



蛻變 以應萬變！



潭興精工新廠示意圖

TANSHING®

潭興精工企業有限公司

TANSHING ACCURATE INDUSTRIAL CO., LTD.

台灣42743台中市潭子區潭興路一段165巷1-1號
NO.1-1, Lane 165, Sec.1, Tan-shing Rd., Tan-Tzu,
Taichung 42743, Taiwan

TEL : +886-4-2538-4978 FAX : +886-4-2538-4980
http : //www.tanshing.com E-mail : tanshing@ms16.hinet.net

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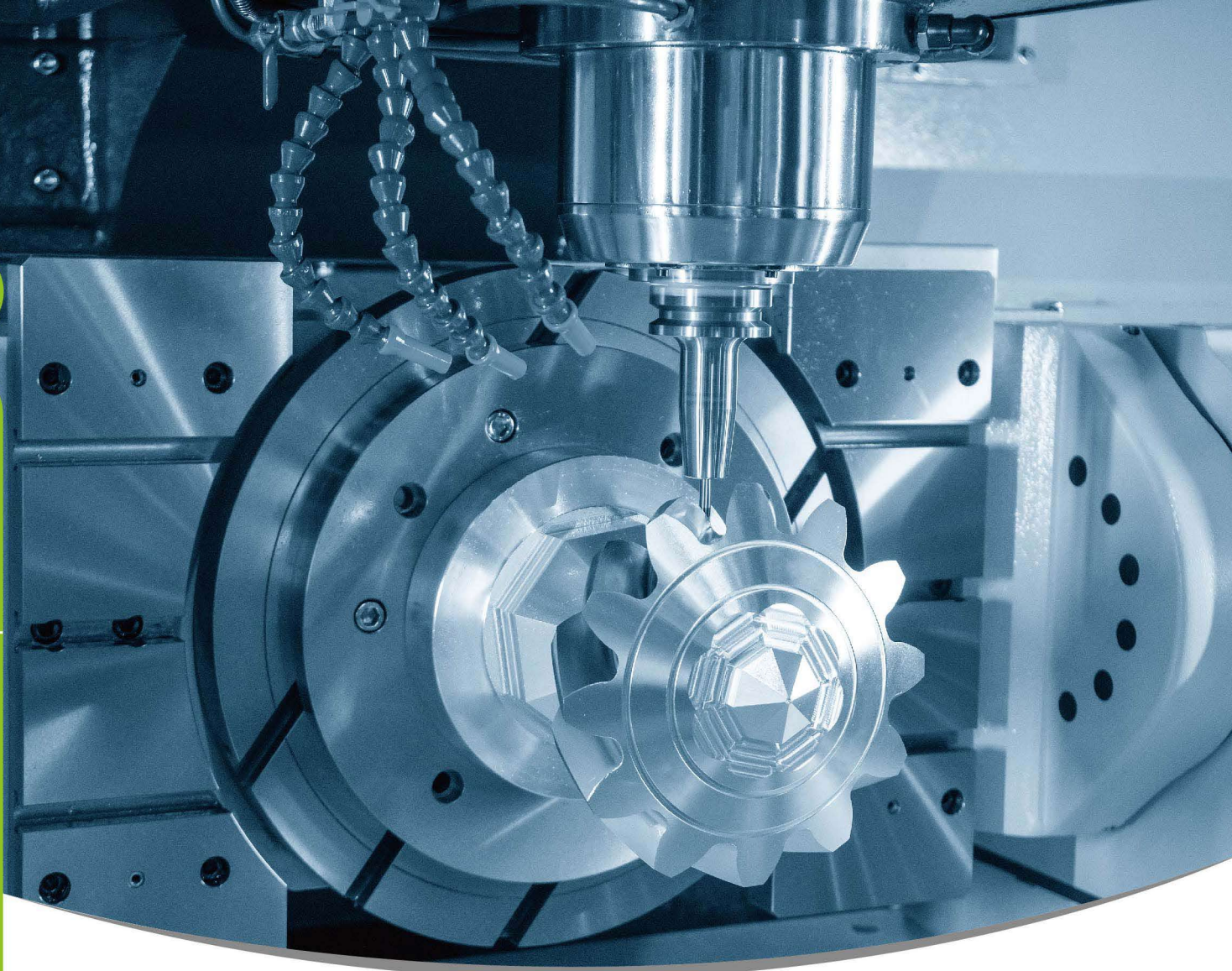
在黑暗的時刻
我們仍堅持**創新研發**
讓自己發光發亮

Catalogue
ROTARY
T A B L E
TECHNOLOGY



精準是唯一的標準

www.tanshing.com

**技術創新，追求卓越**

維持產品品質，並研發新技術、新產品，成為產業領頭羊。

**優質服務，創造價值**

提供客戶專業的服務，並致力於服務品質提升，發展良好顧客關係。

**育成人才，專業培訓**

人盡其才、適才適所，精進員工技能、提供多元面向發展，升遷制度透明化。

**在地創業，永續經營**

提供當地就業機會、促進經濟繁榮，善盡企業社會責任。

潭興精工自1994年成立「TANSHING」品牌以來，專注於分度盤製造加工，透過精確分析、嚴格品管以及專利技術，持續研發優良精密的產品，提供工具機及專用機的第四軸、第五軸等高品質分度盤。

提供無窮的創造力

歷經超過半世紀的淬煉，專業製造技術早已存在我們的DNA裡，潭興精工深入市場與了解客戶需求，以豐富的經驗提供分度盤全方位解決方案，包含OEM與ODM。

「創新」一直是潭興精工堅持的理念，而核心技術是產品創新的基礎，我們持續投入研發資源並精進生產技術，不斷優化分度盤產品作為目標使命。

潭興精工通過ISO-9001認證，並領先業界首創雙導程傳動系統，取得台灣製造專利。

當長久使用，造成蝸桿與蝸輪產生背隙，可利用雙導程傳動系統將蝸桿進行軸向橫移，利用由小而大的漸進式螺紋做精密齒隙調節，就能克服蝸桿蝸輪在長時間使用下所產生的背隙，再次獲得高精度的轉台。

Since the establishment of the "TANSHING" brand in 1994, Tanshing Accurate has focused on the manufacturing and processing of indexing plates. Through accurate analysis, strict quality control and patented technology, we continue to develop excellent and precise products, providing the fourth axis of machine tools and special machines. High-quality indexing plate with fifth axis.

Providing endless creativity

After more than half a century of tempering, professional manufacturing technology has already existed in our DNA. Tanshing Accurate goes deep into the market and understands customer needs. With rich experience, it provides a full range of indexing solutions, including OEM and ODM.

"Innovation" has always been the philosophy that Tanshing Accurate adheres to, and the core technology is the basis of product innovation. We continue to invest in R&D resources and improve production technology, and continuously optimize the index plate products as the target mission.

Tanshing Accurate has passed ISO-9001 certification and is the industry's first dual-lead drive system.

Backlash, which is between worm spindle and worm wheel, is increasing during lifetime of a rotary table. The dual-lead drive system can adjust this backlash by shifting the worm spindle in the axial direction, because the worm spindle is formed with progress thread from small to large. Therefore, the rotary table can be easily maintained in original accuracy.





潭興產品依不同加工條件選擇適合機型非常廣泛，高荷重型、高剛性型、高轉速型、高精度型、高壽命型、零背隙型、及超高荷重10~30噸級大型轉台、液靜壓轉台、均可接受訂製，另有多款新型五軸機、搖擺頭等，產品一應俱全。

TANSHING products can be selected depending on different machining conditions. A wide range of models, such as the type of high load, high rigidity, high speed, high precision, long life span, zero backlash, ultra-high load 10~30 tons large rotary table, and hydrostatic table can be customized. In addition, there is a variety of new five-axis rotary table, swing head rotary, etc. The complete series are available in our product line.

潭興研發團隊能力足以面對各種加工需求，任何客制配件均可快速規劃，接受訂製例如：轉速、載重提升等...，同類型直驅旋轉工作台，已大量安裝於國內外各工具機大廠，其他產品功能應用、組裝、檢測等技術成熟歡迎各工具機廠&加工廠與敝司營業技術單位洽詢。

TANSHING's R&D team is capable of dealing with a variety of machining requirement, such as speed and load capacity improving. Any customized accessories can be planned and designed quickly. The same type of rotary table with direct drive motor has been widely installed at domestic and foreign machine tool manufacturers. Our techniques for the function application of product, assembly and testing are well-developed. We welcome machine tool manufactures and machining shop to contact with us for any kind of inquiry.



TDXT-HS630/800雙軸雙臂搖籃高速銑車複合旋轉工作台 TDXT-HS630/800 dual-axis dual-arm cradle(3DD)mill-turn rotary table

創新3組DD直驅馬達搖籃結構設計，A軸2組DD直驅馬達同時驅動，對稱結構以重心平衡驅動，展現高響應無背隙高精度傳動正逆轉重現性高，C軸馬達具備銑削與車削模式，可用於立臥兩用車削，切換銑削模式可用於五軸同動雕銑。

This rotary table is created with an innovative cardle structure of 3 sets of DD direct drive motors .A-axis has and 2 sets of DD direct drive motors with symmetrical structure and is driven by balanced center of gravity to achieve high response,no backlash,high accuracy,and excellent repeatability.C-axis motor has milling and turning functions,which can achieve applications such as vertical lathing,horizontal lathing,milling and even grinding.

新產品採用高速DD扭力馬達，一台能真正達到車銑功能的轉台技術！

The new product equipped with high-speed DD torque motor can really meet the turning & milling machining requirement.

本系列產品提供客戶多樣客製化需求，最高轉速0~2000rpm僅0.3秒，可當車床車削使用，輕輕鬆鬆整合高速銑車複合五軸機、簡潔處理管線問題、經濟實惠型設計、高剛性結構、穩定性的精度。可選用ETEL、FANUC、三菱、上銀...等各廠DD扭力馬達。

This series of products provide the customers with diversified custom-made requirements. It takes only 0.3 seconds from 0 to max. 2000rpm. It features milling and turning functions which can meet the machining requirement of mill-turn complex machine and 5 axis machine center. This series product comes with the design of simple plumbing configuration, economic and affordable, high rigidity structure, stability accuracy and ETEL, FANUC, MITSUBISHI, HIWIN,...etc., DD torque motor can be used on this series rotary table.

系列機型盤面 $\varnothing 125\sim\varnothing 800\text{mm}$ ，適用於天車式、立式、小龍門、攻鑽機等加工機。優勢：具備氣壓迷宮、正壓裝置、斷電煞車裝置、高速軸承得到 μ 級迴轉精度，預留氣/油壓迴路及氣密檢知，與機械手搭配連線，更完全符合自動化要求，提供產業邁向工業4.0智慧製造生產技術接軌的最佳利器。

The worktable diameter of this series models range from $\varnothing 125\sim\varnothing 800\text{mm}$, suitable for Gantry type machine, Vertical type machine, double column type machine and Tapping center ... etc. This series model features air labyrinth, positive pressure device, power off clamping device, high-speed bearings to obtain μ -level rotation precision, pneumatic/hydraulic circuit preserved and air tight detection. Connected with the robot, it can fully meet the automation requirements and provide the machine industry with the best tool of moving toward Industry 4.0 smart manufacturing technology integration.



UHM系列搖擺式CNC旋轉分度盤 UHM Series Swing CNC Rotary Indexer

搭配高速銑車複合旋轉工作台、輕鬆整合車銑複合功能五軸機器。

特性：• 高剛性結構 • 穩定的精度 • 經濟實惠型 • 整合任何廠牌電主軸 • 輕輕鬆鬆整合五軸機 • 簡潔處理管線的問題

Combined with high speed milling-turning compound rotary table, it is easy to integrate the milling-turning multi-functional five axis machine.

Features: • High rigidity structure • Stability accuracy • Economic and practical type • Integrate any brand of electric spindle • Easy integration for 5 axis machines • Simple handling of pipeline problems



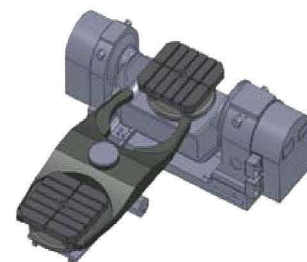
TRNC-2W系列雙軸(5軸)雙主軸旋轉工作台 TRNC-2W series double axis (5 axis) double spindle rotary table

功能：與母機連結具有五軸同動功能(或4+1軸)，一次上下料同時完成兩件工件的五面與斜孔加工，減少母機停機時間，可讓工作人員可操作多台機器，提升加工效率。

Function: Connected with machine center for 5-axis simultaneous function (or 4+1 axis). One-time loading and unloading at the same time to complete the 5 faces and angle hole machining on two work-pieces, reduce the machine downtime, allow staff to operate multiple machines, and improve processing efficiency.

特色：獨特一體式結構設計，可讓承載重心得到最佳幾何剛性，雙軸採高精度高剛性滾子軸承，採雙導程蝸桿蝸輪組與簡易獨立背隙調整結構，傳動定位精度高。

Features: Unique one-piece structure design, can make the bearing center of gravity get the best geometric rigidity. This series adopts high-precision and high-rigidity roller bearings, and also adopts dual lead worm wheel & gear and simple & independent backlash adjustment structure to obtain high transmission and positioning accuracy.



線軌移動交換式搖籃五軸 Rail movement exchange cradle five axis

630x630交換式工作台

交換旋轉方式可選擇油壓排齒或伺服馬達驅動。採用高精度定位錐座夾持，重現精度 $\pm 5\mu\text{m}$ 以內。交換座底部線性滑軌介面，可客製化選擇多點倉儲式工作台。

The worktable exchange can be controlled by hydraulic teeth or servo motor drive. High-accuracy positioning cone holder, reproduction accuracy with $\pm 5\mu\text{m}$.

The bottom of the exchange block with linear slide interface, can be customized to choose more storage workstations.



卡客車鋁鍛圈加工專用4+1軸搖籃式分度盤 4+1 axis cradle type rotary table for car aluminum forging rim machining

加工鋁鍛圈直徑:16"~26"。認何一家立加均可直接安裝使用。可選用自動夾具，搭配機械手臂做自動化生產。A/C軸可選擇潭興單軸控制器。

Aluminum forged rim diameter: 16"~26". This type can be installed for use on any Vertical machine center. Automatic fixtures can be selected for automated production with robot arms. TANSHING's single axis controller is optional for A/C axis.





經營理念
Business philosophy

P1

研發創新的精神
R&D and innovation

P2

產品創新領先
Innovative Products

P3

目錄
Index

P5

電腦數控分度盤 CNC Rotary Table

(標準型 Standard Type)

● VRNC-A125/170/210



P7

● VRNC-A125-L/170-L/210-L



P9

● VRNC-A125A-F/170-F/210-F/255-F



P11

● MRNC-255/255-N/320/320-N/400/400-N



P13

● MRNC-255-F/255-T/320-T/400-T



P15

● MRNC-500/63A/800A



P17

● MRNC-HD800/1000A/A1500



P19

● HRNC-500S/630S/800S/1000/1650



P21

● HRNC-HD1515/HD1618/HD2020



P23

(大孔徑型 Big Bore Type)
● BRNC-255A/320A/40A/500



P25

(直驅式馬達型 Direct Drive Motor Type)

● DRT-125/255A/320/400



P27

(多連軸型 Multi-spindle Type)

● VRNC-A125/170/210(2W/3W)



P29

● RNC-50/100/A115C (2W/3W/4W)



P31

電腦數控齒式分度盤 CNC Index Table

● MINC-255/320/400/500A



P33

● HINC-400S/A500S/630S/800S/A1000S



P35

油壓精密分度盤 Hydraulic Index Table

● MIHC-255V/320V/470V/500V



P37

● MIHC-340H/470H/600H/800H



P39

● SWT-600×1000/SWT-700×910



P41

4 1/2 軸電腦數控分度盤 CNC Manual Tilting Rotary Table

● TVRNC-125/170/210



P43

● TMRNC-255/320/400



P45

電腦數控五軸分度盤 CNC Tilting Rotary Table

● TRNC-125-H/170C/210C/255A/255B



P47

● TRNC-321/400/500A/650K



P49

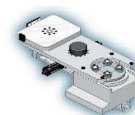
● TDRT-125A/650/TDAT-255/320/TDMT-650



P51

自動交換工作台 Auto Pallet Changer

● APC-400-H/500-H/630-H/800-H



P53

臥式數控旋轉工作台 Table For Horizontal Machining Center

● ACR-400S/500S/630S/ACRC-800S/1000S



P55

臥式數控齒式工作台 Index Table For Horizontal Machining Center

● ACI-400S/500S/630S/ACIC-800S/1000S



P57

搖擺式轉盤 Swing Head

● UHP-30/40/50/UHM-30/40



P59

尾座 Tailstock

手動&自動尾座 Manual & Auto Tailstock

● TS/TTS/HTS/PTS/HTTS/PTTS Series



P60

圓盤尾座 Rotary Tailstock

● RTS Series



P61

● 選擇配件
Optional Accessories

P62 P63

● 標準精度檢驗表
Inspection Standard

P64

● 專業術語說明
Explanation of Technical Terms

P65

● 詳細規格選用表
Detailed Specifications

P66



標準型 Standard Type

型號選用說明 Item instruction

VRNC-A125

① ② ③ ④ ⑤

- ① 氣壓系統 Pneumatic system
② 0.001°分割 0.001° positioning
③ 伺服控制 Servo control
④ 版次 Edition
⑤ 盤面直徑 Table diameter

- 旋轉台直徑 Ø125, Ø170, Ø210 mm
- 馬達安裝在右邊 (立、臥兩用)
- 使用高精度之Cross Roller 軸承
- 獨特高齒深的複導程蝸桿傳動
- 氣壓系統

- Worktable diameter Ø125, Ø170, Ø 210 mm
- Motor is mounted at the right. (Vertical & Horizontal applications)
- Employs high precision cross roller bearings
- Exclusive dual lead worm drive.
- Air operated.



VRNC-A125



►使用高精度之Cross Roller 軸承。
Employs high precision cross roller bearings.

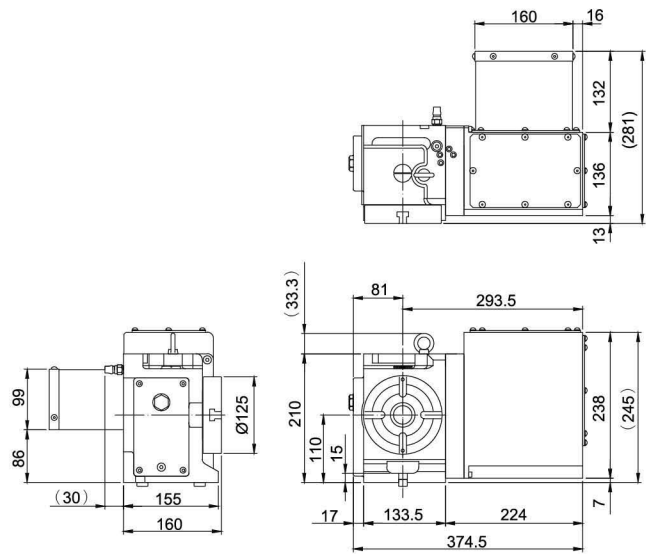
規格 / 型號 Specifications / Model		單位 Unit	VRNC-A125	VRNC-170	VRNC-210
旋台直徑 Worktable Diameter		mm	Ø125	Ø170	Ø210
工作台高度 Table Height	臥式位置 Horizontal	mm	160	152	152
中心高度 Center Height	立式位置 Vertical	mm	110	135	160
中心孔直徑 Center Bore Diameter		mm	Ø30 ^{H7}	Ø35 ^{H7}	Ø45 ^{H7}
貫穿孔徑 Through-Hole Diameter		mm	Ø30	Ø35	Ø45
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}	12 ^{H7}	12 ^{H7}
導塊寬度 Width Of Guide Block		mm	14 ^{H7}	18 ^{H7}	18 ^{H7}
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	40"	20"	20"
重複精度 Repeatability		sec.	4"	4"	4"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF2	αiF4	αiF4
	MITSUBISHI		HF-75S	HF-104S	HF-104S
	SIEMENS		1FK7042	1FK7060	1FK7060
	HEIDENHAIN		QSY96A	QSY116C	QSY116C
總減速比 Speed Reduction Ratio			1/90	1/90	1/90
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	44.4	44.4	44.4
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	85(8.5)	147(15)	147(15)
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	5 (Pne.)	5 (Pne.)	5 (Pne.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	78.4(8)	78.4(8)	156.8(16)
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	50	75	75
	臥式安裝時 Horizontal	kg	100	150	150
	使用尾座時 With Tail-Stock	kg	100	150	150
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	9700(989)	14000(1428)	14000(1428)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	78.4(8)	78.4(8)	156.8(16)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	410(41.8)	1020(104)	1020(104)
容許負載慣性矩 Allowable Inertia Force		kg.m ² (kg.cfm.sec ²)	0.2(1.99)	0.54(5.5)	0.83(8.4)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	32	47	55

註：1. 接線盒可選擇置放於分度盤之側方、上方或後方位置。 Note: 1. Choice of junction box location at side, top or back of the rotary table.
2. 伺服馬達鋁金罩長度依不同馬達而變更。 2. The length of servo motor guard plate varies with different servo motors.

尺寸圖 Dimensions

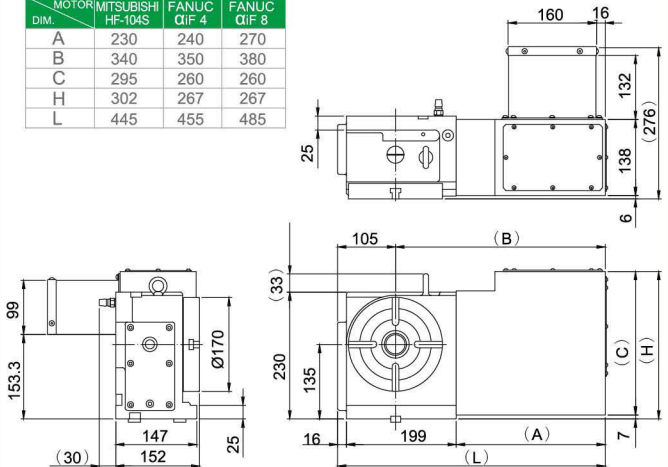
單位 Unit : mm

VRNC-A125



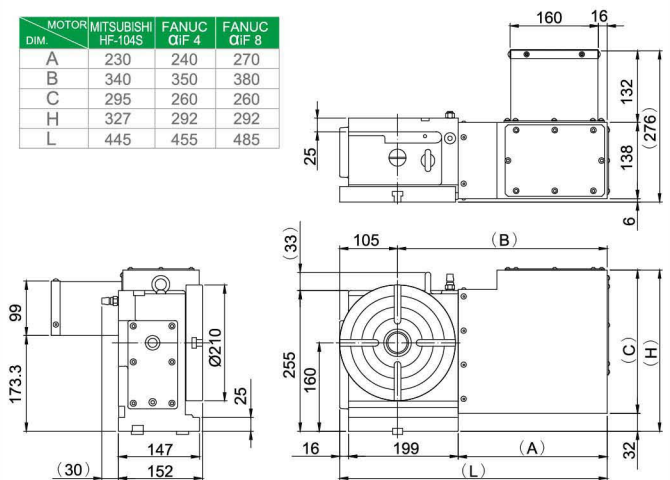
VRNC-170

MOTOR	MITSUBISHI HF-104S	FANUC αiF 4	FANUC αiF 8
A	230	240	270
B	340	350	380
C	295	260	260
H	302	267	267
L	445	455	485



VRNC-210

MOTOR	MITSUBISHI HF-104S	FANUC αiF 4	FANUC αiF 8
A	230	240	270
B	340	350	380
C	295	260	260
H	327	292	292
L	445	455	485



標準型 Standard Type

型號選用說明 Item instruction

VRNC-210-L

① ② ③ ④ ⑤

- ① 氣壓系統 Pneumatic system
 - ② 0.001° 分割 0.001° positioning
 - ③ 伺服控制 Servo control
 - ④ 盤面直徑 Table diameter
 - ⑤ 馬達位置 Motor position
- L: 左手型 Left-handed

- 旋轉台直徑 Ø125、Ø170、Ø210 mm
- 馬達安裝在左邊（立、臥兩用）
- 使用高精度之Cross Roller 軸承
- 獨特高齒深的複導程蝸桿傳動
- 氣壓系統

- Worktable diameter Ø125, Ø170, Ø210 mm
- Motor is mounted at the left. (Vertical & Horizontal applications)
- Employs high precision cross roller bearings
- Exclusive dual lead worm drive.
- Air operated.



VRNC-210-L

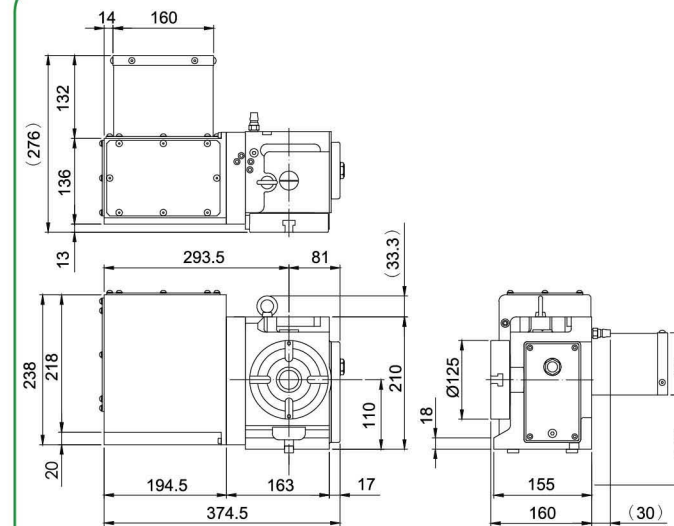
規格 / 型號 Specifications / Model		單位 Unit	VRNC-A125-L	VRNC-170-L	VRNC-210-L
旋台直徑 Worktable Diameter		mm	Ø125	Ø170	Ø210
工作台高度 Table Height	臥式位置 Horizontal	mm	160	152	152
中心高度 Center Height	立式位置 Vertical	mm	110	135	160
中心孔直徑 Center Bore Diameter		mm	Ø30 ^{H7}	Ø35 ^{H7}	Ø45 ^{H7}
貫穿孔徑 Through-Hole Diameter		mm	Ø30	Ø35	Ø45
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}	12 ^{H7}	12 ^{H7}
導塊寬度 Width Of Guide Block		mm	14 ^{H7}	18 ^{H7}	18 ^{H7}
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	40"	20"	20"
重覆精度 Repeatability		sec.	4"	4"	4"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF 2	αiF 4	αiF 4
	MITSUBISHI		HF-75S	HF-104S	HF-104S
	SIEMENS		1FK7042	1FK7060	1FK7060
	HEIDENHAIN		QSY96A	QSY116C	QSY116C
總減速比 Speed Reduction Ratio			1/90	1/90	1/90
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	44.4	44.4	44.4
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	83.3(8.5)	147(15)	147(15)
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	5(Pne.)	5(Pne.)	5(Pne.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	78.4(8)	78.4(8)	156.8(16)
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	50	75	75
	臥式安裝時 Horizontal	kg	100	150	150
	使用尾座時 With Tail-Stock	kg	100	150	150
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	9700(989)	14000(1428)	14000(1428)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	78.4(8)	78.4(8)	156.8(16)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	410(41.8)	1020(104)	1020(104)
容許負載慣性矩 Allowable Inertia Force		kg.m ² (kg.cm.sec ²)	0.195(1.99)	0.54(5.5)	0.83(8.4)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	32	46	55

註：1.接線盒可選擇置放於分度盤之側方、上方或後方位置。 Note: 1.Choice of junction box location at side, top or back of the rotary table.
2.伺服馬達鋁金罩長度依不同馬達而變更。 2.The length of servo motor guard plate varies with different servo motors.

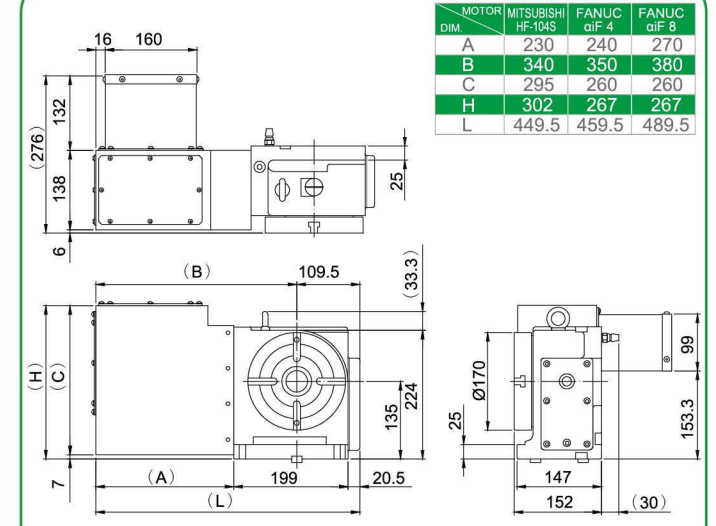
尺寸圖 Dimensions

單位 Unit : mm

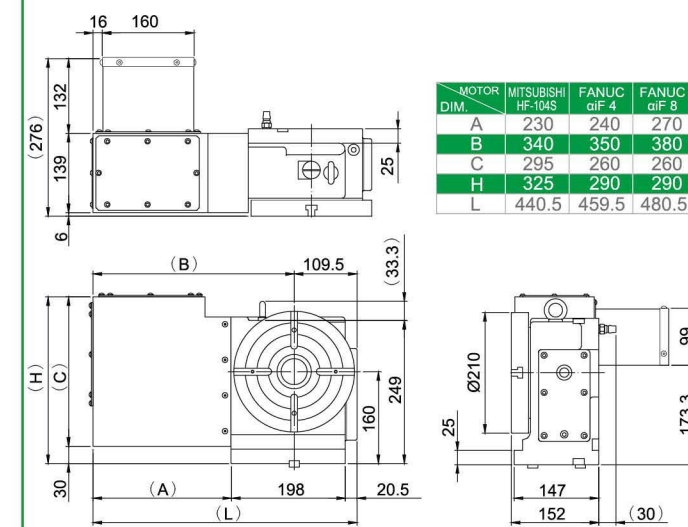
VRNC-A125-L



VRNC-170-L



VRNC-210-L



標準型 Standard Type

型號選用說明 Item instruction

VRNC-170-F

① ② ③ ④ ⑤

- ① 氣壓系統 Pneumatic system
- ② 0.001°分割 0.001° positioning
- ③ 伺服控制 Servo control
- ④ 盤面直徑 Table diameter
- ⑤ F：後背式 Back type

- 旋轉台直徑 Ø125、Ø170、Ø210、Ø255 mm
- 馬達安裝在後方(立式使用)
- 使用高精度之Cross Roller軸承
- 獨特高齒深的複導程蝸桿傳動
- 氣壓系統

- Worktable diameter Ø125, Ø170, Ø210, Ø255 mm.
- Motor is mounted at backend. (Vertical application only).
- Employs high precision cross roller bearings
- Exclusive dual lead worm drive.
- Air operated.



