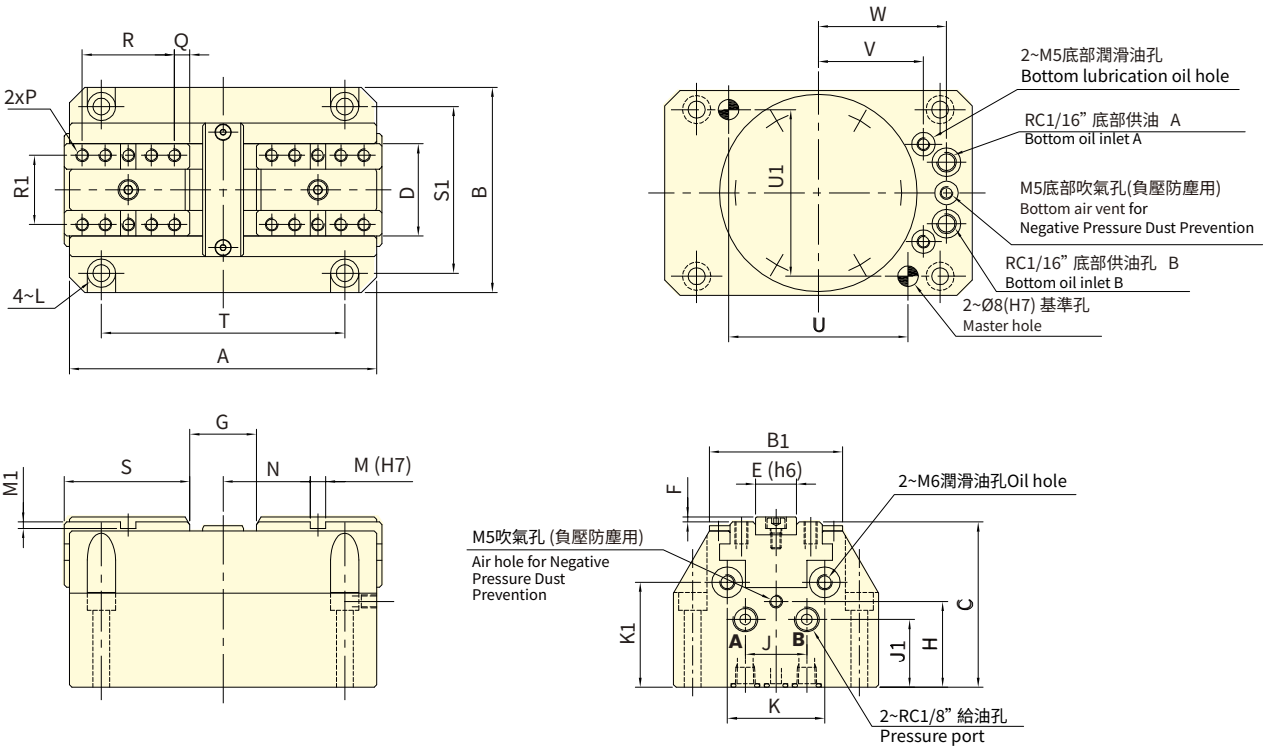
外型尺寸 DIMENSIONS

Model	A	B	B1	C	D	E(h6)	F	G max	G min	H	J	J1	K	K1	L
VRA-808	120	80	52	64.5	36	16	2	26	17.2	33.5	24	26.5	38	41	M6
VRA-1012	150	100	64	76	45	20	2	32	20	39	30	32	45	49	M8
VRA-1214	188	125	82	82.5	60	24	2.5	36	22	41.5	36	34.5	58	51	M8

Model	M(H7)	M1	N max	N min	P	Q	R	R1	S	T	T1	U	U1	V	W
VRA-808	6	2.5	34	29.6	10~M5x0.8	6	9x4	27	49	95	65	70	65	41	50
VRA-1012	8	2.5	44	38	10~M6x1	8	12x4	32	63	120	80	90	80	54	63
VRA-1214	8	3	60	53	12~M8x1.25	10	12x5	43	80	158	100	128	100	69	78

- 僅適用於油壓，最大夾持力不變，提高開合速度。
- 外型薄、短，提升機台作業空間利用率 。
- 側面與底部皆設油路輸入口，可依需求彈性連接 。
- 適用於銑床與加工中心機。

- Hydraulic operation only. Opening and closing speed is increased while maintaining maximum gripping force.
- Slim and compact design maximizes machine workspace utilization.
- Oil ports are available on both side and bottom for flexible connection options.
- Suitable for milling machines and machining centers.



技術規格 SPECIFICATIONS

型號	爪行程(直徑)	最大夾持直徑	最大夾持力 Max. clamping force	最大使用壓力 Max. pressure	夾爪最大高度	重量
Model	Jaw stroke (Dia.)	Max.Chucking (Dia.)	油壓 Hydraulic	油壓 Hydraulic	Max. Jaw Height	Weight
	mm	mm	kN (kgf)	MPa(kgf/cm²)	mm	kg
VRH-808	8.8	100	7.8(795)	5.0(50)	60	3.9
VRH-1012	12	120	15.6(1590)	5.0(50)	60	7.2
VRH-1214	14	160	31.1(3171)	6.0(60)	60	12.1

外型尺寸 DIMENSIONS

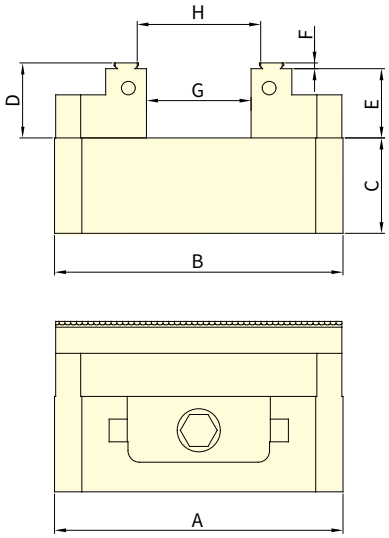
Model	A	B	B1	C	D	E(h6)	F	G max	G min	H	J	J1	K	K1	L
VRH-808	120	80	52	64.5	36	16	2	26	17.2	33.5	24	26.5	38	41	M6
VRH-1012	150	100	64	76	45	20	2	32	20	39	30	32	45	49	M8
VRH-1214	188	125	82	82.5	60	24	2.5	36	22	41.5	36	34.5	58	51	M8

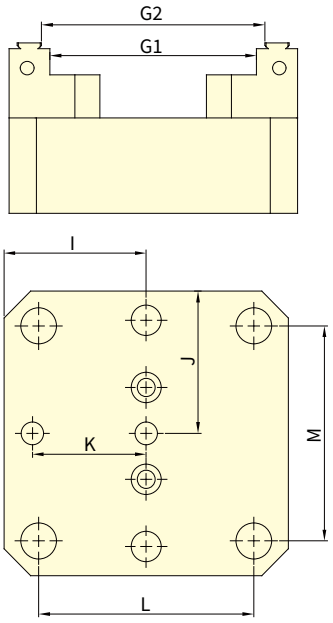
Model	M (H7)	M1	N max	N min	P	Q	R	R1	S	T	T1	U	U1	V	W
VRH-808	6	2.5	34	29.6	10~M5x0.8	6	9x4	27	49	95	65	70	65	41	50
VRH-1012	8	2.5	44	38	10~M6x1	8	12x4	32	63	120	80	90	80	54	63
VRH-1214	8	3	60	53	12~M8x1.25	10	12x5	43	80	158	100	128	100	69	78

五軸求心虎鉗
5-AXIS SELF CENTERING VISE

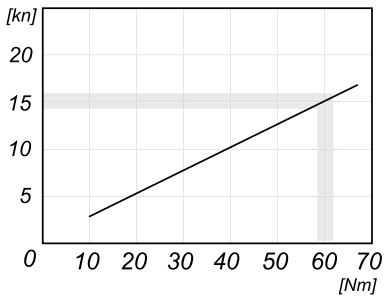
- 自動定心設計，適用於 4 軸與 5 軸 CNC 旋轉工作台，可搭配臥式或立式加工機使用。
- 高重複定位精度，中心重複定位精度達 ±0.01 mm，確保工件精準夾持與穩定加工。
- 高剛性耐用結構，本體採高品質合金鋼製成，滑動面經高頻熱處理（HRC 45 以上），具優異耐磨性與穩定性。
- 全鋼熱處理鉗口，鉗口材質為全鋼並熱處理至 HRC 55 以上，設計可正反兩用，並可互換，大幅提升使用壽命。
- 適用多種加工環境，結構精密、操作簡便，適合高效率、高精度的加工應用。

- Self-centering design ideal for 4-axis and 5-axis CNC rotary tables; compatible with horizontal and vertical machining.
- Centering repeatability of±0.01 mm ensures precise and stable workpiece positioning.
- Vise body made of high-grade alloy steel with hardened sliding surfaces (HRC 45+) for excellent wear resistance and rigidity.
- Jaws are made of fully hardened steel (HRC 55+), reversible and interchangeable for extended service life.
- Precision-built and easy to operate, ideal for demanding machining environments requiring high efficiency and accuracy.





夾持曲線圖(Clamping curve)



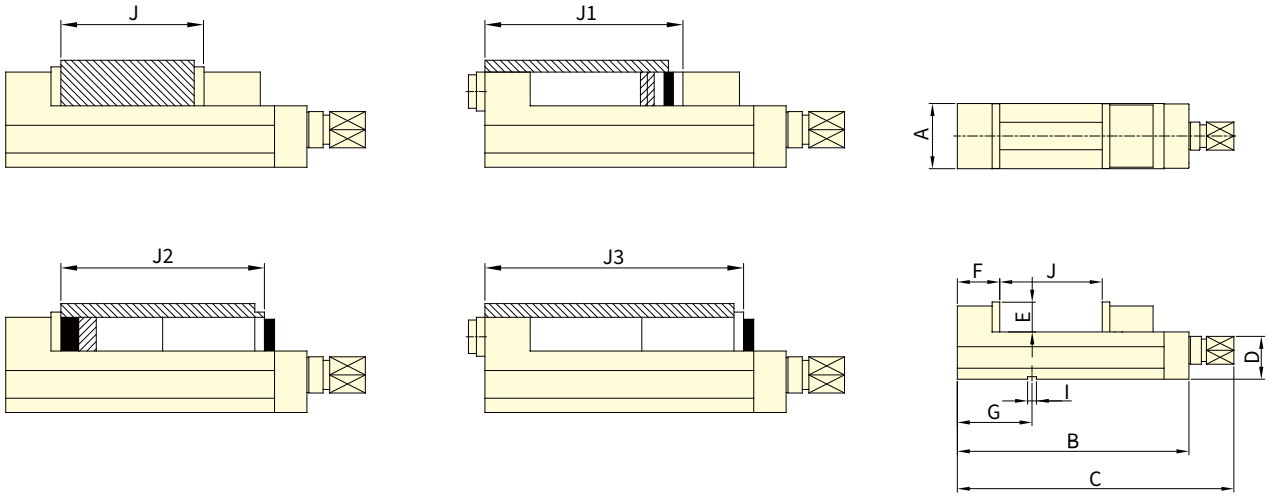
外型尺寸 DIMENSIONS

Model	A	B	C	D	E	F	G	G1	G2	H	I	J	K	L	M	重量 (kg)
MVSC-764	76	102	35	21	18.5	2.5	45	78	82	49	51	38	30	52	52	2.02
MVSC-1275	127	127	42	33	30	2.5	47	91	96	52	63.5	63.5	50.8	96	96	5.82
MVSC-1276	127	153	42	33	30	2.5	73	117	122	78	76.5	63.5	50.8	96	96	6.64
MVSC-1278	127	210	42	33	30	2.5	130	167	172	135	105.5	63.5	50.8	96	96	8.26
MVSC-12710	127	255	42	33	30	2.5	175	219	226	180	127.5	63.5	50.8	96	96	9.5
MVSC-15010	150	255	57	37	34	2.5	143	207	212	148	127.5	75	100	96	96	15.54

MC 精密油壓虎鉗
MC HYDRAULIC VISE

- 虎鉗床身與活動鉗口一體鑄造，一體鑄造結構提供卓越剛性與穩定性，適合高精度加工。
- 下壓式「半球段」機構，有效消除鉗口浮動與工件傾斜，特殊機構設計夾持時產生下壓力道，提升定位精度並延長鉗口壽命。
- 高強度球墨鑄鐵主體（FCD60，相當於 GGG60），主體採用抗拉強度 60 kgf/mm²（約 80,000 psi）之球墨鑄鐵，強固耐用，適用於重切削環境。
- 滑動面火焰硬化至 HRC 45°，提升耐磨性與使用壽命，強化滑動表面硬度，確保虎鉗長時間操作下仍保持精度穩定。

- One-piece casting of the vise bed and movable jaw offers outstanding rigidity and stability, ideal for precision machining.
- The down-thrust spherical segment mechanism applies downward clamping force to eliminate jaw lifting and workpiece tilting, enhancing positioning accuracy and jaw longevity.
- The body is made of high-tensile ductile iron FCD60 (equivalent to GGG60), offering durability and strength for heavy-duty machining.
- Slideways are flame-hardened to HRC 45° for excellent wear resistance, maintaining long-term accuracy during extended use.

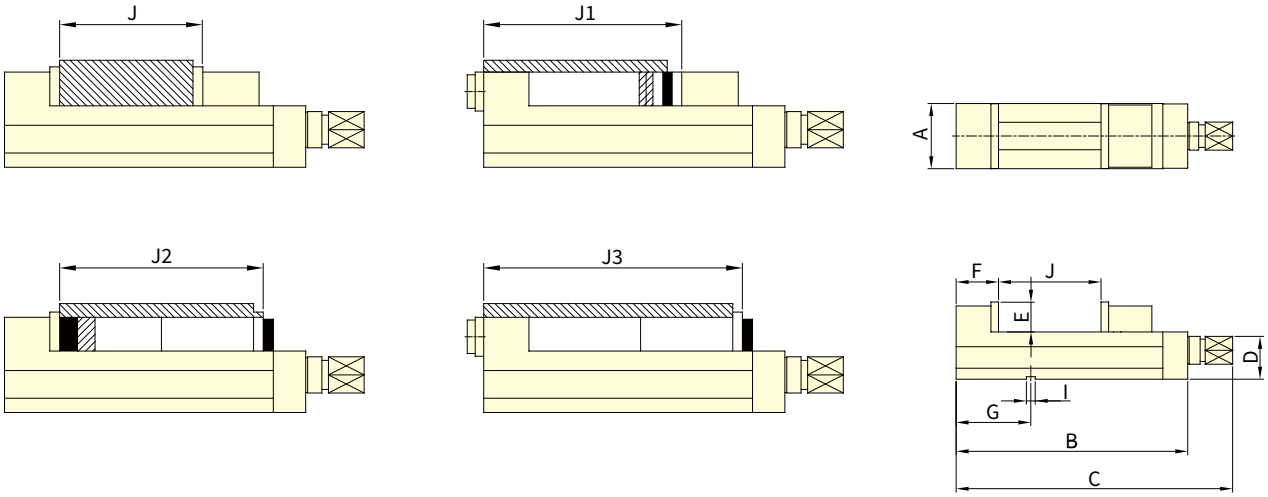


外型尺寸 DIMENSIONS

MODEL	A	B	C	D	E	F	G	I	鉗口張開度（最大） Jaw Opening(Max.)				夾持力 Clamping Force (kgf)	重量 Weight (kgs)
									J	J1	J2	J3		
MVRH-100	101	380	480	85	48	80	125	16	135	200	240	330	4000	26
MVRH-130	131	445	545	95	55	85	150	18	190	250	300	390	5000	40
MVRH-160	161	535	635	105	58	100	165	18	250	330	370	480	5500	61
MVRH-160L	161	585	685	105	58	100	165	18	300	380	420	530	5500	65
MVRH-200	201	610	710	110	63	108	190	18	300	370	430	550	6900	82

MC 精密倍力虎鉗
MC POWER VISE

- 虎鉗床身與活動鉗口一體鑄造，一體成型設計提供優異剛性，提升夾持穩定性與耐用性。
- 下壓式「半球段」機構，有效消除鉗口浮動與工件傾斜，特殊結構設計在夾持時產生下壓力道，有效提高加工精度與延長使用壽命。
- 高強度球墨鑄鐵主體（FCD60，相當於GGG60），虎鉗主體採用抗拉強度達 60 kgf/mm²（約 80,000 psi）的高剛性材料，適用於高負荷加工環境。
- 床身滑動面經火焰硬化處理至 HRC 45°，提升耐磨壽命，加強抗磨耗能力，適用長時間重複加工，維持穩定夾持性能。
- One-piece casting of the vise bed and movable jaw ensures excellent rigidity, enhancing clamping stability and durability.
- The down-thrust spherical segment mechanism generates downward force during clamping, preventing jaw lifting and workpiece tilting—improving machining accuracy and jaw life.
- Constructed from high-tensile ductile iron (FCD60 / equivalent to GGG60) with a tensile strength of 60 kgf/mm² (approx. 80,000 psi), suitable for demanding machining conditions.
- Flame-hardened slideways (HRC 45°) provide superior wear resistance, maintaining consistent clamping performance even under prolonged use.



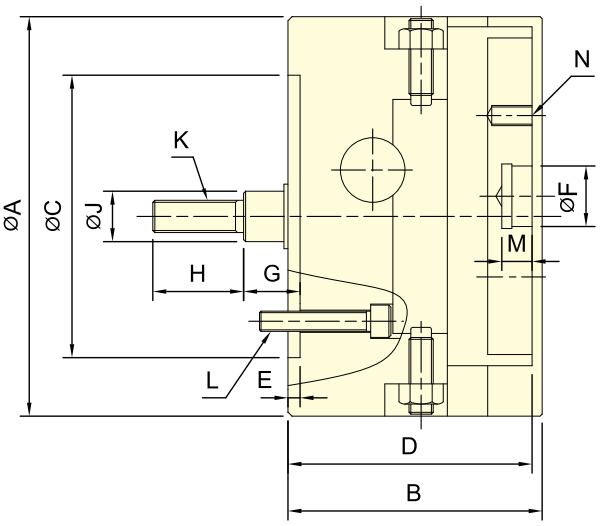
外型尺寸 DIMENSIONS

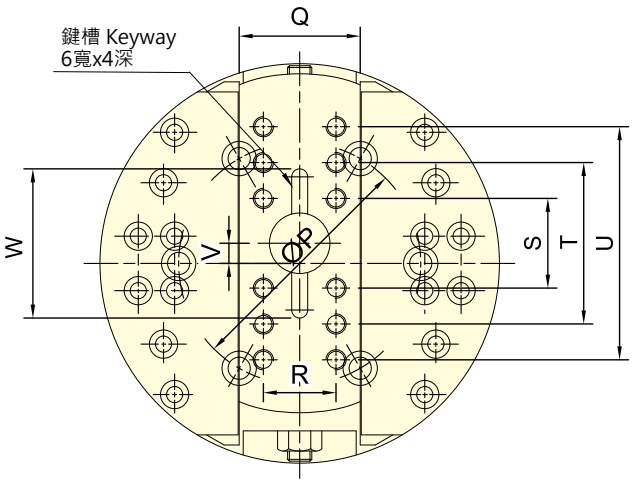
MODEL	A	B	C	D	E	F	G	I	鉗口張開度（最大） Jaw Opening(Max.)				夾持力 Clamping Force (kgf)	重量 Weight (kgs)
									J	J1	J2	J3		
MVRE-100	101	400	490	85	48	80	125	16	155	200	240	33	3000	27
MVRE-130	131	645	555	95	55	85	150	18	230	250	300	390	3500	41
MVRE-160	161	555	645	105	58	100	165	18	300	330	370	480	4000	62
MVRE-160L	161	615	705	105	58	100	165	18	350	380	420	530	4000	65
MVRE-200	201	630	720	110	63	108	190	18	340	370	430	550	4500	83

- 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, grounding and lubricated directly. With rigidity and durability.
- Stopper accurancy: ±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





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^{-1}(r.p.m.)	kN(kgf)	kg		MPa(kgf/cm^2)
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

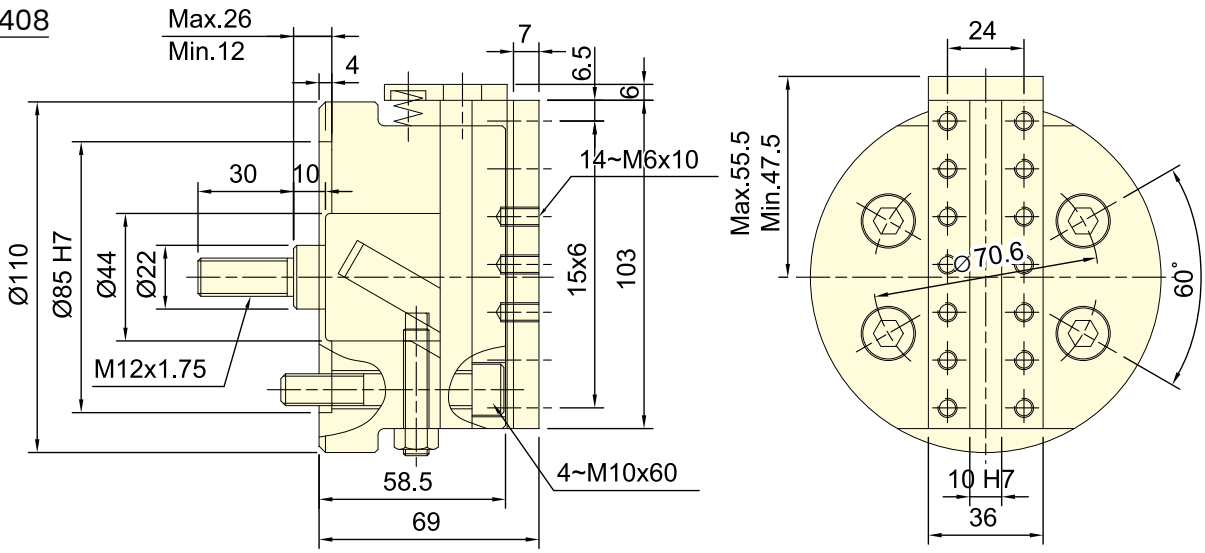
Model	L	M	N	P	Q	R	S	T	U	V	W
FA-615	3-M10x40	12	8-M8x16	82.6	50	32	32	68	-	±7.5	56
FA-830	6-M10x55	15	12-M10x20	120	60	36	40	80	120	±15	66
FA-1570	6-M20x90	15	8-M16x20	235	120	80	130	260	-	±17.5	-

- 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, grounding and lubricated directly. With rigidity and durability.
- Stopper accurancy: ±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



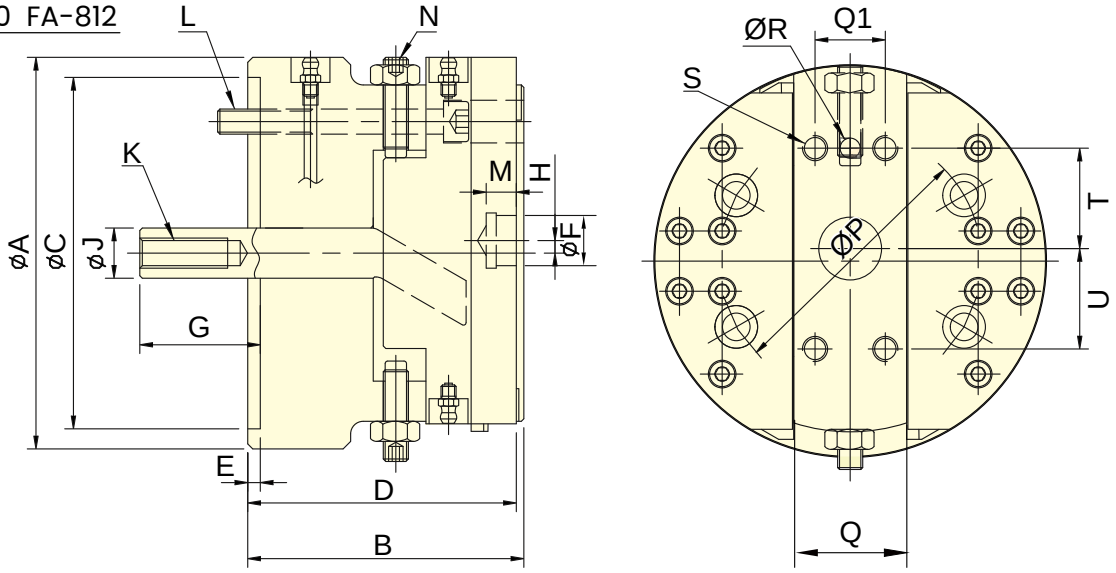
技術規格 SPECIFICATIONS

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^{-1}(r.p.m.)	kN(kgf)	kg		MPa(kgf/cm^2)
FA-408	14	8	1600	2.8 (280)	4.2	RS-6520N	1.0(10)

- 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, grounding and lubricated directly. With rigidity and durability.
- Stopper accurancy: ±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-610 FA-812



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^{-1}(r.p.m.)	kN(kgf)	kg		MPa(kgf/cm^2)
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)

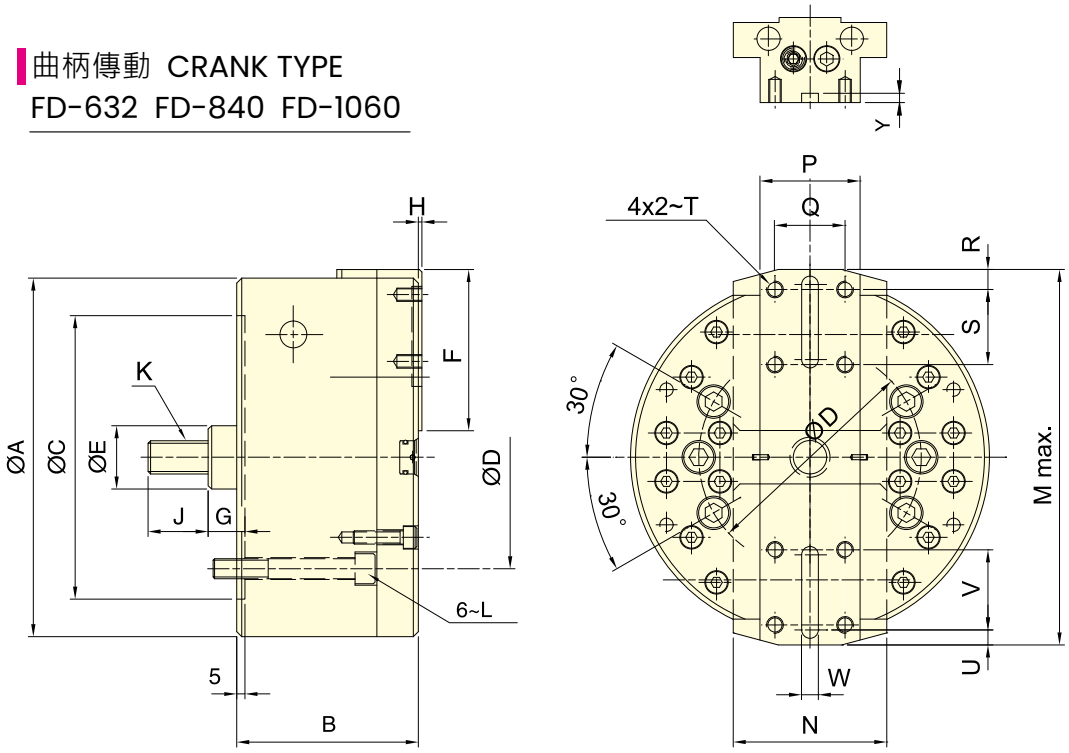
外型尺寸 DIMENSIONS

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

- 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：±0.03mm，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, grounding and lubricated directly. With rigidity and durability.
- Stopper accurancy: ±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.

