

**HYDEX**  
Founded in 1987

**鉸穎機械股份有限公司**  
HYDEX MACHINERY INDUSTRIAL CO., LTD.

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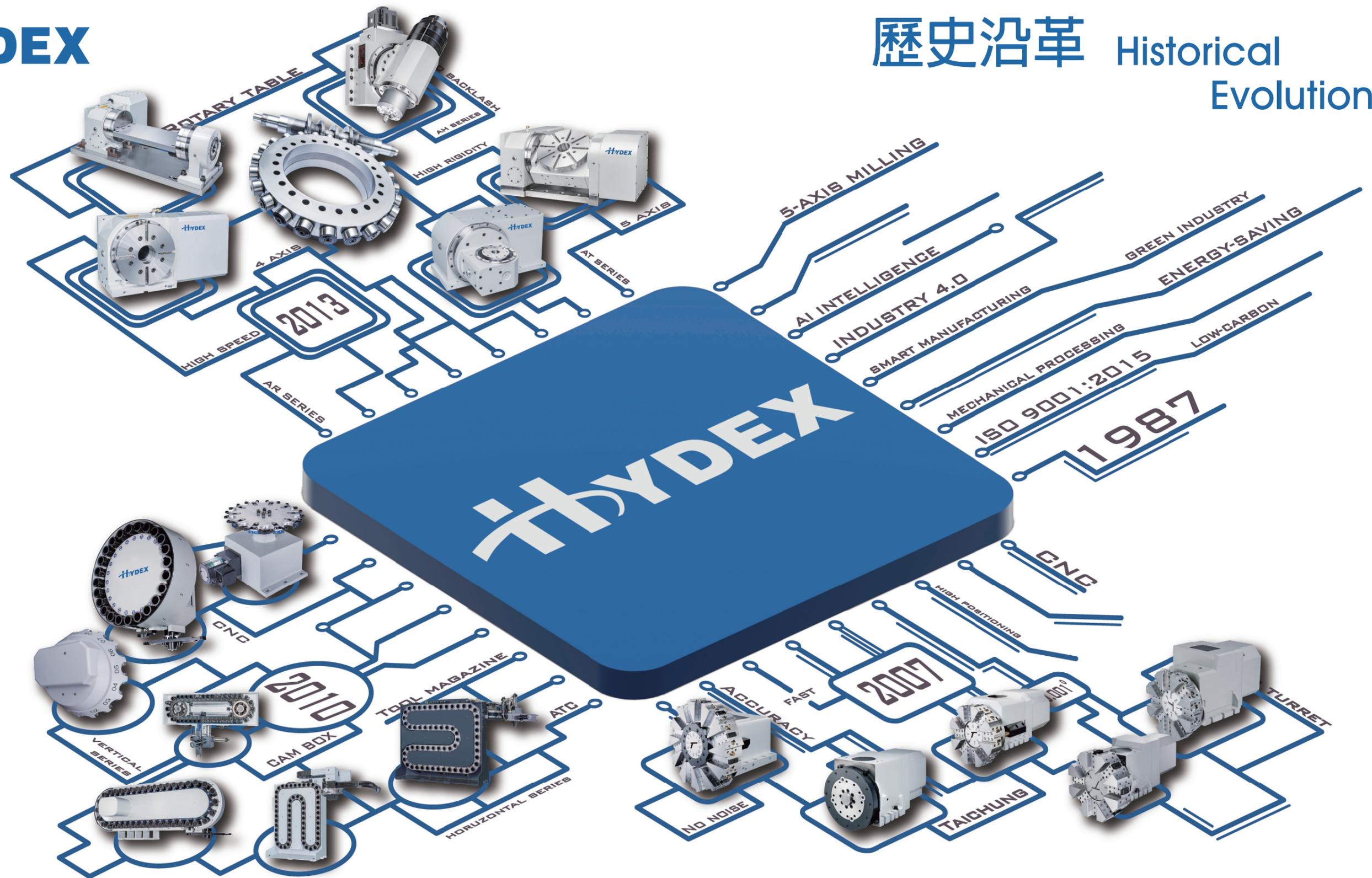
**福建鑫鉸笙精密機械有限公司**  
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**ROTARY TABLE**  
**TOOL MAGAZINE**  
**SERVO TURRET**