VRNC-170-F

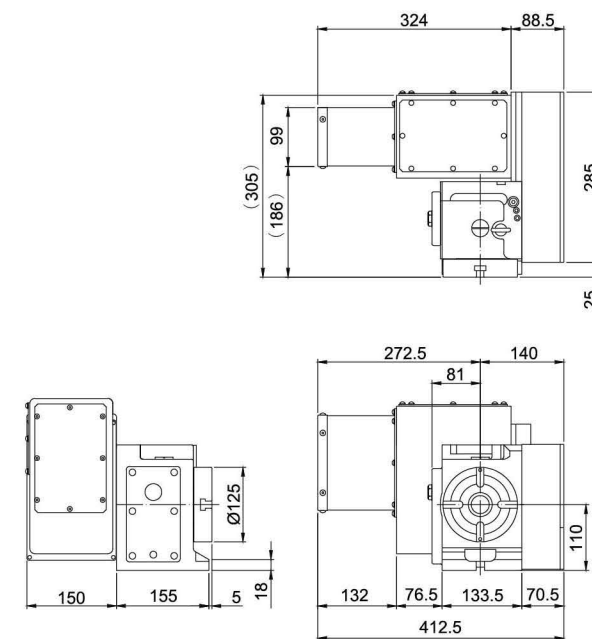
規格 / 型號 Specifications / Model		單位 Unit	VRNC-A125A-F	VRNC-170-F	VRNC-210-F	VRNC-255-F
旋台直徑 Worktable Diameter		mm	Ø125	Ø170	Ø210	Ø255
中心高度 Table Height	立式位置 Vertical	mm	110	135	160	160
中心孔直徑 Center Height		mm	Ø30 ^{H7}	Ø35 ^{H7}	Ø45 ^{H7}	Ø45 ^{H7}
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}	12 ^{H7}	12 ^{H7}	12 ^{H7}
導塊寬度 Width Of Guide Block		mm	14 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}
蝸輪齒數 Number Of Worm Gear Teeth			72	72	72	72
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	40"	20"	20"	20"
重覆精度 Repeatability		sec.	4"	4"	4"	4"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF 2	αiF 4	αiF 4	αiF 4
	MITSUBISHI		HF-75S	HF-104S	HF-104S	HF-104S
	SIEMENS		1FK7042	1FK7060	1FK7060	1FK7060
	HEIDENHAIN		QSY96A	QSY116C	QSY116C	QSY116C
總減速比 Speed Reduction Ratio			1/90	1/90	1/90	1/90
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	44.4	44.4	44.4	44.4
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	83.3(8.5)	147(15)	147(15)	147(15)
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	5(Pne.)	5(Pne.)	5(Pne.)	5(Pne.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	78.4(8)	78.4(8)	156.8(16)	156.8(16)
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	50	75	75	75
	使用尾座時 With Tail-Stock	kg	100	150	150	150
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	9700(989)	14000(1428)	14000(1428)	14000(1428)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	78.4(8)	78.4(8)	156.8(16)	156.8(16)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	410(41.8)	1020(104)	1020(104)	1020(104)
容許負載慣性矩 Allowable Inertia Force		kg.m ² (kg.cm.sec ²)	0.195(1.99)	0.54(5.5)	0.83(8.4)	1.22(12.4)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	52	62.5	76	77.5

註：1.接線盒可選擇置放於分度盤之側方、上方或後方位置。 Note：1.Choice of junction box location at side, top or back of the rotary table.
2.伺服馬達鋁金罩長度依不同馬達而變更。 2.The length of servo motor guard plate varies with different servo motors.

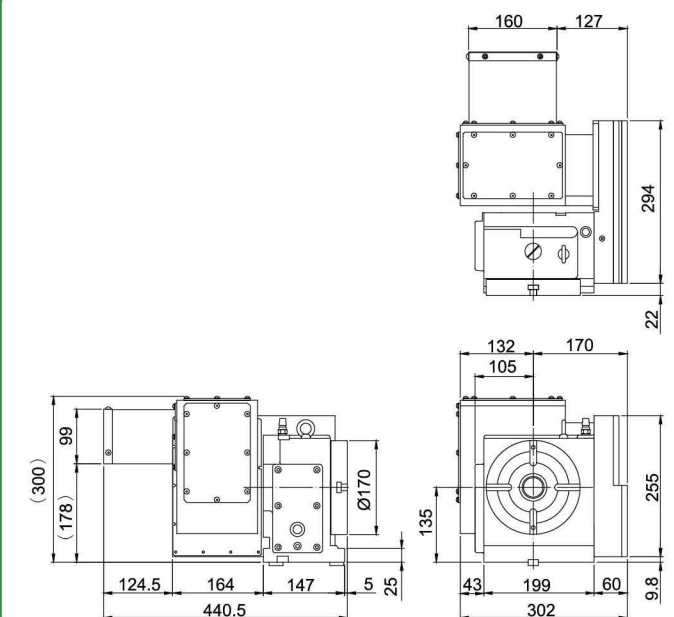
尺寸圖 Dimensions

單位 Unit : mm

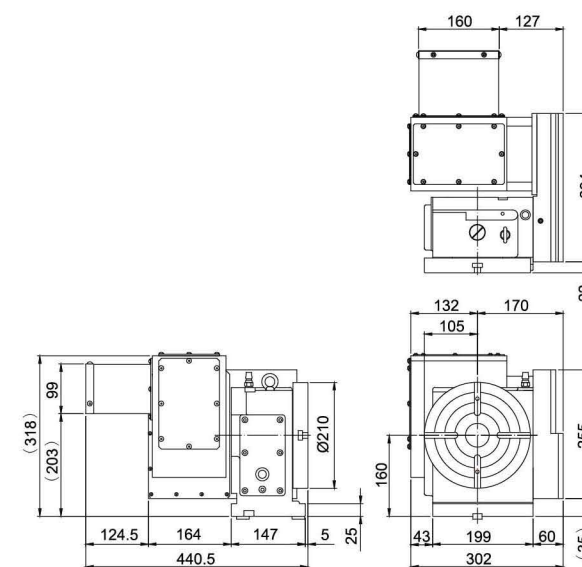
VRNC-A125A-F



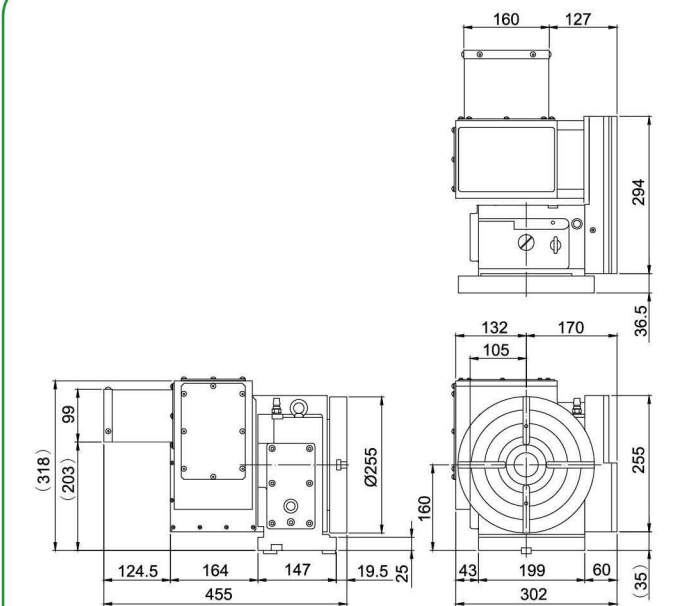
VRNC-170-F



VRNC-210-F



VRNC-255-F



標準型 Standard Type

型號選用說明 Item instruction

MRNC-255-

① ② ③ ④ ⑤

- ① 立、臥兩用油壓系統 Hydraulic system
Vertical & Horizontal both applications
- ② 0.001"分割 0.001" positioning
- ③ 伺服控制 Servo control
- ④ 盤面直徑 Table diameter
- ⑤ 馬達罩 motor cover
N：縮小鋁金 Shortened

- 旋轉台直徑 Ø255、Ø320、Ø400 mm
- 馬達安裝在右邊（立、臥兩用）
- 獨特高齒深的複導程蝸桿傳動
- 全圓周油壓鎖緊系統
- Worktable diameter Ø255, Ø320, Ø400 mm.
- Motor is mounted at right. (Vertical & Horizontal applications).
- Exclusive dual lead worm drive.
- Wholly circular hydraulic clamping system.



MRNC-255

規格 / 型號 Specifications / Model		單位 Unit	MRNC-255/255-N	MRNC-320/320-N	MRNC-400/400-N
旋台直徑 Worktable Diameter		mm	Ø255	Ø320	Ø400
工作台高度 Table Height	臥式位置 Horizontal	mm	167	222	250
中心高度 Center Height	立式位置 Vertical	mm	160	210	255
總高度 Overall Height		mm	350	385	465
中心孔直徑 Center Bore Diameter		mm	Ø40 ^{H7}	Ø40 ^{H7}	Ø40 ^{H7}
貫穿孔徑 Through-Hole Diameter		mm	Ø33	Ø40	Ø40
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}	14 ^{H7}	14 ^{H7}
導塊寬度 Width Of Guide Block		mm	18 ^{H7}	18 ^{H7}	18 ^{H7}
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	15"	15"	15"
重複精度 Repeatability		sec.	4"	4"	4"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF4 ◆αiF8	αiF 12	αiF 12
	MITSUBISHI		HF-104S ◆HF-154S	HF-204S	HF-204S
	SIEMENS		1FK7063	1FK7083	1FK7083
	HEIDENHAIN		QSY116E	QSY155B	QSY155B
總減速比 Speed Reduction Ratio			1/180	1/180	1/180
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	16.6	16.6	16.6
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	568(58)	784(80)	1715(175)
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	490(50)	833(85)	1764(180)
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical 	kg	100	150	200
	臥式安裝時 Horizontal 	kg	250	350	500
	使用尾座時 With Tail-Stock 	kg	250	350	500
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force 	N (kgf)	19600(2000)	29400(3000)	39200(4000)
	FxL 徑向力 FxL Radial moment 	N.m (kgf.m)	490(50)	833(85)	1764(180)
	FxL 傾斜力矩 FxL Tilting moment 	N.m (kgf.m)	931(95)	1568(160)	2450(260)
容許負載慣性矩 Allowable Inertia Force	J=W.D ² / 8 	kg.m ² (kg.cm.sec ²)	2.03(20.74)	4.87(45.7)	10(102)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	93	174	262

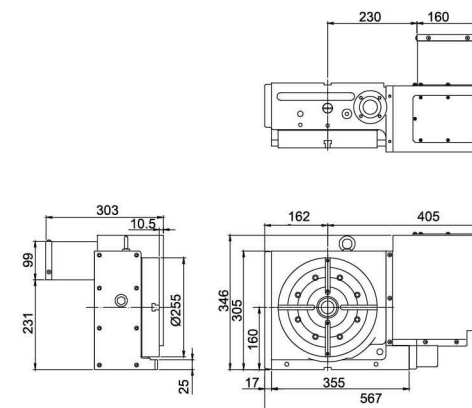
註：1. 接線盒可選擇置放於分度盤之側方、上方或後方位置。
2. "N"代表縮小鋁金規格，歡迎來電洽詢索取縮小鋁金外型圖。
3. "◆"為建議使用。

Note：
1. Choice of junction box location at side, top or back of the rotary table.
2. "N" means shortened motor cover, please contact us for shortening drawing if necessary.
3. "◆" Means recommend.

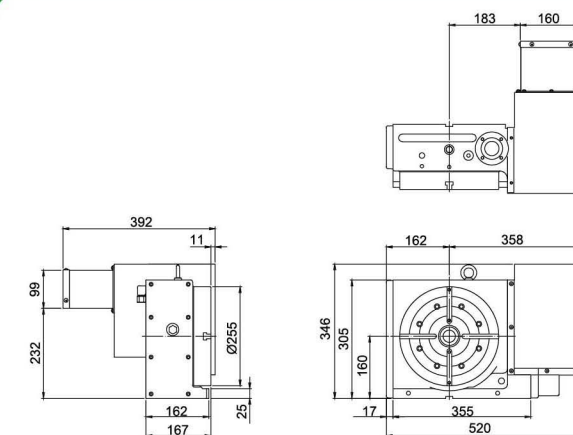
尺寸圖 Dimensions

單位 Unit : mm

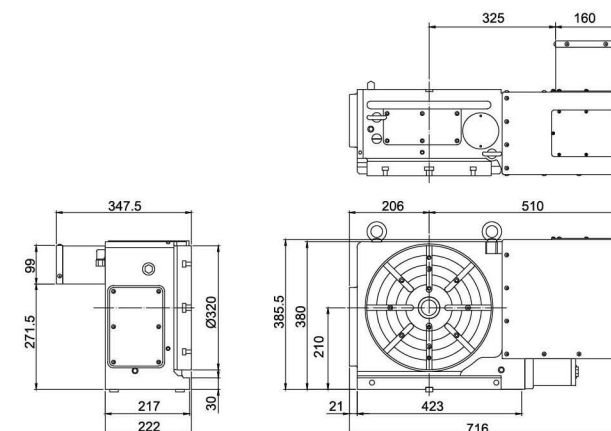
MRNC-255



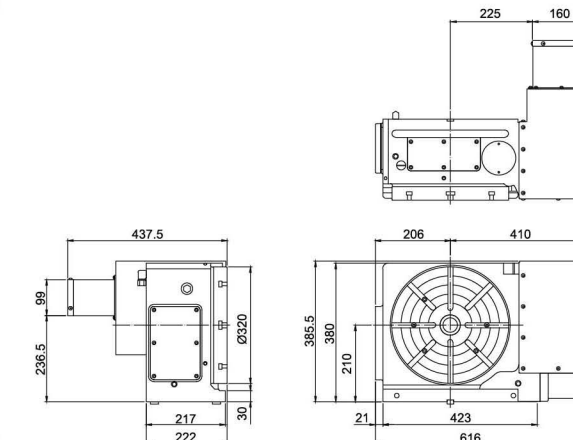
MRNC-255-N



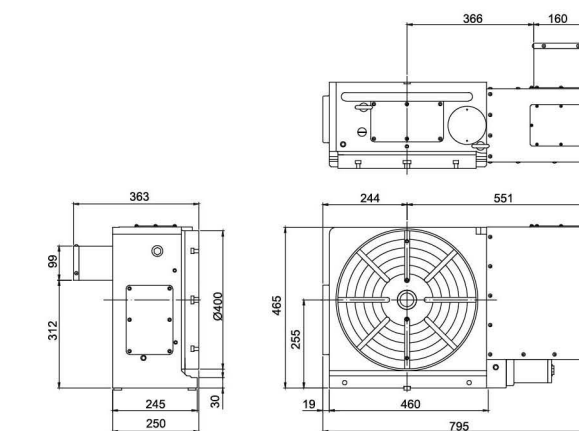
MRNC-320



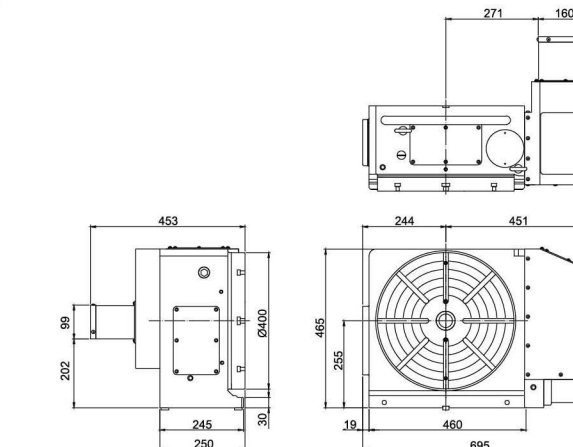
MRNC-320-N



MRNC-400



MRNC-400-N



CNC Rotary Table
電腦數控分度盤

MRNC-255/255-N

320/320-N

400/400-N

標準型 Standard Type

型號選用說明 Item instruction

MRNC-255-□

① ② ③ ④ ⑤

- ① 油壓系統 Hydraulic system
- ② 0.001°分割 0.001° positioning
- ③ 伺服控制 Servo control
- ④ 盤面直徑 Table diameter
- ⑤ 馬達位置 Motor position
F: 背後式 Back type
T: 上置式 Top type

- 旋轉台直徑 Ø255、Ø320、Ø400 mm
- 馬達安裝在背面或上面(立式使用)
- 獨特高齒深的複導程蝸桿傳動
- 全圓周油壓鎖緊系統

- Worktable diameter Ø255, Ø320, Ø400 mm.
- Motor is mounted on the back or above (Vertical application only).
- Exclusive dual lead worm drive.
- Wholly circular hydraulic clamping system.



MRNC-255-F

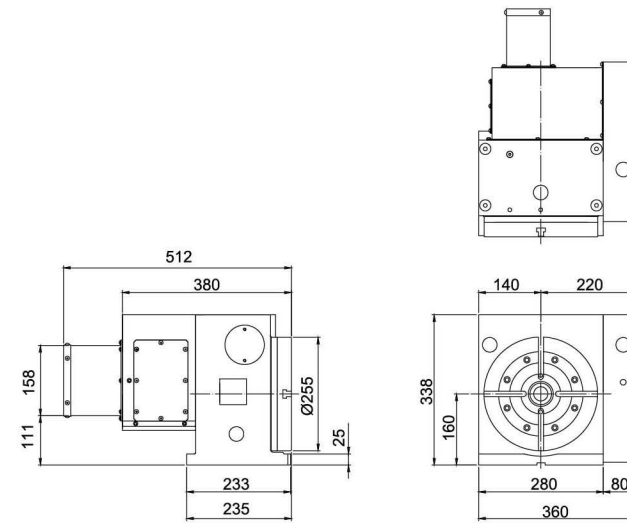
規格 / 型號 Specifications / Model		單位 Unit	MRNC-255-F	MRNC-255-T	MRNC-320-T	MRNC-400-T
旋台直徑 Worktable Diameter		mm	Ø255	Ø255	Ø320	Ø400
中心高度 Center Height	立式位置 Horizontal	mm	160	170	220	265
總高度 Overall Height		mm	338	595	630	820
中心孔直徑 Center Bore Diameter		mm	Ø40 ^{H7}	Ø40 ^{H7}	Ø40 ^{H7}	Ø40 ^{H7}
貫穿孔徑 Through-Hole Diameter		mm	Ø33	Ø33	Ø40	Ø40
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}	—	—	14 ^{H7}
導塊寬度 Width Of Guide Block		mm	18 ^{H7}	—	—	18 ^{H7}
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	20"	15"	15"	15"
重覆精度 Repeatability		sec.	4"	4"	4"	4"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF4	αiF4 ◆αiF8	αiF12	αiF12
	MITSUBISHI		HF-104S	HF-104S ◆HF-154S	HF-204S	HF-204S
	SIEMENS		1FK7063	1FK7063	1FK7083	1FK7083
	HEIDENHAIN		QSY116E	QSY116E	QSY155B	QSY155B
總減速比 Speed Reduction Ratio			1/120	1/180	1/180	1/180
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	33.3	16.6	16.6	16.6
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	568(58)	568(58)	784(80)	1715(175)
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	490(50)	490(50)	833(85)	1764(180)
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	100	150	150	200
	使用尾座時 With Tail-Stock	kg	250	300	350	500
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	19600(2000)	19600(2000)	29400(3000)	39200(4000)
	FxL 徑向力 FxL Radial moment	N.m(kgf.m)	490(50)	490(50)	833(85)	1764(180)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	931(95)	980(100)	3626(370)	5880(600)
容許負載慣性矩 Allowable Inertia Force		J=W.D ² / 8 kg.m ² (kg.cm.sec ²)	2.03(20.7)	2.44(24.9)	4.48(45.7)	10(102)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	128	125	240	300

註：1."◆"為建議使用。 Note: 1."◆" Means recommend.

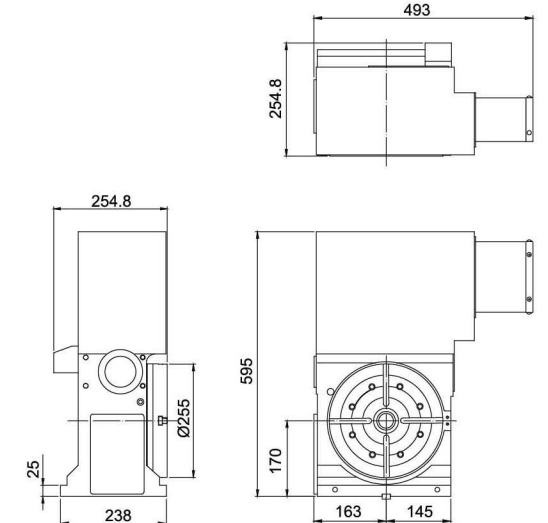
尺寸圖 Dimensions

單位 Unit : mm

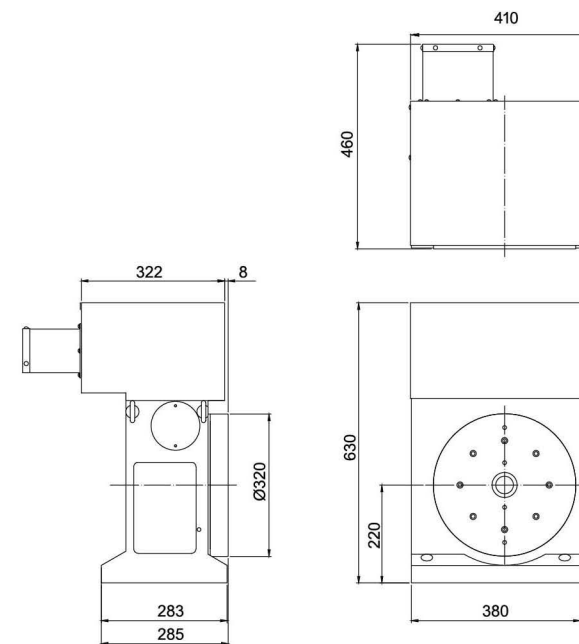
MRNC-255-F



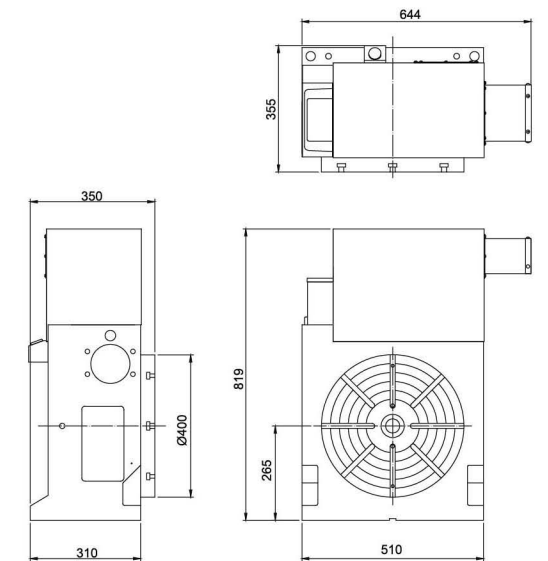
MRNC-255-T



MRNC-320-T



MRNC-400-T



標準型 Standard Type

型號選用說明 Item instruction

MRNC-500-

① ② ③ ④ ⑤

- 立、臥兩用油壓系統 Hydraulic system
Vertical & Horizontal both applications
- 0.001°分割 0.001° positioning
- 伺服控制 Servo control
- 盤面直徑 Table diameter
- 馬達罩 motor cover
N: 縮小鋁金 Shortened



MRNC-500



MRNC-63A

- 旋轉台直徑 Ø500、Ø630、Ø800 mm (立、臥兩用)
- 採用高齒深的複導程蝸桿蝸輪，傳動扭力大
- 採用油壓鎖緊系統，油壓鎖緊力大
- 最小分度角度0.001°
- 可配合縮小鋁金馬達罩
- Worktable diameter Ø500, Ø630, Ø800 mm (Vertical & Horizontal applications)
- Dual lead worm drive for greater transmission torque.
- Hydraulic clamping system assures powerful clamping.
- Minimum increment 0.001°
- Reduced motor cover is available.

規格 / 型號 Specifications / Model		單位 Unit	MRNC-500	MRNC-63A	MRNC-800A
旋台直徑 Worktable Diameter		mm	Ø500	Ø630	Ø800
工作台高度 Table Height	臥式位置 Horizontal	mm	300	400	400
中心高度 Center Height	立式位置 Vertical	mm	310	400	425
總高度 Overall Height		mm	565	720	825
中心孔直徑 Center Bore Diameter		mm	Ø50 ^{H7}	Ø100 ^{H7}	Ø100 ^{H7}
貫穿孔徑 Through-Hole Diameter		mm	Ø50	Ø100	Ø100
工作台T型槽寬度 Width Of T-Slot		mm	18 ^{H7}	18 ^{H7}	18 ^{H7}
導塊寬度 Width Of Guide Block		mm	18 ^{H7}	18 ^{H7}	18 ^{H7}
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	15"	15"	15"
重複精度 Repeatability		sec.	4"	4"	4"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF12	αiF 12 ◆αiF 22	αiF 22
	MITSUBISHI		HF-204S	HF-354S	HF-354S
	SIEMENS		1FK7083	1FK7101	1FK7101
	HEIDENHAIN		QSY155B	QSY155D	QSY155D
總減速比 Speed Reduction Ratio			1/180	1/180	1/180
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	16.6	16.6	11.1
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	2508(256)	4410(450)	4410(450)
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
煞車夾緊扭矩 Clamping Torque		N.m (kgf.m)	2450(250)	4410(450)	4410(450)
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	250	960	875
	臥式安裝時 Horizontal	kg	600	2000	1800
	使用尾座時 With Tail-Stock	kg	600	1920	1750
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force	N (kgf)	49500(5000)	55000(5612)	55000(5612)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	2450(250)	4410(450)	4410(450)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	3430(350)	16000(1632)	16000(1632)
容許負載慣性矩 Allowable Inertia Force	立式安裝時 Vertical	kg.m ² (kg.cm.sec ²)	7.8(79.7)	50(490)	80(785)
	臥式安裝時 Horizontal	kg.m ² (kg.cm.sec ²)	18.7(191)	99(1012)	144(1469)
旋台重量 (不含伺服馬達)	Net Weight (Motor Excluded)	kg	458	800	1200

註：1.接線盒可選擇側方、上方或背面位置。

2."N"代表縮小鋁金規格,歡迎來電洽詢索取縮小鋁金外型圖。

3."◆"為建議使用。

Note : 1.Choice of junction box location at side, top or back of the rotary table.

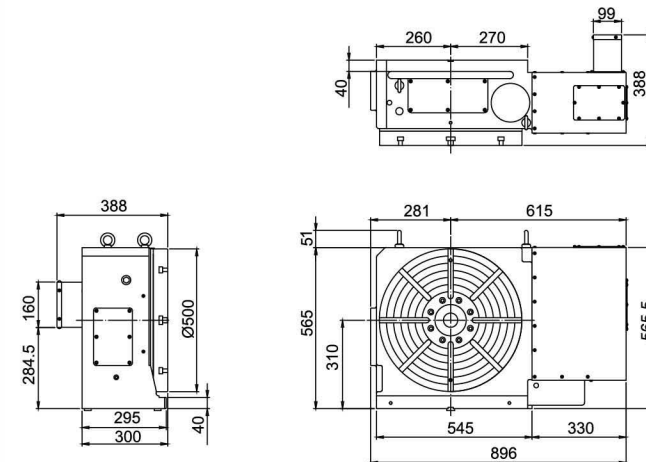
2."N" means shortened motor cover, please contact us for shortening drawing if necessary.

3."◆" Means recommend.

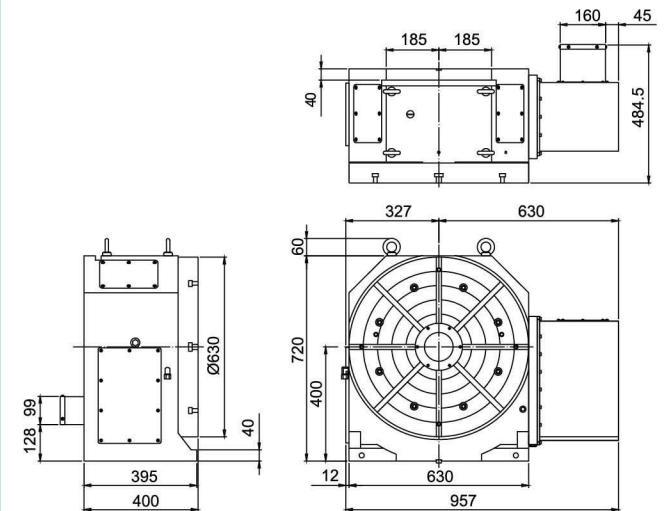
尺寸圖 Dimensions

單位 Unit : mm

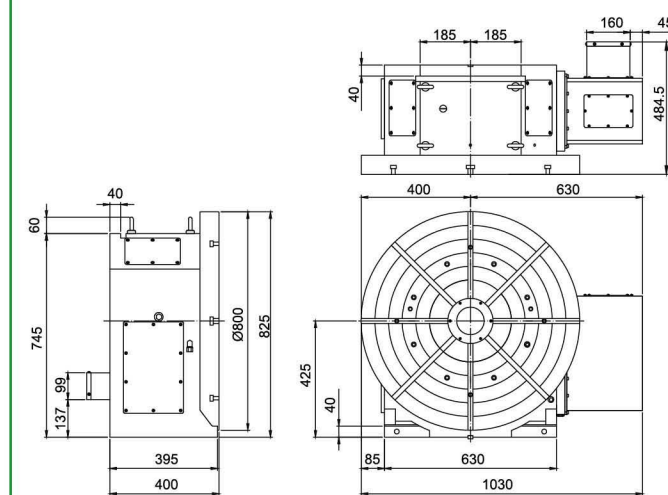
MRNC-500



MRNC-63A



MRNC-800A



標準型 Standard Type

型號選用說明 Item instruction

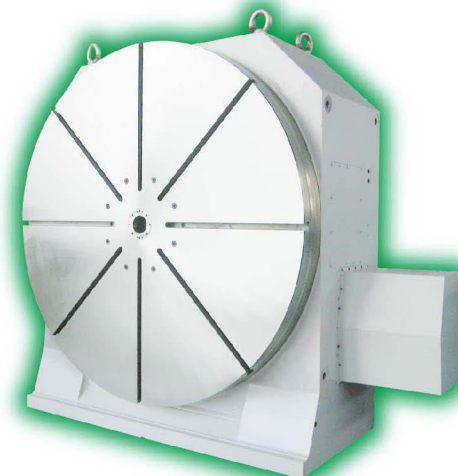
MRNC-□ A1500

① ② ③ ④ ⑤

- ① 立、臥兩用油壓系統 Hydraulic system Vertical & Horizontal both applications
- ② 0.001°分割 0.001° positioning
- ③ 伺服控制 Servo control
- ④ HD：高荷重 Heavy-duty
- ⑤ 盤面直徑 Table diameter

- 旋轉台直徑 Ø800、Ø1000、Ø1500 mm (立、臥兩用)
- 採用高齒深的複導程蝸桿蝸輪，傳動扭力大
- 採用油壓鎖緊系統，油壓鎖緊力大
- 最小分度角度0.001°

- Worktable diameter Ø800, Ø1000, Ø1500mm (Vertical & Horizontal applications).
- Dual lead worm drive for greater transmission torque.
- Hydraulic clamping system assures powerful clamping.
- Minimum increment 0.001°



MRNC-A1500

規格 / 型號 Specifications / Model		單位 Unit	MRNC-HD800	MRNC-1000A	MRNC-A1500
旋台直徑 Worktable Diameter		mm	Ø800	Ø1000	Ø1500
工作台高度 Table Height	臥式位置 Horizontal	mm	464	530	720
中心高度 Center Height	立式位置 Vertical	mm	440	650	900
總高度 Overall Height		mm	840	1150	1650
中心孔直徑 Center Bore Diameter		mm	Ø300 ^{H7}	Ø100 ^{H7}	Ø75 ^{H7}
貫穿孔徑 Through-Hole Diameter		mm	Ø300	Ø120	Ø120
工作台T型槽寬度 Width Of T-Slot		mm	18 ^{H7}	22 ^{H7}	22 ^{H7}
導塊寬度 Width Of Guide Block		mm	22 ^{H7}	22 ^{H7}	22 ^{H7}
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	15"	15"	15"
重複精度 Repeatability		sec.	4"	4"	4"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF30	αiF 22	αiF 30
	MITSUBISHI		HF-453S	HF-354S	HF-453S
	SIEMENS		1FK7103	1FK7101	1FK7103
	HEIDENHAIN		QSY190C	QSY155D	QSY190C
總減速比 Speed Reduction Ratio			1/360	1/360	1/720
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	5.6	8.3	2.8
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	4900(500)	4900(500)	5880(600)
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	8330(850)	13230(1350)	21560(2200)
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	2000	1500	4500
	臥式安裝時 Horizontal	kg	6000	3500	8000
	使用尾座時 With Tail-Stock	kg	4000	3000	8000
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	100000(10204)	92500(9438)	98000(10000)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	8330(850)	13230(1350)	21560(2200)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	26000(2653)	22050(2250)	38220(3900)
容許負載慣性矩 J=W.D ² /8 Allowable Inertia Force	立式安裝時 Vertical	kg.m ² (kg.cm.sec ²)	160(1630)	190(1913)	1265(12914)
	臥式安裝時 Horizontal	kg.m ² (kg.cm.sec ²)	480(4900)	440(4464)	2250(22960)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	1370	2500	7500

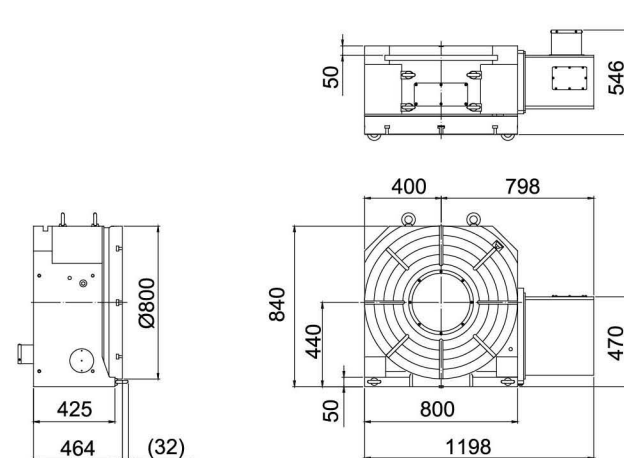
選擇配件：手動尾座、油壓單元、氣/油壓轉換單元、Pioneer單軸控制器、手動夾頭、油壓夾頭、法蘭盤。

Optional Accessories : Manual tailstock, hydraulic power unit, pneumatic/hydraulic converter, Pioneer single axis controller, manual chuck, hydraulic chuck, and flange.