曲柄傳動 CRANK TYPE
FD-632 FD-840 FD-1060



技術規格 SPECIFICATIONS

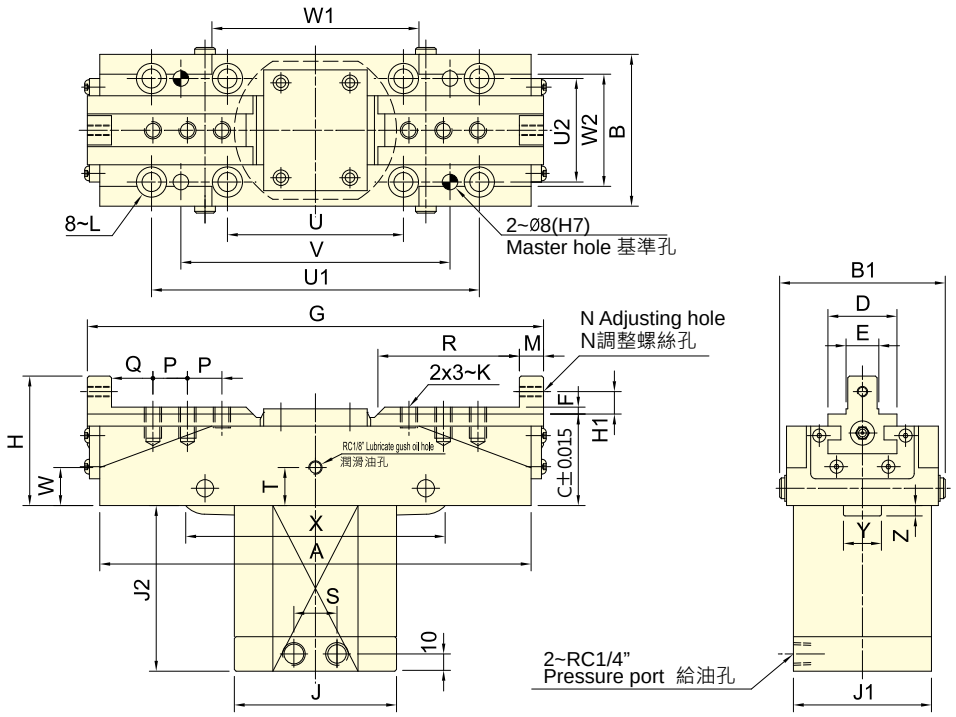
型號	楔心行程	滑座行程(直徑)	最高迴轉數	容許最大入力	重量	適用迴轉缸	最大使用壓力
Model	Plunger stroke	Slider stroke(Dia.)	Max. speed	Max. D.B. PULL	Weight	Matching cylinder	Max. pressure
	mm	mm	min^{-1}(r.p.m.)	kN(kgf)	kg		MPa(kgf/cm^2)
FD-632	20	32	3200	16.9 (1720)	13.6	RS-1030N	2.4(24)
FD-840	25	40	2500	20.6 (2100)	30.0	RS-1030N	3.0(30)
FD-1060	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
FD-632	168	93	140	104.8	32	76	31	11	2	36	M16x2.0
FD-840	215	109	170	133.4	38	96.5	32.5	7.5	2	36	M20x2.5
FD-1060	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
FD-632	6~M10x75	188	70	40	25	10	32	M8x15	10	32	6	4
FD-840	6~M12x85	238	92	60	42	12	45	M10x15	12	45	10	6
FD-1060	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.



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	押側 Extend	拉側 Retract	Jaw stroke(Dia.)	Clamping capacity	Max. clamping force	Max. pressure	Weight
	cm^2	cm^2	mm	mm	kN (kgf)	MPa(kgf/cm^2)	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

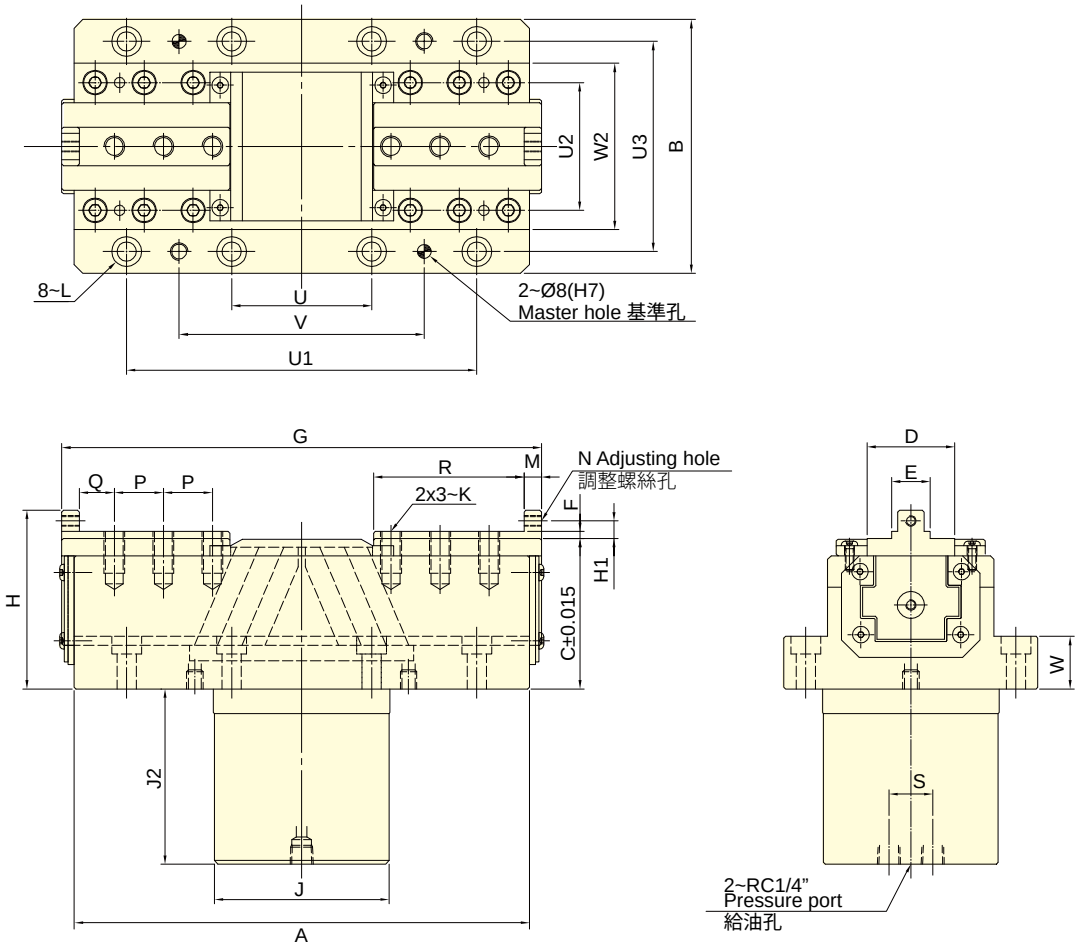
外型尺寸 DIMENSIONS

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

斜楔式同步夾具
WEDGE-DRIVEN SYNCHRONOUS CLAMP

- 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	押側 Extend	拉側 Retract	Jaw stroke(Dia.)	Clamping capacity	Max. clamping force	Max. pressure	Weight
	cm^2	cm^2	mm	mm	kN (kgf)	MPa(kgf/cm^2)	kg
CW-30	31.10	24.10	30	150	34.3(3500)	7.0(70)	32

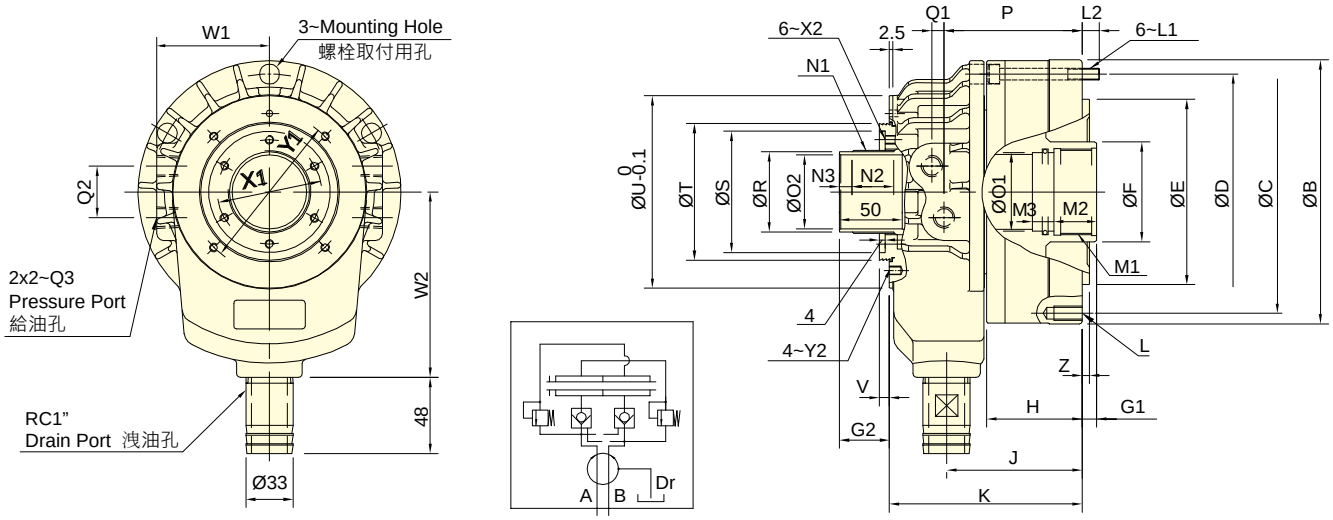
外型尺寸 DIMENSIONS

Model	A	B	C	D	E(h6)	F	Gmax	Gmin	H	H1	J	J2	K	L	M
CW-30	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
CW-30	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)



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	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight	Total oil leakage
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg	lit. / min.
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附件頁面。*Coolant Collector and Confirmation Device Please See Accessories pages.

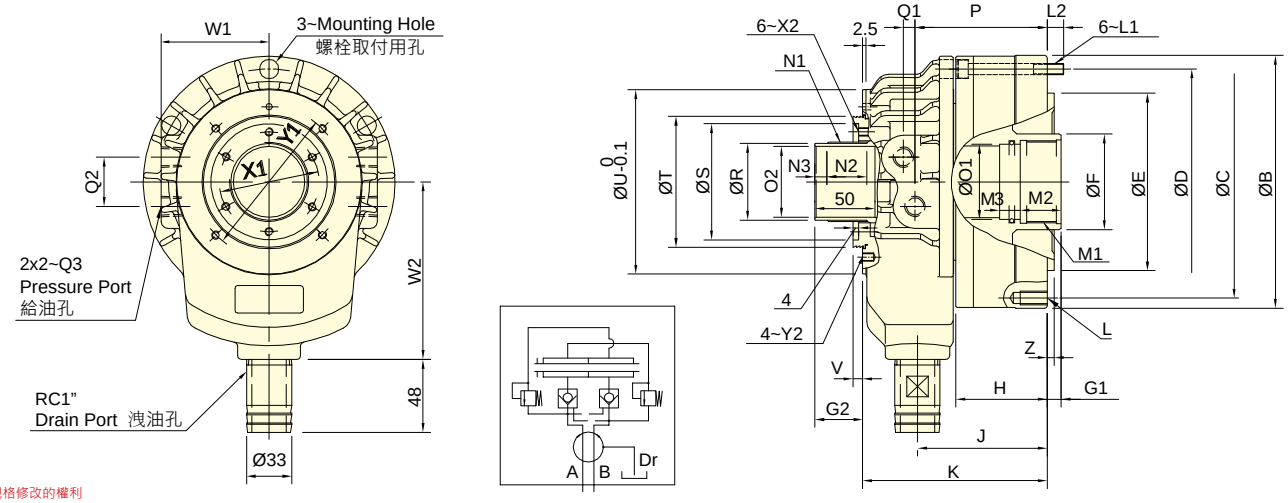
外型尺寸 DIMENSIONS

Model	A 內徑 I.D.	B	C	D	E h7	F	G1 max.	G1 min.	G2 max.	G2 min.	H	J	K	L	L1	L2	M1	M2	M3
TK-A528	105	141	125	125	110	45	12	0	38	26	49	77.5	123	6~M10x20	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 H8	O2 H8	P	Q1	Q2	Q3	R g7	S H7	T	U	V	W1	W2	X1	X2	Y1	Y2	Z
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)



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	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight	Total oil leakage
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg	lit. / min.
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

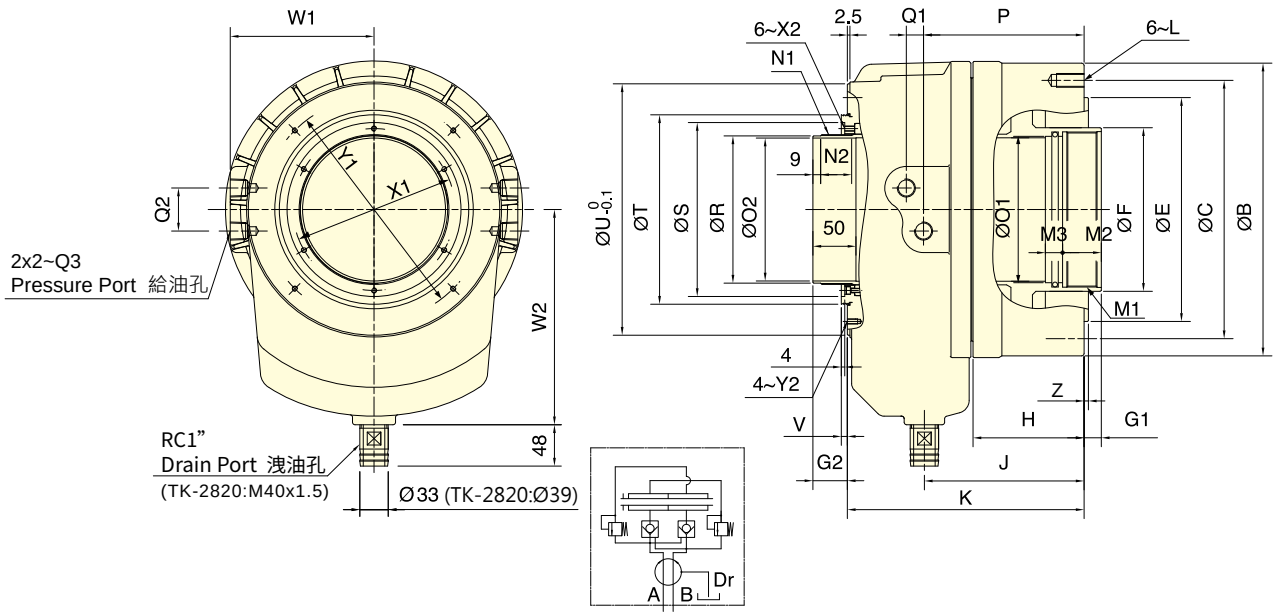
Model	A	B	C	D	E	F	G1		G2		H	J	K	L	L1	L2	M1	M2	M3	N1
	內徑 I.D.				h7		max.	min.	max.	min.										
TK-A1287	200	245	215	225	180	110	30	0	59	29	86	126	184	12~M12x24	M10x90	14.5	M95x2	35	15	M99x2
TK-A1291	200	245	215	225	180	110	30	0	59	29	86	126	184	12~M12x24	M10x90	14.5	M100x2	35	15	M99x2
TK-A1511	250	300	275	275	230	140	30	0	58	28	102	156	226	12~M16x36	M12x110	21	M120x2	45	15	M129x2
TK-A1512	250	300	275	275	230	140	30	0	58	28	102	156	226	12~M16x36	M12x110	21	M130x2	45	15	M129x2
TK-A1512-35	250	300	275	275	230	140	35	0	63	28	102	161	231	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附件頁面。*Coolant Collector and Confirmation Device Please See Accessories pages.

超短型中空迴轉油壓缸 (三)
SHORT TYPE ROTATING HYDRAULIC CYLINDER WITH THRU-HOLE AND SAFETY DEVICE

- 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)



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	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight	Total oil leakage
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	$kg·m^2$	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

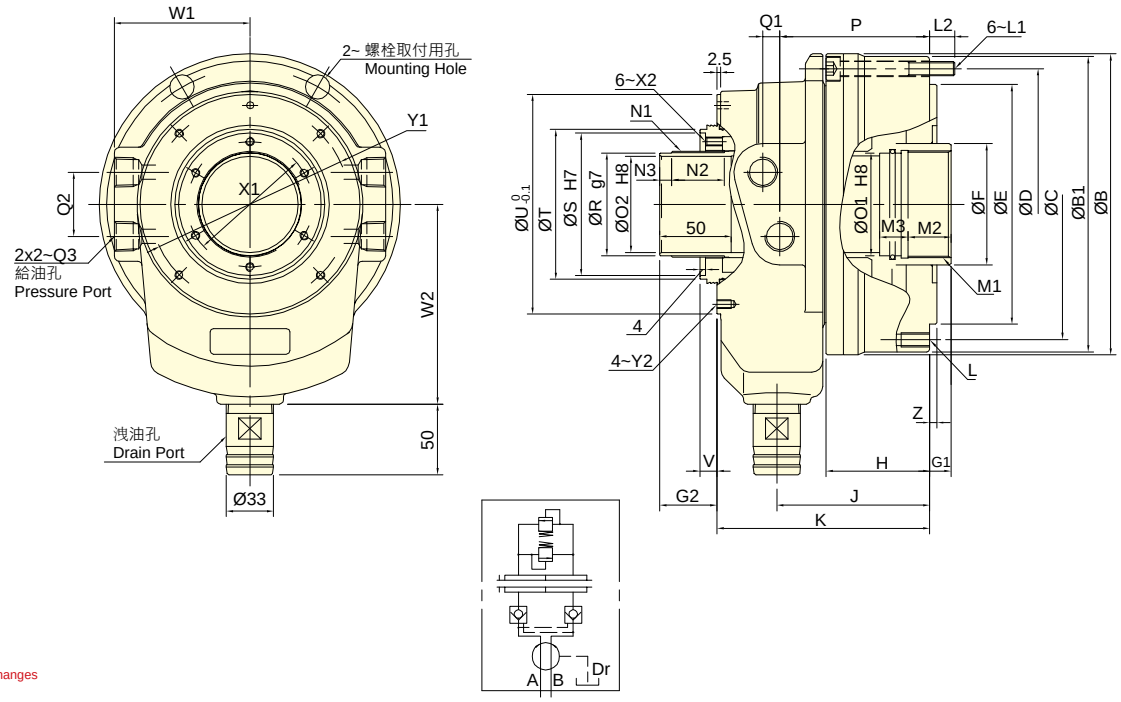
Model	A	B	C	E	F	G1		G2		H	J	K	L	M1	M2	M3	N1	N2
	內徑I.D.			h7		max.	min.	max.	min.									
TK-2416	290	340	300	260	190	35	0	60	25	129	185.5	275	M16x32	M180x3	45	20	M174x2	38
TK-2416L	290	340	300	260	190	51	0	76	25	145	201.5	291	M16x32	M180x3	45	20	M174x2	52
TK-2820	340	395	360	320	235	51	0	76	25	152	212.5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



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	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight	Total oil leakage
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg	lit. / min.
TS-539	72.4	67.1	15	8000	4.5(45)	0.012	6.9	3.0
TS-866	168.0	155.5	25	5600	4.5(45)	0.056	16.3	4.0
TS-1081	189.2	174.3	25	4800	4.5(45)	0.085	21.2	4.3
TS-1210	231.7	222.0	30	3500	3.5(35)	0.193	35.6	6.0

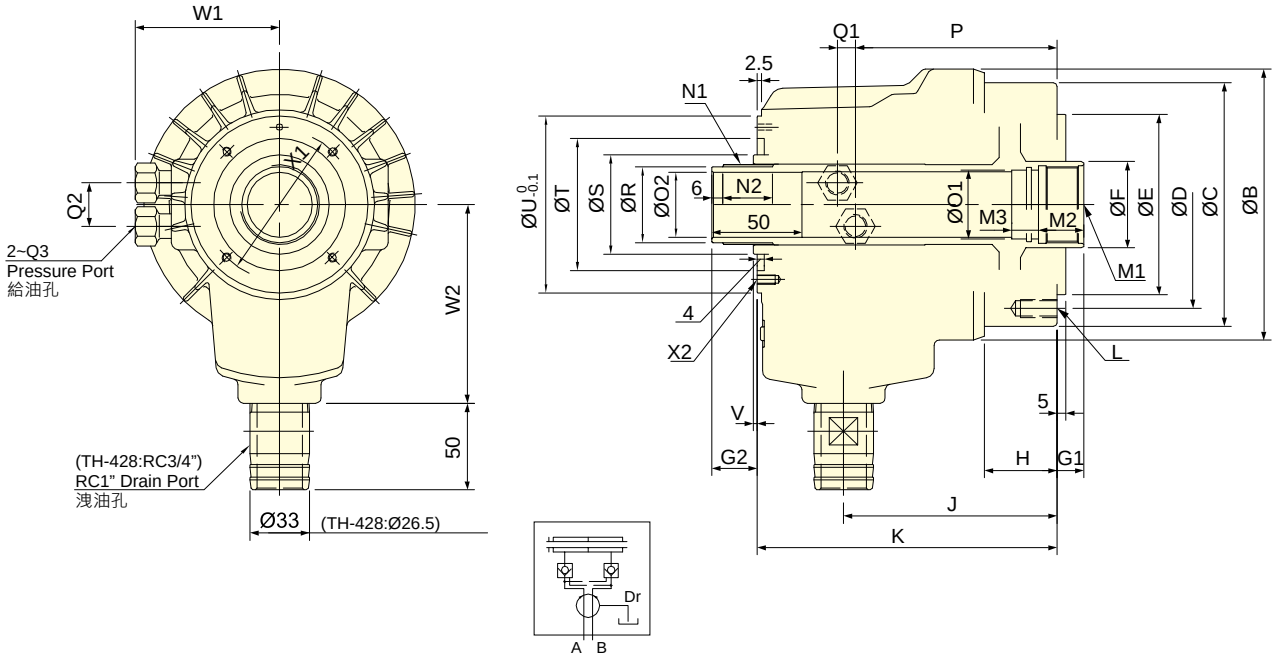
外型尺寸 DIMENSIONS

Model	A 內徑 I.D.	B	B1	C	D	E h7	F	G1 max.	G1 min.	G2 max.	G2 min.	H	J	K	L	L1	L2	M1	M2	M3
TS-539	107	143	141	125	125	110	52	15	0	42.5	27.5	57	91	124	6~M10x20	M8x60	12	M45x1.5	25	12
TS-866	165	211	207	190	190	168	85	25	0	55	30	72.5	107	149	12~M10x20	M10x80	17.5	M75x2	35	15
TS-1081	180	226	222	205	205	168	100	25	0	58	33	74	115	166	12~M10x20	M10x90	18	M90x2	35	15
TS-1210	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 (H8)	O2 (H8)	P	Q1	Q2	Q3	R (g7)	S (H7)	T	U	V	W1	W2	X1	X2	Y1	Y2	Z
TS-539	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
TS-866	M74x1.5	37	8	72	66.5	105	12	45	RC1/2	72	100	111	154	12	95	140	88	M6x12	140	M6x10	5
TS-1081	M89X2.0	38	9	85	81	109	15	45	RC1/2	86	113	123	175	16	103	160	103	M6x12	160	M6X10	5
TS-1210	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附件頁面。*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	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	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight	Total oil leakage
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg	lit. / min.
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 內徑 I.D.	B	C	D	E (h7)	F	G1 max.	G1 min.	G2 max.	G2 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 (H8)	O2 (H8)	P	Q1	Q2	Q3	R (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