**HYDEX**  
Founded in 1987

**分度盤 刀庫 刀塔**



## 一路走來終如一 累積了三十年的機械零組件加工經驗

銓穎機械股份有限公司成立於1987年以HYDEX為自創品牌立足，原從事機械零組件加工製造，伴隨著現代機械的進步與轉型，除了有航天科技產業的零件加工經驗外，同時也開發具有獨自品牌相關產品，包括有伺服刀塔、中心機刀庫、滾子凸輪式分度盤等等。目前總公司座落於：台灣省台中市神岡區心路43-3號，總公司在林坤河總經理營運下，不論是加工經驗或是品牌經營都是超過三十年的累積，一路走來終如一。

## HYDEX不只是一個品牌 而是一個創新的指標

HYDEX目前生產的產品有：CNC車床伺服刀塔、CNC立式工具機刀庫、CNC臥式工具機刀庫、CNC立臥兩用型工具機刀庫、CNC無背隙滾子凸輪式分度盤、目前以CNC無背隙滾子凸輪式分度盤為主力，有別於以往傳統蝸桿蝸輪的特性，已經成為眾多3C製造產業選定的指標性產品。HYDEX目前也在大陸地區積極拓展生產基地，已達成大陸地區與台灣地區一整套生產銷售服務體系。除了總公司是第一個生產基地，第二個生產基地也將在福建省南靖縣設立完成。

## 永遠向前進步 顧客服務第一

銓穎機械累積了三十年的機械加工與製造經驗，所有的產品製造百分之九十的自製率，品質都是經過嚴格檢驗把關。對於售後服務即時反應處置改善，秉持的品質、服務、效率、創新的四大精神。永遠向前進步。祈願以更好、更新的產品來服務客戶，以創造雙贏的環境。

## PROFESSIONAL QUALITY CONSISTENT: 30 YEARS OF EXPERIENCE IN MACHINING MECHANICAL PARTS AND COMPONENTS

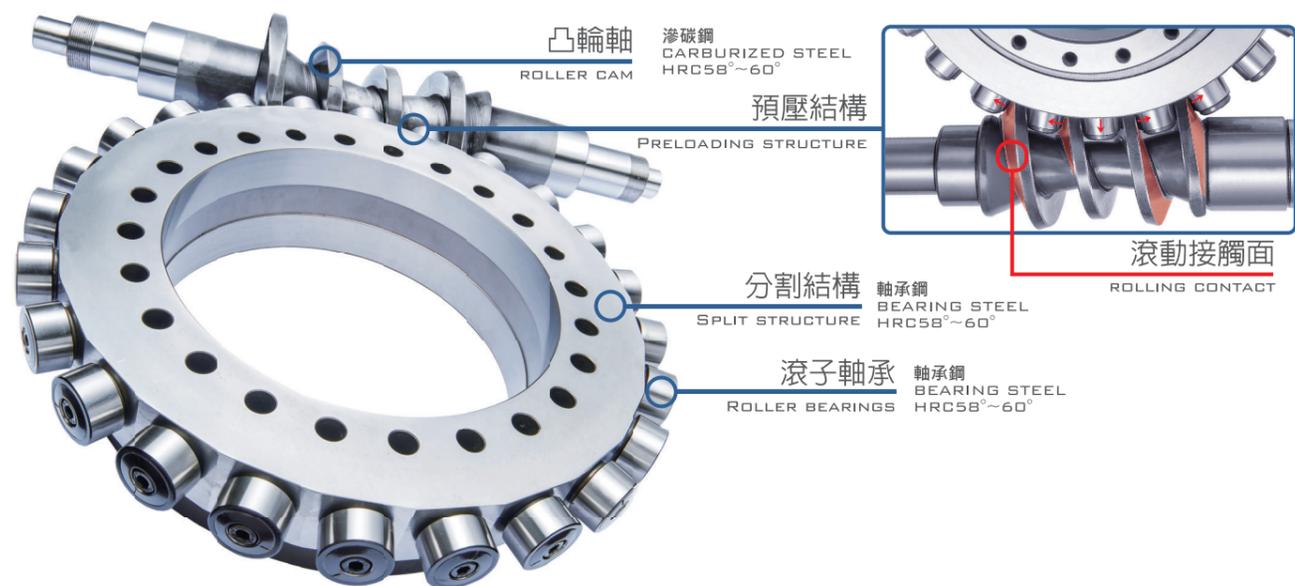
HYDEX was founded in 1987. Hydex was originally a machine parts processing manufacturer. Because of the progress and transformation of modern machinery, we have created related products of our own brand. The contents of the product include servo turret, tool magazine and rotary table. Hydex is located at No. 43-3, Gouxin Rd., Shengang Dist., Taichung City 429012, Taiwan (R.O.C.) Whether it is processing experience or brand management, hydex has accumulated for more than 30 years. Under the leadership of general manager Lin, hydex has been consistent all the way.