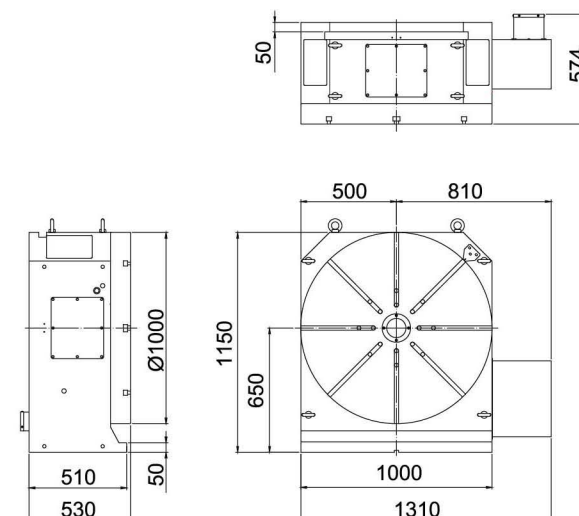
尺寸圖 Dimensions

單位 Unit : mm

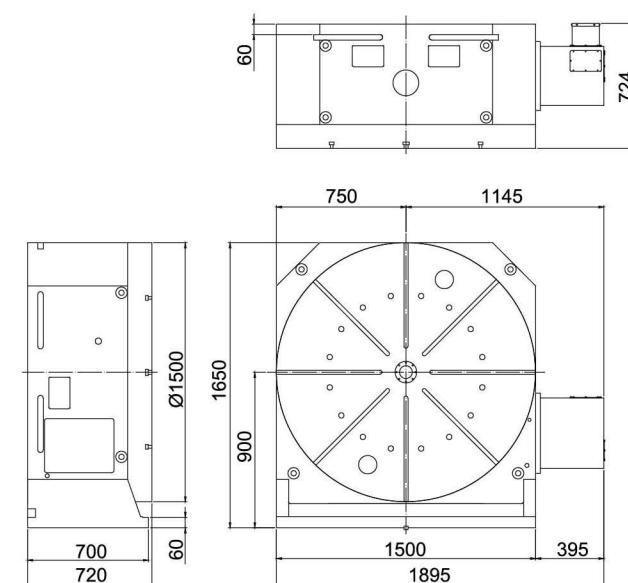
MRNC-HD800



MRNC-1000A



MRNC-A1500



標準型 Standard Type

型號選用說明 Item instruction

HRNC-630---

- 旋轉台直徑 Ø500、Ø630、Ø800、Ø1000、Ø1650mm (臥式使用)
- 採用高齒深的複導程蝸桿蝸輪，傳動扭力大
- 採用油壓鎖緊系統，油壓鎖緊力大
- 最小分度角度0.001°

- Worktable diameter Ø500, Ø630, Ø800, Ø1000, Ø1650mm (Horizontal application).
- Dual lead worm drive for greater transmission torque.
- Hydraulic clamping system assures powerful clamping.
- Minimum increment 0.001°

- ① 臥式加工油壓系統 Hydraulic system Horizontal applications
- ② 0.001°分劃 0.001° positioning
- ③ 伺服控制 Servo control
- ④ 盤面尺寸 Table size
- ⑤ 盤面形式 S：方形 無：圓形 Table form Square None：round
- ⑥ 傳動方式 Transmission B：皮帶傳動 Driven by belt G：齒輪傳動 Driven by Gear
- ⑦ 安裝介面 AT：平底 BT：硬軌 CT：線軌 Interface type Flat bottom Boxway Linear



HRNC-630

規格 / 型號 Specifications / Model		單位 Unit	HRNC-500S-□□	HRNC-630S-□□	HRNC-800S-□□	HRNC-1000-□□	HRNC-1650-□□
使用方式 Application Machine Type			臥式方盤 Horizontal square table	臥式方盤 Horizontal square table	臥式方盤 Horizontal square table	臥式圓盤 Horizontal disc	臥式圓盤 Horizontal disc
旋台尺寸 Worktable Dimension		mm	500x500	630X630	800X800	Ø1000	Ø1650
總高度 Overall Height		mm	300	320	360	376	449
中心孔直徑 Center Bore Diameter		mm	Ø50 ^{H7}	Ø50 ^{H7} Dep.30	Ø50 ^{H7} Dep.28	Ø50 ^{H7} Dep.28	Ø75 ^{H7} Dep.31
貫穿孔徑 Through-Hole Diameter		mm	Ø50	—	—	—	—
工作台T型槽寬度 Width Of T-Slot		mm	18 ^{H7}	18 ^{H7}	18 ^{H7}	22 ^{H7}	22 ^{H7}
導塊寬度 Width Of Guide Block		mm	—	—	18 ^{H7}	18 ^{H7}	22 ^{H7}
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	15"	15"	15"	15" ★10"	15" ★10"
重複精度 Repeatability		sec.	4"	4"	4"	4"	4"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF12	αiF 12 ◆αiF 22	αiF 22	αiF 22	αiF 22
	MITSUBISHI		HF-204S	HF-204S	HF-354S	HF-354S	HF-354S
	SIEMENS		1FK7083	1FK7083	1FK7101	1FK7101	1FK7101
	HEIDENHAIN		QSY155B	QSY155B	QSY155D	QSY155D	QSY155D
總減速比 Speed Reduction Ratio			1/180	1/180	1/180	1/360	1/720
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	16.6	11.1	11.1	5.5	2.7
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	2450(250)	4116(420)	7840(800)	13230(1350)	14000(1428)
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	2450(250)	4410(450)	6860(700)	14700(1500)	9800(1000)
最大載重 Allowable Load Capacity		kg	500	1000	3000	5000	8000
容許切削負載力矩 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	39200(4000)	49000(5000)	49000(5000)	100000(10204)	185000(18878)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	2450(250)	4410(450)	6860(700)	14700(1500)	9800(1000)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	2450(250)	7840(800)	11600(1184)	22900(2337)	22900(2337)
容許負載慣性矩 Allowable Inertia Force		J=W.D ² / 8 (kg.cm.sec ²)	16(160)	50(506)	240(2450)	625(6380)	2773(27780)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	538	700	1200	1500	4100

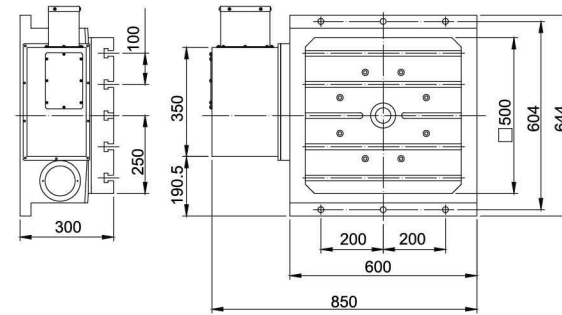
註:1.盤面可選擇方形、圓形或依客戶需求指定。
2."★"為搭配海德漢RCN 2000(±5")系列光學尺。
3."◆"為建議使用。

Note : 1.There are circle and square of worktable for choice or depend on design from customer's requirement.
2."★" Means with encoder of HEIDENHAIN RCN 2000(±5")SERIES.
3."◆" Means recommend.

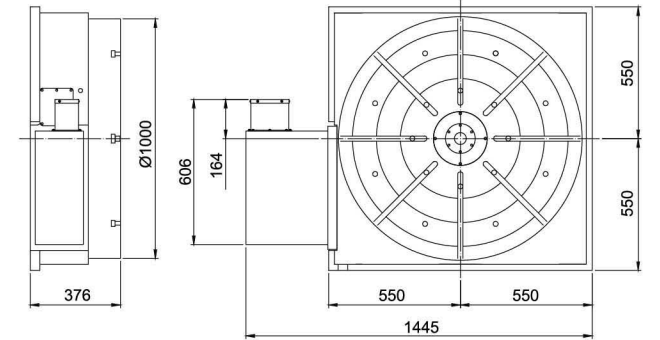
尺寸圖 Dimensions

單位 Unit : mm

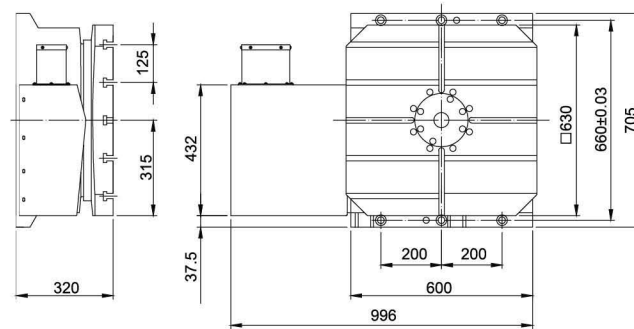
HRNC-500S-G-AT



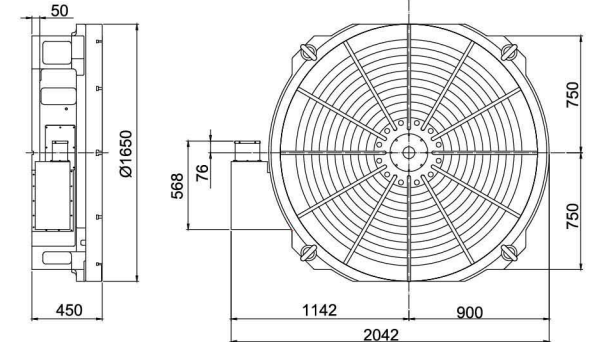
HRNC-1000-G-AT



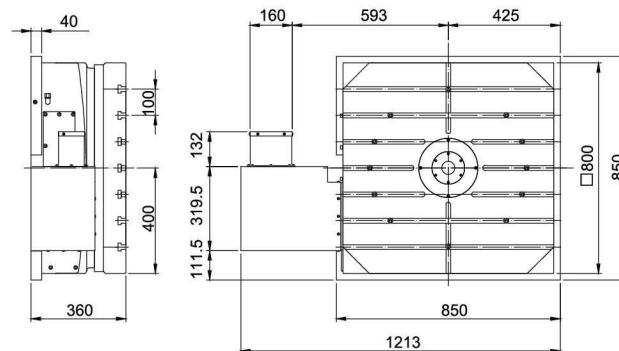
HRNC-630S-G-AT



HRNC-1650-G-AT



HRNC-800S-G-AT



💡 標準型 Standard Type

型號選用說明 Item instruction

HRNC-1000-

- ① 臥式加工油壓系統 Hydraulic system Horizontal applications
- ② 0.001"分割 0.001" positioning
- ③ 伺服控制 Servo control
- ④ HD：高荷重 Heavy-duty
- ⑤ 盤面尺寸 Table size
- ⑥ 裝夾介面 AT：平底 Interface type Flat bottom
- BT：硬軌 Boxway
- CT：線軌 Linear



HRNC-1000

- 適用於大型臥式搪銑加工機或大型龍門加工機。
- 單馬達雙驅動可克服切向力負荷，並減少齒輪傳動負載。
- 使用高載重大直徑徑向滾柱軸承，徑向採用雙顆預壓負載斜角滾柱軸承。
- 安裝介面可客製選用平底、硬軌或線軌。
- Suitable for large horizontal boring/milling machine or large Double-Column machine.
- A single motor driving two transmission mechanism capable to resist tangential force and reducing load on the gear.
- With one heavy duty axial roller bearing and two taper roller bearings for radial force.
- There are flat bottom,boxway and linear guideway of interface type for choosing or depending on design from customer's requirement.

規格 / 型號 Specifications / Model		單位 Unit	HRNC-HD1515-□	HRNC-HD1618-□	HRNC-HD2020-□
使用方式 Application Machine Type			臥式方盤Horizontal	臥式方盤Horizontal	臥式方盤Horizontal
旋台尺寸 Worktable Dimension		mm	1500x1500	1600X1800	2000X2000
總高度 Overall Height		mm	455	510	650
中心孔直徑 Center Bore Diameter		mm	Ø150 ^{H7} Dep.31	Ø150 ^{H7} Dep.31	Ø150 ^{H7} Dep.31
工作臺T型槽寬度 Width Of T-Slot		mm	24 ^{H7}	28 ^{H7}	28 ^{H7}
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	★10〃	★10〃	★10〃
重覆精度 Repeatability		sec.	4〃	4〃	4〃
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF30	αiF30	αiF30
	MITSUBISHI		HF-453S	HF-453S	HF-453S
	SIEMENS		1FK7103	1FK7103	1FK7103
	HEIDENHAIN		QSY190C	QSY190C	QSY190C
總減速比 Speed Reduction Ratio			1/900	1/1080	1/1440
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	2.2	1.8	1.3
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	11760(1200)	16856(1720)	16856(1720)
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	17150(1750)	22442(2290)	24676(2518)
最大載重 Allowable Load Capacity	臥式安裝時 Horizontal 	kg	10000	15000	20000
容許切削負載力矩 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force 	N(kgf)	50960(5200)	107800(11000)	245000(25000)
	FxL 徑向力 FxL Radial moment 	N.m (kgf.m)	17150(1750)	22442(2290)	24676(2518)
	FxL 傾斜力矩 FxL Tilting moment 	N.m (kgf.m)	31360(3200)	39200(4000)	52920(5400)
容許負載慣性矩 Allowable Inertia Force	J=W.D ² / 8 	kg.m ² (kg.cm.sec ²)	2812(28698)	4218(43048)	10000(102040)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	5000	6000	8500

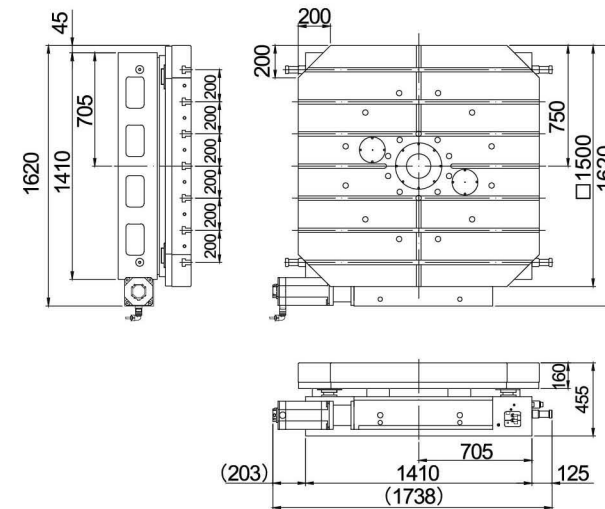
註：1.此款分度盤皆需安裝光學尺。 2.★為搭配海德漢RCN2000(±5")系列光學尺。

Note : 1.This model has to use encoder. 2."★" Means with encoder of HEIDENHAIN RCN 2000(±5")SERIES.

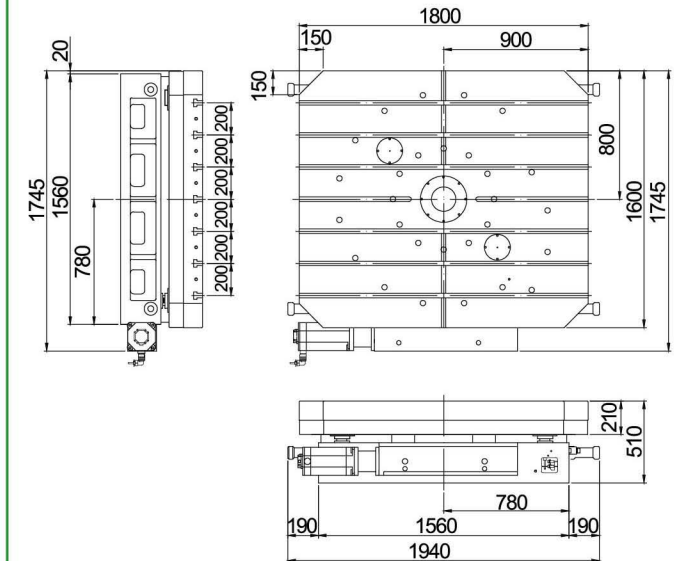
💡 尺寸圖 Dimensions

單位 Unit : mm

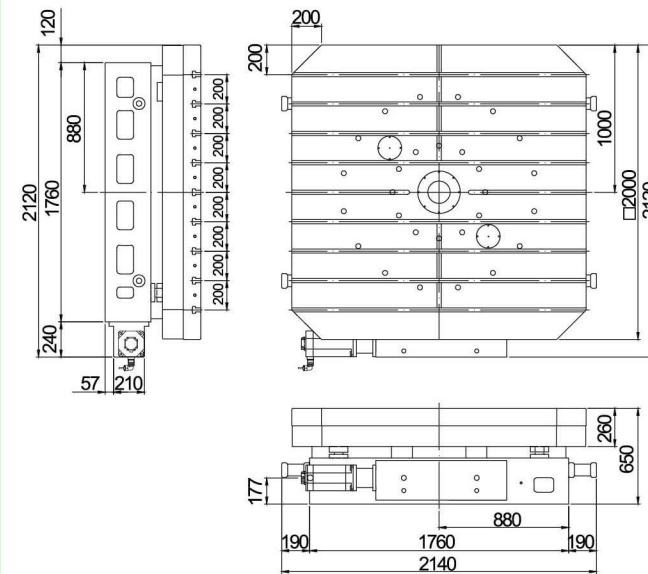
HRNC-HD1515-AT



HRNC-HD1618-AT



HRNC-HD2020-AT



💡大孔徑型 Big Bore Type

型號選用說明 Item instruction

BRNC-40A-□

① ② ③ ④ ⑤

- ① 大孔徑油壓系統 Big bore hydraulic system
② 0.001°分割 0.001° positioning
③ 伺服控制 Servo control
④ 盤面直徑 Table diameter
⑤ 馬達罩 motor cover
N：縮小鋁金 Shortened

- 旋轉台直徑 Ø255、Ø320、Ø400、Ø500 mm
- 馬達安裝在右邊（立、臥兩用）
- 獨特高齒深的複導程蝸桿傳動
- 全圓周油壓鎖緊系統
- 大孔徑旋轉工作台
- Worktable diameter Ø255, Ø320, Ø400, Ø500mm.
- Motor is mounted at right. (Vertical & Horizontal applications).
- Exclusive dual lead worm drive.
- Wholly circular hydraulic clamping system.
- Big bore rotary table.



BRNC-40A



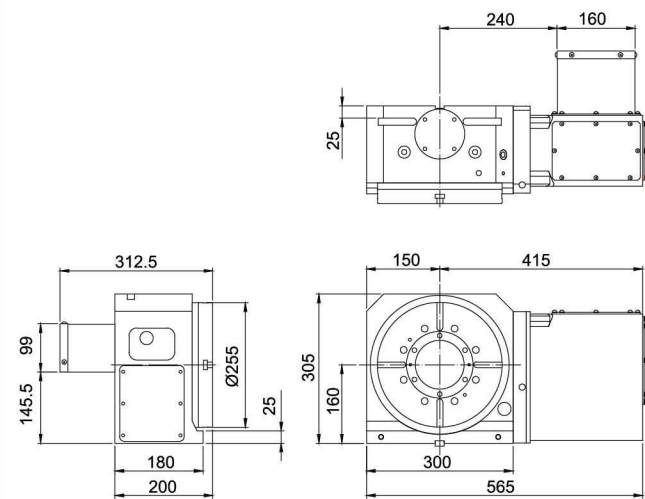
►使用高荷重徑向軸承
Equipped with axial/radial bearings

規格 / 型號 Specifications / Model		單位 Unit	BRNC-255A	BRNC-320A	BRNC-40A	BRNC-500
旋台直徑 Worktable Diameter		mm	Ø255	Ø320	Ø400	Ø500
工作台高度 Table Height	臥式位置 Horizontal	mm	200	235	250	300
中心高度 Center Height	立式位置 Vertical	mm	160	210	255	310
總高度 Overall Height		mm	305	380	465	560
中心孔直徑 Center Bore Diameter		mm	Ø100 ^{H7}	Ø120 ^{H7}	Ø180 ^{H7}	Ø220 ^{H7}
貫穿孔徑 Through-Hole Diameter		mm	Ø100	Ø120	Ø180	Ø220
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}	14 ^{H7}	14 ^{H7}	18 ^{H7}
導塊寬度 Width Of Guide Block		mm	18 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	20"	20"	20"	20"
重複精度 Repeatability		sec.	4"	4"	4"	4"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF 8	αiF 12	αiF 12	αiF 12
	MITSUBISHI		HF-154S	HF-204S	HF-204S	HF-204S
	SIEMENS		1FK7063	1FK7083	1FK7083	1FK7083
	HEIDENHAIN		QSY116E	QSY155B	QSY155B	QSY155B
總減速比 Speed Reduction Ratio			1/120	1/120	1/180	1/180
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	25	25	16.6	16.6
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	568(58)	784(80)	1715(175)	2508(256)
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	686(70)	1176(120)	1764(180)	2450(250)
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	200	225	240	320
	臥式安裝時 Horizontal	kg	640	750	800	960
	使用尾座時 With Tail-Stock	kg	400	450	480	640
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	25000(2551)	30000(3061)	35000(3571)	40000(4081)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	686(70)	1176(120)	1764(180)	2450(250)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	3200(326)	4000(408)	5000(510)	8000(816)
容許負載慣性矩 Allowable Inertia Force		J=W·D ² / 8 kg.m ² (kg.cm.sec ²)	5.2(53.08)	9.6(97.96)	16(163.2)	30(306)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	100	180	270	400

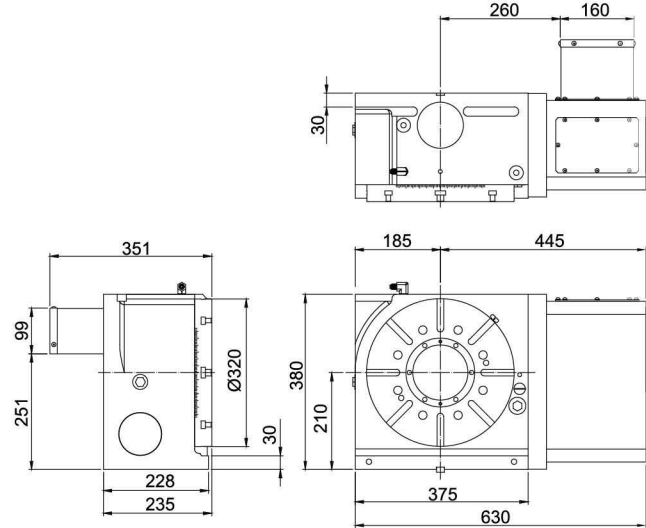
💡尺寸圖 Dimensions

單位 Unit : mm

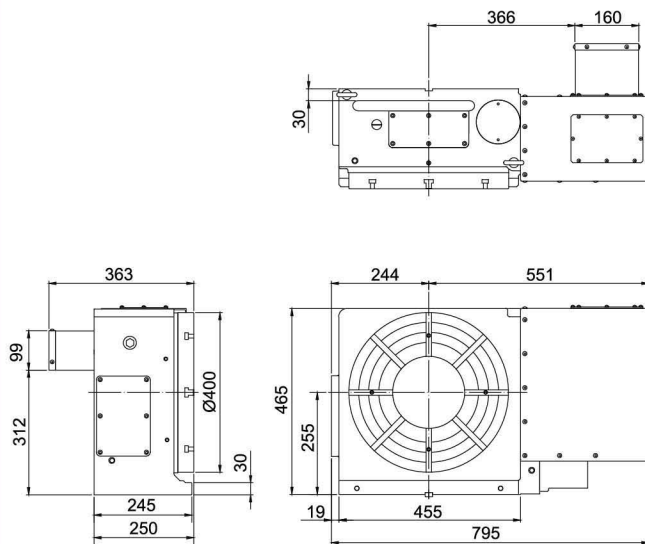
BRNC-255A



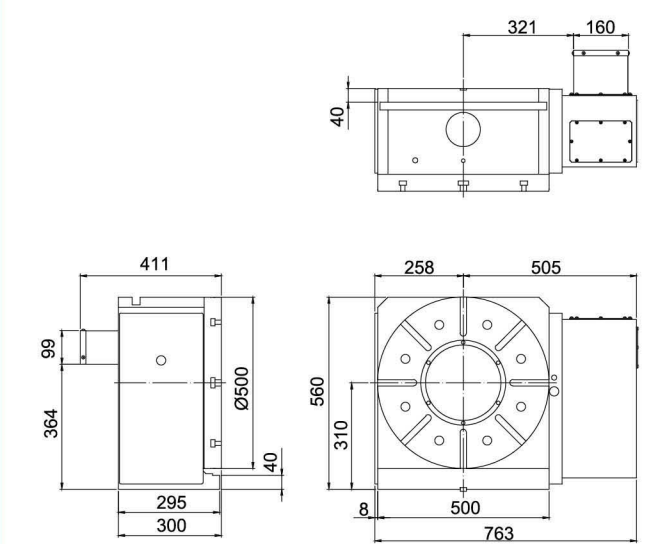
BRNC-320A



BRNC-40A



BRNC-500



註：1."N"代表縮小鋁金規格，歡迎來電洽詢索取縮小鋁金外型圖。 Note：1."N" means shortened motor cover, please contact us for shortening drawing if necessity.

直驅式馬達型 Direct Drive Motor Type

型號選用說明 Item instruction

DRT-255A-□

- ①直驅馬達 Direct drive motor
- ②盤面直徑 Table diameter
- ③型式 Type L：左手型 Left-handed

- 採用直驅馬達，高迴轉速，比一般旋轉工作台高7倍以上的速度。
- 不需要減速齒輪，採用高扭力馬達，高傳動效率，可搭配適溫同調型冷卻裝置。(立、臥兩用)
- 採用光學尺直接檢出，可達高精密分度。
- 採用全圓周油壓鎖緊系統，可達高夾緊扭矩。
- Direct drive motor offers high speed running-up to 7 times faster than other ordinary models.
- Reduction gear not required. Employs a high torque motor for high transmission efficiency. Allows for adopting oil chiller.(Vertical & Horizontal applications)
- Encoder equipped for high indexing accuracy.
- Wholly circular hydraulic clamping for high clamp torque.



DRT-255A

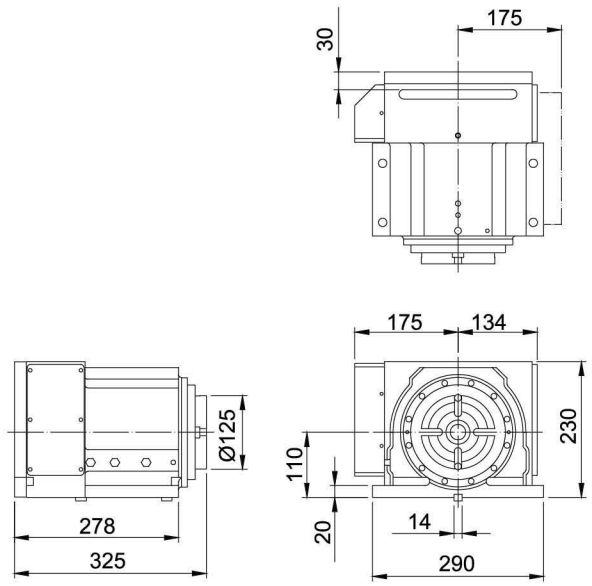
規格 / 型號 Specifications / Model		單位 Unit	DRT-125	DRT-255A	DRT-320	DRT-400
旋台直徑 Worktable Diameter		mm	Ø125	Ø255	Ø320	Ø400
工作台高度 Worktable Diameter	臥式水平位置 Horizontal	mm	325	325	355	385
中心高度 Table Height		mm	110	160	210	255
總高度 Overall Height	立式垂直位置 Vertical	mm	230	329	440	485
中心孔直徑 Center Bore Diameter		mm	Ø25 ^{H7}	Ø50 ^{H7}	Ø50 ^{H7}	Ø50 ^{H7}
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}	12 ^{H7}	14 ^{H7}	14 ^{H7}
導塊寬度 Width Of T-Slot		mm	14 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy(1.※)		sec.	20″	20″	20″	20″
重複精度 Repeatability (1.※)		sec.	4″	4″	4″	4″
總減速比 Speed Reduction Ratio			1/1	1/1	1/1	1/1
使用壓力(鎖緊方式) Pressure (Clamping System)		kg.m ²	35(Hyd.)	35(Hyd.)	35(Hyd.)	35(Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	323(33)	833(85)	1764(180)	1764(180)
ETEL直驅馬達馬達 (用於海德漢或西門子控制器) ETEL Direct-Drive Torque Motor (For HEIDENHAIN or Siemens controllers)	ETEL(VDC600)		TMB+0140-070RA (馬達慣量0.00236) (Rotor inertia 0.00236)	TMB+0210-070RA (馬達慣量0.0214) (Rotor inertia 0.0214)	TMB+0291-070SA (馬達慣量0.0567) (Rotor inertia 0.0567)	TMB+0291-100UA (馬達慣量0.0804) (Rotor inertia 0.0804)
	最大扭矩 Peak Torque	Nm	92.6	318	608	869
	連續扭矩 Continuous Torque	Nm	44.2	137	285	424
	容許負載慣性矩 Allowable Inertia Force(J=W.D2/8)	kg.m ²	0.07	0.64	1.7	2.41
	容許盤面最高轉速 Allowable Max. Rotation Speed(2.※)	r.p.m	350	185	135	130
HEIDENHAIN光學尺 HEIDENHAIN Encoders(1.※)			ECA4412 RCN2310/2380(±5Sec.) RCN2510/2580(±2.5Sec.)			
容許工件載重 (用於海德漢或西門子控制器) Allowable Load Capacity (For HEIDENHAIN or Siemens controllers)	立式安裝時 Vertical	kg	25	55	100	100
	臥式安裝時 Horizontal	kg	37	80	150	120
	使用尾座時 With Tail-Stock	kg	37	80	150	120
FANUC直驅馬達馬達 (用於FANUC控制器) FANUC Direct-Drive Torque Motor (For FANUC controllers)	FANUC(220V)		DiS 60/400	DiS 150/300	DiS 250/250	DiS 500/250
	最大扭矩 Peak Torque	Nm	130	380	600	1200
	連續扭矩 Continuous Torque	Nm	65	170	225	520
	容許負載慣性矩 Allowable Inertia Force	kg.m ²	0.21	0.99	2.94	5.1
	容許盤面最高轉速 Allowable Max. Rotation Speed(2.※)	r.p.m	200	150	125	125
FANUC光學尺 FANUC Encoders(1.※)			aiCZSensor512A (±4Sec.)	aiCZSensor512A (±4Sec.)	aiCZSensor768A (±3Sec.)	aiCZSensor768A (±3Sec.)
容許工件載重 (用於FANUC控制器) Allowable Load Capacity (For FANUC controllers)	立式安裝時 Vertical	kg	75	84	153	170
	臥式安裝時 Horizontal	kg	110	122	230	255
	使用尾座時 With Tail-Stock	kg	110	122	230	255
容許切削負載力矩 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	9800(1000)	25000(2551)	30000(3061)	35000(3571)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	323(33)	833(85)	1764(180)	1764(180)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	441(45)	3200(326)	4000(408)	5000(510)
旋台重量(含馬達) Net Weight		kg	65	140	200	320

註：1.※必須選用光學尺，精度多樣選擇。
2.※依選擇馬達及軸承轉速略有不同，另有高轉速選擇，歡迎來電索取資料。
Note：1.※Positioning accuracy according to encoder type.
2.※Depending on the choice of motor performance,and another high-speed for option,please contact us for more details if necessity.