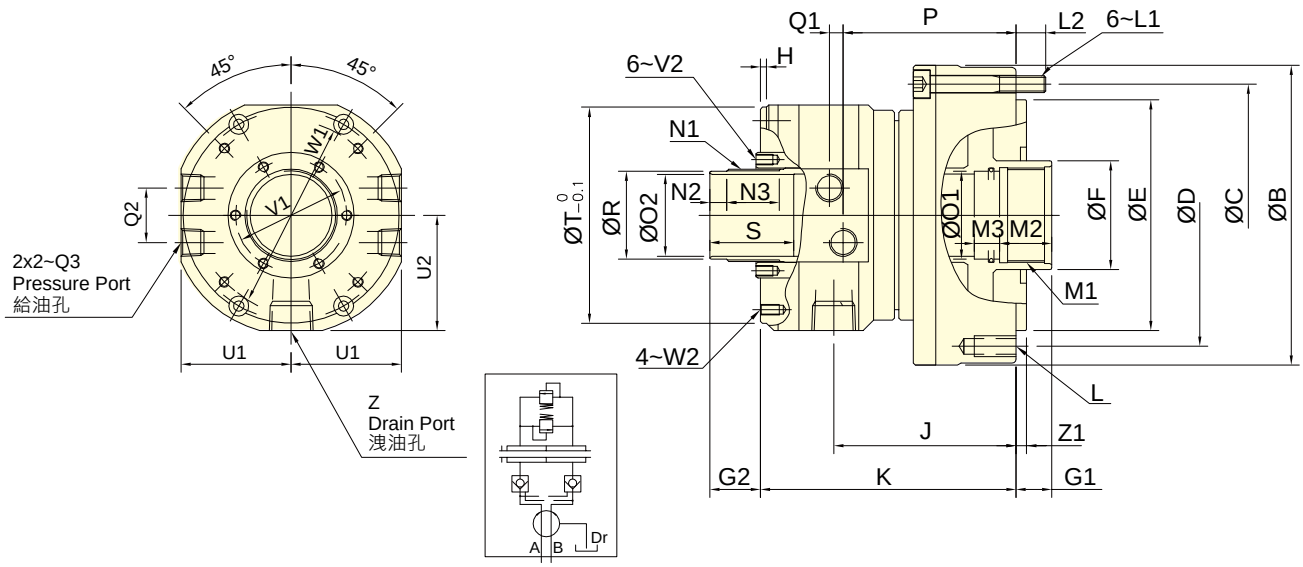
* 集水盒及行程確認裝置請參閱零附件頁面。*Coolant Collector and Confirmation Device Please See Accessories pages.

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

超短高速輕量型

- 外型短小精巧、重量輕巧，節省安裝空間。
- 內建逆止閥與洩壓閥，提供完善的安全保護。
- 大給油孔與大洩油孔設計，供油量充足、排油順暢。
- 支援前鎖與後鎖兩種安裝方式，空間配置更具彈性。
- 適用於立式與臥式主軸加工設備。
- Compact short-length design with lightweight construction for space-saving installation.
- Built-in check valve and pressure relief valve ensure enhanced operational safety.
- Large oil inlet and drain ports provide high oil flow and smooth drainage.
- Supports both front-end and rear-end mounting for flexible installation options.
- Suitable for use with both vertical and horizontal spindles.

- 可附加線性定位系統機構。(選購品)
- Linear sensor can be attached.(optional)



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	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight	Total oil leakage
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	$kg·m^2$	kg	lit. / min.
TR-433	49.5	45.4	10	8000	4.0(40)	0.010	6.8	3.0
TR-536	56.4	54.2	15	8000	4.0(40)	0.011	6.4	3.0
TR-539	72.4	67.1	15	8000	4.0(40)	0.010	6.8	3.0
TR-A646	105	93.9	15	7000	4.0(40)	0.015	9.5	3.0
TR-B646	105	93.9	15	7000	4.0(40)	0.015	10	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

* 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.

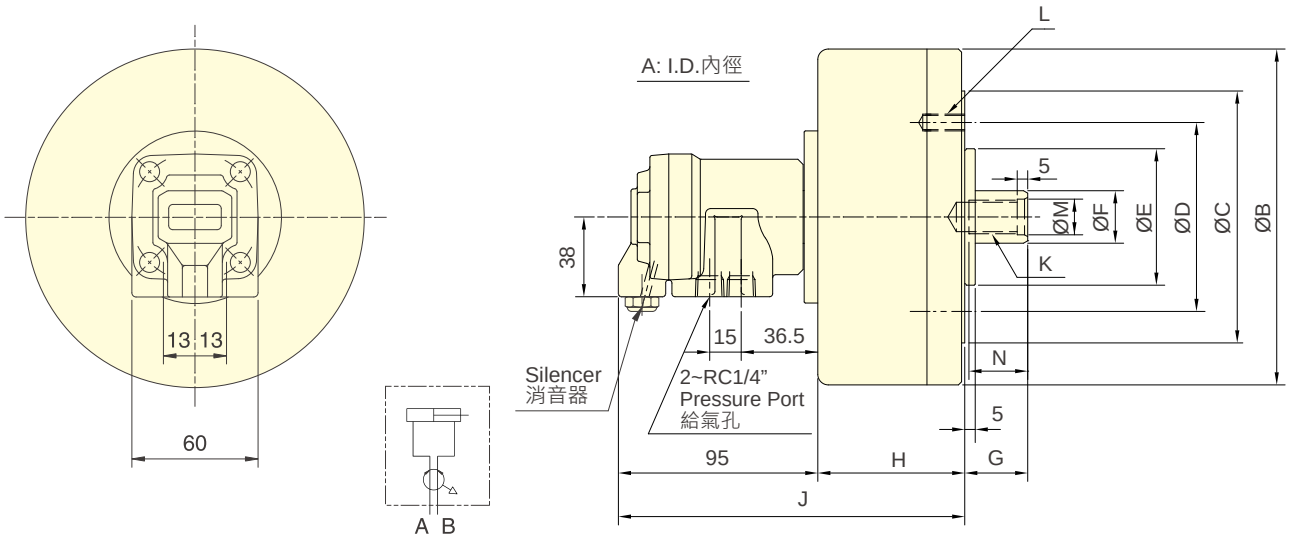
外型尺寸 DIMENSIONS

Model	A 內徑 I.D.	B	C	D	E h7	F	G1 max.	G1 min.	G2 max.	G2 min.	H	J	K	L	L1	L2	M1	M2	M3
TR-433	90	120	106	100	80	46	10	0	30	20	3.5	97	133	6-M8x15	M8x60	12	M40x1.5	25	10
TR-536	97	133	115	115	100	48	15	0	34	19	3.5	97	133	6-M10x20	M8x60	12	M42x1.5	25	15
TR-539	107	143	125	125	110	52	15	0	34	19	4	97	133	6-M10x20	M8x60	12	M45x1.5	25	12
TR-A646	128	165	147	147	130	65	15	0	34	19	3.5	97	135	12-M10x20	M8x60	11.5	M55x2	25	13
TR-B646	128	162	147	130	100	65	15	0	34	19	3.5	107.5	145	12-M10x20	M8x70	11.5	M55x2	30	15
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 H8	O2 H8	P	Q1	Q2	Q3	R g7	S	T	U1	U2	V1	V2	W1	W2	Z	Z1
TR-433	M39x1.5	8	25	36	33	92.5	6.5	26	RC1/4	37	40	98	52.5	55	50	M5x8	83	M5x9	RC1/2	5
TR-536	M44x1.5	6	28	38	36	92.5	6.5	26	RC1/4	42	43	98	52.5	55	53	M5x8	83	M5x7	RC1/2	5
TR-539	M44x1.5	8	25	42	39	92.5	6.5	26	RC1/4	42	40	103	52.5	55	53	M5x8	90	M5x9	RC1/2	5
TR-A646	M52x1.5	8	25	50	46	95	5	32	RC3/8	50	50	116	59	62	61.5	M5x9	98	M5x9	RC1/2	5
TR-B646	M52x1.5	8	30	50	46	105	5	32	RC3/8	50	50	116	59	62	61.5	M5x8	98	M5x9	RC1/2	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

- 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 utillization.

- 使用時，請混入微量的油霧。
- When used, a little oil mist should be contained.



技術規格 SPECIFICATIONS

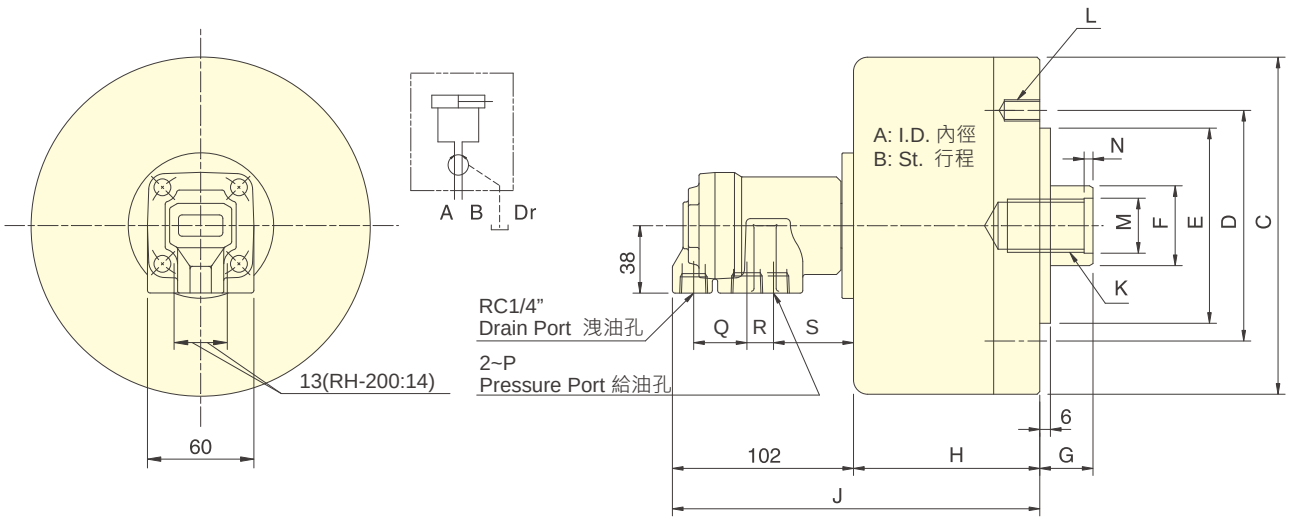
型號	活塞面積 Eff. piston area		行程	最高迴轉數	最高使用壓力	I	重量	空氣洩漏量
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight	Air Leakage(6kgf/cm²)
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg	cc/sec
RA-100	77.0	74.4	15	6000	0.8(8)	0.03	3.9	400
RA-130	131.2	124.7	15	5000	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

- 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.



技術規格 SPECIFICATIONS

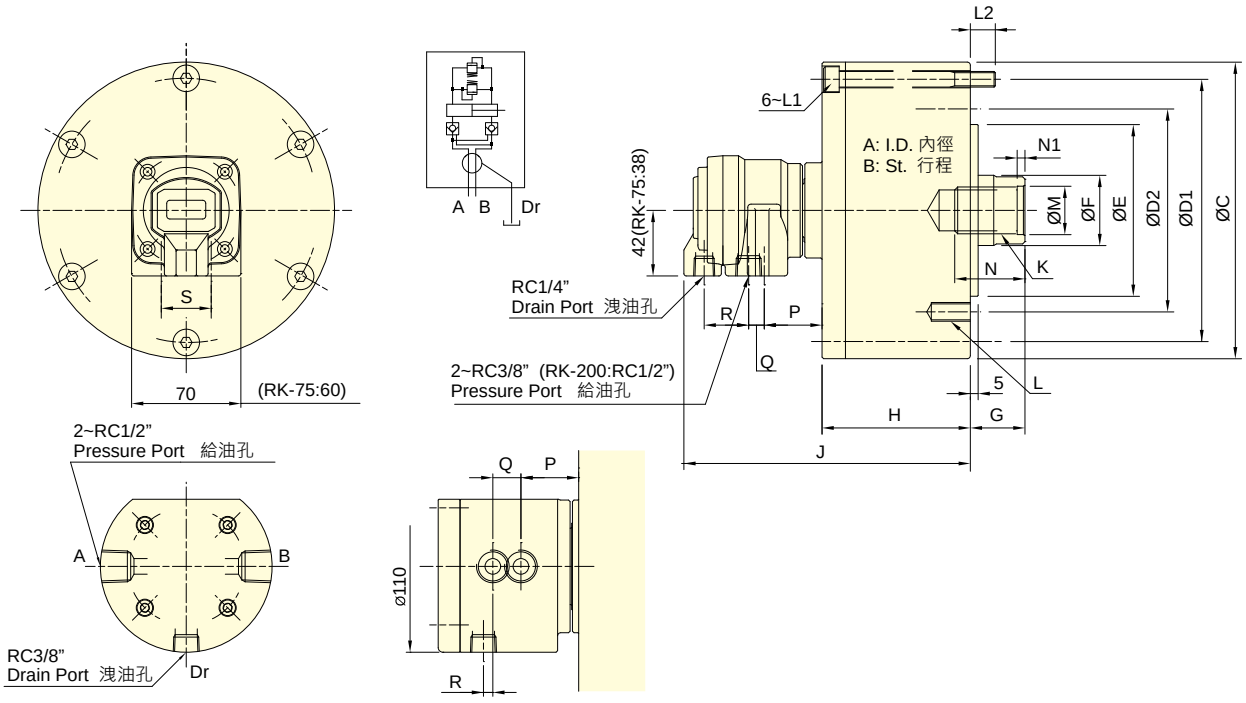
型號	活塞面積 Eff. piston area		行程	最高迴轉數	最高使用壓力	I	重量
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg
RH-65	31.0	27.9	15	6000	3.5(35)	0.01	2.9
RH-80	47.7	42.8	15	6000	3.5(35)	0.01	3.4
RH-100	75.4	70.5	20	5500	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

- 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.



RK-250

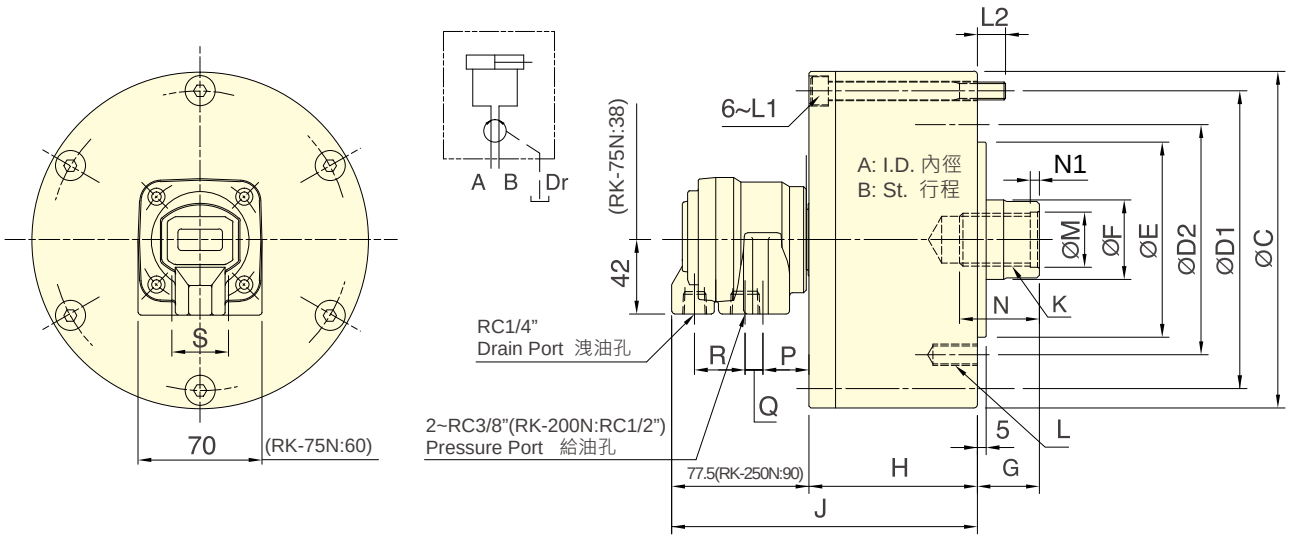
技術規格 SPECIFICATIONS

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
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg
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 (h7)	F	G max.	G min.	H	J	K	L	L1	L2	M (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	15.5	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.



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
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg
RK-75N	44.2	37.1	15	6000	4.0(40)	0.01	2.8
RK-100N	78.5	71.5	20	6000	4.0(40)	0.03	4.3
RK-125N	122.7	113.1	25	6000	4.0(40)	0.05	6.8
RK-150N	176.7	160.8	30	5500	4.0(40)	0.09	9.4
RK-200N	314.1	290.4	35	5500	4.0(40)	0.28	15.3
RK-250N	469.1	436.0	60	2000	5.0(50)	0.40	45.2

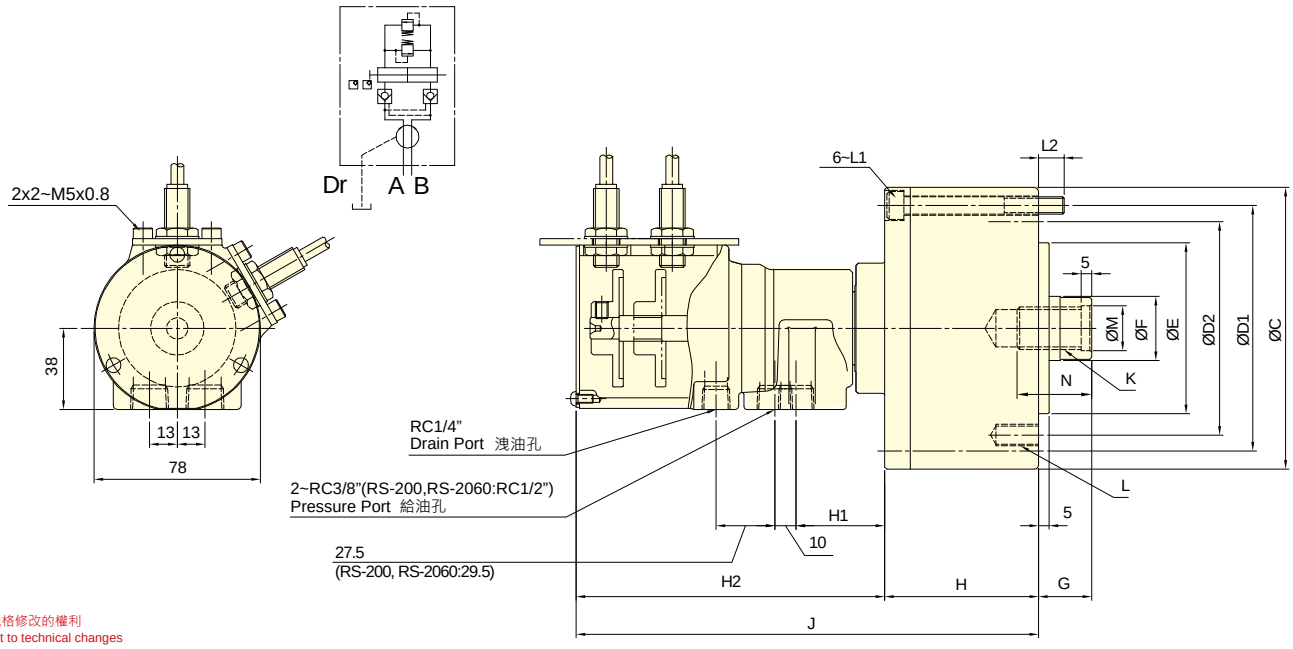
外型尺寸 DIMENSIONS

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
RK-75N	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
RK-100N	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
RK-125N	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
RK-150N	150	30	190	170	130	110	45	55	25	95	172.5	M30x3.5	12~M12x24	M10x100	15.5	32	45	5	26	10	28.5	32
RK-200N	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
RK-250N	245	60	307	275	220	160	65	85	25	165	255	M42x3.0	6~M20x2.5	M16x175	28	45	65	12	37	18	6	-

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

- 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.



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
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	$kg·m^2$	kg
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-1250	121.6	113.1	50	6000	4.0 (40)	0.05	8.7
RS-150	175.6	160.8	30	5500	4.0 (40)	0.10	10.7
RS-1550	175.6	160.8	50	5500	4.0 (40)	0.10	11.5
RS-200	313.0	290.4	35	5500	4.0 (40)	0.29	15.9
RS-2060	313.0	290.4	60	5500	4.0 (40)	0.29	17.6

外型尺寸 DIMENSIONS

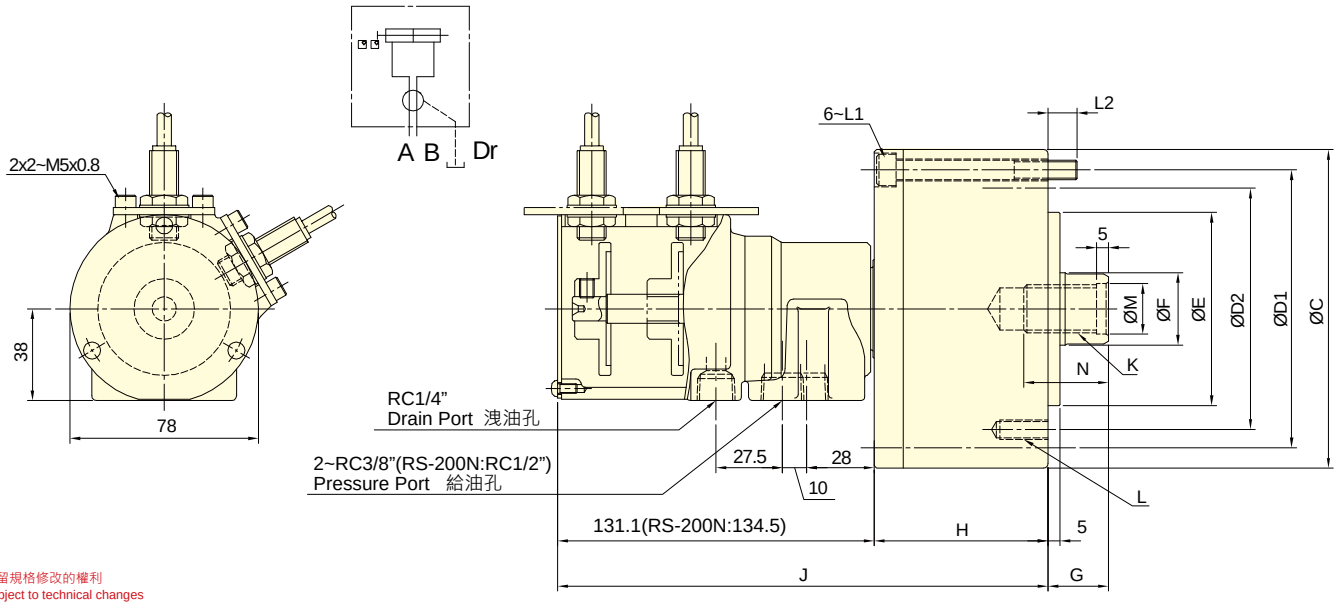
Model	A	B	C	D1	D2	E (h7)	F	G max.	G min.	H	H1	H2	J	K	L	L1	L2	M (H8)	N
RS-75	75	15	107	90	90	65	30	45	30	57	42	145	202	M20x2.5	6~M8x16	M8x60	12	21	35
RS-100	100	20	132	115	100	80	30	45	25	72	42	145	217	M20x2.5	6~M10x20	M8x75	12	21	35
RS-125	125	25	160	140	130	110	35	50	25	82	41	144	226	M24x3.0	6~M12x20	M8x85	12	25	45
RS-1250	125	50	160	140	130	110	35	75	25	107	41	174	281	M24x3.0	6~M12x20	M8x110	12	25	45
RS-150	150	30	190	170	130	110	45	55	25	95	39	142	237	M30x3.5	12~M12x24	M10x100	15.5	32	45
RS-1550	150	50	190	170	130	110	45	75	25	115	39	172	287	M30x3.5	12~M12x24	M10x120	15.5	31	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
RS-2060	200	60	245	220	145	120	55	95	35	140	34	169	309	M36x4.0	12~M16x30	M10x145	16	38	60

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

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

- 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。
- 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.
- 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.