## HYDEX IS NOT ONLY A BRAND, BUT ALSO AN INDICATOR OF INNOVATION

Hydex curr rroduces: CNC lathe servo turret, CNC vertical tool machine tool magazine, CNC horizontal tool machine tool magazine, CNC vertical and horizontal type tool machine tool magazine, CNC roller cam type rotary table. At present, CNC roller cam type rotary table is the main product. Its structure is different from that of early worm and worm gears. Now it is an index product selected by the electronics, bicycle and automobile and locomotive manufacturing industries. Hydex is also actively expanding its production base in the mainland, and has reached a complete set of production and sales service system between the mainland and Taiwan. The headquarters is the first production base, and the second production base has been established in Nanjing County, Fujian Province.

## MAKE UNREMITTING EFFORTS AND NEVER STOP: CUSTOMER SERVICE IS THE PRIORITY

Hydex creates a win-win environment for supported customers. Hydex has more than 30 years of experience in machining and manufacturing. All products reach 90% self-made rate, the quality is strictly checked, and the after-sales service is immediate. Hydex adheres to four spirits: quality, service, efficiency and innovation. Hydex continues to make progress and hopes to serve customers with better and newer products.



## 滾子凸輪結構 ROLLER CAM TYPE

- 》滾子凸輪指的是入力凸輪軸與滾子轉塔組兩大部分組成。  
The roller cam consists of an input cam shaft and a roller turret.
- 》滾子與凸輪以滾動方式接觸，具有高剛性、高速性及耐久性等三大特性。  
The roller cam is designed with rolling contact, featuring high rigidity, high speed and outstanding durability.
- 》滾子與凸輪嚙合經預壓處理，因此可完全消除滾子與凸輪間之背隙，更凸顯滾子凸輪之超精密特性。  
Engagement between the roller and the cam is preloaded to fully eliminate backlash, enabling the roller and cam to exhibit their ultra-high precision feature.
- 》此外，以滾動方式傳遞動能，可有效減少驅動過程中之能量消耗，因此滾子凸輪之傳動效率可高達90%以上。  
With rolling contact to transmit kinetic energy, energy consumption during drive can be dramatically reduced. This enables the roller cam to achieve over 90% transmission efficiency.



**高速性**  
HIGH SPEED

- 》齒輪減速比小，運轉速快。  
The reduction ratio of gears is low that runs fast.
- 》滾動方式運動，傳導效率優異。  
It's very efficient because it's a rolling motion.



**高精度**  
PRECISION

- 》定位精度20秒，重複精度4秒。  
Indexing accuracy within 20 arc-sec, repeatability with 4 arc-sec.
- 》採用ISO 230-2，最高國際檢驗標準。  
Adopt ISO 230-2, the highest international inspection standard.
- 》可選配歐系高級光學尺品牌。  
Optional European advanced angle encoders.



**高剛性**  
RIGIDITY

- 》撞機時不易扭曲，精度影響小。  
It is not easy to distort when processing crash, and the influence of precision is small.
- 》滲碳鋼與軸承鋼，HRC58°~60°  
Carburizing steel and bearing steel, HRC58° ~ 60°.



**低背隙**  
LOW BACKLASH

- 》近乎零背隙，低磨耗，低震動。  
Nearly zero backlash, low wear and low vibration.
- 》維持壽命長，無須調整背隙。  
The accuracy can be maintained for a long time without adjusting the backlash.



**高耐性**  
HIGH TOLERANCE

- 》四點滾動接觸面，相互牽制定位，超高剛性。  
Four point rolling contact surface, mutual restraint positioning, ultra-high rigidity.
- 》一體式鑄件設計，預留重要鎖固介面，剛性優異。  
Important locking interface is reserved for excellent rigidity that integrated casting design.



**環保綠能**  
ENVIRONMENTAL

- 》低噪音，保養快速。  
Low noise, fast maintenance.