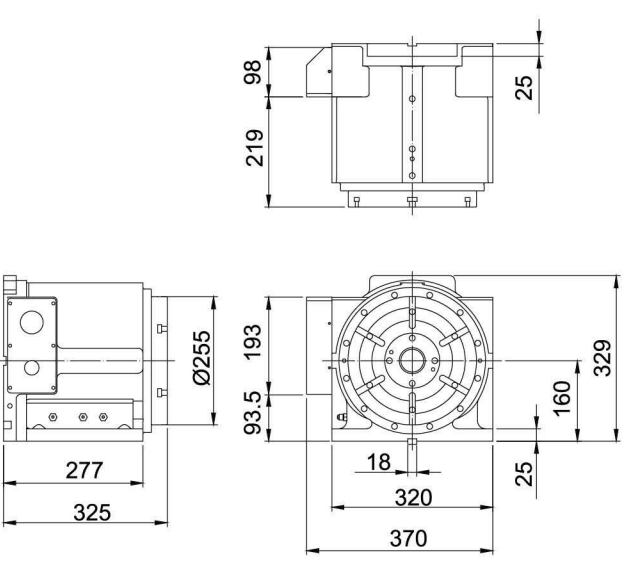
尺寸圖 Dimensions

單位 Unit : mm

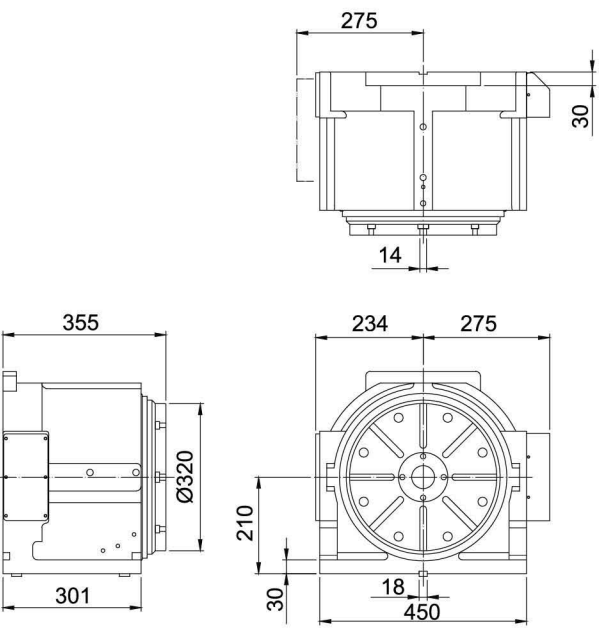
DRT-125



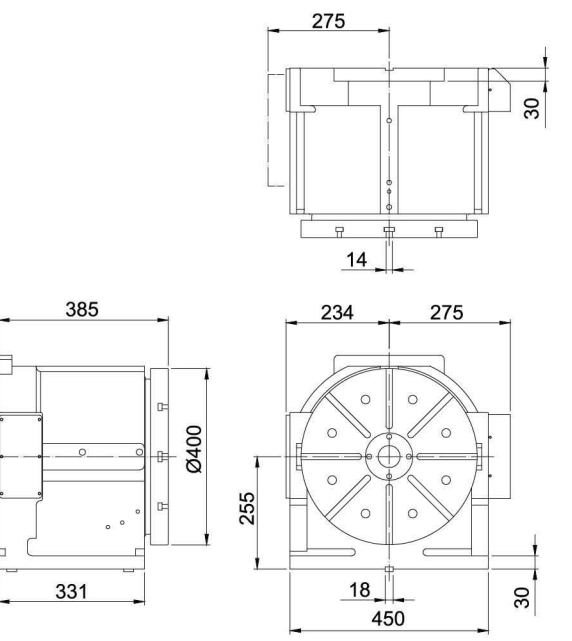
DRT-255A



DRT-320



DRT-400



多連軸型 Multi-spindle Type

型號選用說明 Item instruction



- ① V：氣壓系統 Pneumatic system
M：油壓系統 Hydraulic system
② 旋轉式 Rotary type
③ 伺服控制 Servo control
④ 盤面直徑 Table diameter
⑤ 馬達位置 Motor location
F：背後式 Back type
⑥ 分度盤數目 Quantity of rotary tables

- 旋轉台直徑 Ø125、Ø170、Ø210、Ø250mm (氣壓夾車)
- 獨特高齒深的複導程蝸桿傳動
- 最小分度角度0.001°
- Rotary table diameter Ø125, Ø170, Ø210, Ø250 mm (Pneumatic clamping)
- Exclusive dual lead worm drive.
- Minimum increment 0.001°



VRNC-210-3W

規格 / 型號 Specifications / Model		單位 Unit	VRNC-A125-2W VRNC-A125A-F-2W	VRNC-A125-3W VRNC-A125A-F-3W	VRNC-170-2W	VRNC-170-3W	VRNC-210-2W	VRNC-210-3W
旋台直徑 Worktable Diameter		mm	Ø125		Ø170		Ø210	
中心高度 Worktable Diameter 立式位置 Vertical		mm	150		180		205	
中心孔直徑 Center Bore Diameter		mm	Ø30 ^{H7}		Ø35 ^{H7}		Ø45 ^{H7}	
貫穿孔徑 Through-Hole Diameter		mm	Ø30		Ø35		Ø45	
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}		12 ^{H7}		12 ^{H7}	
導塊寬度 Width Of Guide Block		mm	14 ^{H7}		18 ^{H7}		18 ^{H7}	
最小設定單位 Minimum Input Increment		deg.	0.001°		0.001°		0.001°	
分度精度 Indexing Accuracy		sec.	40"		20"		20"	
重覆精度 Repeatability		sec.	4"		4"		4"	
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF 4		αiF 8		αiF 8	
	MITSUBISHI		HF-104S		HF-154S		HF-154S	
	SIEMENS		1FK7063		1FK7063		1FK7063	
	HEIDENHAIN		QSY116E		QSY116J		QSY116J	
總減速比 Speed Reduction Ratio			1/90		1/90		1/90	
盤面最高轉速 Max. Table Rotation Speed		r.p.m	44.4		33.3		33.3	
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	83.3(8.5)		147(15)		147(15)	
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	5 (Pne.)		5 (Pne.)		5 (Pne.)	
夾緊扭矩 Clamping Torque		N.m (kgf.m)	78.4(8)		78.4(8)		156.8(16)	
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	46×2=92	26×3=78	67×2=134	34×3=102	65×2=130	30×3=90
	使用尾座時 With Tail-Stock	kg	92	78	134	102	130	90
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F軸向力 F Axial force	N(kgf)	12000(1224)		14000(1428)		14000(1428)	
	FxL徑力 FxL Radial moment	N.m (kgf.m)	78.4(8)		78.4(8)		156.8(16)	
	FxL傾斜力矩 FxL Tilting moment	N.m (kgf.m)	450(45.9)		1020(104)		1020(104)	
容許負載慣性矩 Allowable Inertia Force	J=W.D ² /8	kg.m ² (kg.cm.sec ²)	0.09(0.92)	0.05(0.5)	0.24(2.47)	0.123(1.25)	0.36(3.66)	0.165(1.69)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	88	128	137	210	153	234

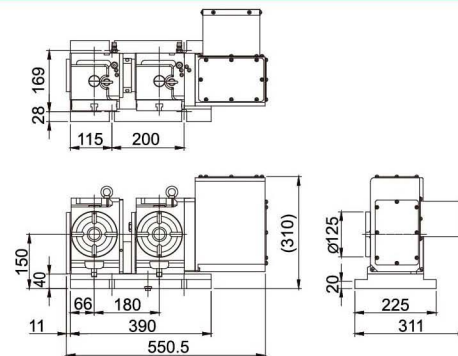
註：另有油壓機種 MRNC-255V-2W 雙頭連動電腦分度盤，歡迎來電索取圖面。

Note: MRNC-255V-2W hydraulic synchronized double-head CNC rotary table is available. Please contact us for drawing if necessity.

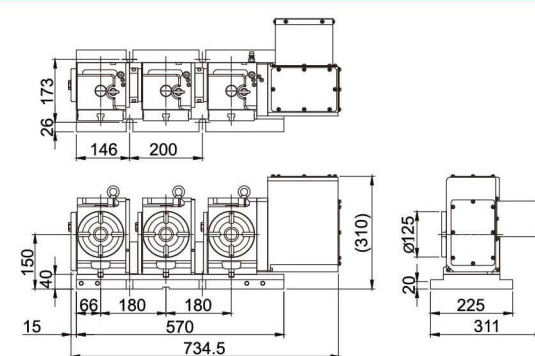
尺寸圖 Dimensions

單位 Unit : mm

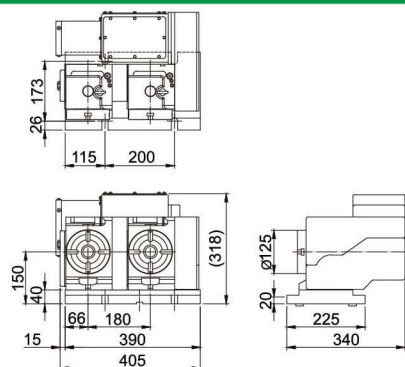
VRNC-A125-2W



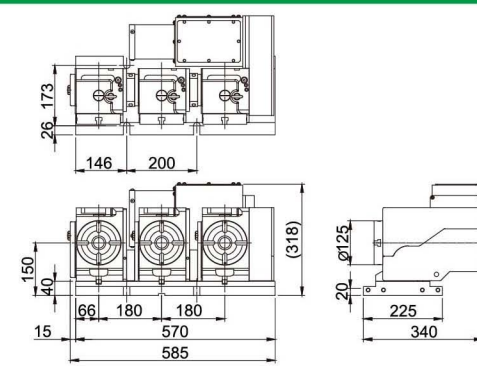
VRNC-A125-3W



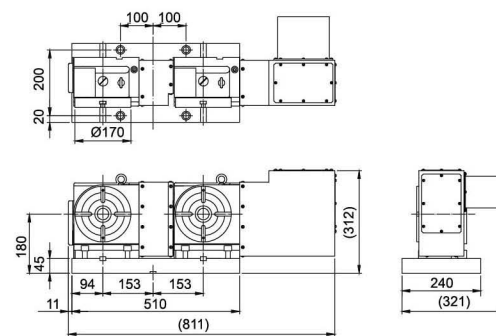
VRNC-A125A-F-2W



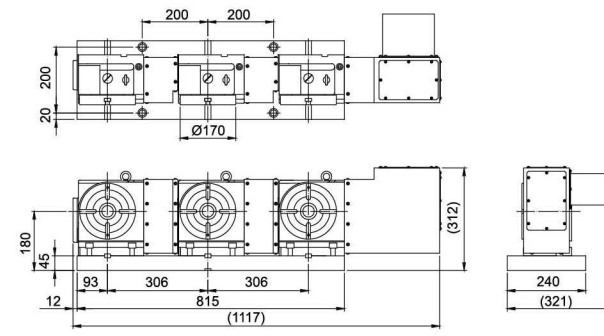
VRNC-A125A-F-3W



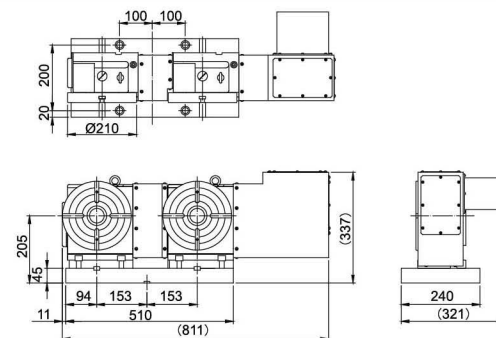
VRNC-170-2W



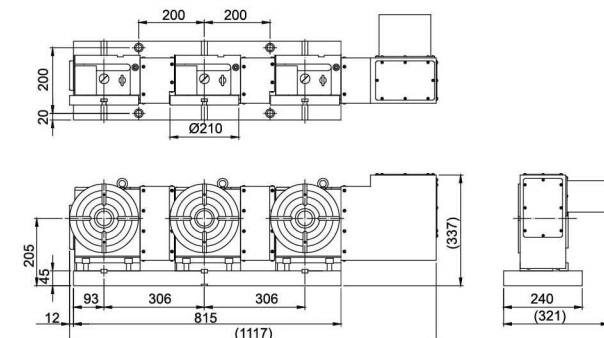
VRNC-170-3W



VRNC-210-2W



VRNC-210-3W



CNC Rotary Table
電腦數控分度盤

VRNC-A125 170

210(2W/3W)



CNC Rotary Table
電腦數控分度盤

VRNC-A125 170

210(2W/3W)

💡多連軸型 Multi-spindle Type

型號選用說明 Item instruction

RNC-A115C-□

① ② ③ ④

- 採用氣壓式鎖緊，工件夾持壓力可經由氣壓調整
- 適用於鑽孔及輕銼削加工
- 氣壓筒夾夾頭可使用各種型式的5C筒夾
- 適合夾持小工件
- 採用標準5C筒夾夾持
- 獨特複導程蝸桿傳動
- Pneumatic locking is adopted, and the workpiece clamping pressure can be adjusted by air pressure.
- Suitable for drilling and light milling.
- Air pressure collet chucks can use various types of 5C collet.
- Ideal choice for holding small parts.
- Clamping parts using stand 5C collet.
- Exclusive dual lead wormdrive.

- ① 筒夾夾持系統 Collet type
- ② 版本 Version
- ③ 中心高度 Center Height :110mm
筒夾 Collet : 標準5C型 Stand 5C
- ④ 無 None : 手動 Manual
S : 單缸 Single cylinder
D : 雙缸 Dual cylinders



RNC-A115C-S-4W

規格 / 型號 Specifications / Model		單位 Unit	RNC-50	RNC-100	RNC-A115C
旋台直徑 Worktable Diameter		mm	Ø48	Ø100	—
工作台高度 Table Height	臥式位置 Horizontal	mm	83	137	—
中心高度 Center Height	立式位置 Vertical	mm	80	110	110
中心孔直徑 Center Bore Diameter		mm	Ø20 ^{H7} Dep.10	Ø25 ^{H7} Dep.16	—
工作台T型槽寬度 Width Of T-Slot		mm	—	10 ^{H7}	—
筒夾 Collets			—	—	標準5C(最大夾徑26mm) Standard 5C(Max. Gripping Dia. 26mm)
導塊寬度 Width Of Guide Block		mm	12 ^{H7}	14 ^{H7}	14 ^{H7}
蝸輪齒數 Number Of Worm Gear Teeth			48	72	48
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	Max. 60"	Max. 60"	±30"
重複精度 Repeatability		sec.	4"	4"	—
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		βiS 1 / 400w	αiF 1 / 500w	αiF 2 / 750w
	MITSUBISHI		—	—	HF-75S / 750w
	SIEMENS		1FK7042	1FK7042	1FK7042
	HEIDENHAIN		QSY-96A	QSY-96A	QSY-96A
總減速比 Speed Reduction Ratio			1/48	1/48	1/48
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	62.5	62.5	41.6
容許旋轉扭矩 Pressure (Clamping System)		N.m (kgf.m)	40(4.08)	80(8.2)	40(4.08)
使用壓力(鎖緊方式) Allowable Turntable Torque		kg/cm ²	—	標準無/選配5(氣壓) Standard None / Optional 5 (Air Pressure)	—
夾緊扭矩 Clamping Torque		N.m (kgf.m)	—	標準無/選配80(8.2) Standard None / Optional 80 (8.2)	—
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	25	50	25
	臥式安裝時 Horizontal	kg	50	100	—
	使用尾座時 With Tail-Stock	kg	50	100	50
容許切削負載力矩 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	2940(300)	5880(600)	2940(300)
	FxL徑向力 FxL Radial moment	N.m (kgf.m)	40(4.08)	80(8.2)	40(4.08)
	FxL傾斜力矩 FxL Tilting moment	N.m (kgf.m)	78(7.95)	156(15.9)	78(7.95)
容許負載慣性矩 Allowable Inertia Force	J=W.D ² /8	kg.m ² (kg.cm.sec ²)	0.02 (0.16)	0.13 (1.28)	0.01 (0.08)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	20	25	24(手動Manual)

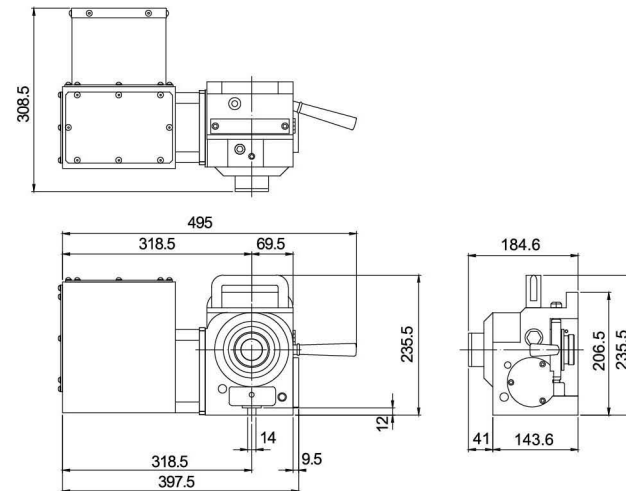
註：1.RNC-50(盤面Ø48mm)及RNC-100(盤面Ø100mm)規格，請來電洽詢索取外型圖。

Note：1.There are RNC-50(Table diameter Ø48mm) and RNC-100(Table diameter Ø100mm) model,please contact us for drawing if necessity.

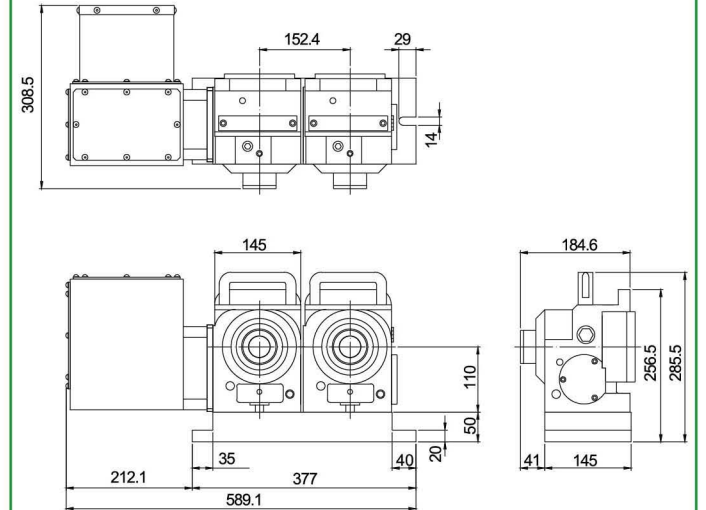
💡尺寸圖 Dimensions

單位 Unit : mm

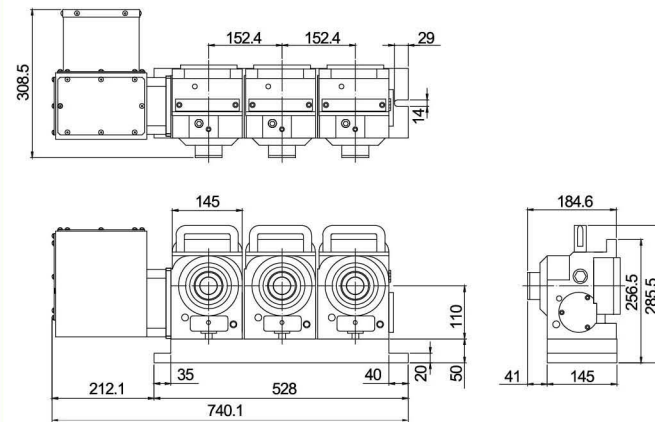
RNC-A115C



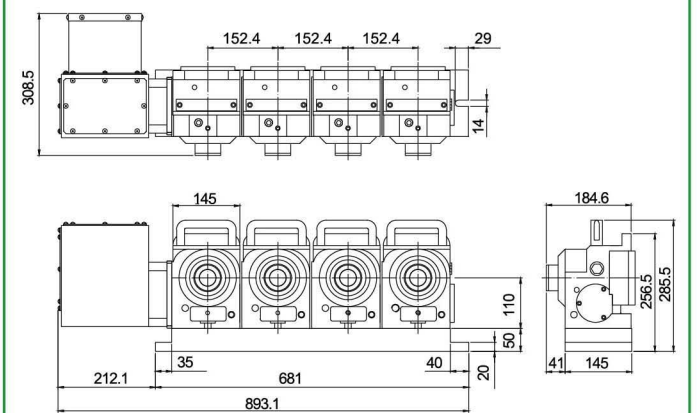
RNC-A115C-S-2W



RNC-A115C-S-3W



RNC-A115C-S-4W



MINC-400-N

① ② ③ ④ ⑤

- ① 油壓系統 Hydraulic system
 - ② 固定等分分割 Indexing
 - ③ 伺服控制 Servo control
 - ④ 盤面直徑 Table diameter
 - ⑤ 馬達罩 Motor cover
- N：縮小鉸金 Shortened

- 旋轉台直徑 Ø255、Ø320、Ø400、Ø500 mm（立、臥兩用）
- 電腦數控齒式分度盤
- 獨特三片式齒盤結構，適合重切削
- 分割精度 ±5 秒
- 最小分度 1° 或 5°

- Worktable diameter Ø255, Ø320, Ø400, Ø 500 mm (Vertical & Horizontal applications).
- CNC gear coupling rotary table.
- Exclusive 3-piece coupling suits heavy duty machining.
- Indexing accuracy ±5".
- Minimum increment angle 1° or 5°



MINC-400



▶ 三片式齒式離合盤
Exclusive 3-pieces coupling

規格 / 型號 Specifications / Model		單位 Unit	MINC-255/255-N	MINC-320/320-N	MINC-400/400-N	MINC-500A
旋台直徑 Worktable Diameter		mm	Ø255	Ø320	Ø400	Ø500
工作台高度 Table Height	臥式位置 Horizontal	mm	195	250	260	290
中心高度 Center Height	立式位置 Vertical	mm	160	210	255	310
中心孔直徑 Center Bore Diameter		mm	Ø40 ^{H7}	Ø100 ^{H7}	Ø120 ^{H7}	Ø120 ^{H7}
貫穿孔徑 Through-Hole Diameter		mm	Ø33	Ø80	Ø80	Ø121
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}	14 ^{H7}	14 ^{H7}	18 ^{H7}
導塊寬度 Width Of Guide Block		mm	18 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}
分割角度 Indexing Angle		deg.	1° or 5°	1° or 5°	1° or 5°	1° or 5°
分度精度 Indexing Accuracy		sec.	±5"	±5"	±5"	±5"
重複精度 Repeatability		sec.	±1"	±1"	±1"	±1"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF4	αiF8	αiF12	αiF12
	MITSUBISHI		HF-104S	HF-154S	HF-204S	HF-204S
	SIEMENS		1FK7063	1FK7063	1FK7083	1FK7083
	HEIDENHAIN		QSY116E	QSY116J	QSY155B	QSY155B
總減速比 Speed Reduction Ratio			1/120	1/120	1/120	1/180
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	33.3	25	25	16.6
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	2940 (300)	3920 (400)	4900 (500)	6370 (650)
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	125	175	250	400
	臥式安裝時 Horizontal	kg	300	350	500	700
	使用尾座時 With Tail-Stock	kg	300	350	500	700
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force	N (kgf)	16000(1632)	20000(2040)	30000(3060)	40000(4080)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	2940(300)	3920(400)	4900(500)	6370(650)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	3430(350)	4410(450)	5390(550)	6370(650)
容許負載慣性矩 J=W.D ² /8 Allowable Inertia Force	立式安裝時 Vertical	kg.m ² (kg.cm.sec ²)	1.0(10.4)	2.3(23)	5(51)	12.5(128)
	臥式安裝時 Horizontal	kg.m ² (kg.cm.sec ²)	2.5(25)	4.5(46)	10(102)	22(223)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	115	205	300	450

註：1.接線盒可選置放於分度盤之側方、上方或後方位置。 2."N"代表縮小鉸金規格，歡迎來電洽詢索取縮小鉸金外型圖。

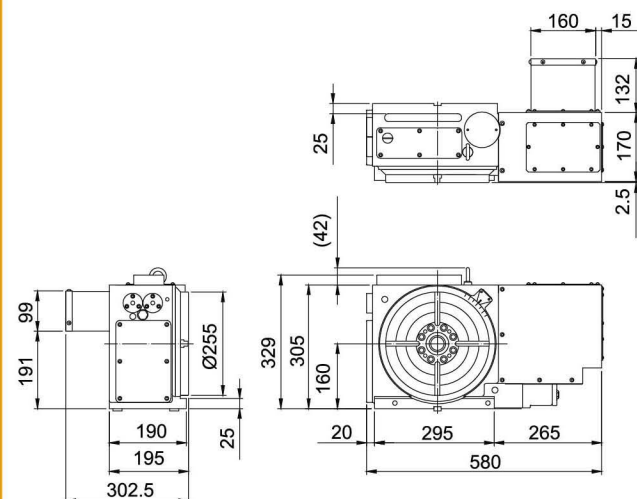
Note：1.Choice of junction box location at side, top or back of the rotary table.

2."N" means shortened motor cover, please contact us for shortening drawing if necessity.

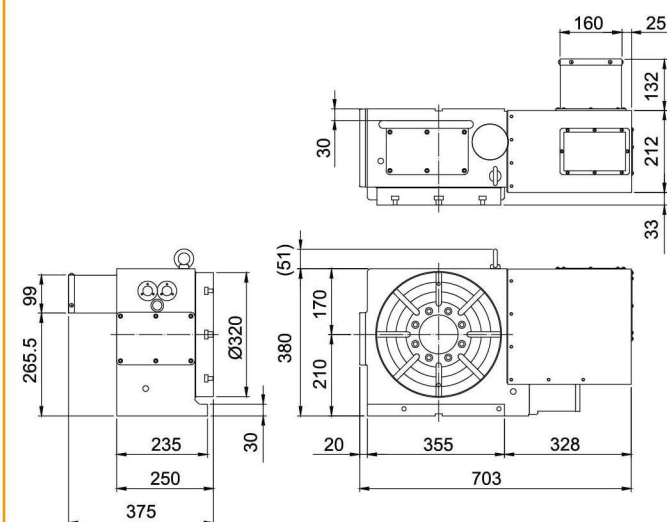
尺寸圖 Dimensions

單位 Unit : mm

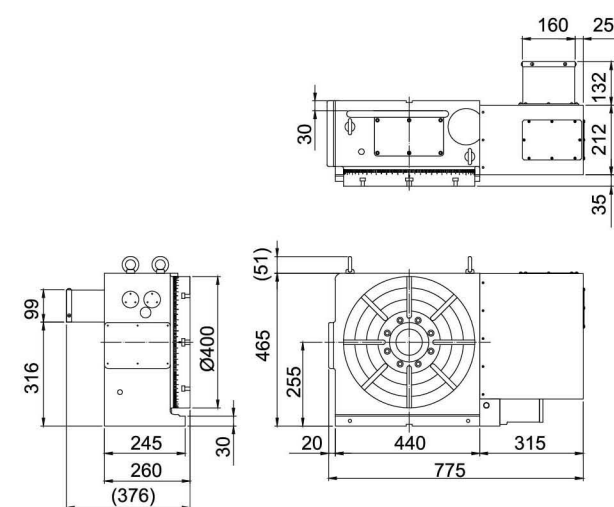
MINC-255



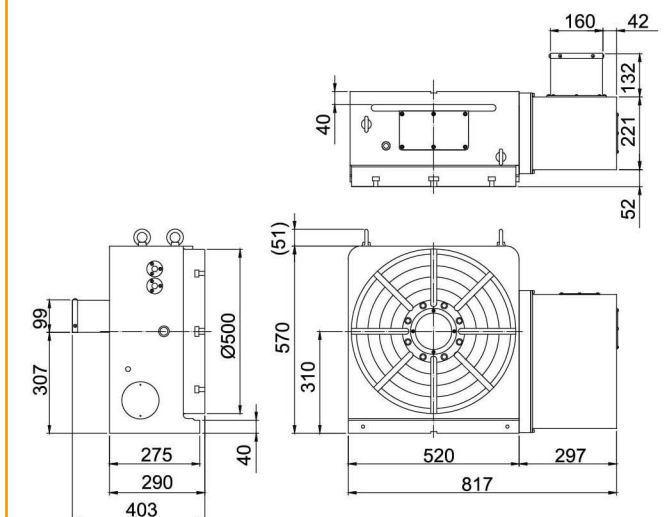
MINC-320



MINC-400



MINC-500A



HINC-630

① ② ③ ④ ⑤

- ① 臥式加工油壓系統
Horizontal machining hydraulic system
- ② 固定等分分割 Indexing
- ③ 伺服控制 Servo control
- ④ 盤面尺寸 Table size
- ⑤ 盤面型式Table type S：方形 Square

- 採用精密三片式齒型離合盤，定位精度高，盤面不會上升。
- 伺服馬達驅動，齒式離合盤定位，適合多樣化的角度加工。
- 高齒深的複導程蝸桿組傳動，定位時間短，可正逆轉。
- 強力油壓齒盤鎖緊方式，適合重切削。
- 可與 CNC 搪銑床連線成為第四軸，或搭配單軸控制器使用。



三片式齒式離合盤
Exclusive 3-pieces coupling

- High precision 3-piece gear clutch provides high positioning accuracy and table won't be risen.
- Servo motor drive combined with gear clutch positioning makes the unit suitable for flexible angular machining.
- Dual lead worm transmission provides minimum positioning time and allows for reversible rotation.
- Powerful hydraulic clamping system suits heavy duty machining.
- Can be online with CNC boring machine to serve as a fourth spindle, or used together as a single axis controller.