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
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg
RS-6520N	32.0	28.3	20	6000	4.0(40)	0.01	3.2
RS-6530N	32.0	28.3	30	6000	4.0(40)	0.01	3.3
RS-75N	43.0	37.1	15	6000	4.0(40)	0.01	3.3
RS-7530N	43.0	37.1	30	6000	4.0(40)	0.013	3.7
RS-100N	77.4	71.5	20	6000	4.0(40)	0.04	4.8
RS-125N	121.6	113.1	25	6000	4.0(40)	0.05	7.3
RS-150N	175.6	160.8	30	5500	4.0(40)	0.16	10.6
RS-200N	313.0	290.4	35	5500	4.0(40)	0.29	15.9

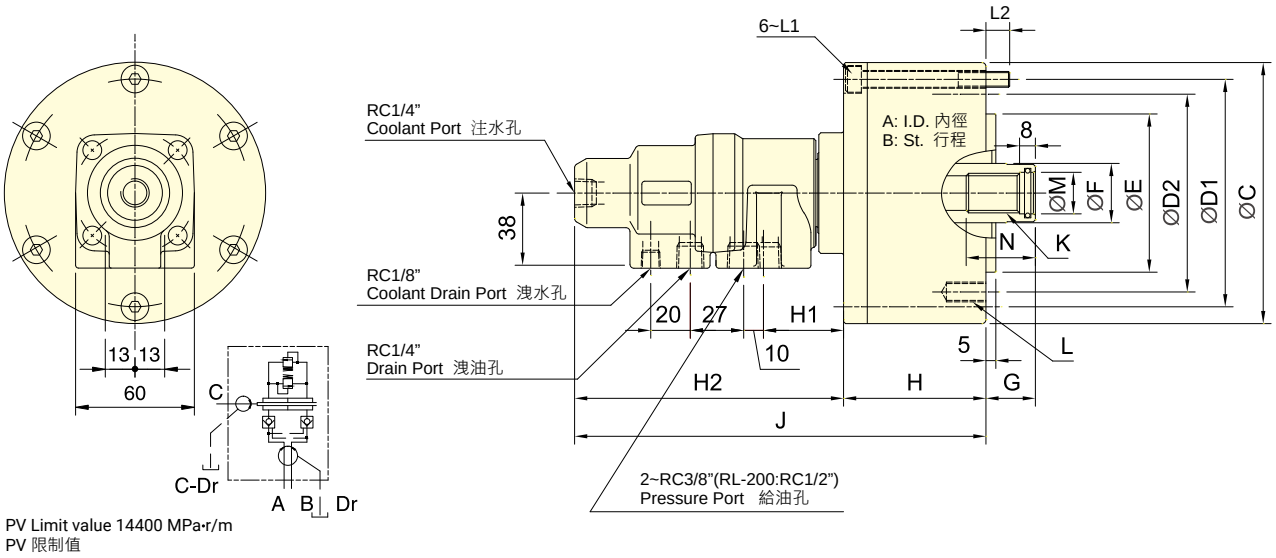
外型尺寸 DIMENSIONS

Model	A	B	C	D1	D2	E (h7)	F	G max.	G min.	H	J	K	L	L1	L2	M (H8)	N
RS-6520N	65	20	97	80	80	60	25	45	25	62	193	M16x2.0	6~M8x16	M6x70	14.5	17	30
RS-6530N	65	30	97	80	80	60	25	45	15	62	203	M16x2.0	6~M8x16	M6x80	14.5	17	30
RS-75N	75	15	107	90	90	65	30	45	30	57	188	M20x2.5	6~M8x16	M8x60	12	21	35
RS-7530N	75	30	107	90	90	65	30	45	15	72	203	M20x2.5	6~M8x16	M8x75	12	21	35
RS-100N	100	20	132	115	100	80	30	45	25	72	203	M20x2.5	6~M10x20	M8x75	12	21	35
RS-125N	125	25	160	140	130	110	35	50	25	82	213	M24x3.0	6~M12x20	M8x85	12	25	45
RS-150N	150	30	190	170	130	110	45	55	25	95	226	M30x3.5	12~M12x24	M10x100	15.5	32	45
RS-200N	200	35	245	220	145	120	55	70	35	115	249.5	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

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	注水孔最高使用壓力	I	重量
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Coolant connection Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	MPa (kgf/cm^2)	kg·m^2	kg
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

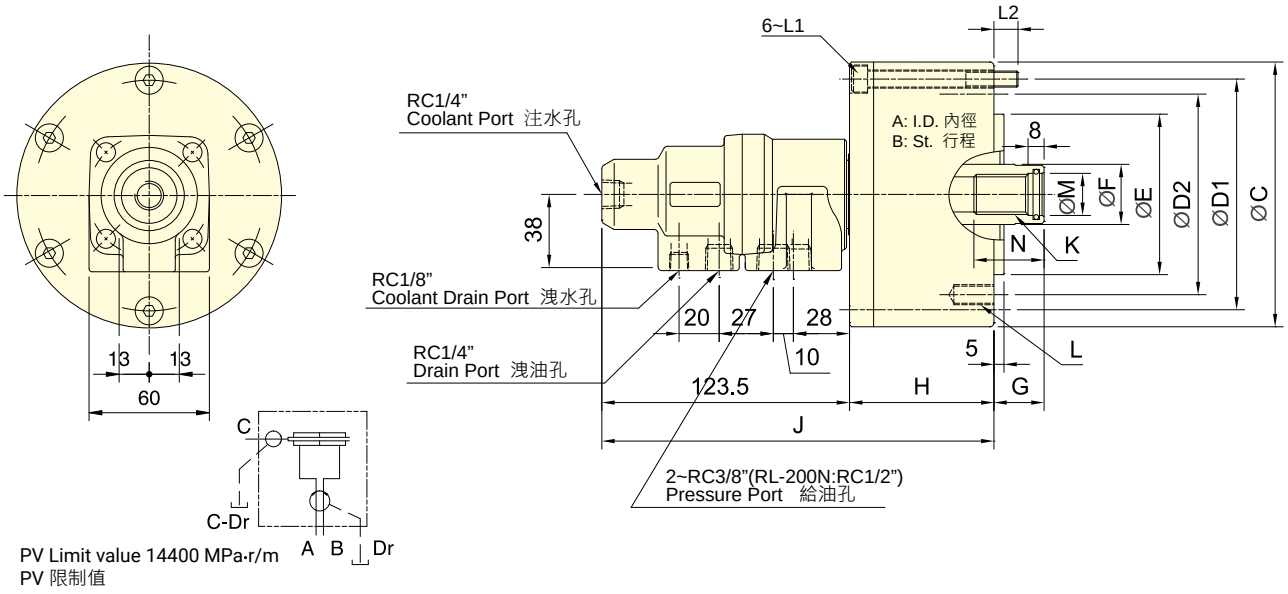
外型尺寸 DIMENSIONS

Model	A	B	C	D1	D2	E (h7)	F	G max.	G min.	H	H1	H2	J	K	L	L1	L2	M (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	15.5	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

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

- 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.



PV Limit value 14400 MPa·r/m
PV 限制值

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	注水孔最高使用壓力	I	重量
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Coolant connection Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	MPa (kgf/cm^2)	kg·m^2	kg
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

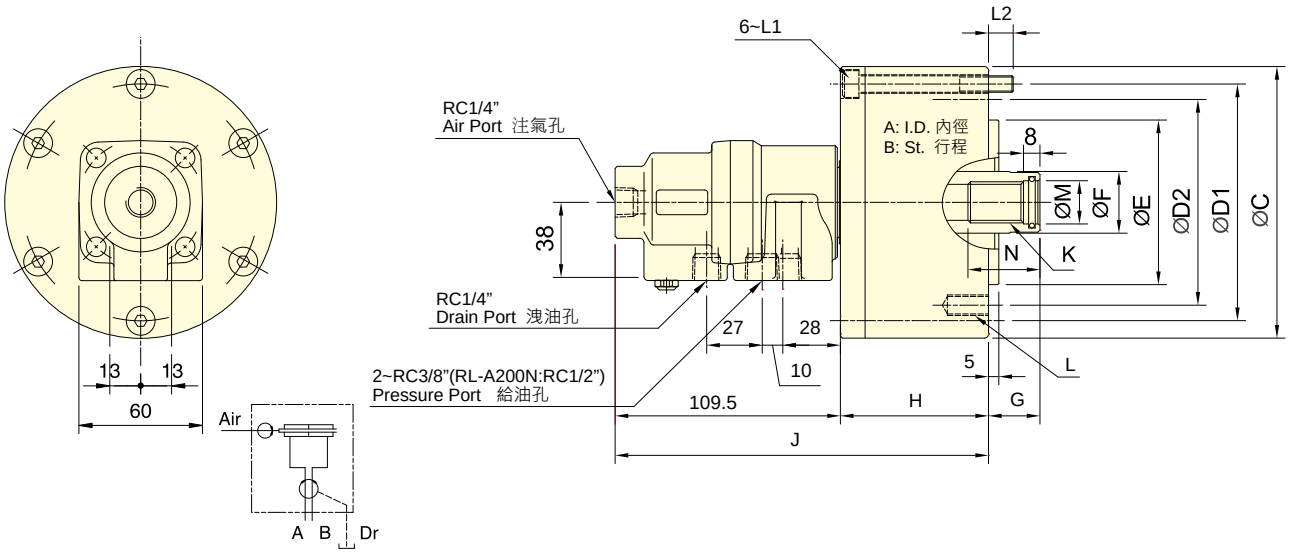
外型尺寸 DIMENSIONS

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	15.5	32	45
RL-200N	200	35	245	220	145	120	55	70	35	115	240	M36x4.0	12-M16x 30	M10x125	21	38	60

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

- 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

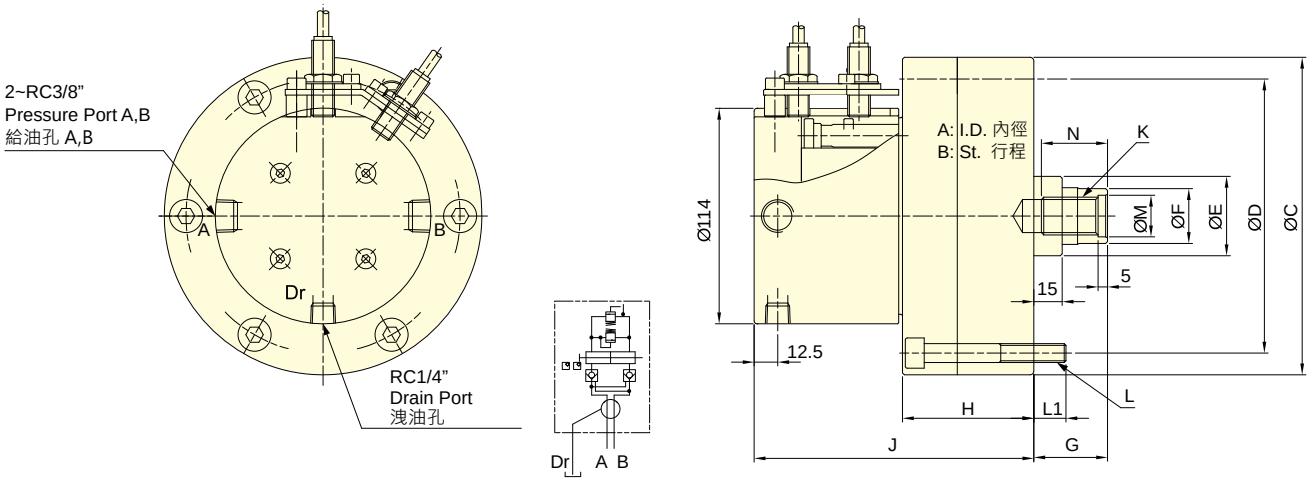
技術規格 SPECIFICATIONS

型號	活塞面積 Eff. piston area		行程	最高迴轉數	最高使用壓力	注氣部最高使用壓力	I	重量
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Air connection Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	MPa (kgf/cm^2)	kg·m^2	kg
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	15.5	32	45
RL- A200N	200	35	245	220	145	120	55	70	35	115	225	M36 x4.0	12~M16x30	M10x125	21	38	60

- 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	活塞面積 Eff. piston area		行程	最高迴轉數	最高使用壓力	I	重量
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg
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

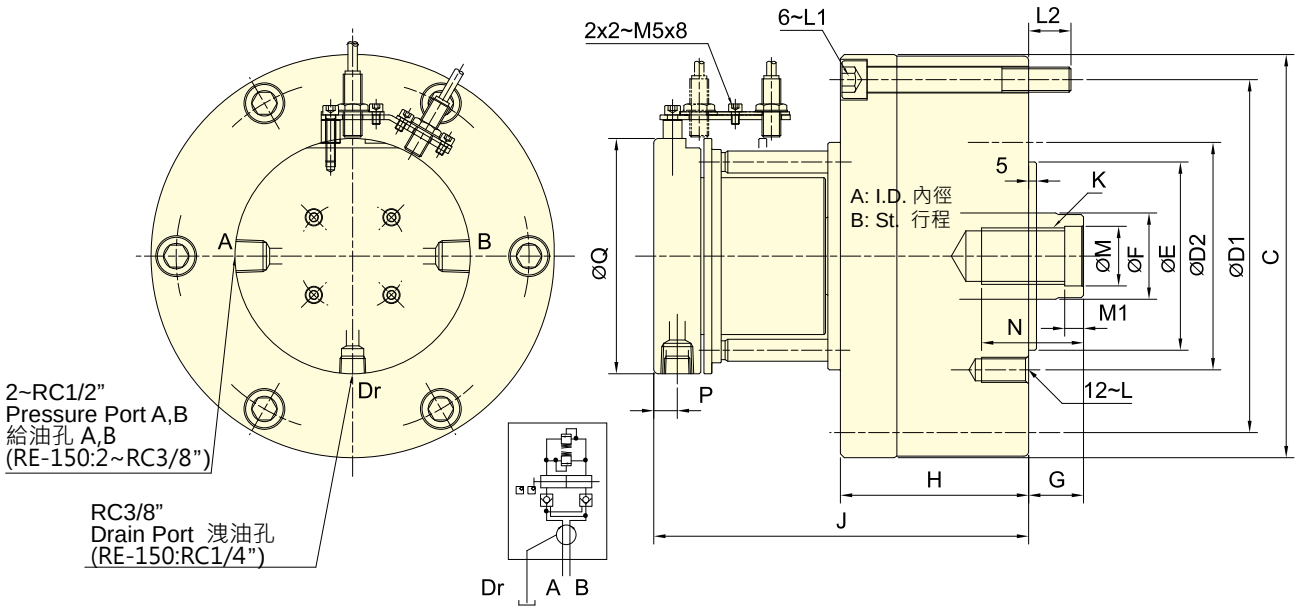
外型尺寸 DIMENSIONS

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.



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
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg
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

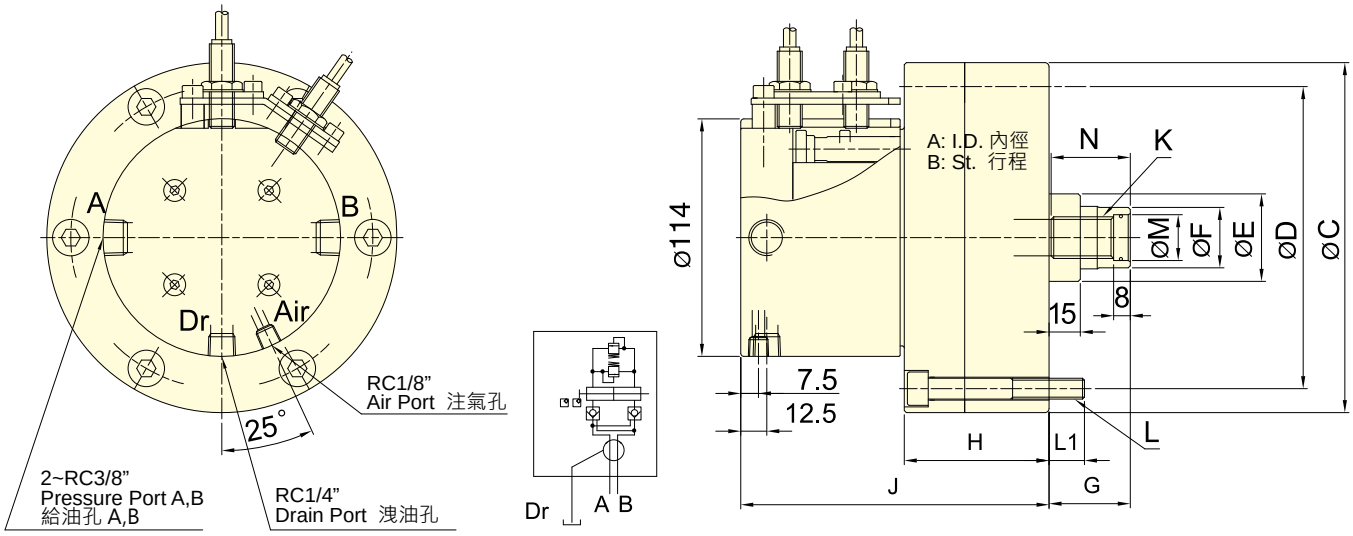
外型尺寸 DIMENSIONS

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.



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	注氣部最高使用壓力	I	重量
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Air connection Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	MPa (kgf/cm^2)	$kg·m^2$	kg
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

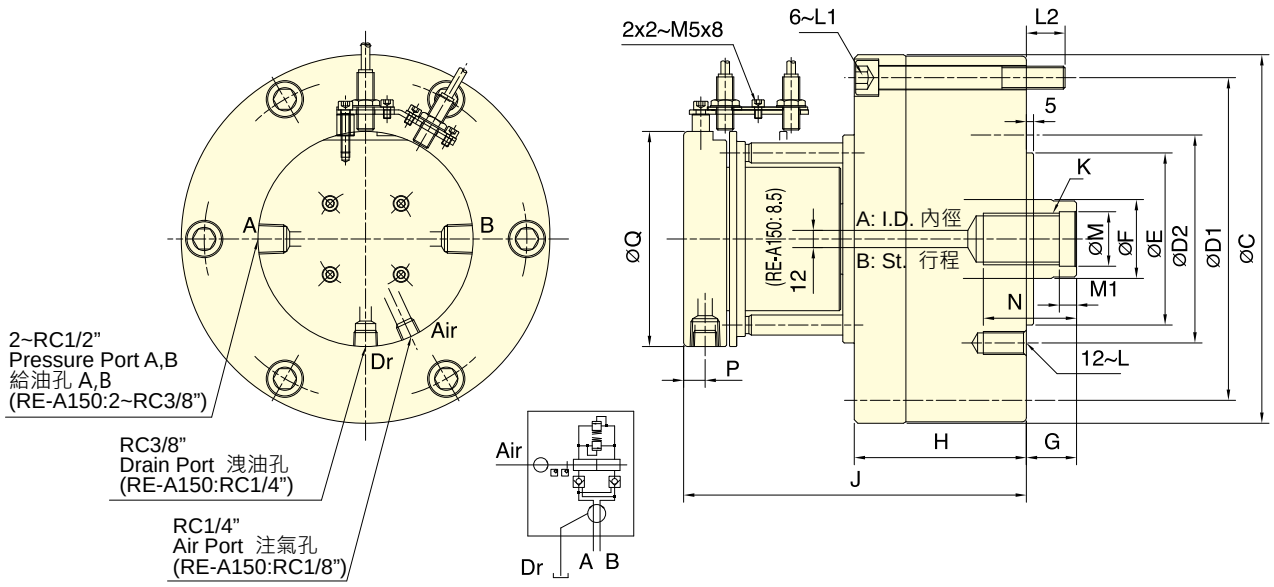
外型尺寸 DIMENSIONS

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.



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	注氣部最高使用壓力	I	重量
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Air connection Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	MPa (kgf/cm^2)	kg·m^2	kg
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

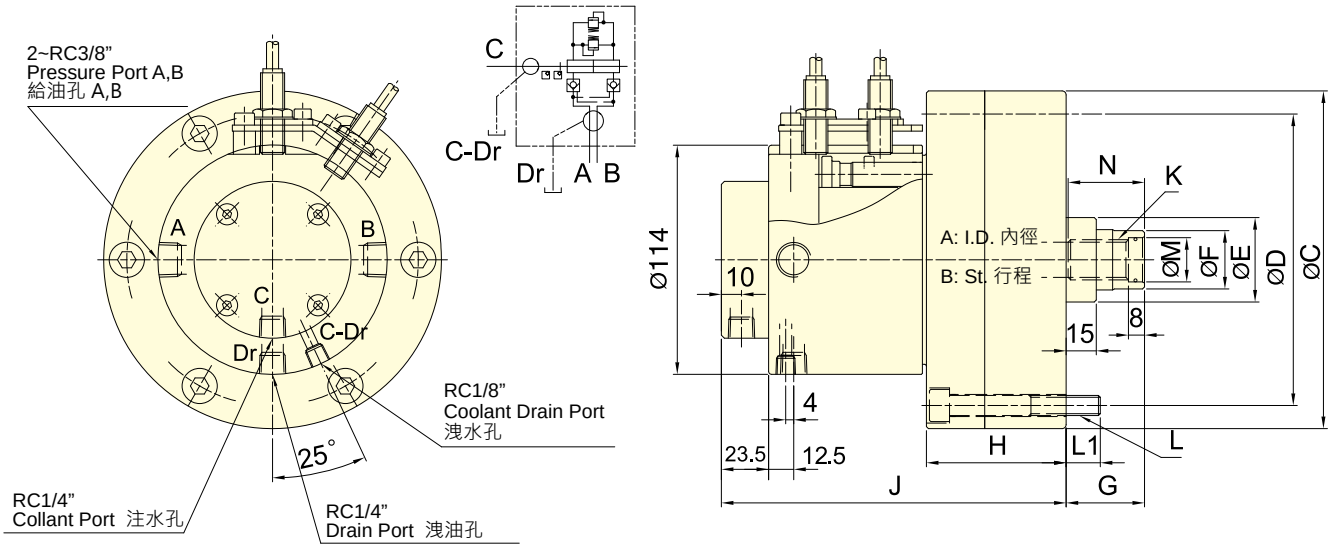
外型尺寸 DIMENSIONS

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。
- 注水孔無流體通過時，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	活塞面積 Eff. piston area		行程	最高迴轉數	最高使用壓力	注水孔最高使用壓力	I	重量
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Coolant connection Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	MPa (kgf/cm^2)	$kg·m^2$	kg
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

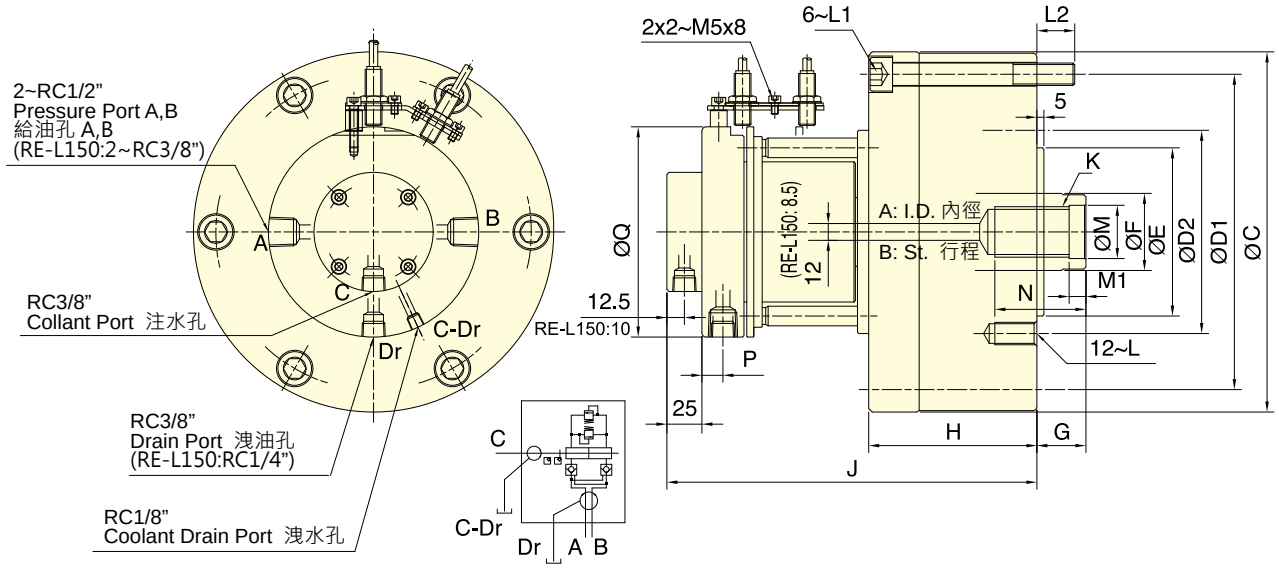
外型尺寸 DIMENSIONS

Model	A	B	C (h7)	D	E	F	G max.	G min.	H	J	K	L	L1	M (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。
- 注水孔無流體通過時，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.