規格 / 型號 Specifications / Model		單位 Unit	HINC-400S	HINC-A500S	HINC-630S	HINC-800S	HINC-A1000S
使用方式 Application Machine Type			臥式Horizontal	臥式Horizontal	臥式Horizontal	臥式Horizontal	臥式Horizontal
旋台直徑 Worktable Diameter		mm	400X400	500X500	630X630	800X800	1000X1000
工作台高度 Table Height		mm	280	290	330	380	400
中心孔直徑 Center Bore Diameter		mm	120 ^{H7} Dep.15	120 ^{H7} Dep.15	50 ^{H7} Dep.15	50 ^{H7} Dep.28	60 ^{H7} Dep.28
工作台T型槽寬度 Width Of T-Slot		mm	18 ^{H7}	18 ^{H7}	18 ^{H7}	22 ^{H7}	22 ^{H7}
分割角度 Indexing Angle		deg.	1° or 5°	1° or 5°	1° or 5°	1° or 5°	1° or 5°
分度精度 Indexing Accuracy		sec.	±5"	±5"	±5"	±5"	±5"
重覆精度 Repeatability		sec.	±1"	±1"	±1"	±1"	±1"
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF12	αiF12	αiF12	αiF22	αiF22
	MITSUBISHI		HF-204S	HF-204S	HF-204S	HF-354S	HF-354S
	SIEMENS		1FK7083	1FK7083	1FK7083	1FK7101	1FK7101
	HEIDENHAIN		QSY155B	QSY155B	QSY155B	QSY155D	QSY155D
總減速比 Speed Reduction Ratio			1/120	1/180	1/180	1/180	1/360
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	25	16.6	16.6	16.6	5.6
使用壓力(鎖緊方式) Allowable Turntable Torque		kg/cm²	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
夾緊力 Clamping Torque		N(kgf)	4900(500)	6370 (650)	33320(3400)	51940(5300)	51940(5300)
容許工件載重 臥式安裝時 Allowable Load Capacity Horizontal		kg	500	700	2500	3000	5000
容許切削負載力矩 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	30000(3060)	40000(4080)	55000(5612)	94080(9600)	98000(10000)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	4900(500)	6370(650)	(8232)840	19110(1950)	16170(1650)
	FxL 傾斜力矩 FxL Tilling moment	N.m (kgf.m)	5390(550)	6370(650)	19404(1980)	39200(4000)	22638(2310)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	—	—	800	1000	2000

註:盤面可選擇方形、圓形或依客戶需求指定。
Note : 1.There are circle and square of worktable for choice or depend on design from customer's requirement.



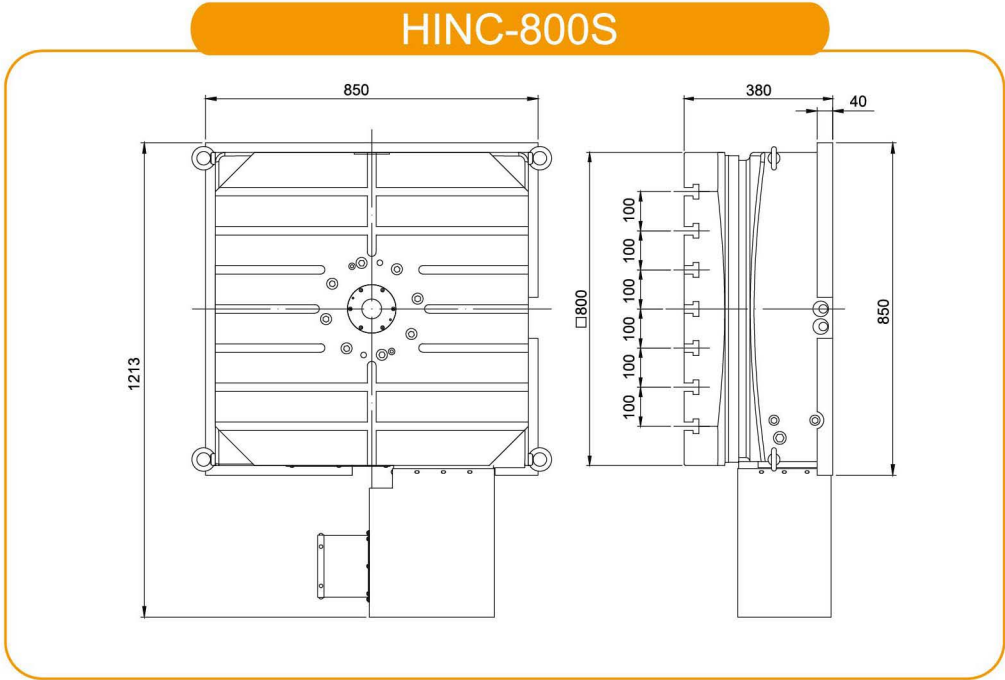
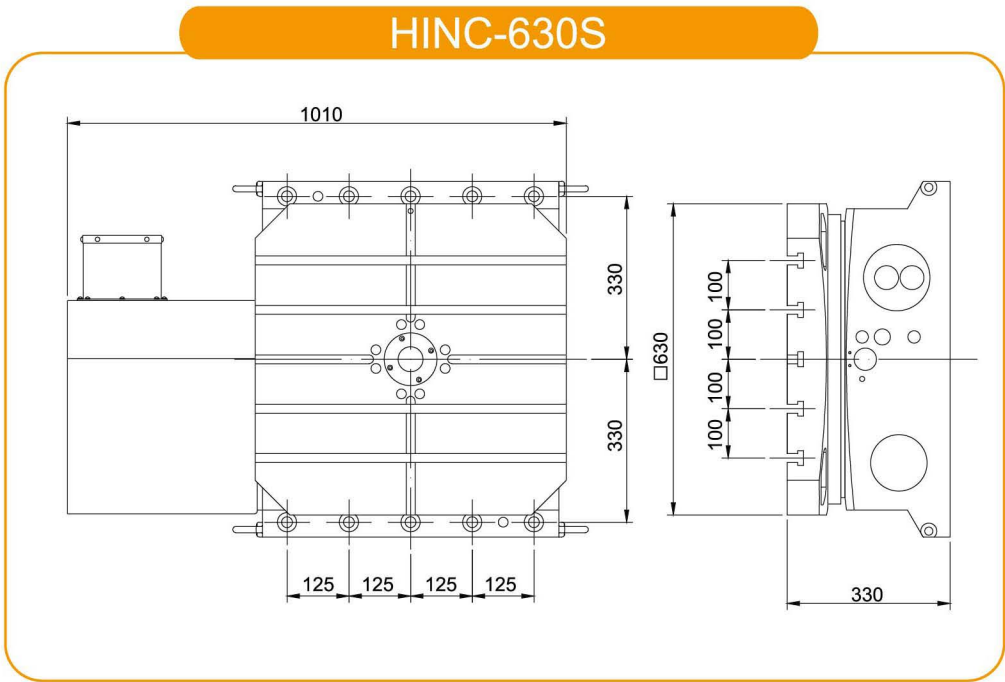
HINC-800S



HINC-630S

尺寸圖 Dimensions

單位 Unit : mm



型號選用說明 Item instruction

MIHC-255

- 油壓驅動
- 可正轉、反轉
- 分割精度±5秒
- 獨特三片式離合盤

- Driven by hydraulic
- Clockwise & counter-clockwise rotation.
- Indexing accuracy ±5" .
- Exclusive 3-piece coupling.

- ① 油壓系統 hydraulic system
- ② 固定等分分割 Indexing
- ③ 油壓控制系統 hydraulic control system
- ④ 盤面直徑 Table diameter
- ⑤ V：立式專用 Vertical
H：臥式專用 Horizontal



MIHC-255V

規格 / 型號 Specifications / Model		單位 Unit	MIHC-255V		MIHC-320V	MIHC-470V	MIHC-500V
旋台直徑 Worktable Diameter		mm	Ø255		Ø320	Ø470	Ø500
中心高度 Center Height		mm	160	190	210	255	310
總高度 Overall Height		mm	298	328	400	490	545
中心孔直徑 Center Bore Diameter		mm	Ø30 ^{H6}	Dep.36	Ø65 ^{H6} Dep.11	Ø90 ^{H6} Dep.11	Ø90 ^{H6} Dep.11
貫穿孔徑 Through-Hole Diameter		mm	Ø27		Ø31	Ø46	Ø41
割出數 (等分) Index Numbers	標準 Standard	2, 3, 4, 6, 8, 12等分 (其中一種固定分割) 2,3,4,6,8,12 Indexes (One Fixed Index)					
	特殊 Optional	5, 9, 10...等分 (接受訂製) 5,9,10... Indexes (Customized)					
分度精度 Indexing Accuracy		sec.	±5"				
重覆精度 Repeatability		sec.	±1"				
旋轉台迴轉方向 Rotating Direction			CW.&CCW. 順時鐘方向或反時鐘方向均可 CW.&CCW.Clockwise And Counterclockwise				
旋轉台迴轉扭力 Turntable rotating torque		kgf-m	30		60	80	80
容許瞬間慣性 Allowable Instant Inertia (GD ²)=W·Da ² /2(kgm ²)		kg.m ²	25		85	180	180
夾持力 Clamping Force		N(kgf)	13230(1400)		15680(1600)	38906(3970)	38906(3970)
使用壓力(鎖緊方式) Working Pressure		kg/cm ²	35		35	35	35
旋轉的時間(每90°含鬆開夾緊) Rotating Time(90 degrees each with loosening clamping)		s	2.8		3	3.4	3.5
本體固定方式 Locking Method			立式專用 Vert.				
容許工件載重 Allowable Load Capacity	立式安裝時 Horizontal 	kg	105		200	300	300
容許切削負載力矩 (轉盤夾緊時)	F 軸向力 F Axial force 	N(kgf)	13818(1410)		15200(1560)	38906(3970)	38906(3970)
	FxL 徑向力 FxL Radial moment 	N.m (kgf.m)	1197(122)		1421(145)	5390(550)	5390(550)
	FxL 傾斜力矩 FxL Tilting moment 	N.m (kgf.m)	2038(208)		3254(332)	13994(1428)	13994(1428)
旋台重量 Net Weight		kg	71	78	133	310	340

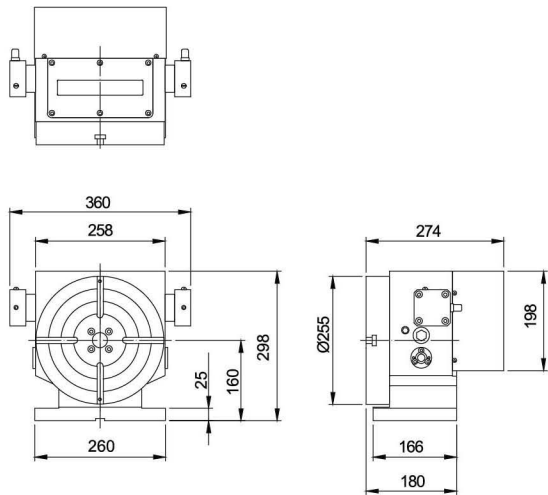
精度標準 Accuracy Standards :

項目 Item	單位 Unit	MIHC-255V	MIHC-320V	MIHC-470V	MIHC-500V
旋台主軸孔偏擺量 Runout In table center bore	mm	0.02	0.02	0.02	0.02
當旋轉時旋台頂之偏擺量 Runout of table top during rotation	mm	0.015	0.015	0.02	0.02
旋轉台盤面真直度 Flatness of table top	mm	0.02	0.02	0.02	0.02
旋轉台面與底面垂直度 Perpendicularity of table top to table bottom	mm	0.02	0.02	0.02	0.02

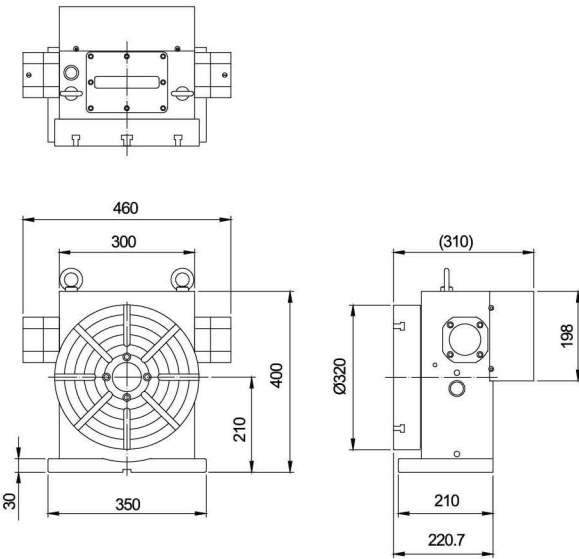
尺寸圖 Dimensions

單位 Unit : mm

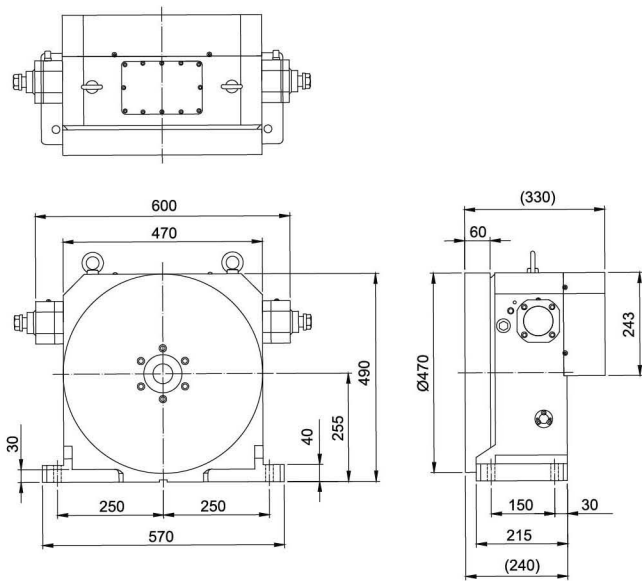
MIHC-255V



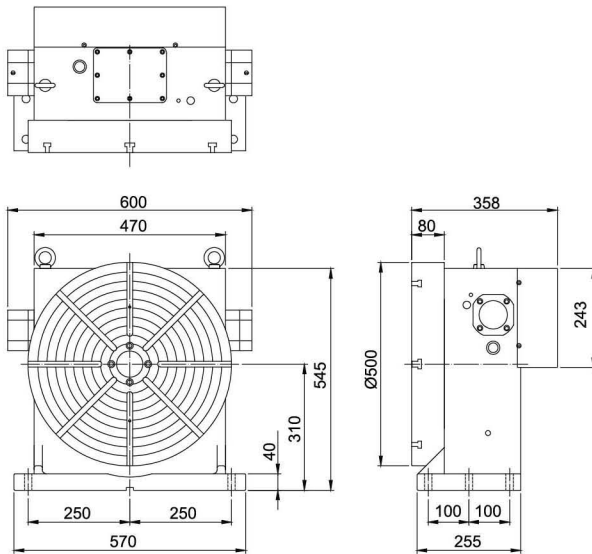
MIHC-320V



MIHC-470V



MIHC-500V



型號選用說明 Item instruction

MIHC-340

- ① ② ③ ④ ⑤

- ① 油壓系統 hydraulic system
② 固定等分分割 Indexing
③ 油壓控制系統 hydraulic control system
④ 盤面直徑 Table diameter
⑤ V：立式專用 Vertical
H：臥式專用 Horizontal

- 油壓驅動
● 可正轉、反轉
● 分割精度±5秒
● 獨特三片式離合盤

- Driven by hydraulic
● Clockwise & counter-clockwise rotation.
● Indexing accuracy ±5".
● Exclusive 3-piece coupling.



▶獨特三片式離合盤
Exclusive 3-piece coupling



MIHC-470H

規格 / 型號 Specifications / Model		單位 Unit	MIHC-340H	MIHC-470H	MIHC-600H	MIHC-800H
旋台直徑 Worktable Diameter		mm	Ø340	Ø470	Ø600	Ø800
總高度 Overall Height		mm	210	240	260	305
中心孔直徑 Center Bore Diameter		mm	Ø65 ^H Dep.11	Ø90 ^H Dep.11	Ø110 ^H Dep.18	Ø120 ^H Dep.40
貫穿孔徑 Through-Hole Diameter			Ø31	Ø41	Ø53	Ø80
割出數 (等分) Index Numbers	標準 Standard		2, 3, 4, 6, 8, 12等分 (其中一種固定分割) 2,3,4,6,8,12 Indexes (One Fixed Index)			
	特殊 Optional		5, 9, 10...等分 (接受訂製) 5,9,10... Indexes (Customized)			
分割精度 Indexing Accuracy		sec.	±5"			
重複精度 Repeatability		sec.	±1"			
旋轉台迴轉方向 Rotating Direction			CW.&CCW. 順時鐘方向或反時鐘方向均可 CW.&CCW.Clockwise And Counterclockwise			
旋轉台迴轉扭力 Turntable rotating torque		kgf-m	60	80	100	280
容許瞬間慣性 Allowable Instant Inertia (GD²)=W·Da²/2(kgm²)		kg.m²	85	180	500	1200
夾持力 Clamping Force		N(kgf)	15288(1560)	38906(3970)	77576(7916)	110740(11300)
使用壓力 (鎖緊方式) Working Pressure		kg/cm²	35	35	35	35
旋轉的時間 (每90°含鬆開夾緊) Rotating Time(90 degrees each with loosening clamping)		s	2.5	3.5	6	10
本體固定方式 Locking Method			臥式專用，盤面朝上 Horiz. Table Top Face Upward			
容許工件載重 Allowable Load Capacity		kg	500	700	1250	2400
容許切削負載力矩 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	15288(1560)	38906(3970)	63190(6448)	94080(9600)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	1421(145)	5390(550)	8232(840)	19110(1950)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	3254(332)	13994(1428)	194040(1980)	39200(4000)
旋台重量 Net Weight		kg	130	275	550	1000

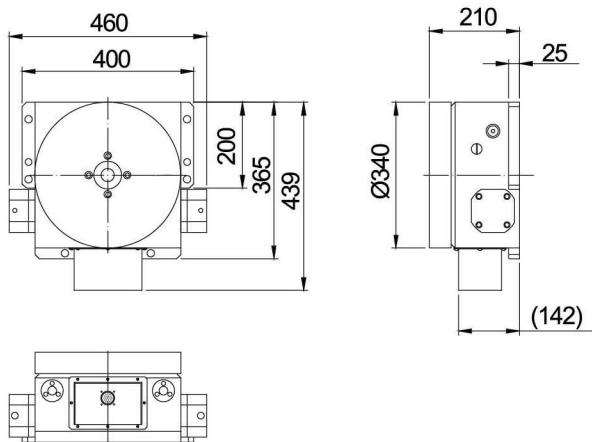
精度標準：Accuracy Standards

項目 Item	單位 Unit	MIHC-340H	MIHC-470H	MIHC-600H	MIHC-800H
旋台主軸孔偏擺量 Runout in table center bore	mm	0.02	0.02	0.02	0.02
當旋轉時旋台頂之偏擺量 Runout of table top during rotation	mm	0.015	0.02	0.02	0.02
旋轉台盤面真直度 Flatness of table top	mm	0.02	0.02	0.02	0.02
旋轉台面與底面平行度 Parallelism of table top to table bottom	mm	0.02	0.02	0.03	0.03

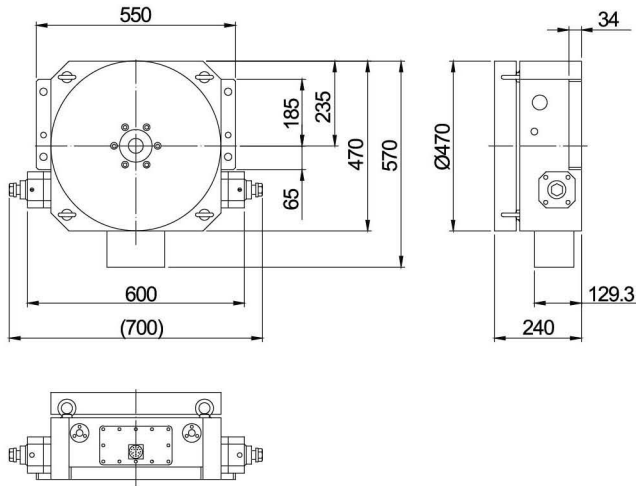
尺寸圖 Dimensions

單位 Unit : mm

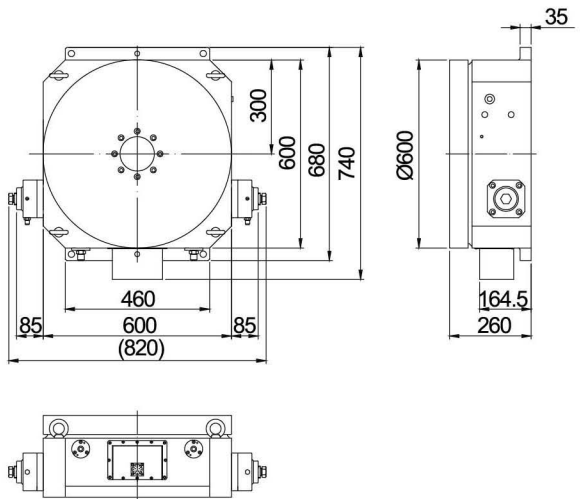
MIHC-340H



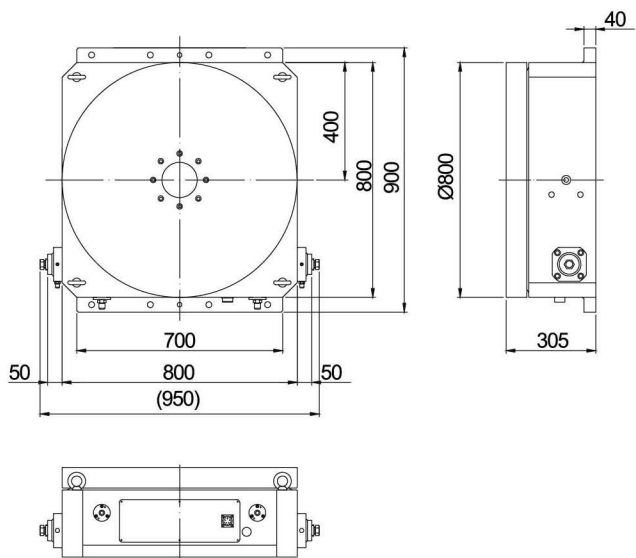
MIHC-470H



MIHC-600H



MIHC-800H



型號選用說明 Item instruction

SWT-600×1000

① ②

- ① 二位置交換 Exchanging 2-location
- ② 工作台尺寸 Table size

- 客製化產品
- 油壓驅動
- 尚有其他機型，歡迎來電洽詢索取
- 離合齒式定位，定位精準

- Customized table.
- Driven by hydraulic.
- Other models are available, contact us for more details.
- Gear coupling position.



SWT-600×1000



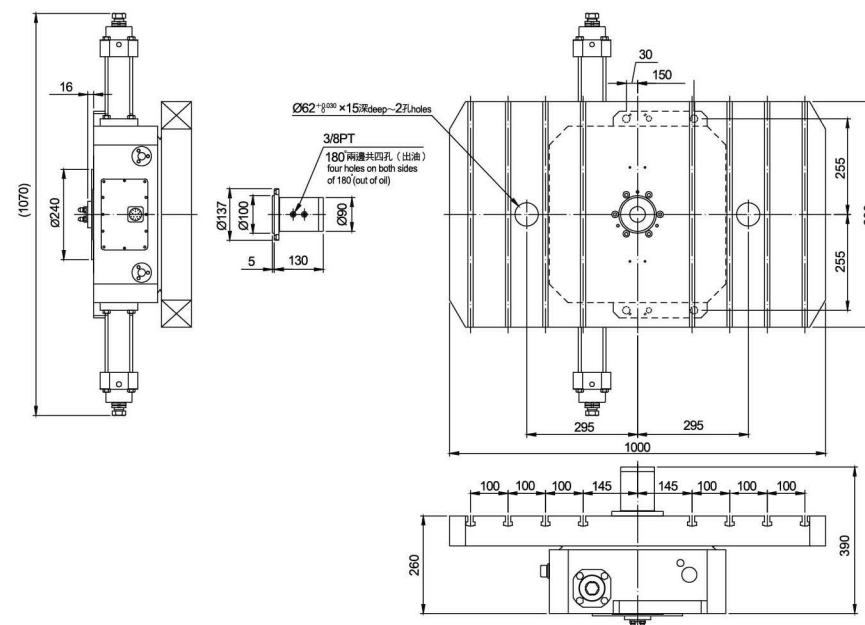
▶獨特三片式離合盤

規格 / 型號 Specifications / Model		單位 Unit	SWT-600×1000	SWT-700×910
旋台尺寸 Worktable Diameter		mm	600×1000	700×910
總高度 Overall Height		mm	260	260
中心孔直徑 Center Bore Diameter		mm	90 ^{H6}	90 ^{H6}
貫穿孔徑 Through-Hole Diameter		mm	41	41
割出數（等分）Index Numbers			2分割 2 Fixed Index	
分度精度 Indexing Accuracy		sec.	±5"	
旋轉台迴轉方向 Rotating Direction			順時鐘方向或反時鐘方向均可 Clockwise And counterclockwise	
旋轉台迴轉扭力 Turntable rotating torque		kgf·m	80	80
容許瞬間慣性 Allowable Instant Inertia (GD ²)=W·Da ² /2(kg·m ²)		kg·m ²	180	180
夾持力 Clamping Force		N(kgf)	3970	3970
使用壓力 Working Pressure		kg/cm ²	35	35
本體固定方式 Locking Method			臥式專用，盤面朝上 Horiz. Table Top Face Upward	
容許工件載重 Allowable Load Capacity	臥式安裝時 Horizontal	kg	700	700
	F 軸向力 F Axial force	N(kgf)	38906(3970)	38906(3970)
	FxL 徑向力 FxL Radial moment	N·m (kgf·m)	5390(550)	5390(550)
	FxL 傾斜力矩 FxL Tilting moment	N·m (kgf·m)	13994(1428)	13994(1428)
旋台重量 Net Weight		kg	-	-

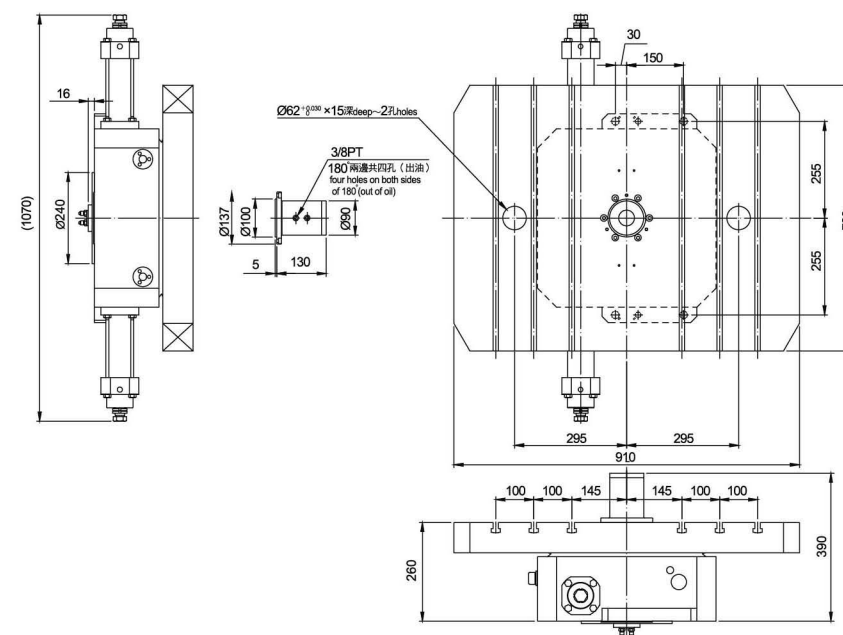
尺寸圖 Dimensions

單位 Unit : mm

SWT-600×1000



SWT-700×910



SWT-600×1000

SWT-700×910



型號選用說明 Item instruction

TVRNC-210

① ② ③ ④

- ① 手動傾斜軸 Manual tilting axis
- ② VR：氣壓剎車 Pneumatic clamping
- ③ 伺服控制 Servo control
- ④ 盤面直徑 Table diameter

- 旋轉台直徑 Ø125、Ø170、Ø210 mm（氣壓剎車）
- 獨特高齒深的複導程蝸桿傳動
- 適用於 4-1/2 軸加工，如“刀具加工”
- 傾斜軸可裝角度編碼器（特別附件）

- Rotary table diameters Ø125, Ø170, Ø210mm (Pneumatic clamping).
- Exclusive dual lead worm drive.
- Suitable for 4-1/2 axis machining, such as cutting tool machining.
- Tilting axis is able to be added Encoder(special attachments).

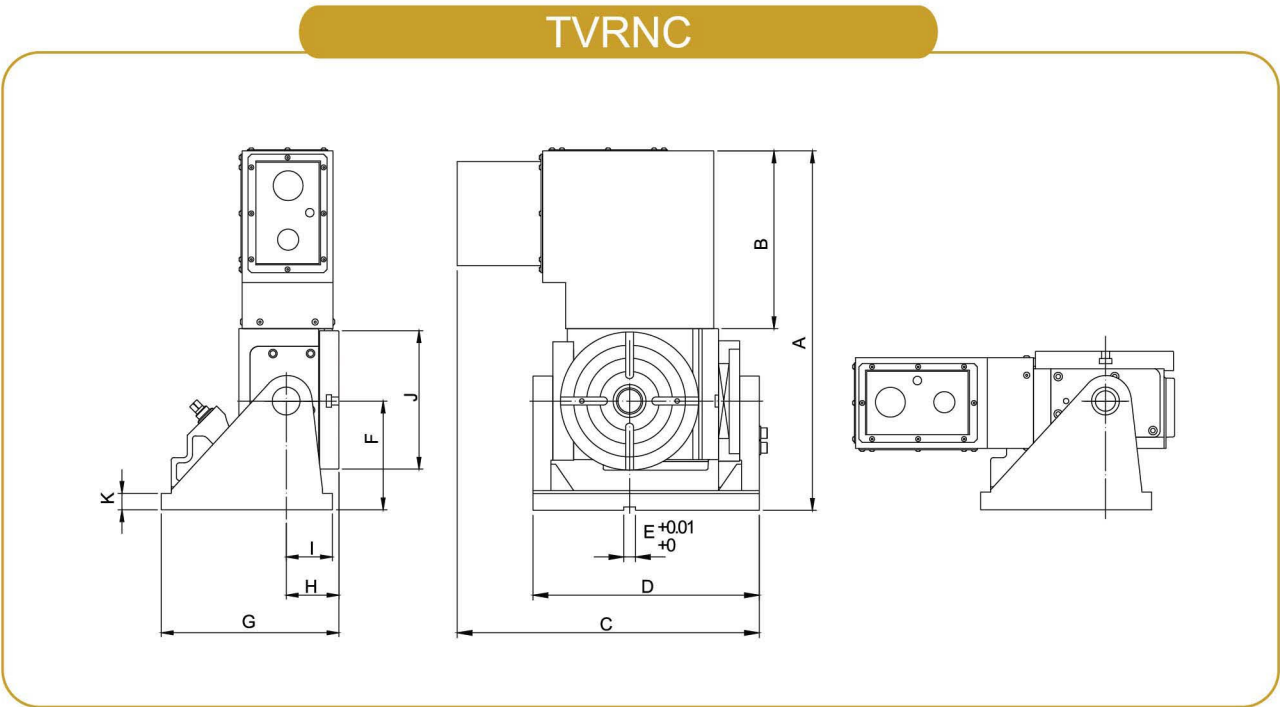


TVRNC-210

規格 / 型號 Specifications / Model		單位 Unit	TVRNC-125	TVRNC-170	TVRNC-210	
旋台直徑 Worktable Diameter		mm	Ø125	Ø170	Ø210	
工作台高度 (F+H) Table Height (F+H)		mm	219	241	241	
中心高度 Center Height		mm	135	166	166	
總高度 Overall Height		mm	435	546	546	
中心孔直徑 Center Bore Diameter		mm	Ø25 ^{H7}	Ø35 ^{H7}	Ø45 ^{H7}	
貫穿孔徑 Through-Hole Diameter		mm	Ø13	Ø35	Ø45	
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}	12 ^{H7}	12 ^{H7}	
導塊寬度 Width Of Guide Block		mm	18 ^{H7}	18 ^{H7}	18 ^{H7}	
傾斜角度 Tilting Angle		deg.	0°~105°	0°~105°	0°~105°	
軸 Axis			旋轉軸 Rotation	手動傾斜 Tilting	旋轉軸 Rotation	手動傾斜 Tilting
最小設定單位 Minimum Input Increment		deg.	0.001°	1°(刻線scratch)	0.001°	1°(刻線scratch)
分度精度 Indexing Accuracy		sec.	40"	—	20"	—
重覆精度 Repeatability		sec.	4"	—	4"	—
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF2	手動式 Manual	αiF4	手動式 Manual
	MITSUBISHI		HF-75S		HF-104S	
	SIEMENS		1FK7042		1FK7063	
	HEIDENHAIN		QSY96A		QSY116E	
總減速比 Speed Reduction Ratio			1/90	—	1/90	—
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	44.4	—	44.4	—
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	83.3(8.5)	—	147(15)	—
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	5(Pne.)	—	5(Pne.)	—
夾緊扭矩 Clamping Torque		N.m (kgf.m)	78.4(8)	—	78.4(8)	—
最大載重 Allowable Load Capacity	0° 0° (水平時)(Horizontal)	kg	70	—	85	—
	0°~90° 0°~90° (傾斜時)(Tilting)	kg	40	—	50	—
最大負荷 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	9700(989)	—	14000(1428)	—
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	78.4(8)	—	78.4(8)	—
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	440(45)	—	980(100)	—
容許負載慣性矩 Allowable Inertia Force		kg.m ² (kg.cm.sec ²)	0.14(1.4)	—	0.3(3.1)	—
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	70	—	78	—

尺寸圖 Dimensions

單位 Unit : mm



單位(Unit)：mm

NO.	TVRNC-125		TVRNC-170		TVRNC-210	
A	αiF 2	435	αiF 4	516	αiF 4	516
	HF-75S		HF-104S	506	HF-104S	506
B	αiF 2	230	αiF 4	240	αiF 4	240
	HF-75S		HF-104S	230	HF-104S	230
C	430		459		459	
D	320		344		344	
E	18		18		18	
F	135		166		166	
G	254		270		270	
H	74		80		80	
I	70		70		70	
J	Ø125		Ø170		Ø210	
K	20		25		25	



型號選用說明 Item instruction

① 手動傾斜軸 Manual tilting axis
② MR：油壓制車 Hydraulic clamping
③ 伺服控制 Servo control
④ 盤面直徑 Table diameter

TMRNC-255

- 旋轉台直徑 Ø255、Ø320、Ø400 mm（油壓制車）
 - 獨特高齒深的複導程蝸桿傳動
 - 適用於 4-1/2 軸加工，如“刀具加工”
 - 傾斜軸可裝角度編碼器（特別附件）
- Rotary table diameters Ø255, Ø320, Ø400mm (Hydraulic clamping).
 - Exclusive dual lead worm drive.
 - Suitable for 4-1/2 axis machining, such as cutting tool machining.
 - Tilting axis is able to be added Encoder(special attachments).



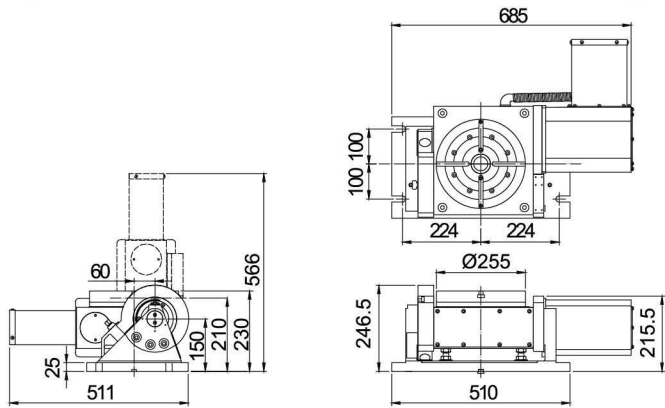
TMRNC-255

規格 / 型號 Specifications / Model		單位 Unit	TMRNC-255	TMRNC-320	TMRNC-400			
旋台直徑 Worktable Diameter		mm	Ø255	Ø320	Ø400			
工作台高度 Table Height	水平時 Horizontal	mm	230	380	375			
中心高度 Center Height	90°	mm	210	270	310			
總高度 Overall Height	90°	mm	565	811	764			
中心孔直徑 Center Bore Diameter		mm	Ø40 ^{H7}	Ø40 ^{H7}	Ø40 ^{H7}			
貫穿孔徑 Through-Hole Diameter		mm	Ø33	Ø40	Ø40			
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}	14 ^{H7}	14 ^{H7}			
導塊寬度 Width Of Guide Block		mm	18 ^{H7}	18 ^{H7}	18 ^{H7}			
傾斜角度 Tilting Angle		deg.	0°~105°	0°~105°	0°~105°			
軸 Axis			旋轉軸 Rotation	手動傾斜 Tilting	旋轉軸 Rotation	手動傾斜 Tilting		
最小設定單位 Minimum Input Increment		deg.	0.001°	1°(刻線scratch)	0.001°	1°(刻線scratch)		
分割精度 Indexing Accuracy		sec.	15″	—	15″	—		
重覆精度 Repeatability		sec.	4″	—	4″	—		
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF8	手動 Manual	αiF12	手動 Manual	αiF12	
	MITSUBISHI		HF-154S		HF-204S		HF-204S	
	SIEMENS		1FK7063		1FK7083		1FK7083	
	HEIDENHAIN		QSY116J		QSY155B		QSY155B	
總減速比 Speed Reduction Ratio			1/180	—	1/180	—	1/180	—
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	22.2	—	16.6	—	16.6	—
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	470(48)	—	764(78)	—	1666(170)	—
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	35 (Hyd.)	—	35 (Hyd.)	—	35 (Hyd.)	—
夾緊扭矩 Clamping Torque		N.m (kgf.m)	490(50)	—	833(85)	—	1764(180)	—
容許負載慣性矩 Allowable Inertia Force	0° 0° (水平時)(Horizontal)	kg	150	200		300		
	0°~90° 0°~90° (傾斜時)(Tilting)	kg	80	130		150		
最大負荷 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	13720(1400)		16660(1700)		19600(2000)	
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	490(50)		833(85)		1764(180)	
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	833(85)		1078(110)		1764(180)	
容許負載慣性矩 Allowable Inertia Force		J=W.D ² /8	kg.m ² (kg.cm.sec ²)	1.2(12.4)		2.56(26.1)		6(61.2)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	130		230		330	

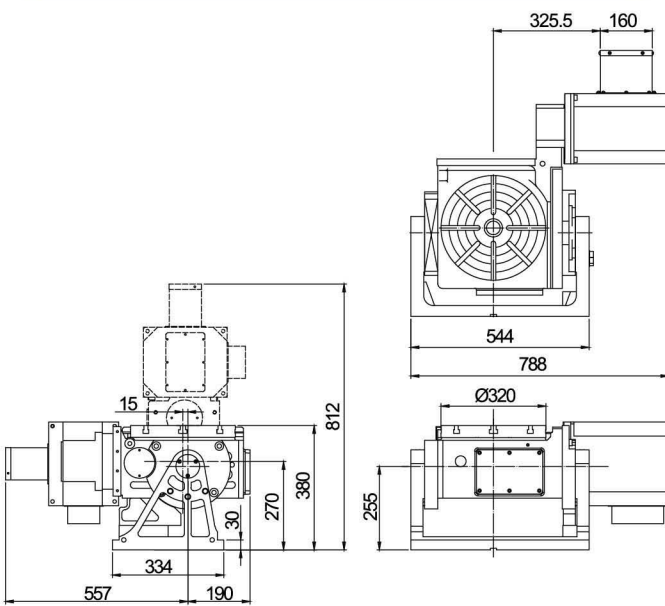
尺寸圖 Dimensions

單位 Unit : mm

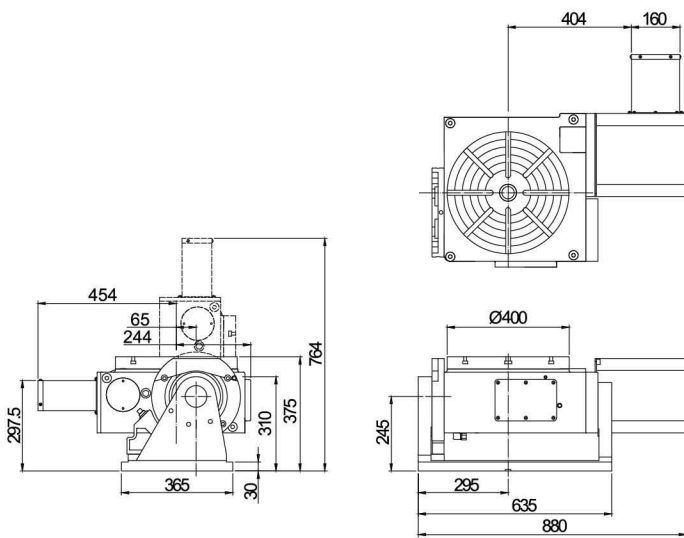
TMRNC-255



TMRNC-320



TMRNC-400



TRNC-255B-

- 建議傾斜軸用絕對值馬達。
● Absolute value motor are recommended for tilting axis.

- ① 五軸系列 5 axis series
② 伺服控制 Servo control
③ 盤面直徑 Table diameter
④ 結構型式 Constructing type



TRNC-255B

規格 / 型號 Specifications / Model		單位 Unit	TRNC-125-H		TRNC-170C		TRNC-210C		TRNC-255A		TRNC-255B	
旋台直徑 Worktable Diameter		mm	Ø125		Ø170		Ø210		Ø255		Ø255	
工作台高度 Table Height	水平時 Horizontal	mm	240		280		280		400		330	
中心高度 Center Height	90°	mm	150		190		190		400		235	
總高度 Overall Height	90°	mm	260		380		380		550		388	
中心孔直徑 Center Bore Diameter		mm	Ø25 ^{H7}		Ø35 ^{H7}		Ø45 ^{H7}		Ø50 ^{H7}		Ø100 ^{H7}	
貫穿孔徑 Through-Hole Diameter		mm	Ø13		Ø35		Ø45		—		Ø100	
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}		12 ^{H7}		12 ^{H7}		12 ^{H7}		12 ^{H7}	
導塊寬度 Width Of Guide Block		mm	14 ^{H7}		18 ^{H7}		18 ^{H7}		18 ^{H7}		18 ^{H7}	
傾斜角度 Tilting Angle		deg.	-40°~+120°		-35°~+120°		-35°~+110°		-30°~+120°		-40°~+120°	
軸 Axis			旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting
最小設定單位 Minimum Input Increment		deg.	0.001°		0.001°		0.001°		0.001°		0.001°	
分割精度 Indexing Accuracy		sec.	40″	60″	20″	60″	20″	60″	15″	★20″	15″	60″ ★20″
重覆精度 Repeatability		sec.	4″	8″	4″	8″	4″	8″	4″	★8″	4″	8″
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF2	αiF2	αiF4	αiF4	αiF4	αiF4	αiF 4 ◆αiF 8	αiF8	αiF 4 ◆αiF 8	αiF8
	MITSUBISHI		HF-75S	HF-75S	HF-104S	HF-104S	HF-104S	HF-104S	HF-104S ◆HF-154S	HF-154S	HF-104S ◆HF-154S	HF-154S
	SIEMENS		1FK7042	1FK7042	1FK7063	1FK7063	1FK7063	1FK7063	1FK7063	1FK7063	1FK7063	1FK7063
	HEIDENHAIN		QSY96A	QSY96A	QSY116E	QSY116E	QSY116E	QSY116E	QSY116J	QSY116J	QSY116J	QSY116J
總減速比 Speed Reduction Ratio			1/90	1/180	1/90	1/120	1/90	1/120	1/120	1/120	1/90	1/180
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	55.5	27.7	44.4	33.3	44.4	33.3	25	25	33.3	16.6
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	98(10)		196(20)		196(20)		568(58)		568(58)	
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	5 (Pne.)	35 (Hyd.)	5 (Pne.)	5 (Pne.)	5 (Pne.)	5 (Pne.)	5 (Pne.)	5 (Pne.)	35 (Hyd.)	35 (Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	83(8.5)	167(17)	160(16)	160(16)	160(16)	160(16)	◎686(70)	◎980(100)	686(70)	686(70)
容許工件載重 Allowable Load Capacity	0° 0° (水平時) (Horizontal)	 kg	50		50		50		100		140	
	0°~90° 0°~90° (傾斜時) (Tilting)	 kg	35		35		35		75		80	
最大傾斜扭力 MAX.Tilting angle	WxL	 N.m (kgf.m)	25(2.5)		60(6)		60(6)		80(8)		150(15)	
最大負荷 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force	 N(kgf)	4000(400)		5000(510)		5000(510)		14000(1428)		16000(1632)	
	FxL 徑向力 FxL Radial moment	 N.m (kgf.m)	83(8.5)		160(16)		160(16)		490(50)		450(46)	
	FxL 傾斜力矩 FxL Tilting moment	 N.m (kgf.m)	167(17)		160(16)		160(16)		686(70)		686(70)	
容許負載慣性矩 Allowable Inertia Force	J=W.D ² / 8	 kg.m ² (kg.cm.sec ²)	0.098(1)		0.18(1.8)		0.28(2.8)		0.81(8.3)		1.13(11.6)	
最大工作直徑 Allowable Workpiece Diameter		mm	Ø125		Ø170		Ø210		Ø255		Ø255	
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	106		126		131		650		300	

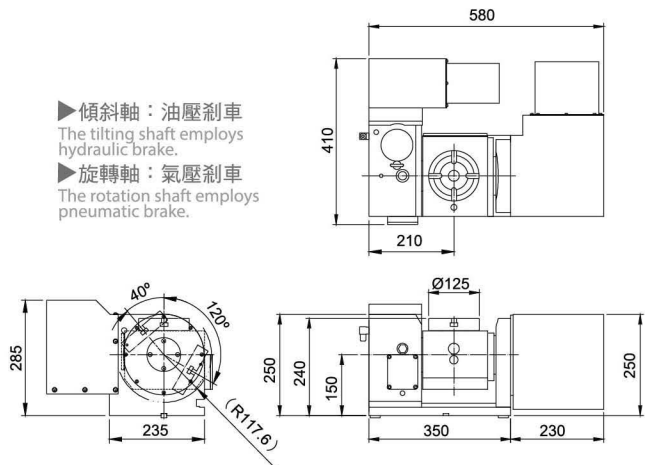
註：1."★"為搭配海德漢RCN2000(±5")系列光學尺。2."◎"為搭配內置式氣轉油。3.TRNC-170C，TRNC-210C傾斜軸有電機側置式之選擇，如TRNC-125-H。(L型式)。4.皮帶式傳動必須安裝光學尺。5."◆"為建議使用。

Note: 1."★" Means with encoder of HEIDENHAIN RCN-2000(±5") SERIES. 2."◎"Means With built-in pneumatic/hydraulic converter 3.The tilting shaft on model TRNC-170C and TRNC-210C provides a choice of electric side mounting as TRNC-125-H.(L type) 4.Types of belt drive to use encoder 5."◆"Recommended use.

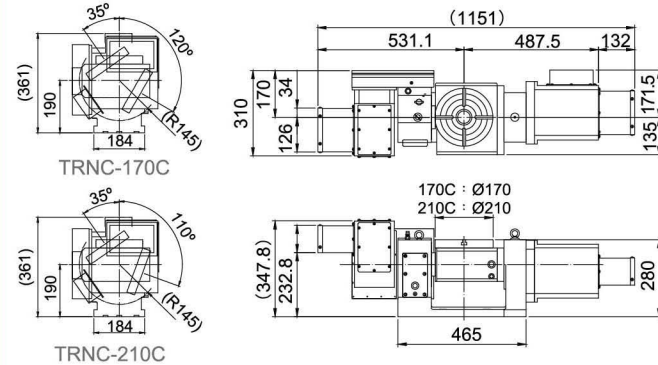
尺寸圖 Dimensions

單位 Unit : mm

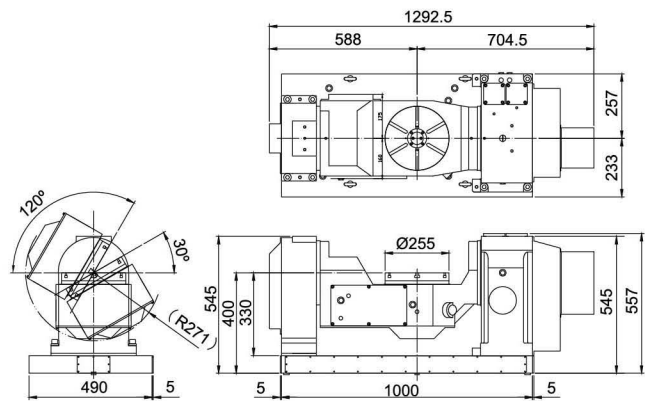
TRNC-125-H



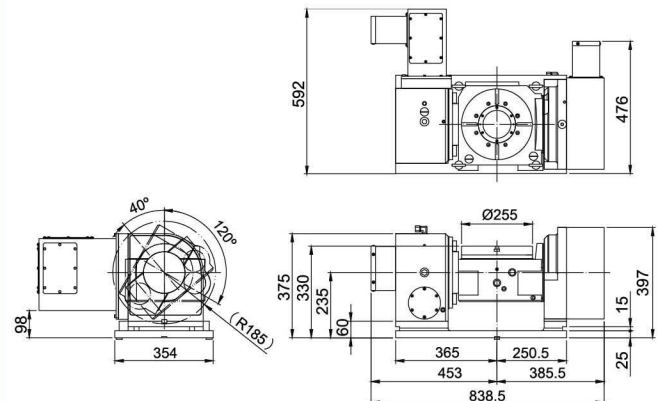
TRNC-170C/210C



TRNC-255A



TRNC-255B



型號選用說明 Item instruction

TRNC-650K-□-□

- ① 五軸系列 5 axis series
② 伺服控制 Servo control
③ 盤面直徑 Table diameter
④ 結構型式 Constructing type



TRNC-650K

- 伺服馬達不會隨著傾斜軸而改變角度，避免切削時產生震動
- 建議傾斜軸用絕對值馬達
- Servo motor position is not changed with shaft tilting to prevent vibration while cutting.
- Absolute value motor are recommended for tilting axis.

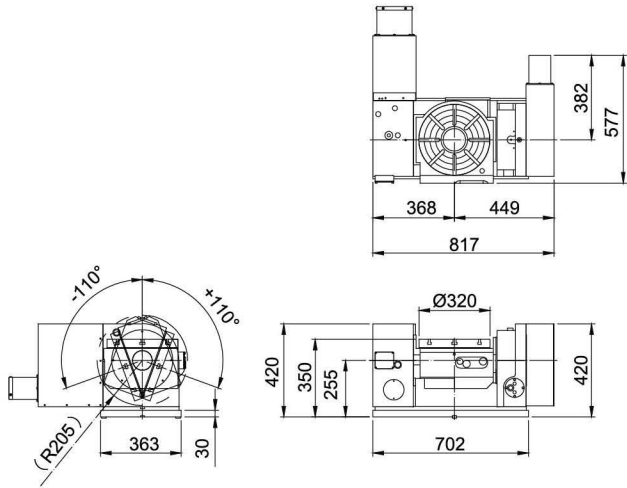
規格 / 型號 Specifications / Model		單位 Unit	TRNC-321		TRNC-400		TRNC-500A		TRNC-650K	
旋台直徑 Worktable Diameter		mm	Ø320		Ø400		Ø500		Ø500(650)	
工作台高度 Table Height	水平時 Horizontal	mm	350		440		520		300	
中心高度 Center Height	90°	mm	255		440		570		350	
總高度 Overall Height	90°	mm	445		690		780		622.5	
中心孔直徑 Center Bore Diameter		mm	Ø100 ^{H7}		Ø150 ^{H7}		Ø50 ^{H7}		Ø50 ^{H7}	
貫穿孔徑 Through-Hole Diameter		mm	Ø100		Ø140		—		—	
工作台T型槽寬度 Width Of T-Slot		mm	14 ^{H7}		14 ^{H7}		18 ^{H7}		18 ^{H7}	
導塊寬度 Width Of Guide Block		mm	18 ^{H7}		18 ^{H7}		18 ^{H7}		—	
傾斜角度 Tilting Angle		deg.	±110°		-30°~+105°		-30°~+110°		-100°~+110°	
軸 Axis			旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting
最小設定單位 Minimum Input Increment		deg.	0.001°		0.001°		0.001°		0.001°	
分割精度 Indexing Accuracy		sec.	15″	60″ ★20″	15″	60″ ★20″	15″	★20″	★20″	★20″
重覆精度 Repeatability		sec.	4″	8″	4″	8″	4″	★8″	4″	★8″
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF8	αiF12	αiF12	αiF22	αiF12	αiF30	αiF12	αiF40
	MITSUBISHI		HF-154S	HF-204S	HF-204S	HF-204S	HF-354S	HF-703S	HF-354S	HF-703S
	SIEMENS		1FK7063	1FK7083	1FK7083	1FK7083	1FK7083	1FK7103	1FK7083	1FK7105
	HEIDENHAIN		QSY116J	QSY155B	QSY155B	QSY155B	QSY155B	QSY190C	QSY155C	QSY190D
總減速比 Speed Reduction Ratio			1/120	1/360	1/180	1/180	1/120	1/120	1/120	1/120
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	25	8.3	25	16.6	25	25	25	25
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	784(80)		1715(175)		2508(256)		2508(256)	
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm²	5 (Pne.)	5 (Pne.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	1274(130) 2528(258)		1793(183) 3459(353)		3185(325) 7595(775)		3185(325) 4410(450)	
容許工件載重 Allowable Load Capacity	0° (水平時) (Horizontal) 	kg	200		300		300		500	
	0°~90° (傾斜時) (Tilting) 	kg	100		150		200		300	
最大傾斜扭力 MAX.Tilting angle	W×L 	N.m (kgf.m)	245(25)		294(30)		490(50)		490(50)	
最大負荷 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force 	N(kgf)	17640(1800)		19600(2000)		29400(3000)		29400(3000)	
	FxL 徑向力 FxL Radial moment 	N.m (kgf.m)	1274(130)		1793(183)		3185(325)		3185(325)	
	FxL 傾斜力矩 FxL Tilting moment 	N.m (kgf.m)	2528(258)		3459(353)		7595(775)		4410(450)	
容許負載慣性矩 Allowable Inertia Force	J=W.D² / 8 	kg.m² (kg.cm.sec²)	2.6(26)		6(61)		9.4(95.7)		9.4(95.7)	
最大工作直徑 Allowable Workpiece Diameter		mm	Ø320		Ø400		Ø500		Ø650	
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	450		1300		2300		1220	

註：1.★為搭配海德漢RCN2000(±5")系列光學尺。 2.◎為搭配內置式氣轉油。 3.皮帶式傳動必須安裝光學尺。
Note：1."★" Means with encoder of HEIDENHAIN RCN 2000(±5")SERIES. 2."◎" Means With built-in Pneumatic/Hydraulic converter.
3.Types of belt drive have to use encoder.

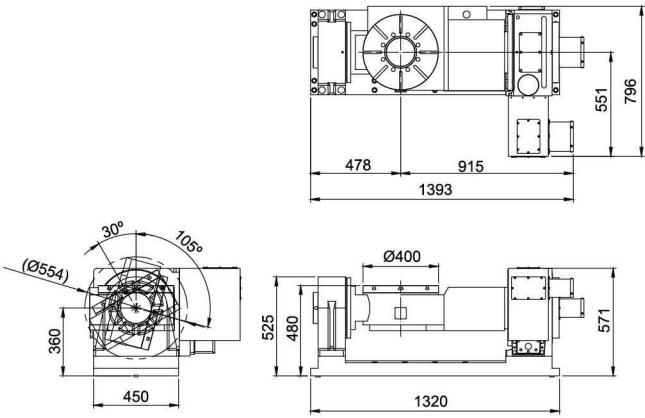
尺寸圖 Dimensions

單位 Unit : mm

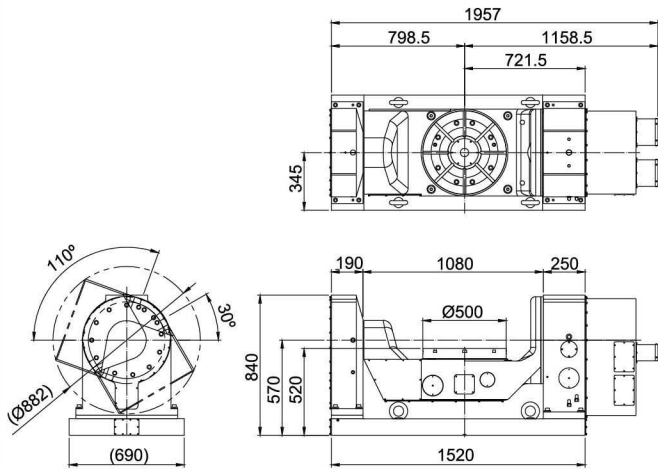
TRNC-321



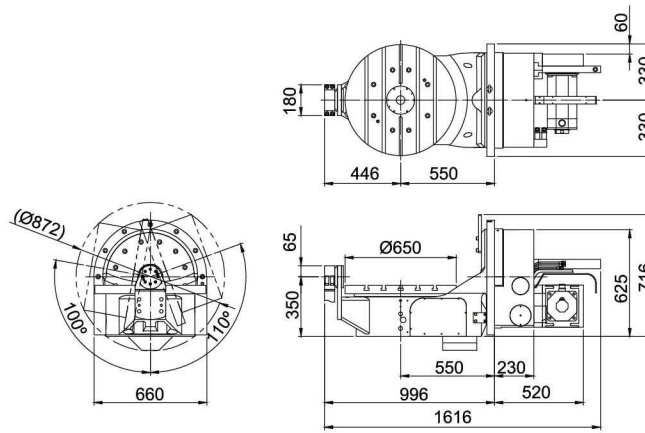
TRNC-400



TRNC-500A



TRNC-650K



電腦數控五軸分度盤

TRNC-321

400

500A

650K

TDAT-320

① ② ③ ④

- ① T：五軸系列 5 Axis series
② 傳動型式 Transmission type
DAT(單臂系列Single-arm series)：
旋轉、傾斜 → 直驅馬達
Rotation, Tilting axis → Direct drive motor
DRT：旋轉、傾斜 → 直驅馬達
Rotation, Tilting axis → Direct drive moto
DMT：旋轉 → 直驅馬達
Rotation axis → Direct drive motor
傾斜 → 蝸輪蝸桿
Tilting axis → Worm gear

- ③ 盤面直徑
Table diameter
④ 型式 Type



TDAT-320

- 採用直驅馬達，高迴轉速，比一般旋轉工作台高7倍以上的速度。
- Direct-drive motor offers high speed running-up to 7 times faster than other ordinary models.
- 不需要減速齒輪，採用高扭力馬達，高傳動效率，可搭配適溫同調型冷卻裝置。
- Reduction gear not required. Employs a high torque motor for high transmission efficiency. Allows for adopting oil chiller.
- 採用光學尺直接檢出，可達高精密分度。
- Encoder equipped for high indexing accuracy.
- 採用全圓周油壓鎖緊系統，可達高夾緊扭矩。
- Wholly circular hydraulic clamping for high clamp torque.

規格 / 型號 Specifications / Model		單位 Unit	TDRT-125A		TDAT-255		TDAT-320		TDRT-650		TDMT-650	
旋台直徑 Worktable Diameter		mm	Ø125		Ø255		Ø320		Ø650		Ø500(600)	
工作台高度 Worktable Diameter	水平 Horizontal	mm	375		285		380		—		—	
中心高度 Table Height	90°	mm	200		220		300		—		—	
總高度 Overall Height	90°	mm	369		439		593		—		—	
中心孔直徑 Center Bore Diameter		mm	Ø25 ^{H7}		Ø50 ^{H7}		Ø50 ^{H7}		Ø60 ^{H7}		Ø50 ^{H7}	
工作台T型槽寬度 Width Of T-Slot		mm	12 ^{H7}		12 ^{H7}		14 ^{H7}		18 ^{H7}		18 ^{H7}	
導塊寬度 Width Of T-Slot		mm	14 ^{H7}		18 ^{H7}		18 ^{H7}		—		—	
傾斜角度 Tilting Angle		deg.	-100°~+100°		-100°~+100°		-100°~+100°		-100°~+110°		-100°~+110°	
軸 Axis			旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting	旋轉軸 Rotation	傾斜軸 Tilting
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	※	※	※	※	※	※	※	※	※	※
重覆精度 Repeatability		sec.	※	※	※	※	※	※	※	※	※	※
直驅扭力馬達 Direct-Drive Torque Motor	ETEL		TMB 0140-070	TMB 0210-070	TMB 0210-050	TMB 0291-070	TMB 0210-070	TMB 0291-100	TMB 0360-050	TMB 0450-150	TMB 0360-070	HEIDENHAIN QSY-190D
	最大扭矩Peak Torque	Nm	89.1	309	218	582	309	831	707	3490	990	104
	連續扭矩Continuous Torque	Nm	45.4	167	118	315	167	456	396	1890	554	38
	HEIDENHAIN Encoders		海德漢及西門子專用：HEIDENHAIN AND SIEMENS： RCN 2380(±5Sec.) RCN 2580(±2.5Sec.)									
	FANUC		Dis 60/400	Dis 150/300	Dis 150/300	Dis 250/250	Dis 150/300	Dis 500/250	Dis 1000/200	Dis 1500/100	—	—
	最大扭矩Peak Torque	Nm	130	380	380	600	380	1200	1900	2800	—	—
	連續扭矩 Continuous Torque	Nm	65	170	170	215	170	520	840	1400	—	—
FANUC Encoders		aiCZSensor 512A (±4Sec.)	aiCZSensor 768A (±3Sec.)	aiCZSensor 768A (±3Sec.)	aiCZSensor 768A (±3Sec.)	aiCZSensor 768A (±3Sec.)	aiCZSensor 768A (±3Sec.)	aiCZSensor 768A (±3Sec.)	aiCZSensor 768A (±3Sec.)	—	—	
總減速比 Speed Reduction Ratio			1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
容許最高轉速Allowable Max. Rotation Speed		r.p.m.	※2	※2	※2	※2	※2	※2	※2	※2	※2	※2
使用壓力(鎖緊方式) Pressure (Clamping System)		kg/cm ²	35(Hyd.)		35(Hyd.)		35(Hyd.)		35(Hyd.)		35(Hyd.)	
夾緊扭矩 Clamping Torque		N.m (kgf.m)	323(33)	833(85)	833(85)	1764(180)	833(85)	1764(180)	3185(325)	4410(450)	3185(325)	4410(450)
最大載重 Allowable Load Capacity	0° W(水平時) 0°(Horizontal)	 kg	125		125		300		500		500	
	0°~90° (傾斜時) 0°~90°(Tilting)	 kg	50		80		125		300		300	
最大負荷 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force	 N(kgf)	9800(1000)		25000(2551)		30000(3061)		35000(3571)		35000(3571)	
	F×L 徑向力 F _x L Radial moment	 N.m (kgf.m)	833(85)		1764(180)		1764(180)		4410(450)		4410(450)	
	F×L 傾斜力矩 F _x L Tilting moment	 N.m (kgf.m)	441(45)		3200(326)		30000(3061)		8000(816)		8000(816)	
	J=W.D ² /8	 kg.m ² (kg.cm.sec ²)	0.098(1)		0.65(6.64)		1.6(16.33)		15.8(161.7)		15.8(161.7)	
最大工件直徑 Allowable Workpiece Diameter		mm	Ø125		Ø255		Ø320		Ø650		Ø650	
旋台重量 Net Weight		kgs	180		350		400		1220		1220	

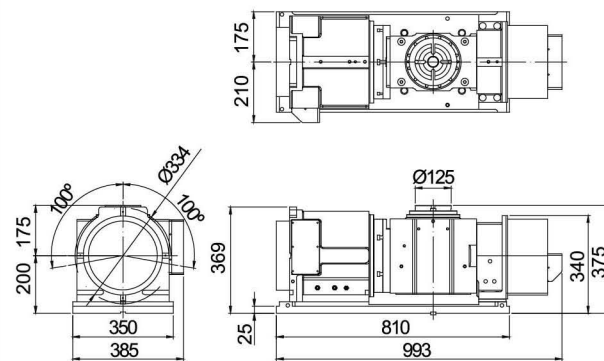
註：1.※依選用光學尺精度而定。
2.另有高轉速選擇，歡迎來電索取資料。

Note：1.※Positioning accuracy according to encoder type.
2.There are high-speed for option; please contact us for more details if necessity.