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	注水孔最高使用壓力	I	重量
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Coolant connection Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	MPa (kgf/cm^2)	kg·m^2	kg
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

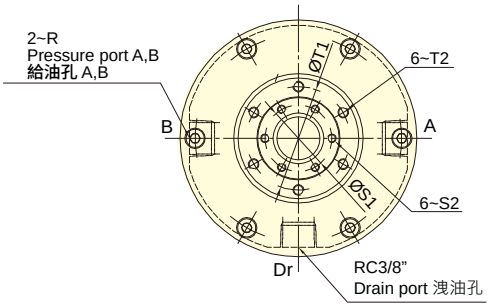
Model	A	B	C	D1	D2	E (h7)	F	G max.	G min.	H	J	K	L	L1	L2	M (H8)	M1	N	P	Q
RE-L150	150	30	205	180	130	110	45	60	30	99	201	M30x3.5	M12x24	M12x105	18.5	32	10	50	12.5	114
RE-L200K	195	35	257	225	145	120	55	73	38	120	264	M36x4.0	M16x30	M16x130	27	38	12	65	15	150
RE-L200L	195	50	257	225	170	125	65	80	30	135	279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

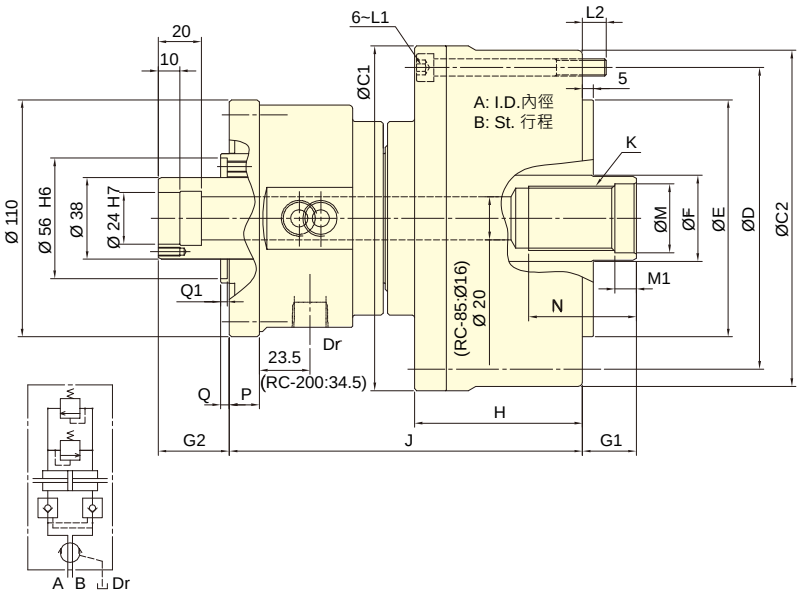
* 近接開關 : DC 10-30V 100mA NPN。*Proximity sensor : DC 10-30V 100mA NPN.

- 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 buil-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.





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
Model	押側(Extend)	拉側(Retract)	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	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

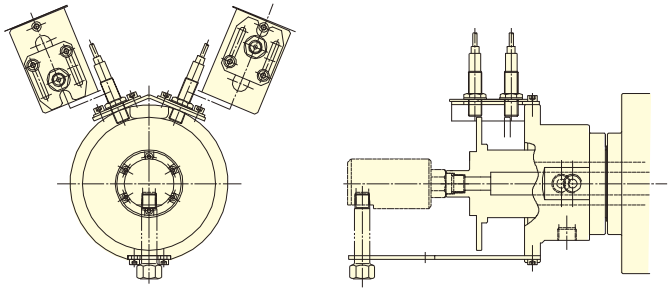
外型尺寸 DIMENSIONS

Model	A	B	C1	C2	D	E (h7)	F	G1max.	G1min.	G2max.	G2min.	H	J	K
RC-85	85	20	120	116	100	65	32	45	25	28	8	76.5	156.5	M24x1.5
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	83	169.5	M40x1.5
RC-200	195	35	257	257	225	120	55	73	38	51.5	16.5	120.5	222.5	M36x4.0

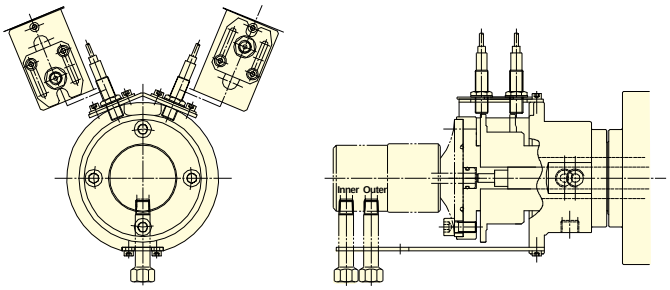
Model	L1	L2	M(H8)	M1	N	P	Q	Q1	R	S1	S2	T1	T2
RC-85	6~M8x80	12.5	25.4	10	40	14	4	3	RC3/8	31	M4x10	48	M5x9
RC-100	6~M8x75	12.5	32	10	50	14	4	3	RC3/8	31	M4x10	48	M5x9
RC-125	6~M8x80	11	32	10	50	14	4	3	RC3/8	31	M4x10	48	M5x9
RC-145	6~M10x90	18	42	12	57	14	4	3	RC3/8	31	M4x10	48	M5x9
RC-200	6~M16x130	26	38	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.

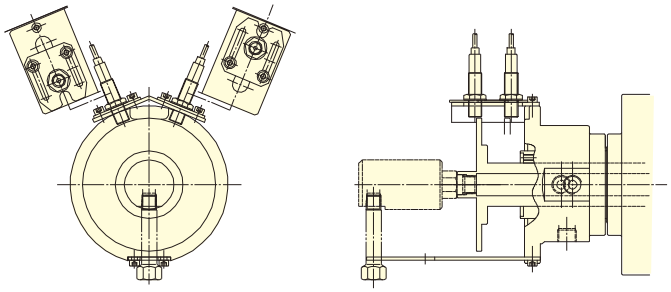
F1
固定式．單通道
With single path rotating joint (Fixed type)



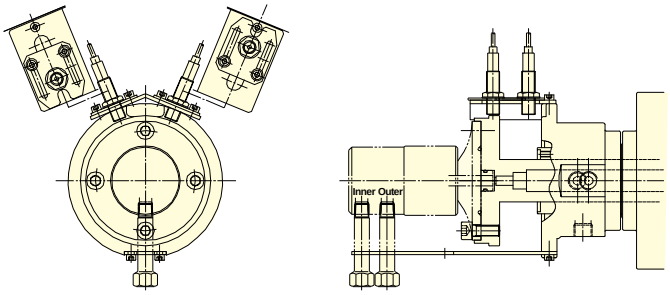
F2
固定式．雙通道
With double paths rotating joint(Fixed type)



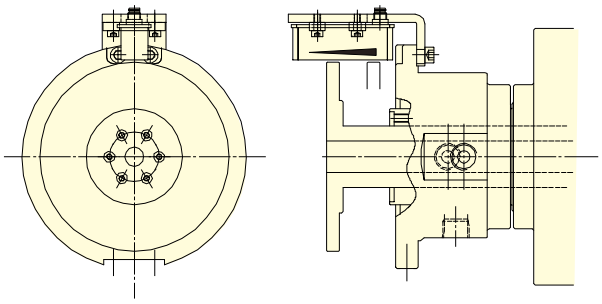
M1
移動式．單通道
With single path rotating joint(Moving type)



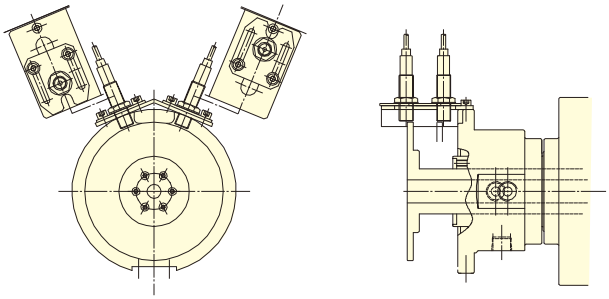
M2
移動式．雙通道
With double paths rotating joint(Moving type)



B
線性檢知和支架
linear Sensor with bracket



S
近接開關和支架
Proximity switch with bracket



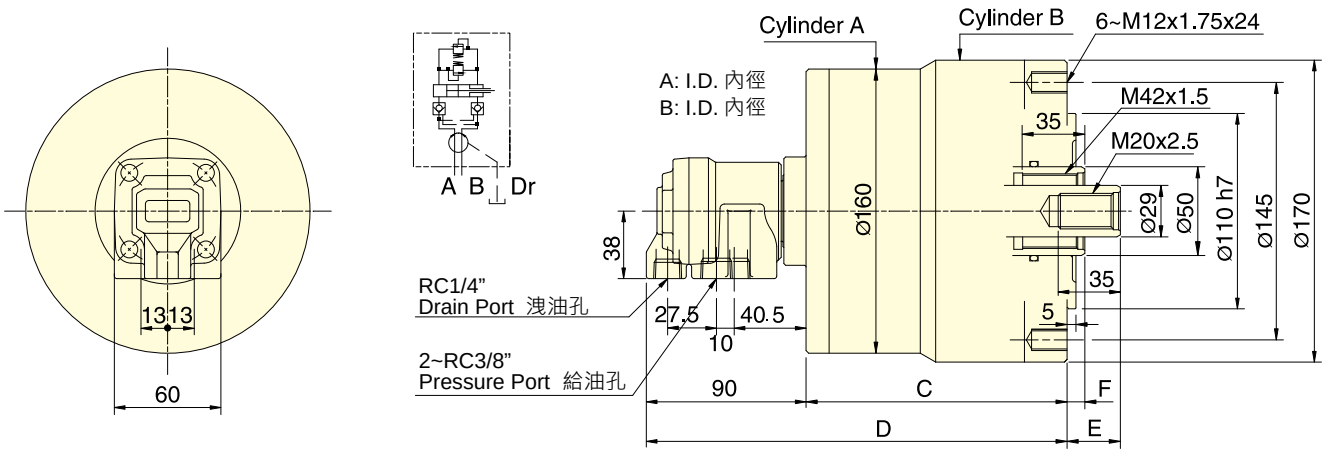
* 近接開關與迴轉接頭是選購品。
* 可選擇所合適的附加類型。
* 詳細安裝介面尺寸請與聯繫我們。

* The proximity switch and rotary joiint are optional.
* Choose and attach the appropriate type.
* Please contact AUTOGRIP for more detailed drawing.

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

- 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.



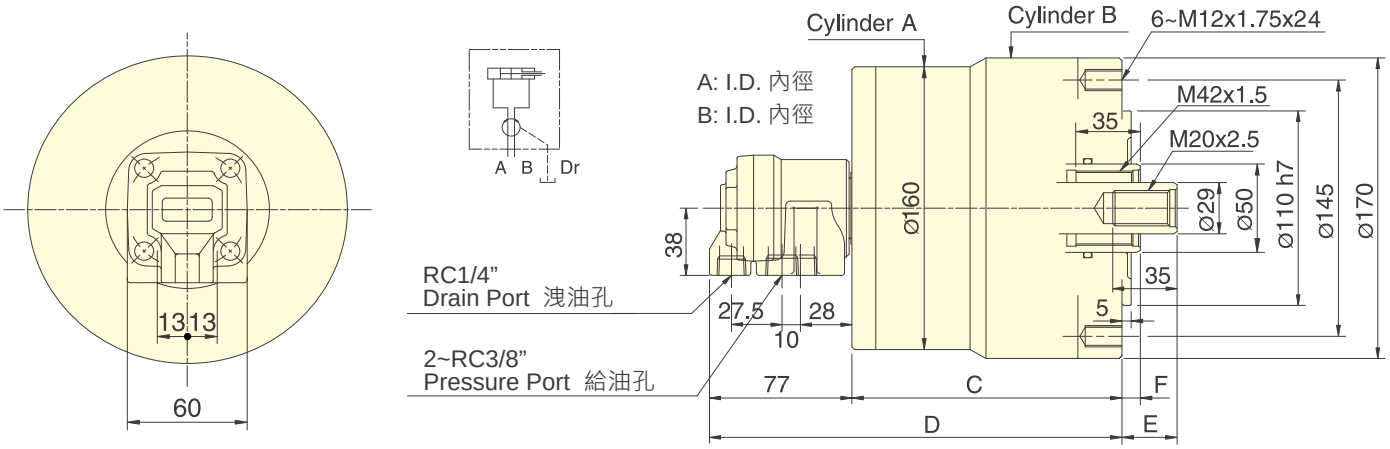
技術規格 SPECIFICATIONS

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
	押側(Extend)		拉側(Retract)						
Model	A	B	A	B	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	$kg·m^2$	kg
RD-120	122.7	126.1	116.1	113.1	20	5000	3.0(30)	0.14	11.3
RD-125	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.
RD-120	125	130	137	227	60	40	35	15
RD-125	125	130	147	237	55	30	35	10

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



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

技術規格 SPECIFICATIONS

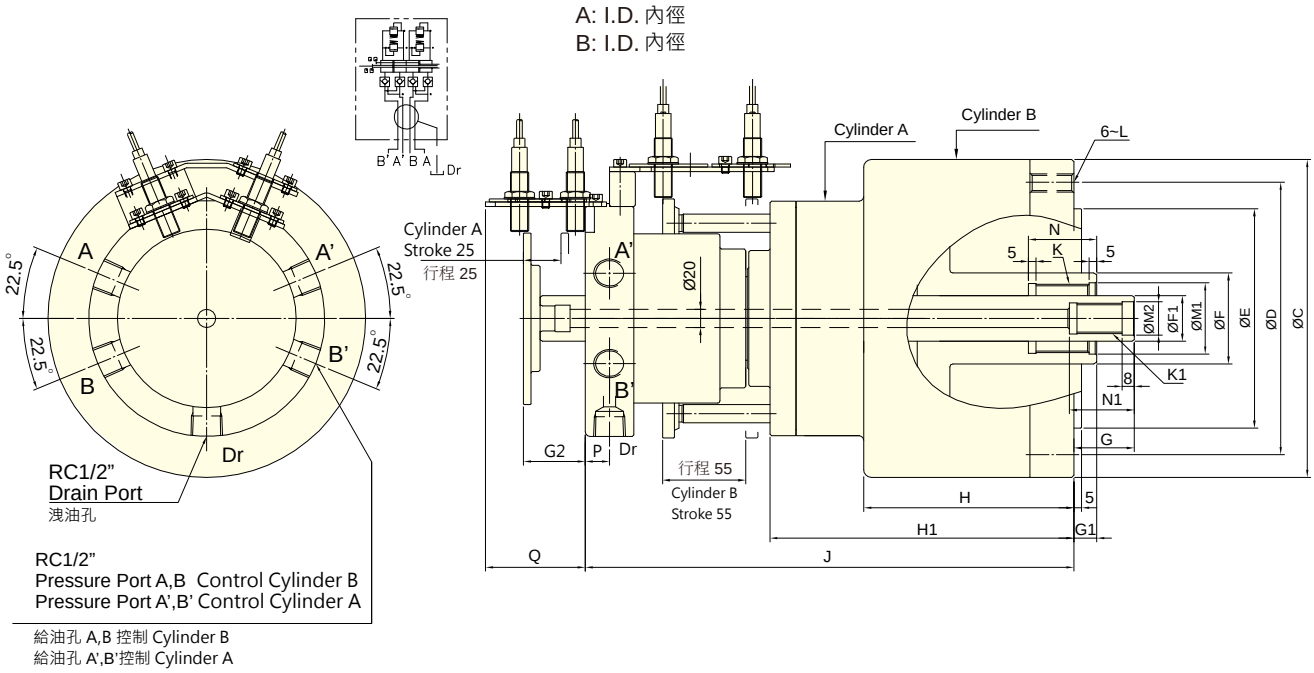
型號	活塞面積Eff. piston area				行程	最高迴轉數	最高使用壓力	I	重量
	押側(Extend)		拉側(Retract)						
Model	A	B	A	B	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	$kg·m^2$	kg
RD-120N	122.7	126.1	116.1	113.1	20	5000	3.0(30)	0.14	11.2
RD-125N	122.7	126.1	116.1	113.1	25	5000	3.0(30)	0.15	11.4

外型尺寸 DIMENSIONS

Model	A	B	C	D	E max.	E min.	F max.	F min.
RD-120N	125	130	137	214	60	40	35	15
RD-125N	125	130	147	224	55	30	35	10

- 短型，輕量，外掛接頭雙桿雙迴路迴轉油壓缸。
- 內拉桿可應用於驅動零件中心頂出或帶軸向伸縮定位的動力夾頭。
- 前後油缸為單獨迴路控制，均內建逆止閥自鎖機構。
- 中心通孔用于冷卻液、油或空氣的輸送，可外掛單通道迴轉接頭。
- Short type, lightweight, dual-rod dual-circuit rotary hydraulic cylinder with external rotary joint.
- The internal tie rod can be applied to drive center ejection of parts or power chucks with axial telescopic positioning.
- The front and rear cylinders are controlled by separate circuits, each equipped with Built-in safety check valves .
- The central through-hole is used for the passage of coolant, oil, or air, and can be fitted with an external single-channel rotary joint..

- 迴轉接頭與支撐架為選購品。
- The rotary joint and support frame are optiona.



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 慣性矩	重量
	押側(Extend)		拉側(Retract)						
Model	A	B	A	B	Piston stroke	Max. speed	Max. pressure	Moment of inertia	Weight
	cm^2	cm^2	cm^2	cm^2	mm	min^{-1}(r.p.m.)	MPa(kgf/cm^2)	kg·m^2	kg
RDL-160S	68.3	190.6	68.3	172.8	25/55	4000	5.0 (50)	0.025	26

外型尺寸 DIMENSIONS

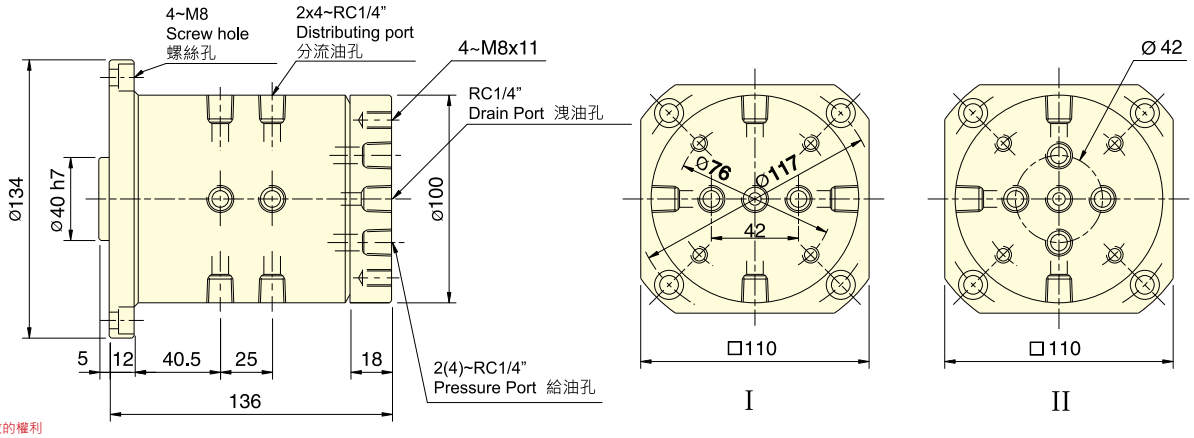
Model	A	B	C	D	E(h7)	F	F1	G max.	G min.	G1 max.	G1 min.	G2 max.	G2 min.
RDL-160S	100	160	210	180	145	60	30	65	40	70	15	41	16

Model	H	H1	J	K	K1	L	M1(H8)	M2(h7)	N	N1	P	Q
RDL-160S	139	201	323	M45x1.5	M20x2.5	M12x29	47	22	45	43	16	66

RV 油壓迴轉分流閥
HYDRAULIC ROTARY VALVE

油壓型

- 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

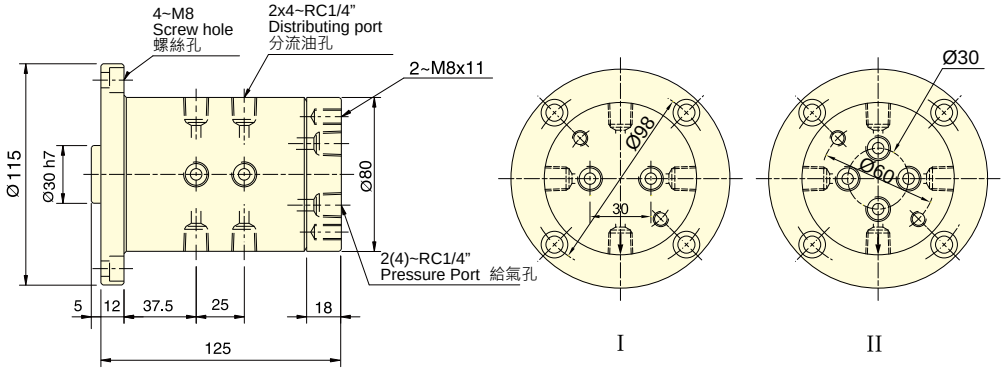
技術規格 SPECIFICATIONS

型號	分流數	最高使用壓力	重量
Model	Distributing	Max. pressure	Weight
		MPa(kgf/cm²)	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.)

RV-A 空壓迴轉分流閥
AIR ROTARY VALVE

空壓型



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	Weight
		MPa(kgf/cm²)	kgs
RV-A31H	4 向 (可訂製)	0.8(8)	4.8

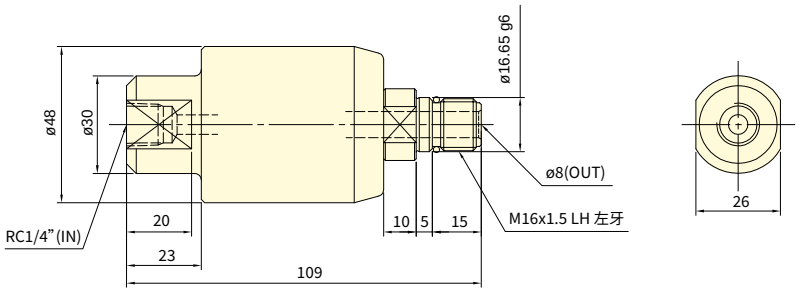
註 :RV-A 可提供客製。(Note:RV-A can be custom-made.)

RJ-52

單通道迴轉接頭
SINGLE-PASSAGE ROTARY JOINT

- 單通道多介質設計，兼容氣體與水兩種不同介質。
- 高效密封系統，採用耐磨損且耐腐蝕的密封材料，確保在高速旋轉下無洩漏，結構緊湊，易於安裝。
- Single-channel design for multi-medium transmission, compatible with both air and coolant (water-based fluids).
- High-performance sealing system with wear- and corrosion-resistant sealing materials ensures zero leakage under high-speed rotation.
- Compact construction for easy integration and installation.

- 無介質通過時，請勿運轉。
- Do not operate the rotary joint without medium flowing through the passage.



技術規格 SPECIFICATIONS

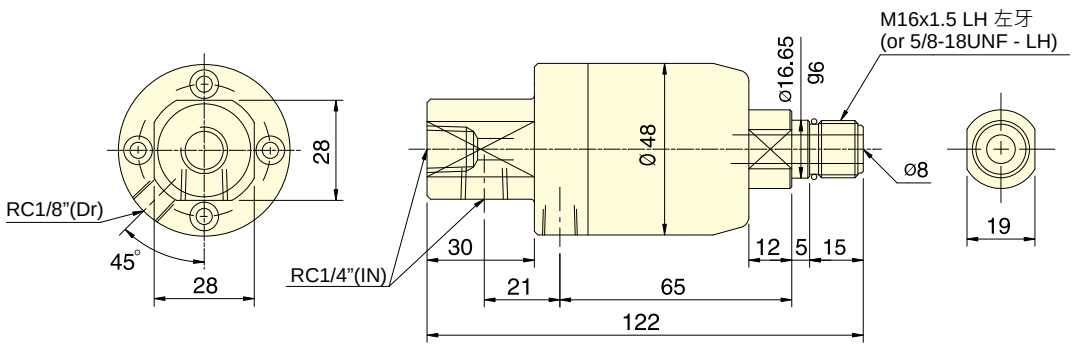
型號	注水PV 限制值 (MPa·r/m.)	注氣PV 限制值 (MPa·r/m.)	吐出量 (使用壓力 50 kgf/cm²)	最高使用迴轉數 (r.p.m.)	注水最高使用壓力 MPa(kgf/cm²)	注氣最高使用壓力 MPa(kgf/cm²)	重量(kg)
Model	Coolant connection PV Limit value (MPa·r/m.)	Air connection PV Limit value (MPa·r/m.)	Delivery amount (at 50 kgf/cm²)	Max. speed (r.p.m.)	Coolant connection Max. pressure MPa(kgf/cm²)	Air connection Max. pressure MPa(kgf/cm²)	Weight (kg)
RJ-52	8000	3200	28l/min	3000	4.0(40)	0.8(8.0)	0.5

RJ-80

冷卻液迴轉接頭
COOLANT ROTATING JOINT

- 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.