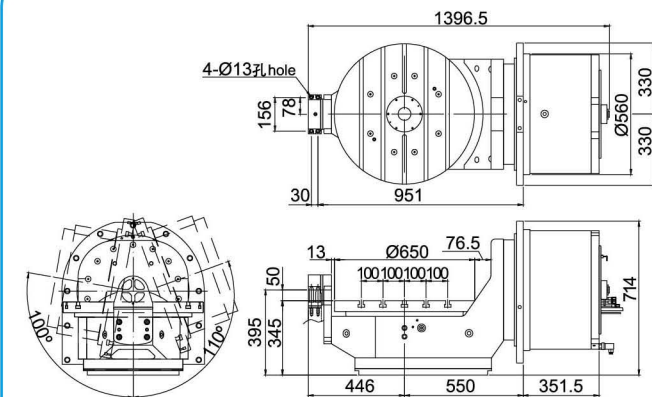
尺寸圖 Dimensions

單位 Unit : mm

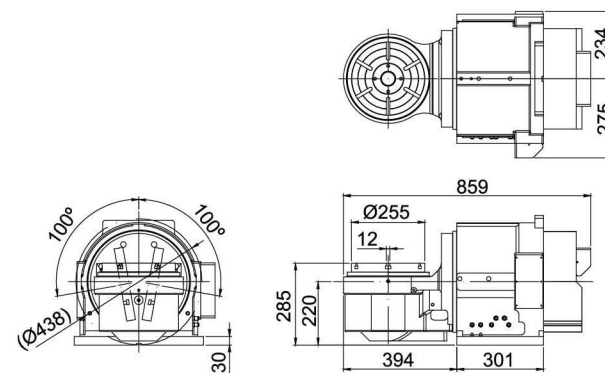
TDRT-125A



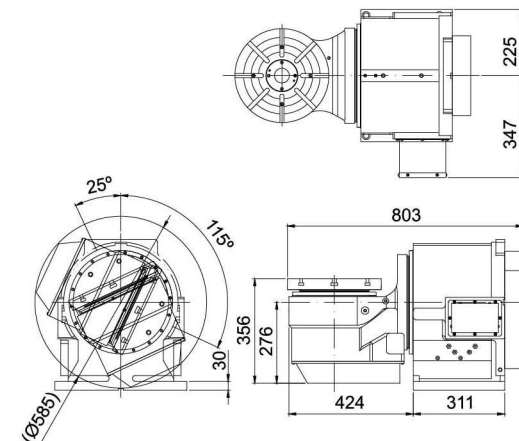
TDRT-650



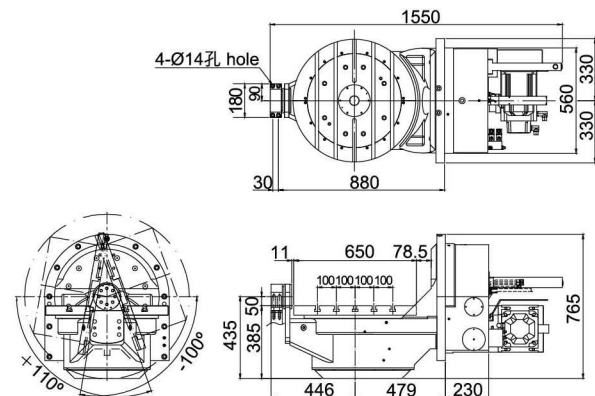
TDAT-255



TDAT-320



TDMT-650





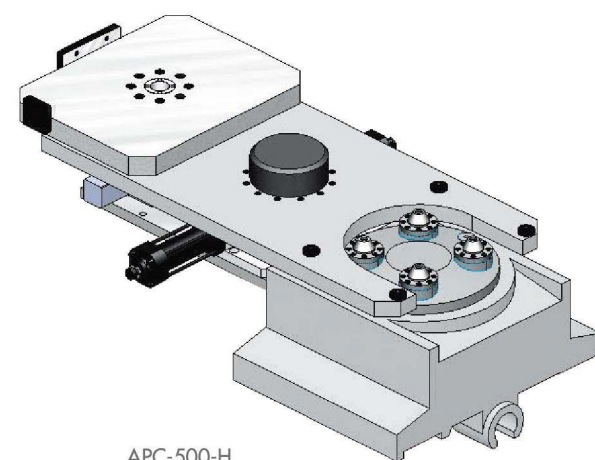
型號選用說明 Item instruction

APC-500-
① ② ③

- ① 臥式交換工作台 Horizontal Pallet Changer
② 旋台尺寸 Table size
③ H：油壓 S：伺服 C：凸輪
Hydraulic Servo Cam

- 使用4只定位錐做定位及鎖緊工作台。
- 採用油壓排齒使工作台自動交換。
- 通過至少72小時精度測試。
- 依DIN，ISO標準設計。

- Position cone x 4 for position and clamping worktable.
- Hydraulic teeth control the worktable exchange automatically.
- Running/Accuracy test 72 hours at least continually.
- According to design by DIN & ISO standard.



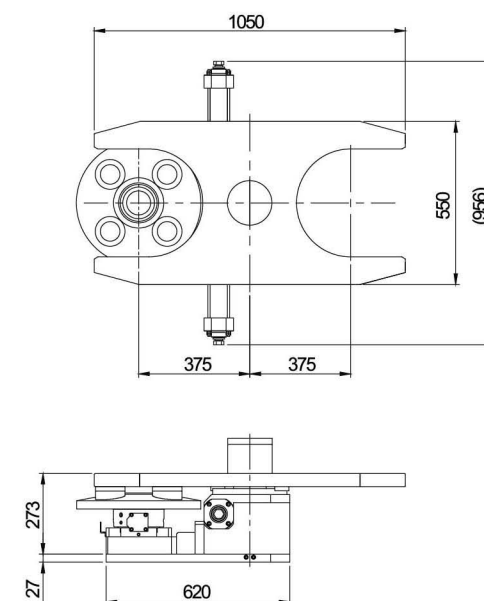
APC-500-H

規格 / 型號 Specifications / Model	單位 Unit	APC-400-H	APC-500-H	APC-630-H	APC-800-H
旋轉方式 Exchange Drive		油壓排齒Hydraulic Rack	油壓排齒 Hydraulic Rack	油壓排齒Hydraulic Rack	油壓排齒 Hydraulic Rack
交換旋轉角度 Exchange Rotation Angle	deg.	180°	180°	180°	180°
迴轉直徑 Swing Diameter	mm	Ø1188	Ø1504	Ø2030	Ø2393
兩工作台中心距 Two Table Center Distance	mm	750	950	1340	1500
交換升降行程 Exchange Lifting Stroke	mm	60	45	55	70
交換時間 Exchange Time	sec.	12	13	16	22
升降驅動壓力 Lifting Drive Pressure	kg/cm ²	35	50	50	50
上升推力 Rising Thrust	kgf	1230	2200	4500	10000
左右旋轉推力 Rotation Around Thrust	kgf	980	1400	2500	4900
最大工件負載 Allowable Load Capacity	kg	350×2=700	500×2=1000	1200×2=2400	2000×2=4000
工作台淨重 2 Pallets NW	kgs	80×2=160	120×2=240	240×2=480	360×2=720
交換台淨重 Rotary Exchange Mechanism NW	kgs	385	340	1020	1550
預備站淨重 Preset Working Table Mechanism NW	kgs	80	65	136	350
最大工件直徑 Allowable Workpiece Diameter	mm	Ø400	Ø500	Ø630	Ø800
兩工作台載重容許差距 Two Table Load Allowable Gap	kg	200	400	1050	1400

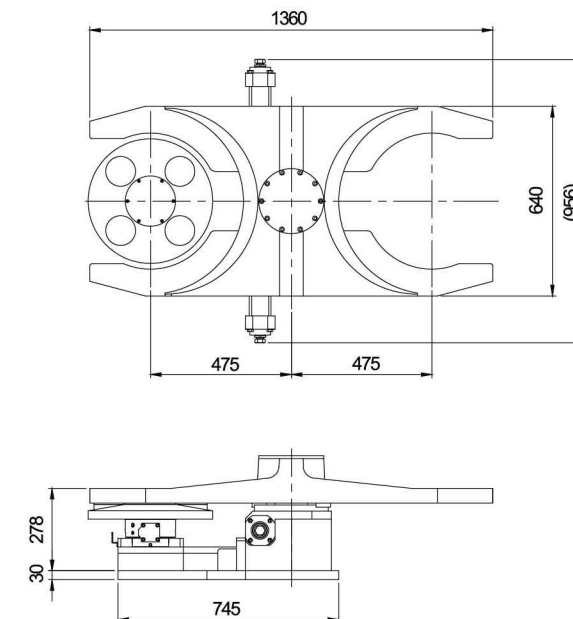
尺寸圖 Dimensions

單位 Unit : mm

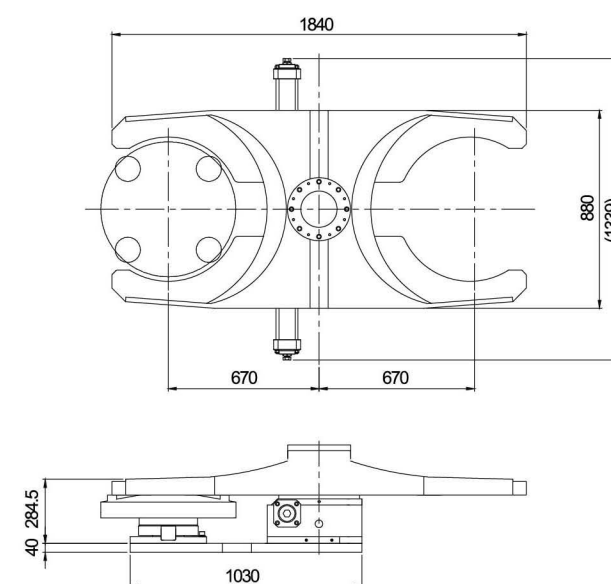
APC-400-H



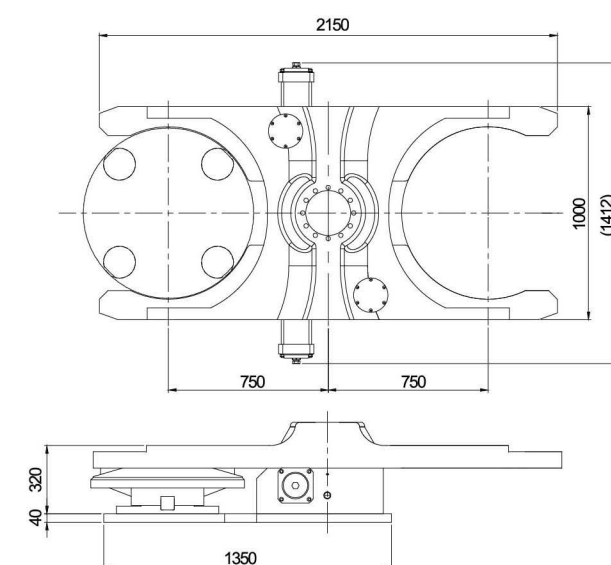
APC-500-H



APC-630-H



APC-800-H



臥式數控旋轉工作台 Table For Horizontal Machining Center

型號選用說明 Item instruction



- ① 臥式旋轉工作台 Table for horizontal machining center
- ② 0.001°分割 0.001° positioning
- ③ 托盤夾持形式 Clamping type for pallet
無 None：定位錐 position cone C：滾輪壓板 roller plate
- ④ 旋台尺寸 Table size
- ⑤ 盤面型式 Table form
S：方盤 Square 無 None：圓形 Round
- ⑥ 安裝介面 Interface type
AT：平底 Flat bottom BT：硬軌 Boxway
CT：線軌 Linear

- 工作台夾持有定位錐及滾輪壓板形式。
- 配合APC，工作台可自動交換及前移動。
- 最小分度角度0.001°。
- 通過至少72小時精度測試。
- 依 DIN，ISO 標準設計。
- Clamper of worktable with position cone or roller plate type.
- Auto exchanged worktable & forward/ backward moving to coordinate with APC.
- Minimum increment 0.001°.
- Running/Accuracy test 72 hours at least continually.
- According to design by DIN & ISO standard.



ACR-400S

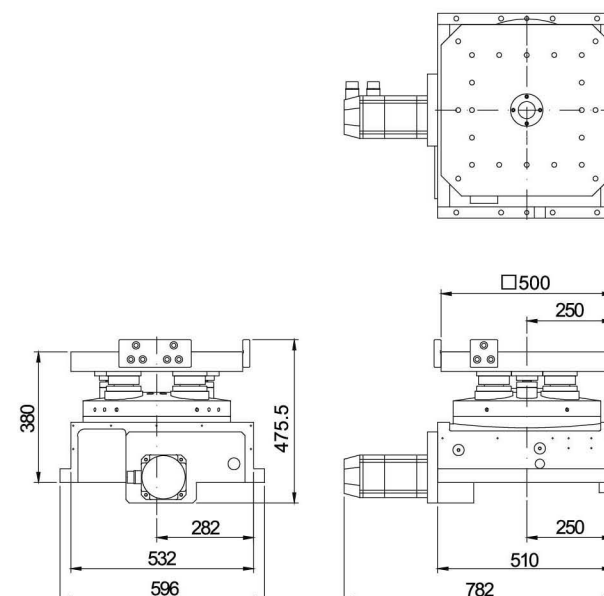
規格 / 型號 Specifications / Model		單位Unit	ACR-400S-□	ACR-500S-□	ACR-630S-□	ACRC-800S-□	ACRC-1000S-□
托盤夾持形式 Pallet Clamping Mode			定位錐 Position Cone	定位錐 Position Cone	定位錐 Position Cone	滾輪壓板 Roller Plate	滾輪壓板 Roller Plate
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°	0.001°	0.001°
旋台尺寸 Worktable Diameter		mm	400×400	500×500	630×630	800×800	1000×1000
總高度 Overall Height		mm	375	380	520	550	515
中心孔直徑 Center Bore Diameter		mm	Ø40 ^{H7}	Ø50 ^{H7}	Ø50 ^{H7}	—	—
工作台T型槽寬/螺絲孔 Width Of T-Slot / Screw holes		mm	14 ^{H7} /M12×P1.75	18 ^{H7} /M16×P2.0	18 ^{H7} /M16×P2.0	22 ^{H7}	22 ^{H7}
分割精度 Indexing Accuracy		sec.	15″(*)	15″(*)	15″(*)	15″(*)	20″(*)
重覆精度 Repeatability		sec.	4″	4″	4″	4″	4″
煞車使用壓力 Pallet Clamping Pressure		kg/cm²	35	35	35	35	45
煞車鎖緊扭力 Pallet Clamping Torque		N(kgf)	2744(280)	2744(280)	4116(420)	6860(700)	8330(850)
工作台下拉使用壓力 Worktable Clamping Pressure		kg/cm²	50	50	50	35	45
工作台下拉鎖緊力 Worktable Clamping Torque		N.m (kgf.m)	22050(2250)	22050(2250)	364560(3750)	364560(3750)	364560(3750)
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	764(78)	2450(250)	4116(420)	3528(360)	3528(360)
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF8	αiF12	αiF22	αiF22	αiF22
	MITSUBISHI		HF-154S	HF-204S	HF-354S	HF-354S	HF-354S
	SIEMENS		1FK7063	1FK7083	1FK7101	1FK7101	1FK7101
	HEIDENHAIN		QSY116E	QSY155B	QSY155D	QSY155D	QSY155D
總減速比 Speed Reduction Ratio			1/180	1/180	1/180	1/180	1/180
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	16.6	16.6	16.6	16.6	16.6
容許工件載重 Allowable Load Capacity		kg	400	600	1250	2000	3000
容許切削負載力矩 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	13230(1350)	16660(1700)	19600(2000)	23520(2400)	27440(2800)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	2744(280)	5292(540)	7448(760)	10780(1100)	14798(1510)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	4900(500)	6860(700)	9604(980)	13916(1420)	18620(1900)
容許負載慣性矩 Allowable Inertia Force		kg.m² (kg.cm.sec²)	10(102)	18.7(255)	62(633)	160(1633)	375(3827)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	462	520	960	1200	2300

註：(*) 依選配光學尺精度。
Note：(*) is different encoders will be different accuracy.

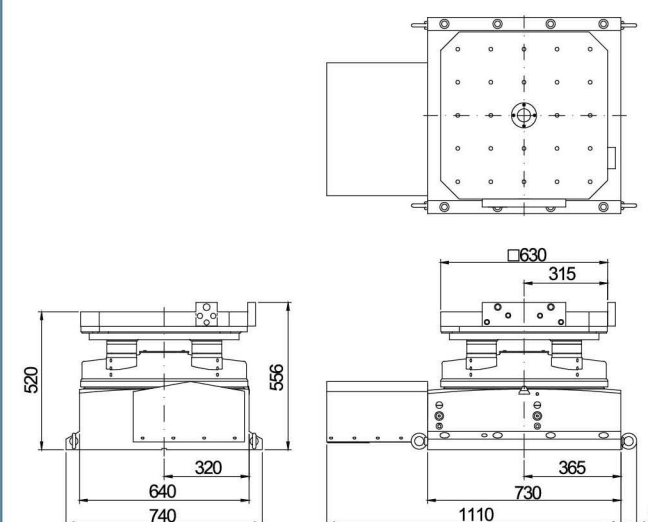
尺寸圖 Dimensions

單位 Unit : mm

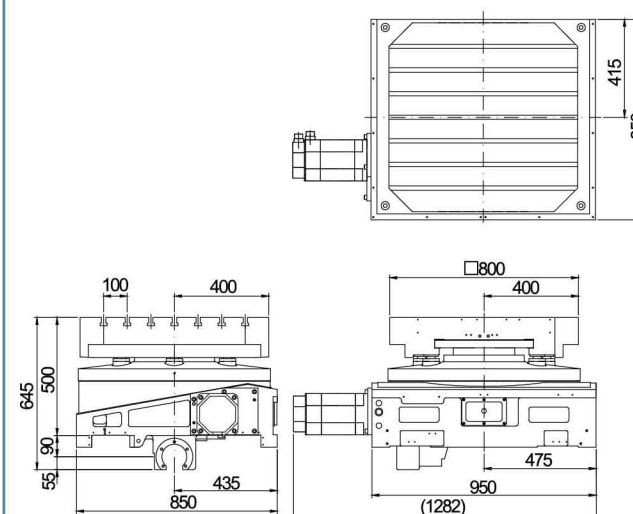
ACR-500S-AT



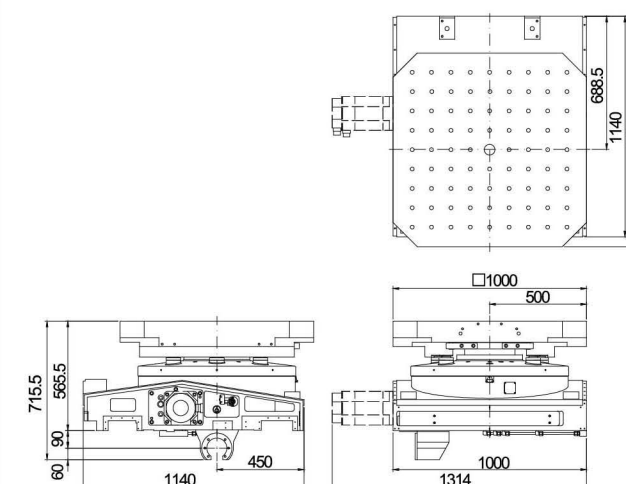
ACR-630S-AT



ACRC-800S-BT



ACRC-1000S-BT



臥式數控齒式工作台 Index Table For Horizontal Machining Center

型號選用說明 Item instruction

ACI-400-□-□
① ② ③ ④ ⑤ ⑥

- ① 臥式旋轉工作台 Table for Horizontal machining center
② 固定等分分割 Indexing
③ 托盤夾持形式 Clamping type for pallet
無 None：定位錐 position cone C：滾輪壓板 roller plate
④ 旋台尺寸 Table size
⑤ 盤面型式 Table form
S：方盤 Square 無 None：圓形 Round
⑥ 安裝介面 Interface type
AT：平底 Flat bottom BT：硬軌 Boxway
CT：線軌 Linear



ACI-400S

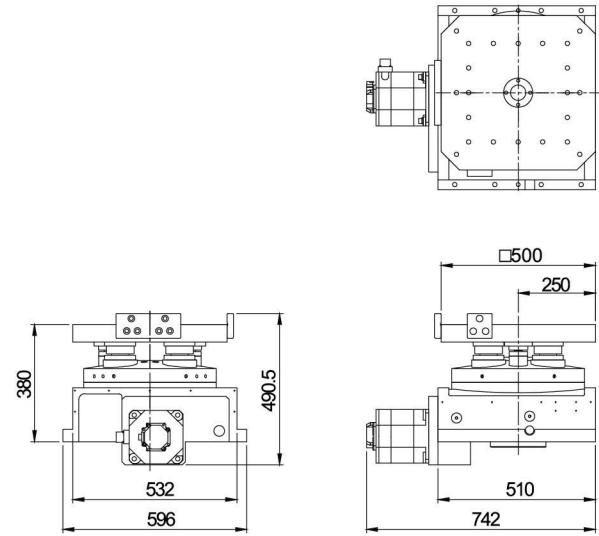
- 離合齒式定位，定位精準。
- 工作台夾持有定位錐及滾輪壓板形式。
- 配合APC，工作台可自動交換。
- 最小分度角度1°。
- 通過至少72小時精度測試。
- 依DIN，ISO標準設計。
- Gear coupling position.
- Clamper of worktable with position cone or roller plate type.
- Auto exchange worktable to coordinate with APC.
- Minimum increment 1°.
- Running/Accuracy test 72 hours at least continually.
- According to design by DIN & ISO standard.

規格 / 型號 Specifications / Model		單位Unit	ACI-400S-□	ACI-500S-□	ACI-630S-□	ACIC-800S-□	ACIC-1000S-□
托盤夾持形式 Pallet Clamping Mode			定位錐Position Cone	定位錐Position Cone	定位錐Position Cone	滾輪壓板Roller Plate	滾輪壓板Roller Plate
齒式定位分割角度 Indexing angle		deg.	1°	1°	1°	1°	1°
旋台尺寸 Worktable Diameter		mm	400x400	500x500	630x630	800x800	1000x1000
總高度 Overall Height		mm	375	380	522	500	551
中心孔直徑 Center Bore Diameter		mm	Ø50 ^{H7}	Ø50 ^{H7}	Ø50 ^{H7}	Ø50 ^{H7}	—
工作台T型槽寬/螺絲孔 Width Of T-Slot / Screw holes		mm	14 ^{H7} /M12xP1.75	18 ^{H7} /M16xP2.0	18 ^{H7} /M16xP2.0	18 ^{H7}	22 ^{H7}
分度精度 Indexing Accuracy		sec.	±5"	±5"	±5"	±5"	±5"
重覆精度 Repeatability		sec.	±1"	±1"	±1"	±1"	±2"
煞車使用壓力 Pallet Clamping Pressure		kg/cm²	35	35	35	35	35
煞車鎖緊力 Pallet Clamping Torque		N(kgf)	24500(2500)	29400(3000)	39200(4000)	58800(6000)	117600(12000)
工作台下拉使用壓力 Worktable Clamping Pressure		kg/cm²	50	50	50	35	35
工作台下拉鎖緊力 Worktable Clamping Torque		N(kgf)	22050(2250)	22050(2250)	364560(3750)	364560(3750)	364560(3750)
容許旋轉扭矩 Allowable Turntable Torque		N.m (kgf.m)	3136(320)	4508(460)	6076(620)	7252(740)	9310(950)
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF8	αiF12	αiF12	αiF22	αiF22
	MITSUBISHI		HF-154S	HF-204S	HF-204S	HF-354S	HF-354S
	SIEMENS		1FK7063	1FK7083	1FK7083	1FK7101	1FK7101
	HEIDENHAIN		QSY116E	QSY155B	QSY155B	QSY155D	QSY155D
總減速比 Speed Reduction Ratio			1/180	1/180	1/180	1/180	1/360
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	16.6	16.6	16.6	16.6	8.33
容許工件載重 Allowable Load Capacity		kg	500	800	1200	2000	3000
容許切削負載力矩 (轉盤夾緊時) MAX.Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	58800(6000)	68600(7000)	76440(7800)	88200(9000)	98000(10000)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	5390(550)	8134(830)	10290(1050)	11858(1210)	16170(1650)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	7546(770)	11368(1160)	14700(1500)	17150(1750)	33638(2310)
容許負載慣性矩 Allowable Inertia Force		kg.m² (kg.cm.sec²)	10(102)	18.7(255)	62(633)	160(1633)	375(3827)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	440	650	850	1450	2600

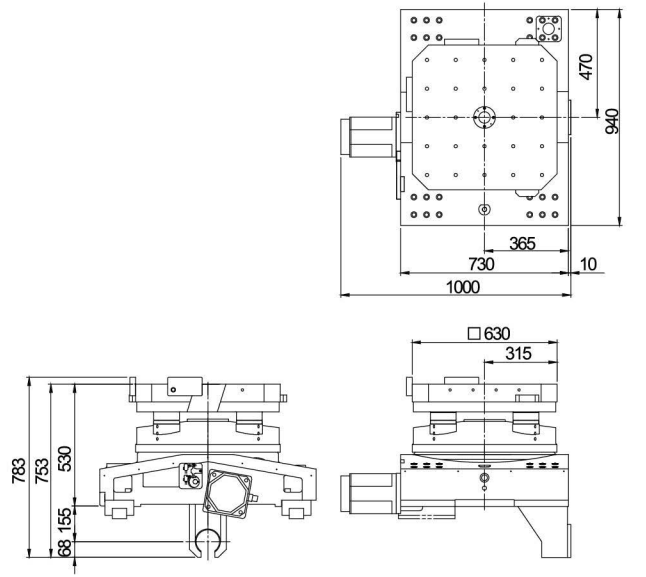
尺寸圖 Dimensions

單位 Unit : mm

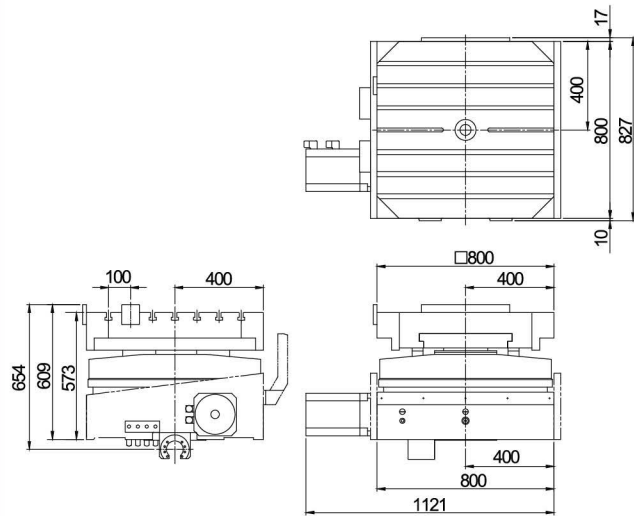
ACI-500S-AT



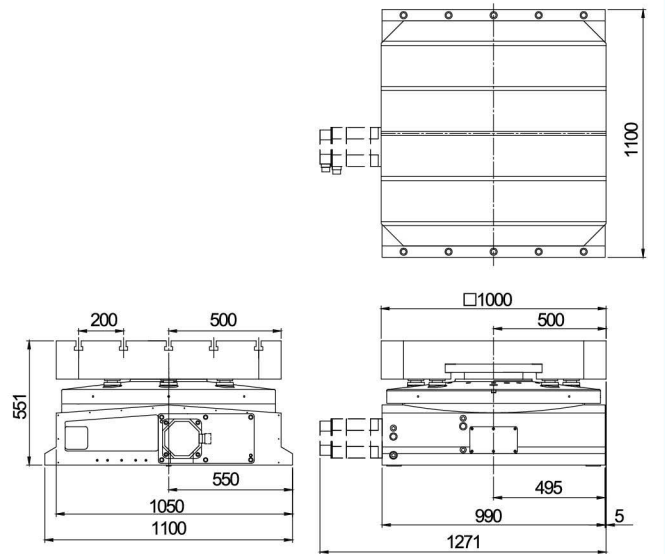
ACI-630S-CT



ACIC-800S-CT



ACIC-1000S-AT



自動交換工作台
Auto Pallet Changer

ACI-400S

500S

630S

ACIC-800S

1000S

自動交換工作台
Auto Pallet Changer

ACI-400S

500S

630S

ACIC-800S

1000S

UHP-30

① ② ③

- ① 搖擺式轉盤 Swing head
② HP：戟齒輪 Hypoid gear
HM：蝸桿蝸輪 Worm gear
③ 型號 Model

- 搖擺式轉盤採戟齒輪設計，耐磨耗、低噪音。
- 齒背隙經精密組裝已被控制，長時間不需要再調整背隙，分割精度亦可保持穩定。
- 搖擺式轉盤可客製任何廠牌主軸搭配，展現多軸工具機曲面加工應用。
- 全圓周油壓鎖緊系統。
- Using Hypoid gear design, high anti-wearing & low noise
- Backlash is controlled after assembling, don't need to be adjusted for a long time and index accuracy is remained stably.
- Swing head is suitable for any spindle from any brand, the clockwise and counterclockwise for swing angle and multi-axis elliptic arc machining application.
- Wholly circular hydraulic clamping system.

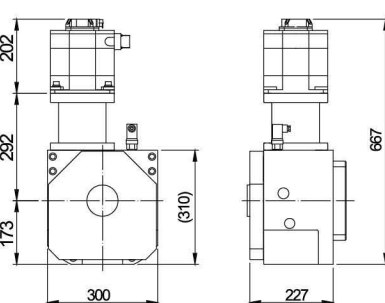


UHP-40

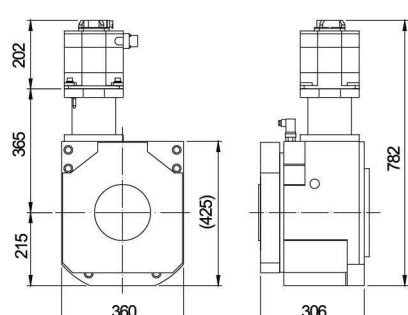
規格 / 型號		單位	UHP-30	UHP-40	UHP-50	UHM-30	UHM-40
傾斜軸迴轉角度 Tilting Angle		deg.	±110°	±120°	±120°	±110°	±120°
最小設定單位 Minimum Input Increment		deg.	0.001°	0.001°	0.001°	0.001°	0.001°
分度精度 Indexing Accuracy		sec.	※	※	※	※	※
重複精度 Repeatability		sec.	※	※	※	※	※
伺服馬達 (廠牌可依需求指定) Servo Motor (Model As Required)	FANUC		αiF 12	αiF 12	αiF 22	αiF 8	αiF 12
	MITSUBISHI		HF-204S	HF-204S	HF-354S	HF-154S	HF-204S
	SIEMENS		1FK7083	1FK7083	1FK7101	1FK7063	1FK7083
	HEIDENHAIN		QSY155D	QSY155D	QSY155D	QSY116E	QSY155D
Encoders 型式 Encoders Type			HEIDENHAIN ECA-4000				
總減速比 Speed Reduction Ratio			1/30	1/40	1/40	1/120	1/120
盤面最高轉速 Max. Table Rotation Speed		r.p.m.	100	75	50	25	25
使用壓力(鎖緊方式) Allowable Turntable Torque		kg/cm ²	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
夾緊扭矩 Clamping Torque		N.m (kgf.m)	833(85)	1764(180)	2450(250)	833(85)	1764(180)
容許工件載重 Allowable Load Capacity	立式安裝時 Vertical	kg	225	240	320	225	240
容許切削負載力矩 (轉盤夾緊時) MAX. Thrust Load (Table is clamped)	F 軸向力 F Axial force	N(kgf)	25000(2551)	30000(3061)	40000(4081)	25000(2551)	30000(3061)
	FxL 徑向力 FxL Radial moment	N.m (kgf.m)	490(50)	1176(120)	2450(250)	490(50)	1176(120)
	FxL 傾斜力矩 FxL Tilting moment	N.m (kgf.m)	3200(326)	4000(408)	8000(816)	3200(326)	4000(408)
容許負載慣性矩 Allowable Inertia Force		kg.m ² (kg.cm.sec ²)	5.2(53)	9.6(97.96)	30(306)	5.2(53)	9.6(97.96)
旋台重量 (不含伺服馬達) Net Weight (Motor Excluded)		kg	250	290	400	175	185

註：※依選用光學尺精度而定。 Note：※Positioning accuracy according to encoder type.

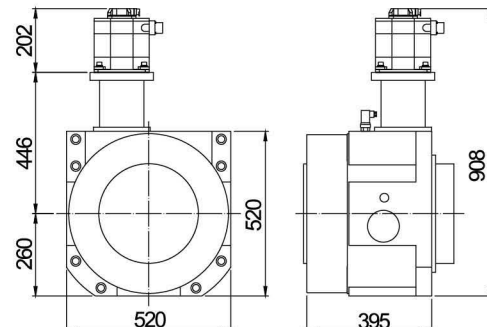
UHP-30



UHP-40



UHP-50



手動&自動尾座 Manual & Auto Tailstock

型號選用說明 Item instruction

TTS-125

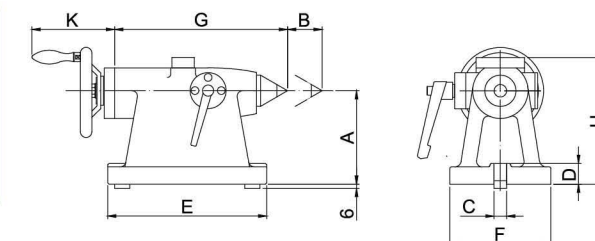
① ② ③

- ① 無 None：手動尾座 Manual tailstock
H：油壓尾座 Hydraulic tailstock
P：氣壓尾座 Pneumatic tailstock
② TS：頂針不可替換 Unchangeable thimble
TTS：頂針可替換 Changeable thimble
③ 搭配分度盤尺寸 Table size



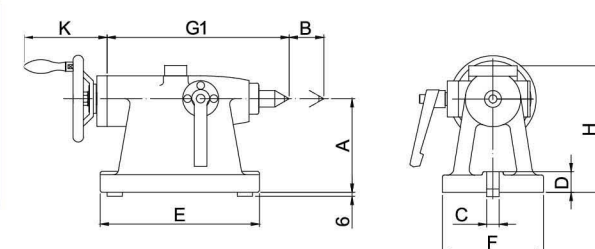
● TS手動尾座系列
TS-Series Manual Tailstock

TS



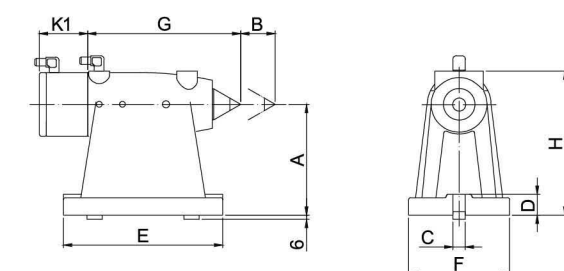
● TTS手動尾座系列
TTS-Series Manual Tailstock

TTS



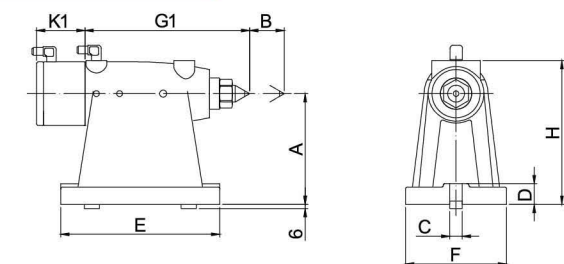
● HTS 油壓尾座系列
HTS-Series Hydraulic Tailstock
● PTS 氣壓尾座系列
PTS-Series Pneumatic Tailstock

HTS/PTS



● HTTS 油壓尾座系列
HTTS-Series Hydraulic Tailstock
● PTTS 氣壓尾座系列
PTTS-Series Pneumatic Tailstock

HTTS/PTTS



單位(Unit)：mm

規格 / 型號 Specifications/model		A	B	C	D	E	F	G	G1	H	K	K1	重量 Weight (kgs)	
													TS/TTS	HTS / PTS / HTTS / PTTS
TS	125	110	※	14	20	139	100	150	155	137	120.5	72	10	13
	170	135	50	18	30	230	146	248	263	183	120.5	70	17	20
TTS	210/255	160	50	18	30	230	146	248	263	208	120.5	70	20	23
HTS	320	210	50	18	30	230	146	248	263	258	120.5	70	25	28
PTS	400	255	50	18	30	270	160	248	263	303	120.5	70	31	34
HTTS	500	310	60	18	30	320	230	313	334	370	143.5	—	57	—
PTTS	630	400	60	18	30	320	230	313	334	460	143.5	—	75	—

※手動尾座行程為30，氣壓/油壓尾座行程為50。 ※Manual Tailstock stroke 30, Pneumatic/Hydraulic Tailstock stroke 50.

圓盤尾座 Rotary Tailstock

型號選用說明 Item instruction

RTS-170

- ① RTS：圓盤制車尾座 Rotary tailstock
② 盤面尺寸 Table size
③ 版次 Version



RTS-125



RTS-170C/210C



RTS-255A

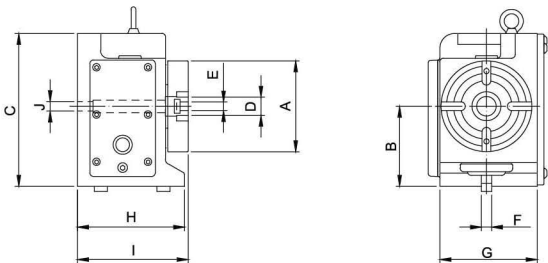


RTS-320

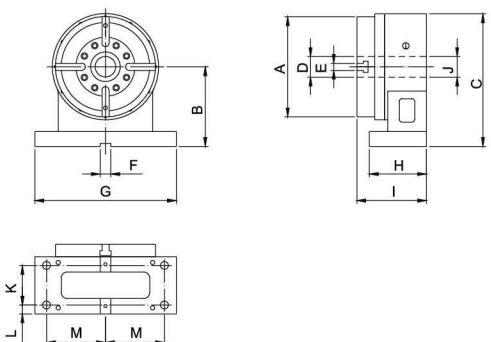


RTS-400

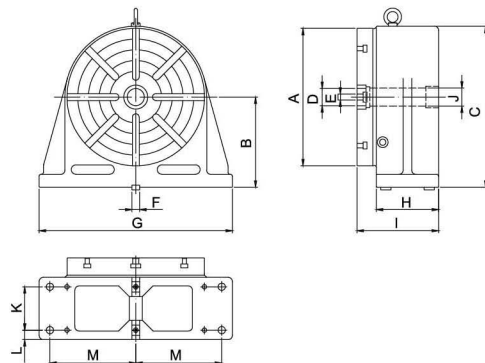
RTS-125



RTS-170C/210C



RTS-255A/320/400/500A/630A



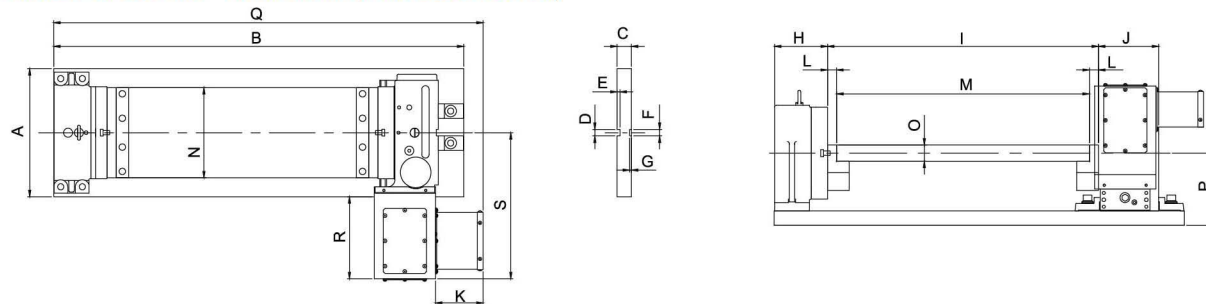
規格 / 型號 Specifications/model	單位 Unit	RTS-125	RTS-170C	RTS-210C	RTS-255A	RTS-320	RTS-400	RTS-500A	RTS-630A
A：旋台直徑 Worktable Diameter	mm	Ø125	Ø170	Ø210	Ø255	Ø320	Ø400	Ø500	Ø630
B：中心高度 Center Height In Vertical	mm	110	135	160	160	210	255	310	400
C：總高度 Overroll Height In Vertical	mm	210	225	265	292.5	375	455	565	715
D：中心孔直徑 Center Bore Diameter	mm	Ø25 ^{H7}	Ø35 ^{H7}	Ø45 ^{H7}	Ø40 ^{H7}	Ø40 ^{H7}	Ø40 ^{H7}	Ø50 ^{H7}	Ø50 ^{H7}
E：工作台T型槽寬度 Width Of T-Slot	mm	12 ^{H7}	12 ^{H7}	12 ^{H7}	12 ^{H7}	14 ^{H7}	14 ^{H7}	18 ^{H7}	18 ^{H7}
F：導塊寬度 Width Of Guide Block	mm	14 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}	18 ^{H7}
G：底座長度 Base Length	mm	133.5	240	240	335	450	450	660	660
H：底座寬度 Base Width	mm	147	97	97	97	145	145	197	197
I：總寬度 Total Width	mm	152	118.1	118.1	147	190	190	257	277
J：貫穿孔直徑 Through-Hole Diameter	mm	Ø13	Ø35	Ø35	Ø40	Ø40	Ø40	Ø50	Ø50
K	mm	—	67	67	60	101	101	145	145
L	mm	—	15	15	18.5	22	22	26	26
M	mm	—	100	100	150	200	200	300	300
夾緊扭矩 Clamping Torque	N.m (kgf.m)	—	—	—	490 (50)	833 (85)	833 (85)	2450 (250)	4410 (450)
淨重 Net Weight	kg	22	25	28	56	107	125	340	360

選擇配件 Optional Accessories

治具板/馬達扭力表/夾頭與分度盤搭配型號

Fixture Pallet/Servo Motor Torque Table/Suitable Items Between Chuck & Table.

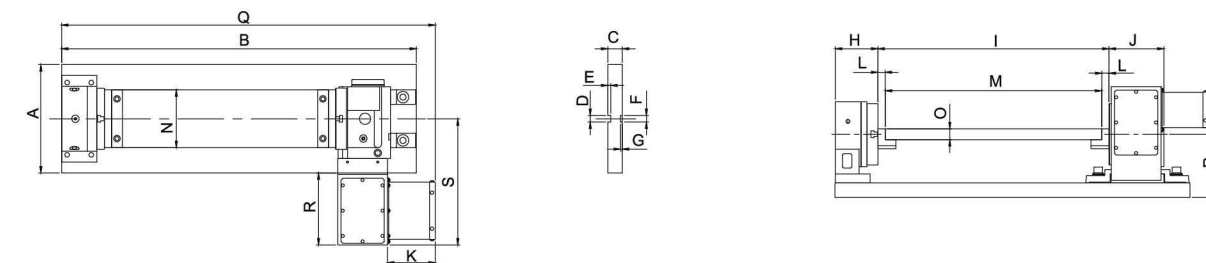
■ 輔助工作台（治具板） Fixture Pallet (MRNC-255/320/400)



單位(Unit)：mm

機型型號 model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	適用工作台長度 Applicable Table Length
MRNC-255	335	1137	40	18	8	18	5	147	751	167	130	25	700	250	45	200	1195	228	405	900以上/Over900
MRNC-320	450	1350	40	18	8	18	5	190	861	222	130	30	800	300	40	250	1403	285	510	1100以上/Over1100
MRNC-400	450	1488	40	18	8	18	5	190	971	250	130	35	900	400	40	295	1541	325	550	1300以上/Over1300

■ 輔助工作台（治具板） Fixture Pallet (VRNC-170/210)



單位(Unit)：mm

機型型號 model	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	適用工作台長度 Applicable Table Length
VRNC-170	300	984	40	18	8	18	5	118	651	152	130	25	600	160	30	175	1051	200	350	800以上/Over800
VRNC-210	300	984	40	18	8	18	5	118	651	152	130	25	600	200	30	200	1051	200	350	800以上/Over800

■ 馬達扭力表 Servo Motor Torque Table

安裝扭力 Installation torque	2Nm (0.75kw)	4Nm (1.4kw)	8Nm (1.6kw)	12Nm (3.0kw)	22Nm (4.0kw)
FANUC	αiF2/5000 (0.75kw)	αiF4/4000 (1.4kw)	αiF8/3000 (1.6kw)	αiF12/3000 (3.0kw)	αiF22/3000 (4.0kw)
FARGO	FKM22.30A/3000 (1.0 kw)3.2Nm	FKM 42.30A/3000 (1.9kw)6.3Nm	FKM 44.30A/3000 (3.6kw)11.6Nm	FKM 64.30A/3000 (5.2kw)16.5Nm	FKM 66.30A/3000 (7.4kw)23.5Nm
HEIDENHAIN	QSY-96A (0.5/0.45 kw)	QSY-116C (1.45/1.30kw)	QSY-116E (1.85/1.67kw)	QSY-155B (2.9/2.6kw)	QSY-155D (4.6/4.1kw)
MITSUBISHI	HF-75 (0.75kw)	HF-104 (1.0kw)	HF-154 (1.5kw)	HF-204 (2.0kw)	HF-354 (3.5kw)
SIEMENS	1FK7042 (0.82 kw)	1FK7060 (1.48 kw)	1FK7063 (2.29 kw)	1FK7083 (3.3kw)	1FK7101 (4.87kw)
YASKAWA 安川（5系列）	SGMJV-04A/6000 (0.4kw)1.27-4.6Nm	SGMGV-09A/3000 (0.85kw)5.39-13.8Nm	SGMGV-13A/3000 (1.3kw)8.34-23.3Nm	SGMGV-20A/3000 (1.8kw)11.5-28.7Nm	SGMGV-30A/3000 (2.9kw)18.6-45.1Nm
YASKAWA 安川（7系列）	SGM7J-04A/6000 (400kw)1.27-4.6Nm	SGM7G-09A/3000 (0.85kw)5.39-13.8Nm	SGM7G-13A/3000 (1.3kw)8.34-23.3Nm	SGM7G-20A/3000 (1.8kw)11.5-28.7Nm	SGM7G-30A/3000 (2.9kw)18.6-54Nm

註：1. () 為額定輸出功率。 Note：1. () is Rated output.

■ 夾頭與分度盤搭配型號 Suitable Items Between Chuck & Table

夾頭尺寸 Chuck Size	4"	5"	6"	7"	8"	9"	10"	12"	16"
分度盤盤面尺寸 Dividing Table Face Size									
125	✓	✓							
170		✓	✓	✓					
210			✓	✓	✓				
255				✓	✓	✓			
320					✓	✓	✓		
400						✓	✓	✓	
500							✓	✓	✓

*1.此為建議選配，視實際客戶需求選擇。 *The above is for option and reference,will depends on customer's requirement.



Optional Accessories
選擇配件

Fixture Pallet
治具板

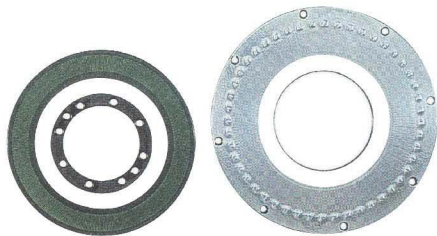
Servo Motor Torque Table
馬達扭力表

Suitable Items Between Chuck & Table
夾頭與分度盤搭配型號

選擇配件
Optional Accessories



▶ 光學尺(編碼器) Encoder



▶ 光學尺 Optical scale



▶ 油壓分配器 Hydraulic distributor



▶ 油壓夾頭 Hydraulic chuck



▶ 三爪夾頭 3-jaw chuck



▶ 迴轉式氣壓夾盤 Pneumatic chuck



▶ 連接板 (法蘭盤) Flange



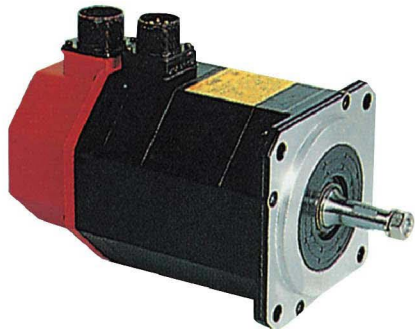
▶ AIC 油壓控制器 AIC Hydraulic controller



▶ PIONEER 單軸控制器 "PIONEER" single axis controller



▶ 頂心套 Center stand



▶ AC 伺服馬達 AC servo motor



▶ HE-35 油壓單元 HE-35 Hydraulic power unit



▶ AE-35B 氣/油壓轉換單元
AE-35B Pneumatic/Hydraulic converter

標準精度檢驗表
Inspection Standard

四軸 4 Axis Series

單位(Unit) : mm

NO.	檢 查 項 目 Inspection Item		125/170/210	255/320	400
1	分度盤主軸孔旋轉之偏擺量 Runout of table center hole	總長度 Hole end	0.01	0.01	0.01
2	分度盤面對分度盤底部導塊之垂直度 Squareness of table top to guide block at table bottom	垂直位置每300 Per 300 mm	0.02	0.02	0.02
3	分度盤面對分度盤底座之垂直度 Squareness of table top to table bottom	垂直位置每300 Per 300 mm	0.01	0.01	0.01
4	分度盤面之真直度 Flatness of table top	總長度 Overall length	0.01	0.01	0.01
5	分度盤面旋轉之偏擺量 Runout of table top during rotation		0.015	0.015	0.015
6	分度盤面對分度盤底座之平行度 Parallelism of table top to table bottom	總長度 Overall length	0.01	0.01	0.02
7	分割精度 Indexing accuracy	累積量 cumulative	40" 20" 20"	15"	15"

1	2
3	4
5	6
7	

An optical device should be used for indexing accuracy measurement.
分割精度測定採用光學尺量測儀

四軸搭配尾座 4 Axis with Tailstock

單位(Unit) : mm

NO.	檢 查 項 目 Inspection Item		125/170/210	255/320	400
1	頂針中心與分度盤中心高度差 Center height different between tailstock and table		0.02	0.02	0.02
2	尾座中心與分度盤中心高度差 Center height different between tailstock and table		0.02	0.02	0.02
3	分度盤及尾座兩中心線和底部導塊間的平行度 Parallelism between bottom guide block & center height of rotary table to tailstock	垂直位置每300 Per 300 mm	0.02	0.02	0.02

1	2
3	

五軸 5 Axis Series

單位(Unit) : mm

NO.	檢 查 項 目 Inspection Item		125/170/210	255A	255B/321	400	500A	650K
1	真直度 Table top flatness	盤面全長 Overall length	0.01	0.01	0.01	0.02	0.01	0.01
2	工作台面旋轉起伏 Runout of table top during rotation		0.015	0.015	0.015	0.015	0.02	0.02
3	工作台面與本體底面平行度 Parallelism of table top to table bottom	盤面全長 Overall length	0.01	0.02	0.01	0.02	0.01	0.01
4	傾斜軸中心線與本體底面平行度 Parallelism of tilting axis centerline and table bottom		0.01	0.02	0.01	0.02	0.01	0.01
5	主軸中心孔旋轉偏擺 Runout of table center hole	盤面全長 Overall length	0.01	0.01	0.01	0.01	0.015	0.015
6	分割精度 Indexing accuracy	累積誤差 (-40°~+120°)	旋轉軸 Rotation 傾斜軸 Tilting	40" 15" 60"	15" 15" 60"	15" 15" 60"	15" 15" 60"	★20" ★20" ★20"
7	重複精度 Repeatability(bidirectional)	累積誤差	旋轉軸 Rotation 傾斜軸 Tilting	4" 4" 8"	4" 4" 8"	4" 4" 8"	4" 4" 8"	★4" ★4" ★4"
8	分度盤面對分度盤底座之平行度 Parallelism of table top to table bottom	盤面全長 Overall length	0.02	0.02	0.02	0.02	0.02	0.02

1	2
3	4
5	6
7	8

An optical device should be used for indexing accuracy measurement.
分割精度測定採用光學尺量測儀

★為搭配海德漢RCN-2000(±5")系列光學尺使用。 Means with encoder of HEIDENHAIN RCN-2000(±5") series.



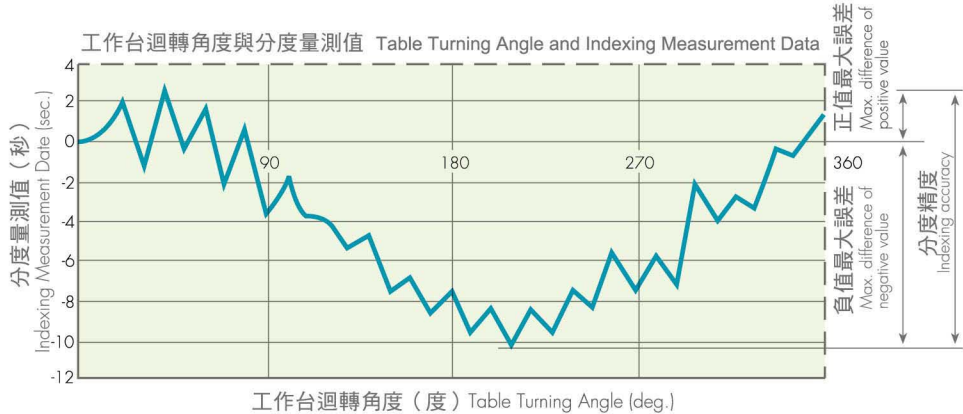
標準精度檢驗表
Inspection Standard

專業術語說明
Explanation of Technical Terms

下列專業術語可幫助您瞭解潭興產品
In order to help you understand TANSHING'S products, here are some explanations about the main items.

分度精度 Indexing Accuracy

工作台轉動定位必需等於蝸輪齒數的倍數。分別量測其誤差值。工作台理論迴轉角度量測值之差異就是誤差值。如下圖所示，分度精度等於正值與負值最大誤差的對值之總和。
By indexing one rotation of the table equally to coincide with the times of tooth number of the worm gear and measuring the result in order, the difference between the theoretical turning angle of the table and actual measurement is obtained. As shown below, the indexing accuracy is equal to the sum of the maximum difference of the positive value and that of the negative value, as an absolute value.



重複精度 Repeatability

將工作台迴轉定位在0°、90°、180°及270°，各作五次正向定位測試，並量測實際定位角度。在每個定位角度所量測的數值的最大與最小誤差就是量測值。然後再將工作台反向迴轉測試，如上所述之方法作測試，而最大與最小誤差就是量測值。所謂重複精度就是這兩種量測值的最大誤差值。
Indexing operations for positioning at four determined angular positions as 0°, 90°, 180° and 270° are carried out five times in the direction for positive rotation, and the indexing angles are measured. As a result, the difference between the maximum and the minimum measurement at each angular position is obtained. Indexing operations for positioning in the direction for negative rotation and the measurement of the indexing angles are similarly carried out, and the difference between the maximum and the minimum measurement is obtained. The repeatability is equal to the maximum value of the difference obtained through both measurements.

夾緊扭矩 Clamp Torque

所謂夾緊扭矩只是指夾緊機構，並不包含蝸輪鎖緊力。目錄上所示的夾緊扭矩是在油壓壓力35kg/cm²以及氣壓壓力在5kg/cm²的量測值。如果油壓壓力增加到最大容許壓力50kg/cm²以及氣壓壓力增加到7kg/cm²，則夾緊扭矩也將相對增大。
This clamp torque covers only the clamping mechanism, not including self-locking caused by a worm gear. The clamp torque seen on the catalog are the figures obtained when the rated pressure (35kg/cm² for hydraulic pressure and 5kg/cm² for pneumatic pressure) is supplied to the working fluid. If a more powerful clamp torque than specified in the catalog is required, the supply pressure can be elevated to the maximum allowable pressure (50kg/cm² for hydraulic pressure and 7kg/cm² for pneumatic pressure) and the clamp torque can be proportionally increased.

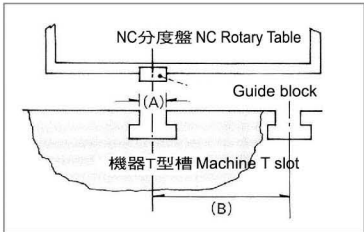
蝸輪容許扭矩 Allowable Wheel Torque

蝸輪容許扭矩是工作台轉動 1rpm 時的允許扭矩。蝸輪容許扭矩是依據日本齒輪協會之標準。
This allowable wheel torque is equal to the allowable torque for the worm wheel when the table rotation is 1 rpm. The allowable torque for the worm wheel is subject to the standard stipulated by the Japan Gear Manufacturers Association.

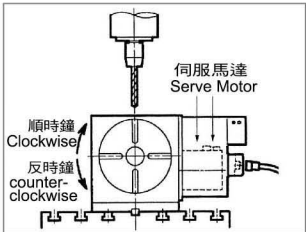
潭興電腦數控旋轉工作台 詳細規格選用表
TANSHING CNC Rotary Table Detailed Specifications

※注意：確認後方開單作業，不然屆時恐影響交期。
Note: Confirm the rear billing operation, otherwise Difficulties affect delivery.

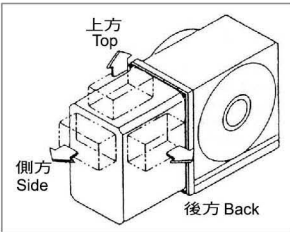
1	機器規格 Machine specifications	機器規格 Machine specifications	品牌Brand：_____ 型號Model：_____ 行程Travel：_____	
		機床控制器 Machine controller	☐ FANUC ☐ 三菱MITSUBISHI ☐ 西門子SIEMENS ☐ 其他Other _____	
		驅動器及配線 Driver & wiring	☐ 全無No ☐ 只有配線Only wiring ☐ 有驅動器及配線With driver and wiring	
2	機床工作台 Machine table	T槽寬 (A) T-slot (A)	☐ 14mm ☐ 16mm ☐ 18mm ☐ 22mm (Fig.I)	
		T槽Pitch尺寸 (B) T-slot Pitch (B)	☐ 80mm ☐ 100mm ☐ 125mm ☐ 150mm ☐ 160mm ☐ 其他other _____ (Fig.I)	
3	旋轉工作台 NC Rotary Table	機型代號 Model code	(1) 氣壓煞車Pneumatic brake： ☐ VRNC-125 ☐ VRNC-170 ☐ VRNC-210 油壓煞車Hydraulic brake： ☐ MRNC-255 ☐ MRNC-320 ☐ MRNC-400 ☐ 其他型號Other model _____	
		夾緊方式 Clamp system	☐ 空壓Pneumatic ☐ 空油壓Pneumatic & Hydraulic ☐ 油壓Hydraulic (請選用第6項之配件) (Please choose accessories of Item 6)	
		電磁閥 Voltage for clamp solenoid valve	☐ AC110V ☐ AC220V ☐ DC24V	
		氣油壓轉換位置 Pneumatic/Hydraulic converter position	☐ 後方Back ☐ 外接於機床式Connecting CNC machine type	
		接線盒位置 Junction box position	☐ 側方Side ☐ 後方Back ☐ 上方Top (FigureⅢ)	
4	伺服電機 servo motor	FANUC	☐ aiF4 ☐ aiF8 ☐ aiF12 ☐ β_____ iS ☐ α_____ ☐ αC _____	
		註Note： ☐ 購買Purchase ☐ 貴司提供安裝 Motor will be provided by buyer assembly by maker ☐ 不提供，僅測試用 Without motor, only test by maker	☐ HA-_____ -A _____ ☐ HC-_____ -A _____ ☐ HF-_____ -A _____ ☐ HG-_____ -D _____ 回授接頭為_____ Pin Outlet of signal wires connector _____ Pin	
		三菱 MITSUBISHI	☐ 直軸 Straight shaft ☐ 錐軸 Taper shaft	
		西門子 SIEMENS	☐ 1FK6 _____ - _____ ☐ 1FK7 _____ - _____ ☐ 1FT6 _____ - _____	
		其他 other	☐ _____ (請提供馬達外型尺寸圖之資料Please provide the data of motor size chart.)	
5	尾座 (選擇配件) Tailstock (Optional accessories)	心軸一體式手動尾座 Unchangeable thimble manual tailstock	☐ TS ☐ PTS-氣壓Pneumatic ☐ HTS-油壓Hydraulic： ☐ 125 ☐ 170 ☐ 210 ☐ 255 ☐ 320 ☐ 400 ☐ 500 ☐ 630 ☐ 其他other _____	
		頂針可換式手動尾座 Changeable thimble manual tailstock	☐ TTS ☐ PTTS-氣壓Pneumatic ☐ HTTS-油壓Hydraulic： ☐ 125 ☐ 170 ☐ 210 ☐ 255 ☐ 320 ☐ 400 ☐ 500 ☐ 630 ☐ 其他other _____	
		圓盤剎車尾座 Rotary tailstock	RTS- ☐ 125 ☐ 170C ☐ 210C ☐ 255A ☐ 320 ☐ 400 ☐ 500A ☐ 630A ☐ 其他other _____	
6	其他 (選擇配件) Other (Optional accessories)	夾頭形式 Chuck form	強力型手動夾頭 Powerful type chuck： ☐ SK- ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐ 10 ☐ 12 ☐ 其他other _____ 普通型手動夾頭 Manual chuck： ☐ SC- ☐ 4 ☐ 5 ☐ 6 ☐ 8 ☐ 9 ☐ 10 ☐ 其他other _____ 油壓夾頭 Hydraulic chuck： ☐ 6" ☐ 8" ☐ 10" ☐ 12" ☐ 其他other _____	
		油壓單元 Hydraulic unit	☐ HE-35單迴路油壓單元 HE-35 Single circuit hydraulic unit ☐ HE-35-2雙迴路油壓單元 HE-35-2 Double circuit hydraulic unit	
		空油壓轉換單元 Pneumatic/Hydraulic converter unit	☐ AE-35B附5M/L油管 AE-35B with 5M/L tubing (☐ AC110V ☐ AC220V ☐ DC24V)	
		單軸控制器 (含安川伺服電機) Single axis controller (including Yaskawa servo motor)	氣壓剎車Pneumatic brake：Pioneer- ☐ 125 ☐ 170 ☐ 210 油壓剎車Hydraulic brake：Pioneer- ☐ 255 ☐ 320 ☐ 400 ☐ 500 ☐ 其他Other _____	
		操作手冊 Operation Manual	☐ 中文Chinese ☐ 英文English	



圖一 Figure I



圖二 Figure II



圖三 Figure III