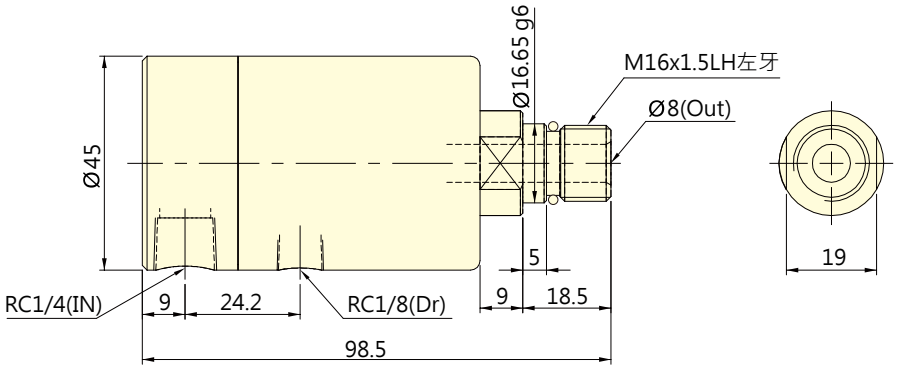
技術規格 SPECIFICATIONS

型號	PV限制值 MPa· r/m	最高使用壓力 MPa(kgf/cm²)	吐出量 (使用壓力 50 kgf/cm²)	最高使用迴轉數(r.p.m.)	重量 (kg)
Model	PV Limit value MPa· r/m	Max. pressure MPa(kgf/cm²)	Delivery amount (at 50 kgf/cm²)	Max. speed (r.p.m.)	Weight (kg)
RJ-80	14400	6.0(60)	28 l/min	8000	0.5

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

- 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 dmaged due to dry touching.
- 最小啟動壓力 4kgf/cm²。
- Min. pressure is 4kgf/cm².



技術規格 SPECIFICATIONS

型號	PV限制值 MPa· r/m	最高使用壓力 MPa(kgf/cm²)	吐出量 (使用壓力 50 kgf/cm²)	最高使用迴轉數 (r.p.m.)	最小啟動壓力 MPa(kgf/cm²)	重量 (kg)
Model	PV Limit value MPa· r/m	Max. pressure MPa(kgf/cm²)	Delivery amount (at 50 kgf/cm²)	Max. speed (r.p.m.)	Min. pressure MPa(kgf/cm²)	Weight (kg)
RJ-92	17500	7.0(70)	28 l/min	10000	0.4(4)	0.46

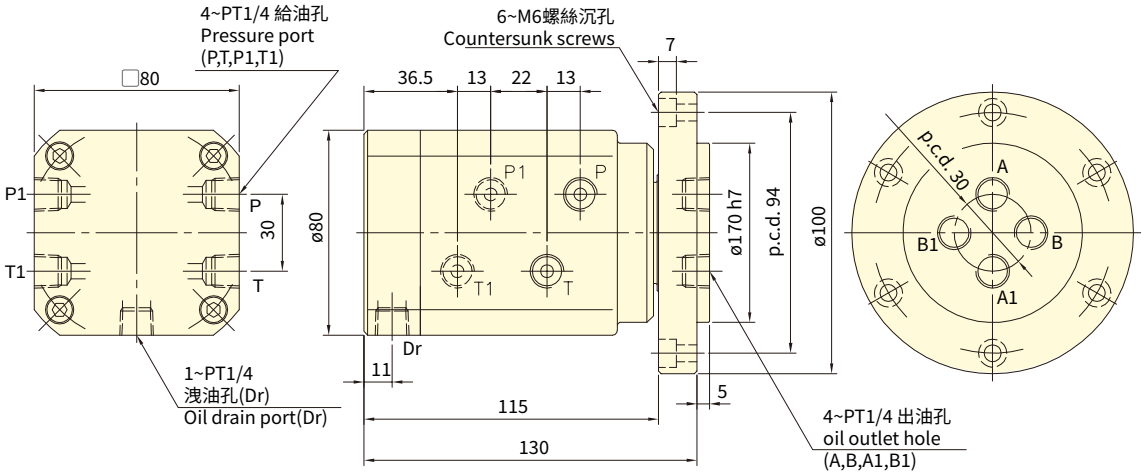
RJ-4E/RJ-5E 油壓迴轉接頭
HYDRAULIC ROTARY JOINT

- 提供4油路 / 4通道及5油路 / 5通道設計，可依需求訂製多路獨立油壓通道。
- 適用於夾緊與鬆開等雙向油壓控制，確保動作精準且可靠，提升作業效率。
- 各通道採用平衡式機械密封。

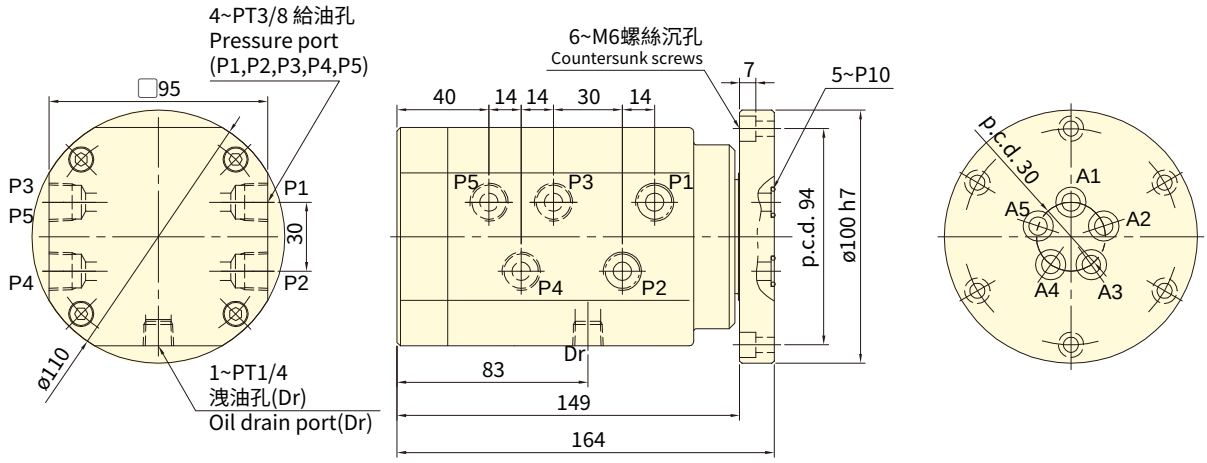
- Available in 4-port / 4-channel and 5-port / 5-channel configurations, with customizable multi-channel hydraulic options upon request.
- Designed for bidirectional hydraulic control such as clamping and unclamping, ensuring precise and reliable operation to enhance productivity.
- Each channel adopts a balanced mechanical seal structure.

- 油路配置、通道數與安裝介面皆可依需求客製化。
- The hydraulic circuit layout, number of passages, and mounting interface can all be customized according to requirements.

Model:RJ-4E



Model:RJ-5E



技術規格 SPECIFICATIONS

型號	分流數	最高迴轉數(r.p.m.)	最高使用壓力 (kgf/cm²)	重量 (kg)
Model	Distributing	Max. speed (r.p.m.)	Max. pressure (kgf/cm²)	Weight (kg)
RJ-4E	4 in / 4 out	3500	35	4.5
RJ-5E	5 in / 5 out	3500	35	7.5

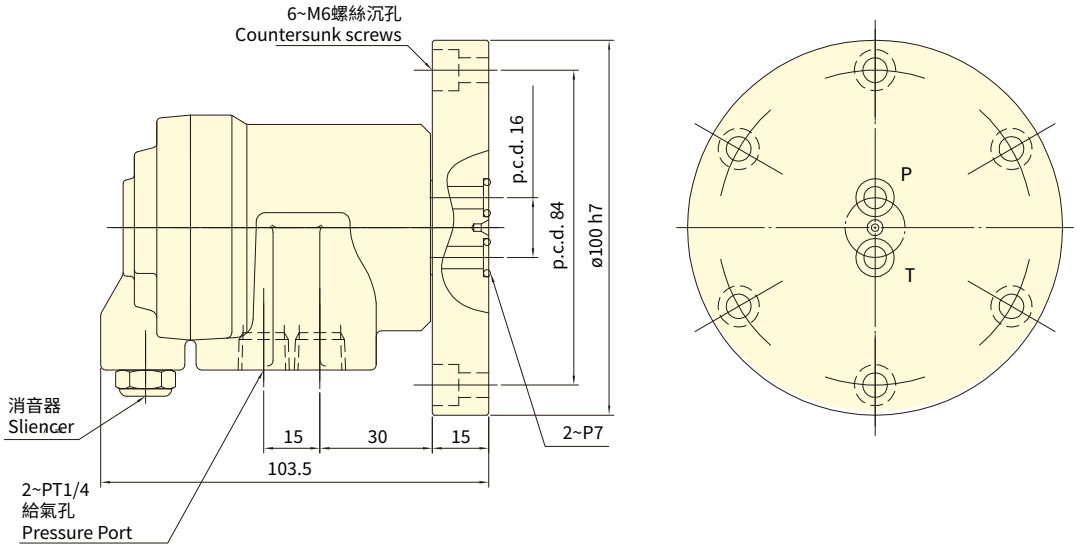
RJ-A2E

空壓迴轉接頭
AIR ROTARY JOINT

- 提供2個壓縮空氣傳輸通道。
- 將多條氣路整合於單一組件，大幅簡化管路配置並節省安裝空間。
- 旋轉阻力極小，運轉平穩順暢，有效節省能源。

- Provides 2 independent channels for compressed air transmission.
- Integrates multiple pneumatic lines into a single component, significantly simplifying piping layout and saving installation space.
- Minimal rotational resistance ensures smooth and stable operation, effectively saving energy.

- 空壓配置、通道數與安裝介面皆可依需求客製化。
- The pneumatic configuration, number of passages, and mounting interface can all be customized according to requirements



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

技術規格 SPECIFICATIONS

型號	分流數	最高迴轉數(r.p.m.)	最高使用壓力 (kgf/cm²)	重量 (kg)
Model	Distributing	Max. speed (r.p.m.)	Max. pressure (kgf/cm²)	Weight (kg)
RJ-A2E	2	3000	8	1.2

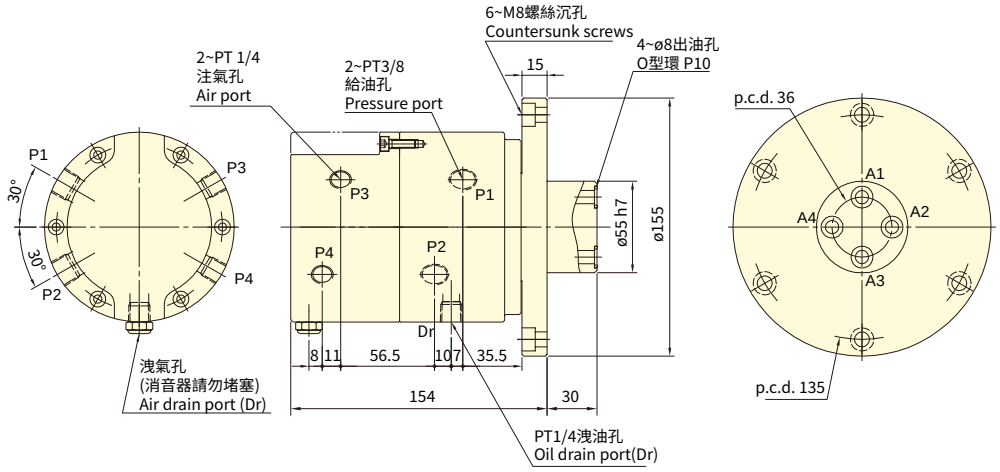
RJ-22HA/RJ-41HA 空油壓型迴轉接頭
COMBINED AIR AND HYDRAULIC ROTARY JOINT

- 2 路油壓 + 2 路氣體的 4 通道設計及4 路油壓 + 1 路氣體的 5 通道設計。
- 支援多介質傳輸，適用於各種複雜加工需求。
- 提供夾緊與鬆開控制，可延伸應用於工件定位檢測、刀具氣體清潔等功能。
- 適用於銑車複合機的分度盤或多軸加工設備。
- 採用高性能密封結構，有效防止油壓外漏，確保長時間穩定運轉。

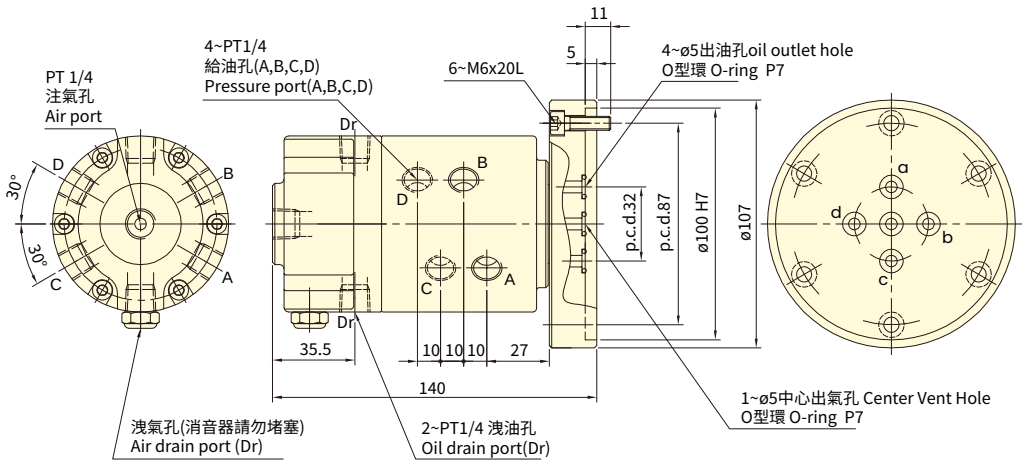
- Available Configurations: 4-Channel (2 Hydraulic + 2 Pneumatic) and 5-Channel (4 Hydraulic + 1 Pneumatic)
- Enables clamping and unclamping control; applicable to workpiece detection, tool air-blow cleaning, and similar automation functions.
- Ideal for rotary tables on mill-turn machines and multi-axis machining centers.
- Features high-performance sealing technology to prevent leakage of oil, ensuring long-term operational stability.

- 空壓、油路配置、通道數與安裝介面皆可依需求客製化，可支援雙介質。
- 可客製配合光學尺整合，提升控制精度與系統連動性。
- Customizable Pneumatic and hydraulic configurations, number of passages, and mounting interface and supports dual media
- Optional integration with optical scales is available for enhanced precision and system synchronization.

Model:RJ-22HA



Model:RJ-41HA



技術規格 SPECIFICATIONS

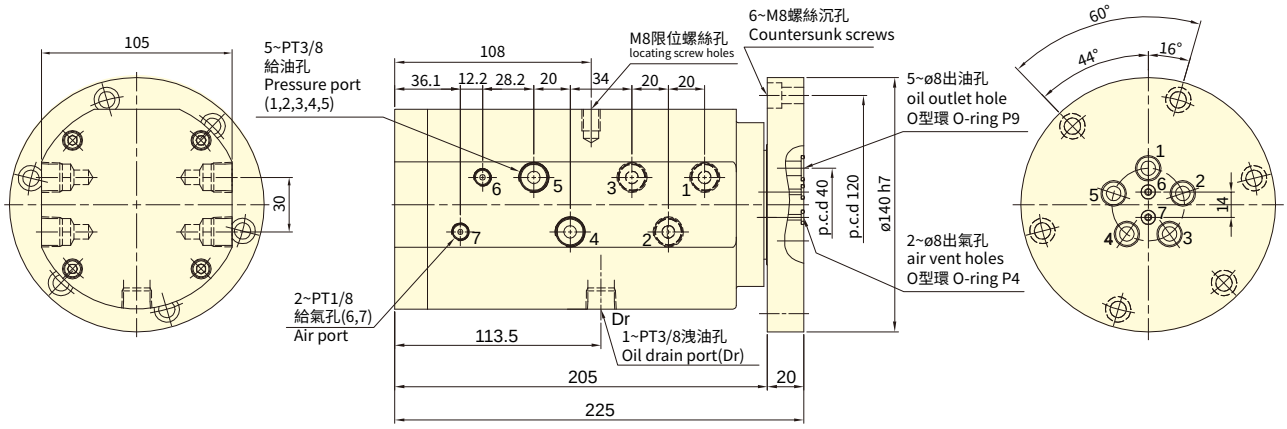
型號	分流數	最高迴轉數(r.p.m.)	最高使用壓力Max. pressure MPa(kgf/cm²)		重量 (kg)
Model	Distributing	Max. speed (r.p.m.)	氣壓Pneumatic	油壓Hydraulic	Weight (kg)
RJ-22HA	2 油 +2 氣	1000	8	60	10.5
RJ-41HA	4 油 +1 氣	3000	8	50	2.95

RJ-52HV 空油壓型迴轉接頭

HYDRAULIC AND AIR ROTARY JOINT

- 5油壓 + 2氣壓 7 通道設計，支援多介質傳輸，適用於同時控制夾緊與鬆開等複合動作。
- 全密封注氣設計，各通道互不干擾，維持壓力穩定，注氣部可支援真空應用。
- 高效密封結構，防止油氣交叉滲漏，提升系統可靠性與加工精度。
- 支援中低速旋轉，適用於多軸工站及複合加工機。
- 5 Hydraulic + 2 Pneumatic Channel Design.
- Supports multi-media transmission, ideal for simultaneous control of clamping and unclamping operations.
- The fully sealed air passage design ensures independent channels for stable pressure, with the pneumatic section also supporting vacuum applications.
- High-performance sealing structure prevents cross-leakage between oil and air, enhancing system reliability and machining accuracy.
- Supports medium to low-speed rotation, suitable for multi-axis workstations and compound machining centers.

- 空壓、油路配置、通道數與安裝介面皆可依需求客製化，可支援雙介質。
- 可客製配合光學尺整合，提升控制精度與系統連動性。
- Customizable Pneumatic and hydraulic configurations, number of passages, and mounting interface and supports dual media
- Optional integration with optical scales is available for enhanced precision and system synchronization.



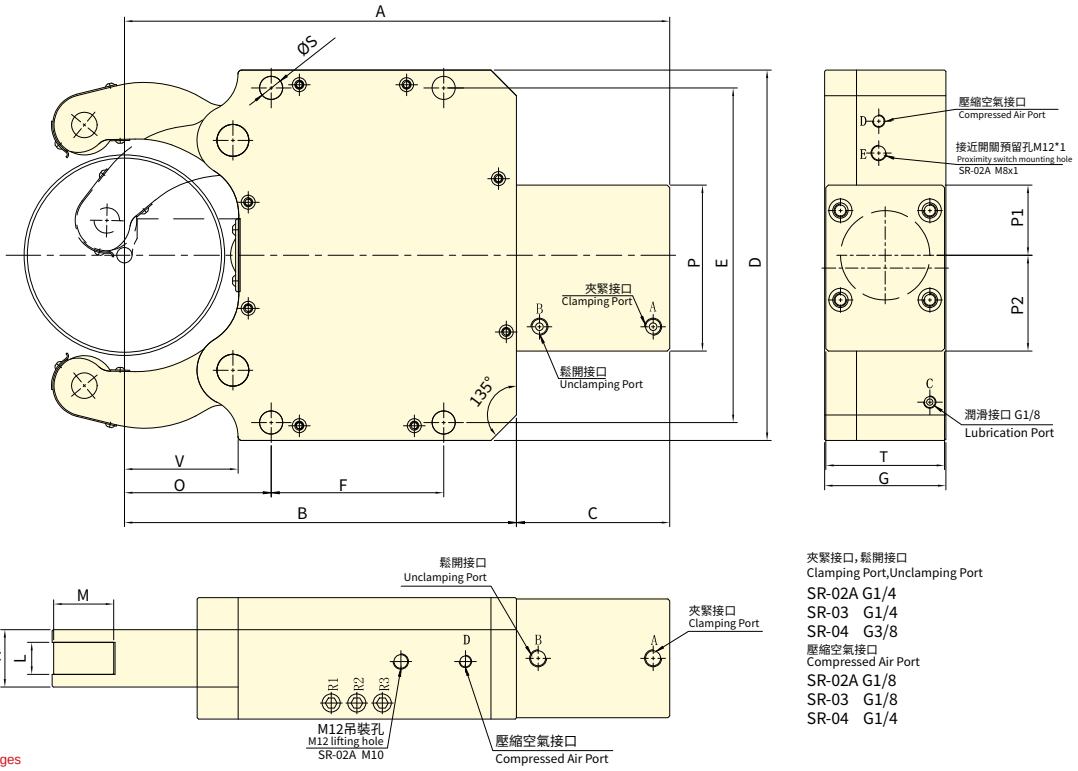
保留規格修改的權利 Subject to technical changes

技術規格 SPECIFICATIONS

型號	分流數	最高迴轉數(r.p.m.)	最高使用壓力Max. pressure (kgf/cm²)		重量 (kg)
Model	Distributing	Max. speed (r.p.m.)	氣壓	油壓	Weight (kg)
RJ-52HV	5 油 + 2 氣	1000	8	70	15.9

- 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.



夾緊接口, 鬆開接口
Clamping Port,Unclamping Port
SR-02A G1/4
SR-03 G1/4
SR-04 G3/8
壓縮空氣接口
Compressed Air Port
SR-02A G1/8
SR-03 G1/8
SR-04 G1/4

技術規格 SPECIFICATIONS

型號	活塞面積	夾持直徑 Chucking 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 Max.	最小 Min.	Max. clamping force	Max. roller surface speed	Max. pressure	Clamping accuracy	Repeat accuracy	clamping weight	Weight
	cm^2	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

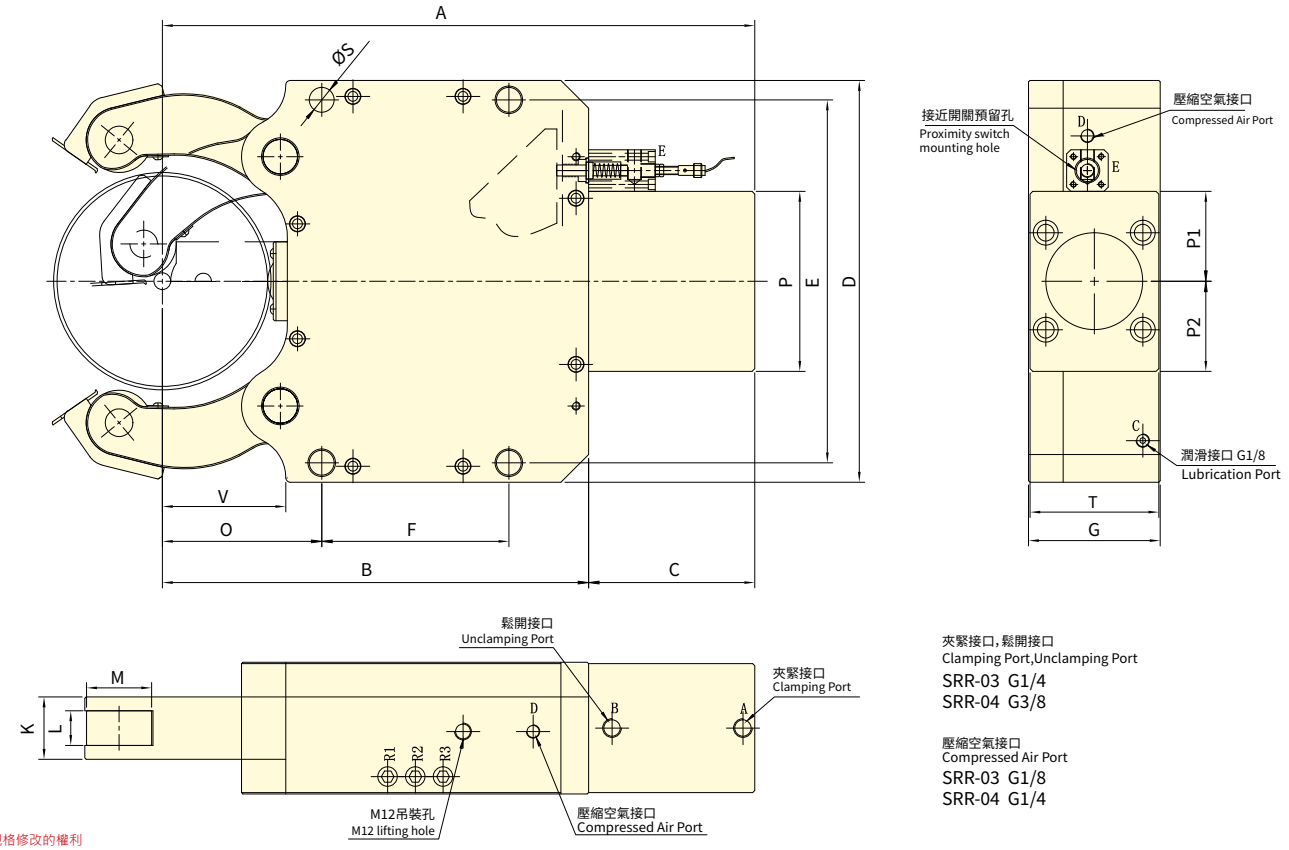
外型尺寸 DIMENSIONS

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 (Width of rollers) (滾輪厚度)	M (Diameter of rollers) (滾輪直徑)	P	P1	P2	S	T	V
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

技術規格 SPECIFICATIONS

型號	活塞面積	夾持直徑 Chucking 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 Max.	最小 Min.	Max. clamping force	Max. roller surface speed	Max. pressure	Clamping accuracy	Repeat accuracy	clamping weight	Weight
	cm^2	mm	mm	kN (kgf)	M/min.	bar	mm	mm	kg	kg
SRR-03	38.5	152	12	10.2(1040)	750	65	0.04	0.007	1000	39
SRR-04	63.5	245	30	15(1529)	760	60	0.05	0.007	1500	98

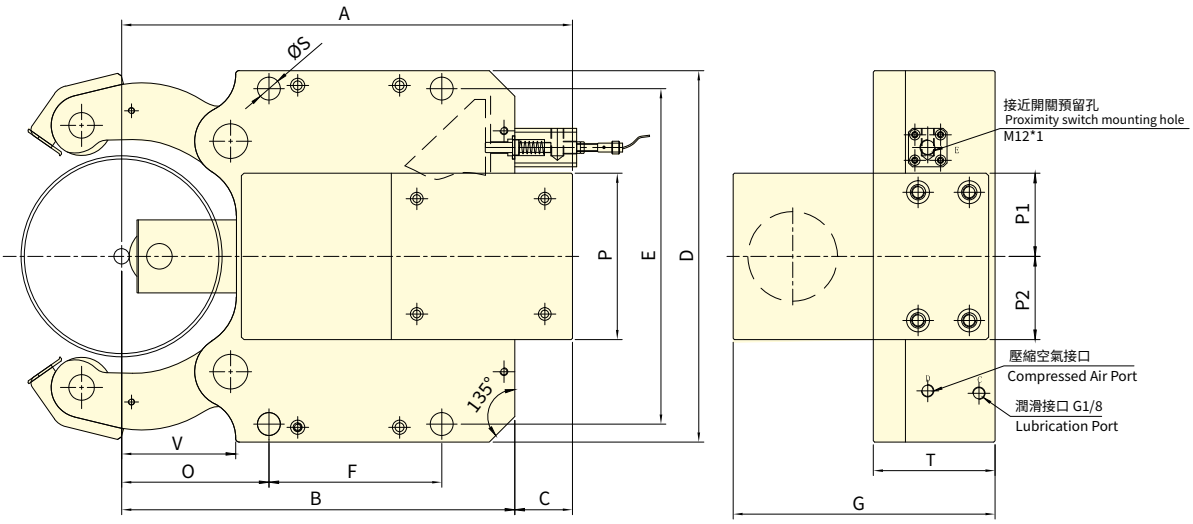
外型尺寸 DIMENSIONS

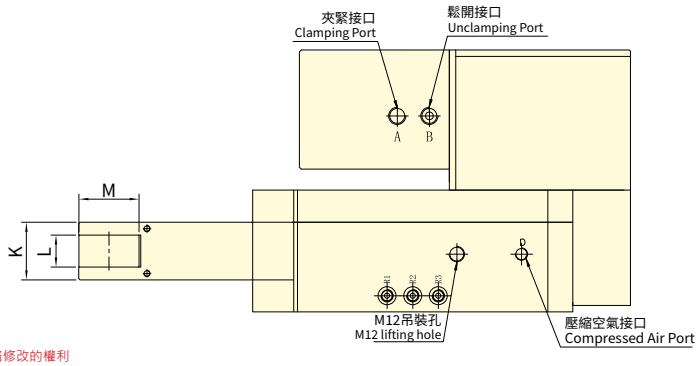
Model	A	B	C	D	E	F	G	O
SRR-03	427	307	120	290	262	135	95	115
SRR-04	603	448	155	405	365	240	110	146

Model	K	L (Width of rollers) (滾輪厚度)	M (Diameter of rollers) (滾輪直徑)	P	P1	P2	S	T	V
SRR-03	45	25	47	130	65	65	18	93	89
SRR-04	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.





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

壓縮空氣接口
Compressed Air Port
SRB-03 G1/8
SRB-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 Chucking 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 Max.	最小 Min.	Max. clamping force	Max. roller surface speed	Max. pressure	Clamping accuracy	Repeat accuracy	clamping weight	Weight
	cm^2	mm	mm	kN (kgf)	M/min.	bar	mm	mm	kg	kg
SRB-03	38.5	152	12	10(1019)	850	55	0.04	0.007	1000	44
SRB-04	63.5	245	30	15(1529)	750	75	0.05	0.007	1500	115

外型尺寸 DIMENSIONS

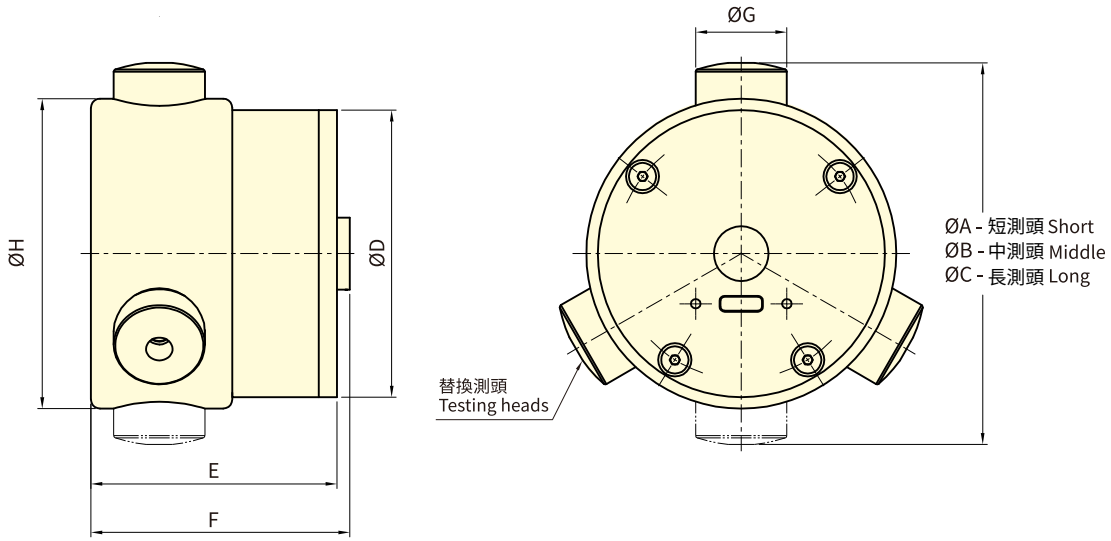
Model	A	B	C	D	E	F	G	O
SRB-03	352	307	45	290	262	135	204.5	115
SRB-04	480	448	32	405	365	240	245	146

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

GFS-100 夾持力感測器
GRIPPING FORCE SENSOR

- 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.



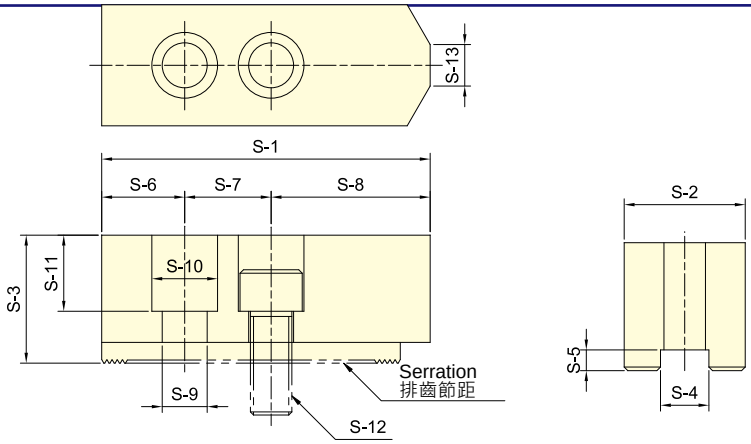
技術規格 SPECIFICATIONS

型號	夾持範圍 / 單爪夾持力	最高轉速	夾持範圍	準確度
Model	Range / Gripping Force	Max. Speed	Gripping range	Accuracy
	(kN)	(r.p.m.)	(mm)	
GFS-100	6 - 100	6000	70 , 84 , 104	±2%

外型尺寸 DIMENSIONS

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

標準生爪 (一)
STANDARD SOFT BLANK JAW



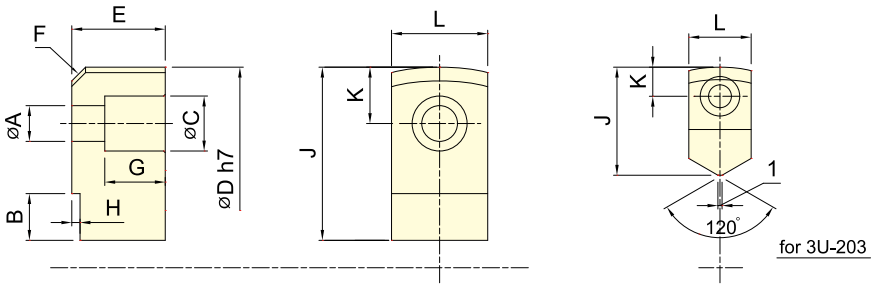
外型尺寸 DIMENSIONS

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

型號 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	S-13	排齒節距 Serration Pitch	適用夾頭 Matching Chuck	三爪重量 3 Jaw Weight kg
SJ-04	52	23	23	10	5	10	14	28	9	14	13	M8	3	1.5 × 60 °	3H-204, 3P-04	0.5
SJ-05	62	25	30	10	5	10	14	38	9	14	20	M8	3.5	1.5 × 60 °	3H-205, 3L-205, 3P-05, 3M-05	0.8
SJ-06	73	31	36	12	5	15	20	38	11	17	24	M10	14	1.5 × 60 °	3H-206, 3L-206, 3P-06, 3M-06	1.5
SJ-08	95	35	37	14	5	24	25	46	13	19	22	M12	16	1.5 × 60 °	3H-208, 3L-208, 3P-08, 3M-08	2.4
SJ-10	110	40	42	16	5	30	30	50	13	19	27	M12	18	1.5 × 60 °	3H-210, 3L-210, 3P-10, 3M-10	3.7
***SJ-12H**	130	50	50	21	5	40	30	60	17	25	30	M16	23	1.5 × 60 °	3H-12, 3H-212, 3L-212, 3V-12, 3P-12, 3M-12	6.3
SJ-12P	130	50	50	18	5	40	30	60	16	23	30	M14	23	1.5 × 60 °	3H-12, 3H-212, 3L-212, 3V-12, 3P-12, 3M-12	6.5
SJ-15H	165	62	62	22	8	37	43	85	21	32	37	M20	-	1.5 × 60 °	3H-15, 3H-215, 3H-18, 3L-15, 3P-215, 3P-218, 3V-15, 3V-18	12.6
***SJ-15P**	165	62	62	25.5	6	37	43	85	21	32	37	M20	-	1.5 × 60 °	3H-15, 3H-215, 3H-18, 3L-15, 3P-215, 3P-218, 3V-15, 3V-18	12.5
SJ-21	180	64	70	25	9	40	60	80	21	32	45	M20	-	3.0 × 60 °	3H-221, 3H-224, 3H-232, 3P-221, 3P-224, 3V-21, 3V-24, 3V-32 3M-221, 3M-224, SP-320, SP-324	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

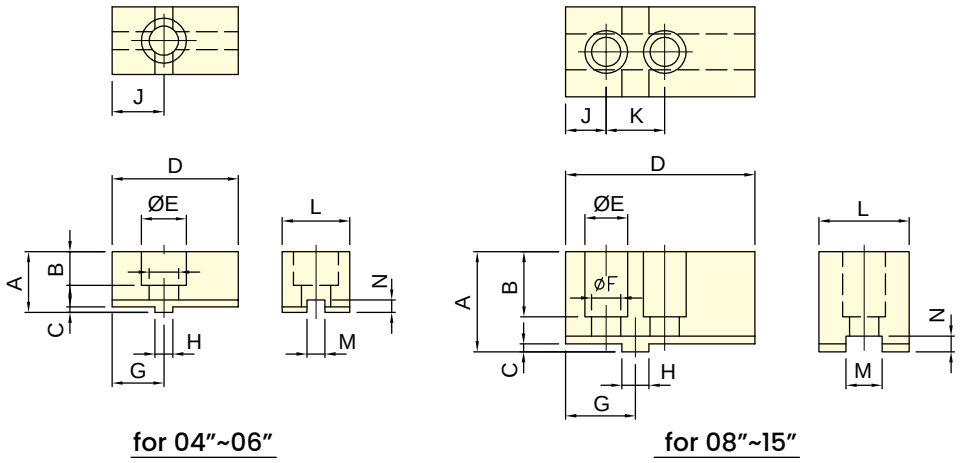


外型尺寸 DIMENSIONS

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

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

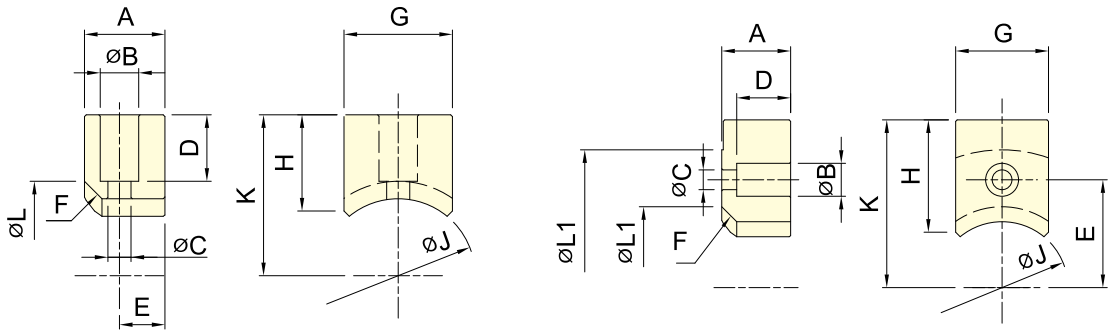


保留規格修改的權利
Subject to technical changes

外型尺寸 DIMENSIONS

型號 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



標準生爪A型
TYPE A

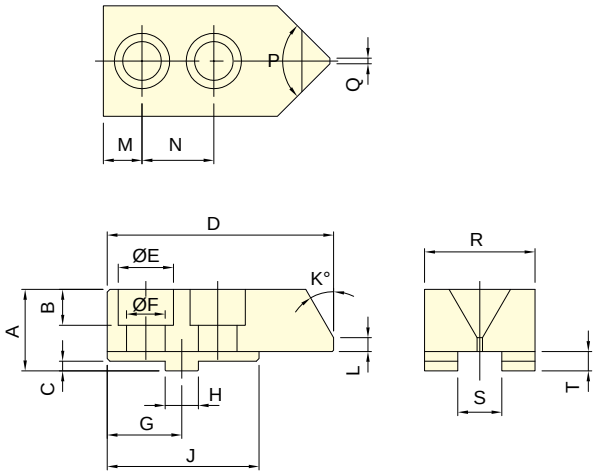
標準生爪B型
TYPE B

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

外型尺寸 DIMENSIONS

型號 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

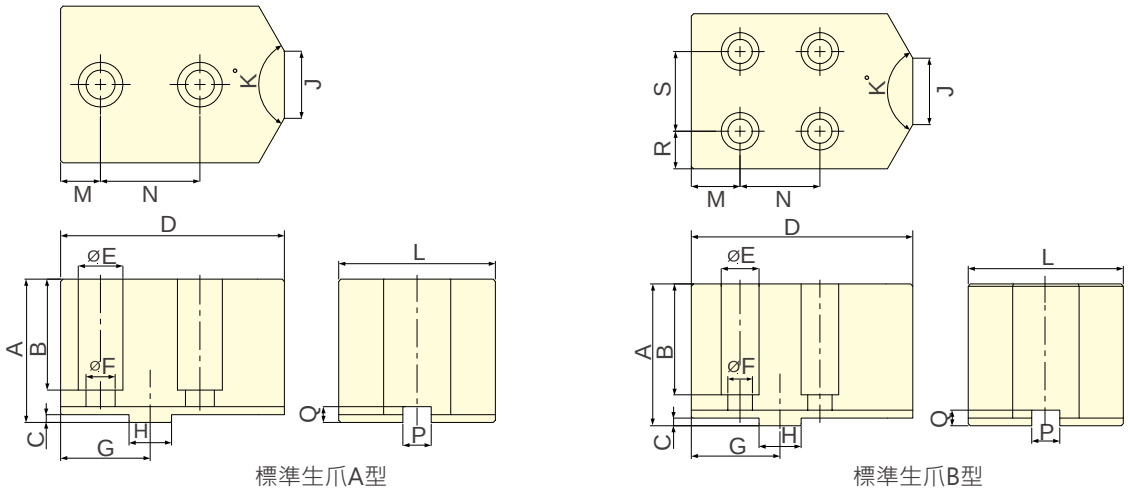
3R 夾頭之標準生爪 Standard Soft Jaw for 3R chuck



外型尺寸 DIMENSIONS

型號 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



標準生爪A型
TYPE A

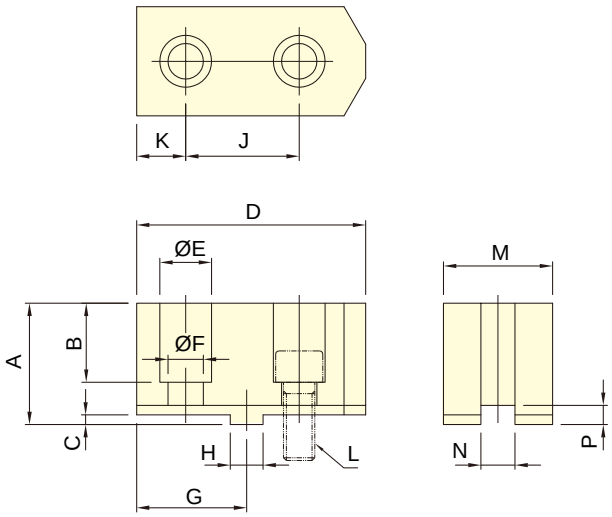
標準生爪B型
TYPE B

外型尺寸 DIMENSIONS

型號 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.

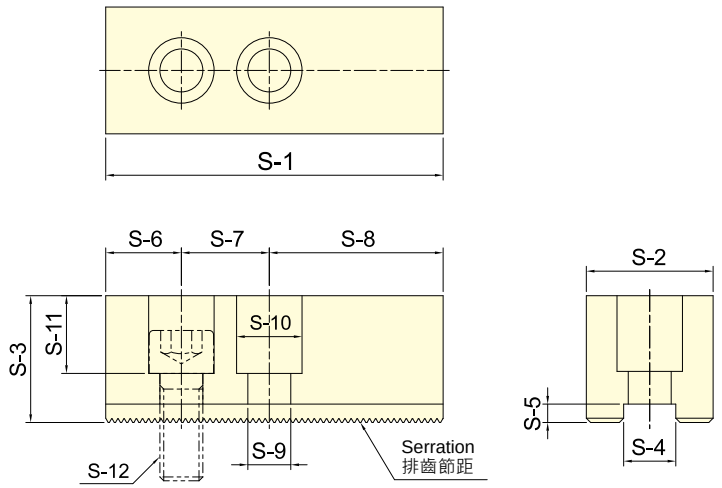
3MF 夾頭之標準生爪 Standard Soft Jaw for 3MF chuck



外型尺寸 DIMENSIONS

型號 MODEL	A	B	C	D	E	F	G	H	J	K	L	M	N	P	三爪重量 (kg) 3 Jaw Weight
3MF-20	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



外型尺寸 DIMENSIONS

型號 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 Serration Pitch	適用夾頭 Matching Chuck	三爪重量 (kg) 3 Jaw Weight
SJ-185	165	62	62	25.5	9	37	43	85	21	32	38	M20	3.0 × 60 °	AP-145, AP-185	12.2
SJ-275	180	64	70	25.5	9	40	60	80	21	32	45	M20	3.0 × 60 °	AP-230, AP-275	16.1
SJ-320	210	75	80	30	9	40	60	110	26	38	55	M24	3.0 × 60 °	AP-320, AP-375	24.7

標準硬爪 (一)
STANDARD HARDENED JAW

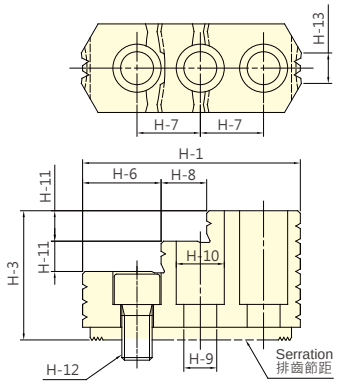


Fig. 1

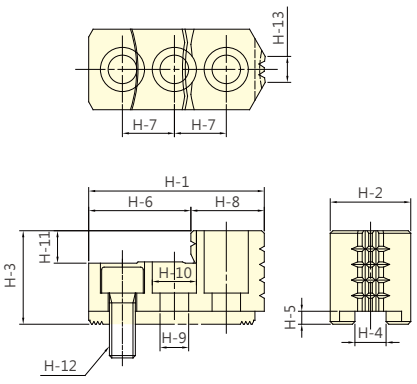


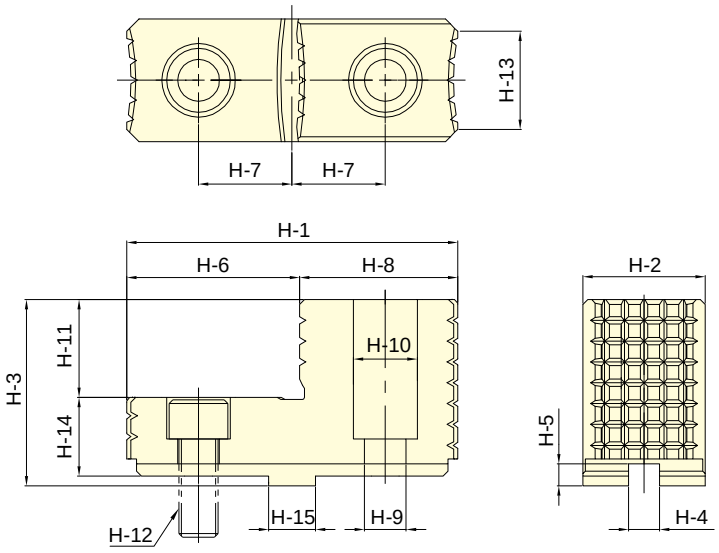
Fig. 2

外型尺寸 DIMENSIONS

型號 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 Serration Pitch	適用夾頭 Matching Chuck	三爪重量 3 Jaw Weight kg	參考圖 Reference Drawing
HJ-05	54.2	23	28	10	4	31.1	14	23.1	8.5	13.5	10	M8	3.6	1.5 × 60 °	3H-204, 3H-205	1	Fig.2
HJ-06	67.6	31	36	12	5	40.2	20	27.4	11	17	12	M10	9.3	1.5 × 60 °	3H-206, 3P-06	1.7	Fig.2
HJ-08	86.1	35	51	14	5	33.5	25	18.4	13	19	12	M12	14	1.5 × 60 °	3H-208, 3P-08	2	Fig.1
HJ-10	100	40	54	16	5	39.5	30	22.5	13	19	13	M12	15	1.5 × 60 °	3H-210, 3P-10	3	Fig.1
***HJ-12H**	100.2	50	52	21	5	64.7	30	35.5	17	25	17	M16	31.5	1.5 × 60 °	3H-12,3H-212, 3L-212, 3V-12,3P-12, 3M-12	3.5	Fig.2
***HJ-12P**	100.2	50	52	18	5	64.7	30	35.5	15	23	17	M14	31.5	1.5 × 60 °	3H-12,3H-212, 3L-212, 3V-12,3P-12, 3M-12	3.6	Fig.2
***HJ-15H**	140.7	62	86	22	8	62.5	43	34	21	32	20	M20	43	1.5 × 60 °	3H-15, 3H-215, 3H-18, 3L-15 3V-15, 3V-18,3P-215, 3P-218	9.6	Fig.1
***HJ-15P**	140.7	62	86	25.5	6	62.5	43	34	21	32	20	M20	43	1.5 × 60 °	3H-15, 3H-215, 3H-18, 3L-15 3V-15, 3V-18,3P-215, 3P-218	9.5	Fig.1
HJ-21	153.5	80	90	25	9	103.7	50	49.8	21	32	40	M20	56.5	3.0 × 60 °	3H-221, 3H-224, 3H-232, 3P-221, 3P-224, 3V-21, 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.

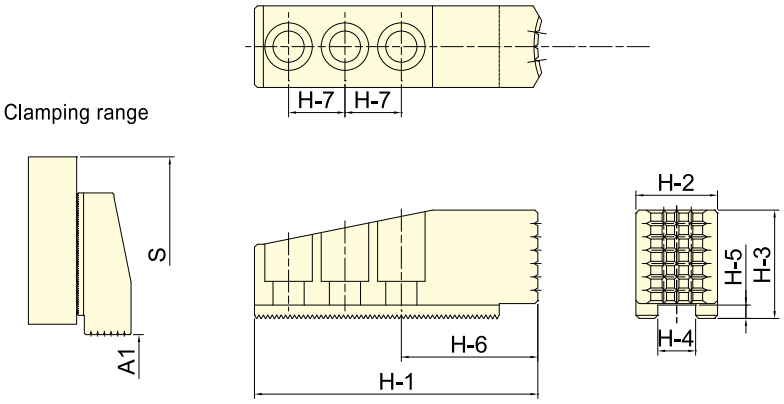
3MF 標準硬爪
STANDARD HARDEN JAW FOR 3MF CHUCK



外型尺寸 DIMENSIONS

型號 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 Matching Chuck	三爪重量 kg 3 Jaw Weight
3MF-20	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 HARDEN JAW FOR AP CHUCK



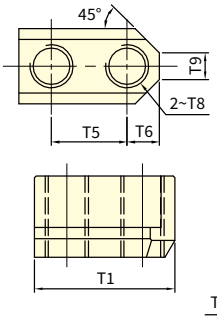
保留規格修改的權利 Subject to technical changes

外型尺寸 DIMENSIONS

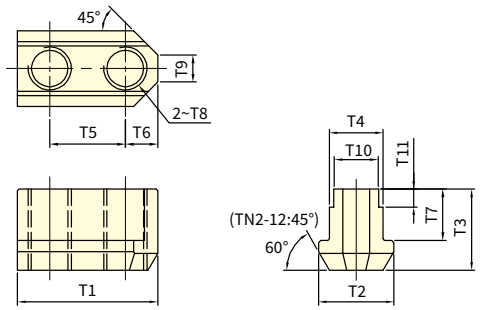
型號 Model	H-1	H-2	H-3	H-4	H-5	H-6	H-7	A1	S	排齒節距 Serration Pitch	適用夾頭 Matching Chuck	三爪重量 kg 3 Jaw Weight kg
HJ-145	191	55	73	25.5	9	92	38	30-125	420	3.0 × 60 °	AP-145	12.5
HJ-145	191	55	73	25.5	9	92	38	35-165	460	3.0 × 60 °	AP-185	12.5
HJ-145	191	55	73	25.5	9	92	38	55-240	535	3.0 × 60 °	AP-230	12.5
HJ-145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

T-NUT

T 形螺帽
T-NUT



TN 1



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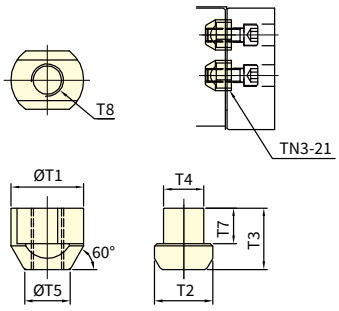

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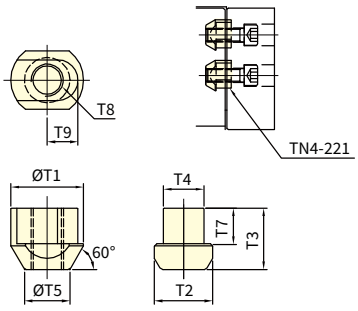

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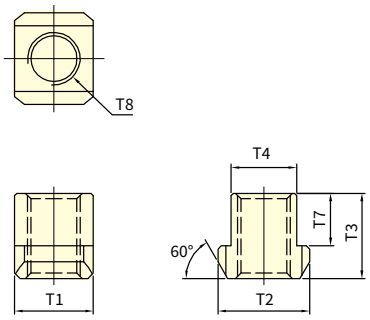


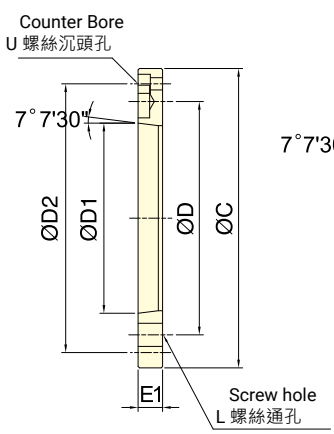
TN 5

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

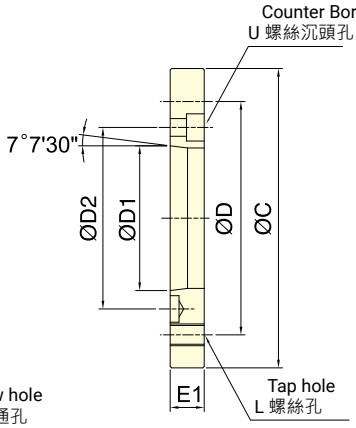
外型尺寸 DIMENSIONS

型號 Model	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	適合夾頭 Matching Chuck	三只重量 3 Pcs Weight kg
TN1-04	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
TN1-06	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
TN1-08	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
TN1-10	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
*** TN1-12**	55.5	29.5	28	21	30	12	16.5	M16	13	-	-	P-12, L-12, M-12	0.63
TN2-12	55.5	29.5	28	21	30	12	16.5	M14	13	18	4.5	P-12, L-12, M-12	0.63
*** TN1-15**	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
TN2-15	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
*** TN1-212**	56	29.5	23.5	21	30	12	12	M16	10	-	-	H-12, H-212, L-212, V-12, 4T-15 , AP-115	0.63
TN2-212	56	29.5	23.5	21	30	12	12	M14	10	18	4	H-12, H-212, L-212, V-12, 4T-15, AP-115	0.63
*** TN1-215**	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
TN2-215	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
TN3-21	46	37.5	45	25	26	-	26	M20	-	-	-	P-221, P-224, M-221, M-224, V-21, V-24, V-32,	1.84
TN4-221	45	36	38	25	28	-	22	M20	19	-	-	H-221, H-224, H-232, SP-320, SP-324	0.63
TN5-185	32	35	30	25.5	-	-	19	M20	-	-	-	AP-145, AP-185, AP-230, AP-275	0.15
TN5-320	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.)



FL1



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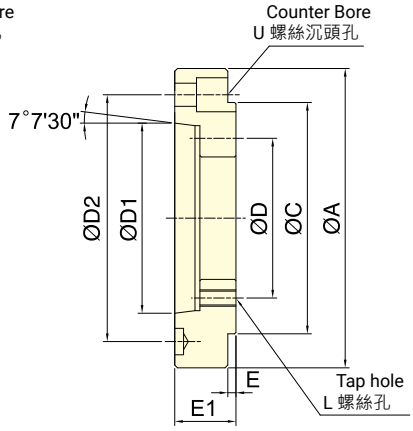


FL3

外型尺寸 DIMENSIONS

Model	A	C	D	D1	D2	E	E1	L	U	備註 Remark	重量 Weight (kg)
FL3-04A24	110	85	70.6	63.513	82.6	8	28	M10	M10	3H-204, 2H-204	1.12
FL3-04A25	140	85	70.6	82.563	104.8	5.5	32	M10	M10	3H-204, 2H-204	2.28
FL1-05A24	-	110	82.6	63.513	96	-	15	M10	M6	3H-205, 2H-205, 3L-05, 2L-05, 3J-05, 2J-05	0.65
FL3-05A25	135	110	82.6	82.563	104.8	6	30	M10	M10	3H-205, 2H-205, 3L-05, 2L-05	1.99
FL1-06A25	-	140	104.8	82.563	116	-	15	M10	M6	2H-206, 4H-206, 3H-206, 3P-06, 2P-06, 3M-06, 2M-06, 3E-06, 3D-06, 2D-06, 3N-06, 3J-06, 2J-06	0.96
							*18			*3L-206, *2L-206	
FL3-06A26	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, 3M-06, 2M-06, 3E-06, 3D-06, 2D-06, 3N-06, 3J-06, 2J-06	3.12
FL2-08A25	-	170	133.4	82.563	104.8	-	23	M12	M10	3H-208, 2H-208, 4H-208, 3P-08, 2P-08, 3M-08, 2M-08, 4T-08, 3E-08, 3D-08, 2D-08, 3N-08, 3J-08, 2J-08, 3R-08, 3W-08, 3Q-08	2.7
										*3L-208, *2L-208,	
FL1-08A26	-	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, 3E-08, 3D-08, 2D-08, 3N-08, 3J-08, 2J-08, 3R-08, 3W-08, 3Q-08	1.55
							*23			*3L-208, *2L-208	
FL2-10A26	-	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, 3L-212, 2L-12, 3P-12, 2P-12, 3M-12, 2M-12, 4T-10, 4T-12, 3E-10, 3D-10, 2D-10, 3N-10, 3J-10, 2J-10, 3R-10, 3Q-10, 3W-10, 3W-12	5.02
FL1-10A28	-	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, 2M-10, 3H-12, 2H-12, 4H-12, 3L-212, 2L-12, 3P-12, 2P-12, 3M-12, 2M-12, 4T-10, 4T-12, 3E-10, 3D-10, 2D-10, 3N-10, 3J-10, 2J-10, 3R-10, 3Q-10, 3Q-12, 3W-10, 3W-12	2.73
FL2-15A28	-	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, 3M-15, 2M-15, 4T-15, 3H-18, 4H-18, 3P-218	12.52
FL1-15A211	-	300	235	196.869	260	-	22	M20	M10	3H-15, 3H-212, 2H-15, 4H-15, 3L-15, 2L-15, 3P-215, 2P-15, 3M-15, 2M-15, 4T-15, 3H-18, 4H-18, 3P-218	6.03
FL2-21A28	-	380	330.2	139.719	171.4	-	33	M24	M16	3H-215, 3P-221, 3P-224	22.05
FL2-21A211	-	380	330.2	196.869	235	-	40	M24	M20	3H-215	16.28
							*27			*3P-221, *3P-224	
FL1-21A215	-	380	330.2	285.775	330.2	-	27	M24	M12	3H-215, 3H-18B, 3H-221, 3P-221, 3P-224	8.6
FL2-40A215	-	520	463.6	285.775	330.2	-	40	M24	M24	3H-224	43.26
FL1-40A220	-	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.

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

- 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.

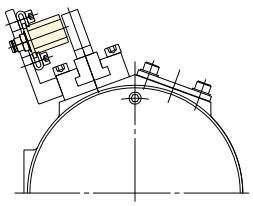
■ 行程確認裝置。(選配) The proximity switch is optional.

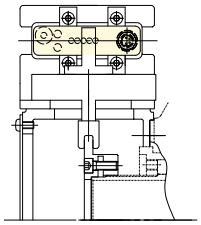
電壓	負荷容量	輸出規格
Power supply	Switching cap.	Output tpye
DC 10/30V	100mA	NPN

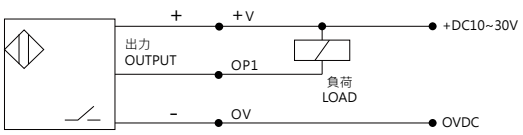
■ 端子連接 Terminal Connections

+V	OP1	OV
棕 BROWN	黑 BLACK	藍 BLUE

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







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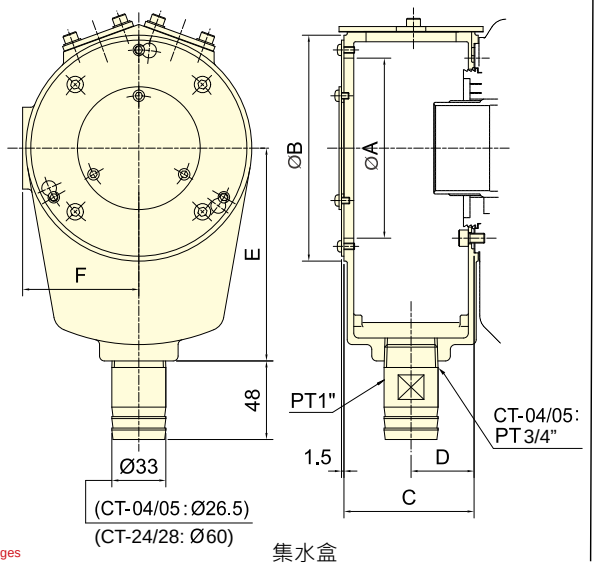
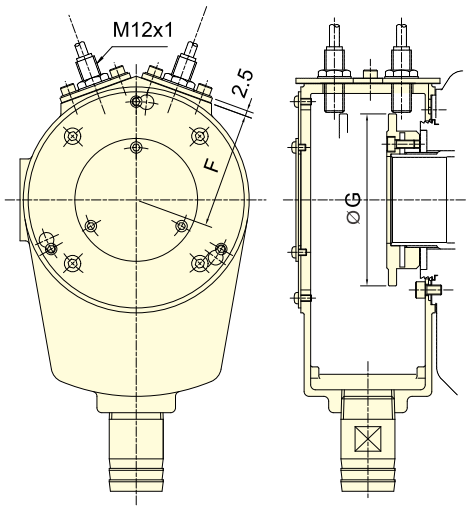


集水盒
Coolant Collector

CT-S



集水盒與檢出環
Coolant Collector with Detecting Ring

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

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

- 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Ø40和Ø60(選購品)。
- Ø60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 Ø40 and Ø60 are optional product.
- Drain port Ø60 only use to CT-S08B,CT-S10B,CT-S12B.

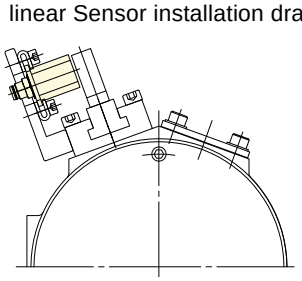
■ 行程確認裝置。(選配) The proximity switch is optional.

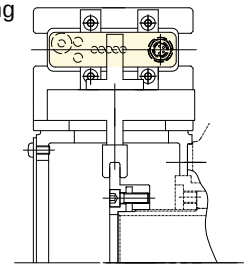
電壓	負荷容量	輸出規格
Power supply	Switching cap.	Output tpye
DC 10/30V	100mA	NPN

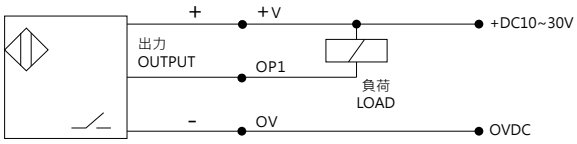
■ 端子連接 Terminal Connections

+V	OP1	OV
棕 BROWN	黑 BLACK	藍 BLUE

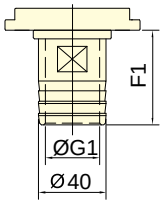
■ 線性檢知裝置安裝示意圖
linear Sensor installation drawing



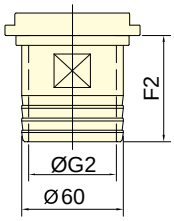




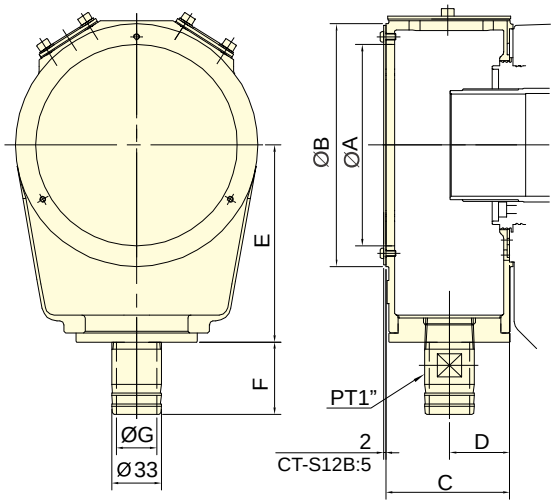
CT-SB



Ø 40 排水管接頭
Drain port
為選配件

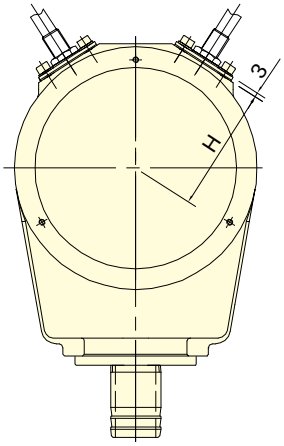


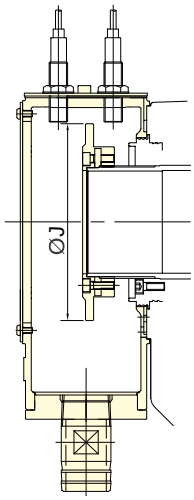
Ø 60 排水管接頭
Drain port
為選配件
(只適用於Only use to
CT-S08B/CT-S10B/CT-S12B)



集水盒
Coolant Collector

CT-SBS



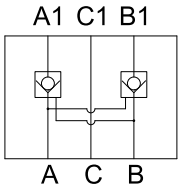


集水盒與檢出環
Coolant Collector with Detecting Ring

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

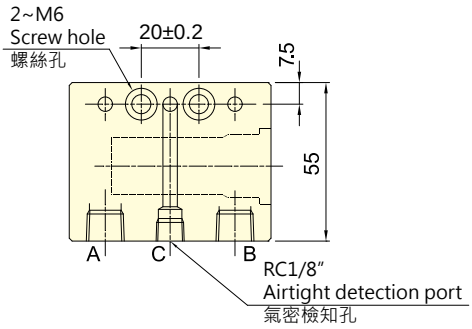
外型尺寸 DIMENSIONS

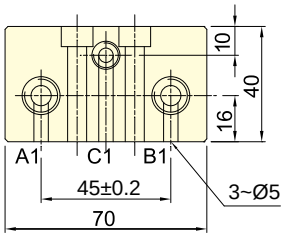
Model	A	B	C	D	E	F	F1	F2	G	G1	G2	H	J	重量Weight (kg)		適用迴轉缸
														CT-SB	CT-SBS	Matching cyl.
CT-S05B/CT-S05BS	97	120	68.3	33.3	96	49.6	56	-	25	32	-	62	86	1.1	1.6	TS-539, TR-539
CT-S08B/CT-S08BS	133	160	82	40	130	49.6	56	63	25	32	52	82	130	0.9	1.4	TS-866
CT-S10B/CT-S10BS	160	188	88	43	148	49.6	56	63	25	32	52	96	148	1.16	2.9	TS-1081
CT-S12B/CT-S12BS	205	234	87	43.5	171	49.6	56	63	25	32	52	121	190	4.3	5.6	TS-1210



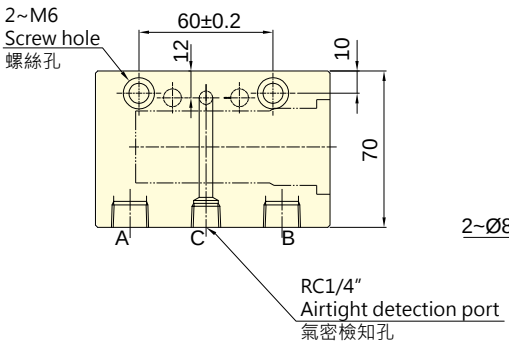
Circuit drawing
迴路圖

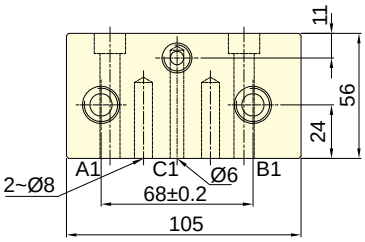
Model:FV-01



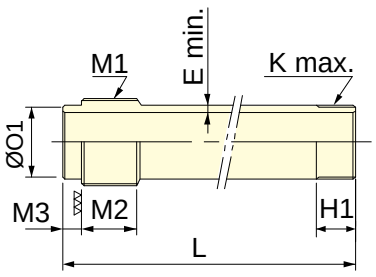


Model:FV-03



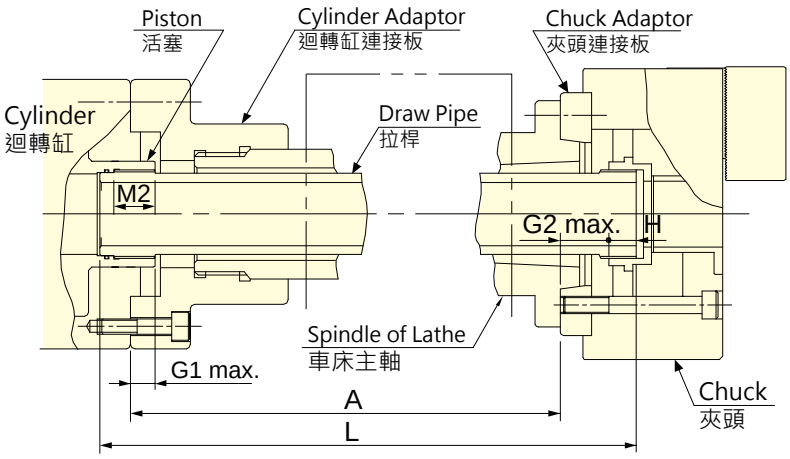


中空拉桿長度計算
THE CALCULATION OF DRAW TUBE LENGTH



中空拉桿詳圖 Detail of Draw Tube

L=A+G2max.+H-G1max.+M2+M3



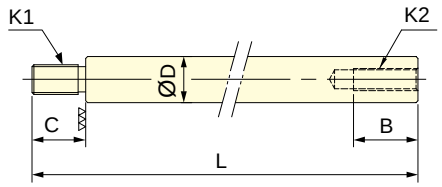
技術規格 SPECIFICATIONS

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

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

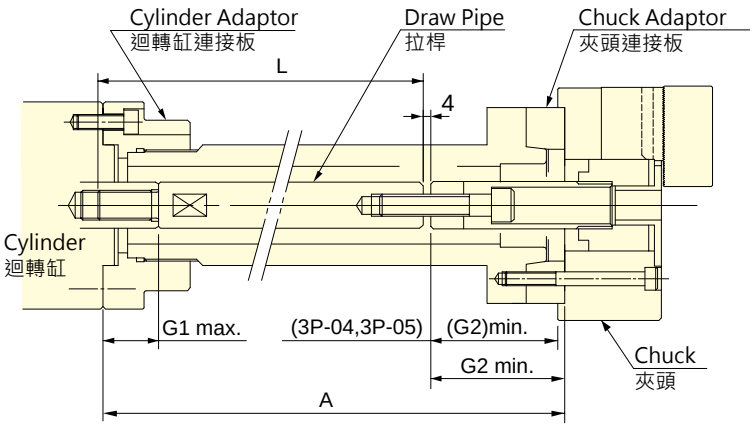
註 : 2H,4H 型式之拉桿長度計算同 3H、3H-2 型式。(Note:To calculate the draw-tube length of 2H,4H as 3H,3H-2.)

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



中實拉桿詳圖 Detail of Draw Bar

L=A-G1max.-G2min.-4+C



技術規格 SPECIFICATIONS

夾頭型式 Chuck type	迴轉缸型式 Cylinder type	B	C	D	G1 max.	G2 min.	K1	K2	L
3P-04	RK-75(N)/RA-130	30	30/20	30/25	45	3	M20x2.5/M16x2	M10x1.5	A-22/A-32
3P-05	RK-75(N)/RA-130	40	30/20	30/25	45	-6	M20x2.5/M16x2	M12x1.75	A-13/A-23
3P-06	RK-100(N)/RA-170	40	30/25	30/25	45	81.5	M20x2.5/M16x2	M16x2	A-101/A-106
3P-08	RK-125(N)/RA-220	40	40/30	35/30	50	106	M24x3/M20x2.5	M20x2.5	A-120/A-130
3P-10	RK-125(N)/RA-220	40	40/30	35/30	50	133	M24x3/M20x2.5	M20x2.5	A-147/A-157
3P-12	RK-150(N)/RA-270	40	40/35	45/35	55	133	M30x3.5/M24x3	M20x2.5	A-152/A-157
3P-215	RK-200(N)/RH-200	60	55	55	70	69	M36x4	M30x3.5	A-88
3P-218	RK-200(N)/RH-200	60	55	55	70	57	M36x4	M30x3.5	A-76
3P-221	RK-200(N)/RH-200	60	55	55	70	62	M36x4	M30x3.5	A-81
3P-224	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 Chuck type	迴轉缸型式 Cylinder type	B	C	D	G1 max.	G2 min.	K1	K2	L
3M-05	RK-75(N)	40	30	30	45	-2	M20x2.5	M12x1.75	A-17
3M-06	RK-100(N)	40	30	30	45	81.5	M20x2.5	M16x2	A-101
3M-08	RK-125(N)	40	40	35	50	106	M24x3.0	M20x2.5	A-120
3M-10	RK-150(N)	40	40	35	50	135	M24x3.0	M20x2.5	A-148
3M-12	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.)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佳賀精機股份有限公司
AUTOGRIP MACHINERY CO., LTD.
513006 彰化縣埔心鄉明聖路一段229號
No. 229, Sec. 1, Mingsheng Rd., Puxin Township,
Changhua County 513006, Taiwan
T +886-4-822-8719
F +886-4-823-5719
E sales@autogrip.com.tw
www.autogrip.com.tw

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