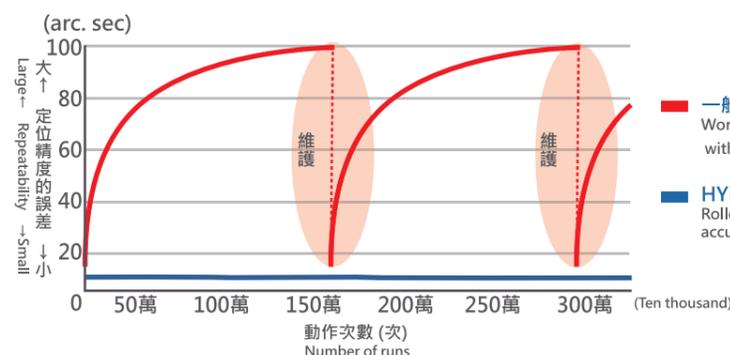
## 比較表 COMPARISON TABLE

型式 TYPE	HYDEX滾子凸輪 HYDEX ROLLER CAM	蝸桿蝸輪 WORM GEAR	DD直驅高扭矩馬達 DIRECT-DRIVE TORQUE MOTOR
嚙合部位材質與硬度 Engaging Parts Material And Hardnes	凸輪軸：滲碳鋼、HRC58°~60° Cam Shaft: Carburized Steel, HRC58°~60° 凸輪從動件：軸承鋼、HRC58°~60° Cam Follower: Bearing Steel, HRC58°~60°	蝸桿：滲碳鋼、HRC60° Worm: Carburized steel, HRC60° 蝸輪：磷青銅、HB90 Worm gear: Phosphor Bronze, HB90°	馬達直驅 Direct Drive By Motor
接觸形式 Contact Type	滾動接觸 Rolling Contact	滑動接觸 Sliding Contact	-
背隙 Backlash	近乎0背隙 (5arc-sec以內) Nearly Zero-backlash (within 5 arc-sec)	需要背隙 Backlash Required	-
盤面精度重現性 Table Surface Accuracy Repeatability	好 Good	低 Low	好 Good
嚙合部預壓 Engaging Parts Prelond	需要 Required	不能 Not Available	無 Whinout
傳動效率 Transmission Efficiency	高 High	低 Low	高 High
分割精度 Indexing Accuracy	20 arc-sec以內 Within 20 arc-sec	15~20 arc-sec	30 arc-sec以內 Within 30 arc-sec
發熱性 Thermal Growth	低 Low	高 High	低 Low
高速性 High Speed	好 Good	差 Poor	好 Good
動態切削剛性 Dtnamic Cutting Rigidity	高 High	低 Low	低 Low
耐久性 Durability	好 Good	差 Poor	中 Moderate
背隙調整 Backlash Adjustment	無須調整 Not Need	需要 Required	無須調整 Not Need

## 優勢分析 ADVANTAGE ANALYSIS

### 定位精度經時間變化試驗

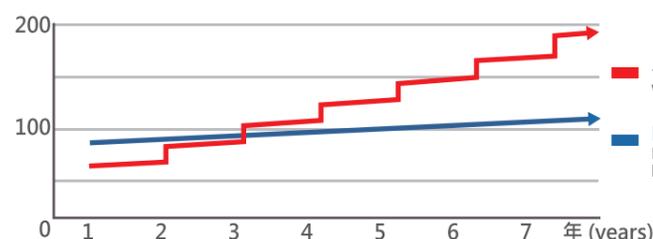
TIMEAE VARIATION OF POSITIONING ACCURACY



- 一般的蝸輪結構，會隨著時間的變化降低精度，需要定期進行維護。  
Worm gear type needs regular maintenance because the accuracy will decrease with time.
- HYDEX滾子結構，長期使用可維持穩定精度不變，不需要進行維護。  
Roller cam type does not need maintenance because it can maintain stable accuracy for long-term use.

### 初期價格與全年維持費累計圖

COMPARE THE INITIAL AND YEAR-ROUND CUMULATIVE PRICES



- 一般的蝸輪結構，每一年都需要進行二次的背隙調整維護作業。  
Worm gear type requires back clearance adjustment twice a year.
- HYDEX滾子結構，長期使用可維持穩定精度不變，不需要進行背隙調整維護作業。  
Roller cam type does not require regular back clearance adjustment and maintenance, because long-term use can maintain stable accuracy.



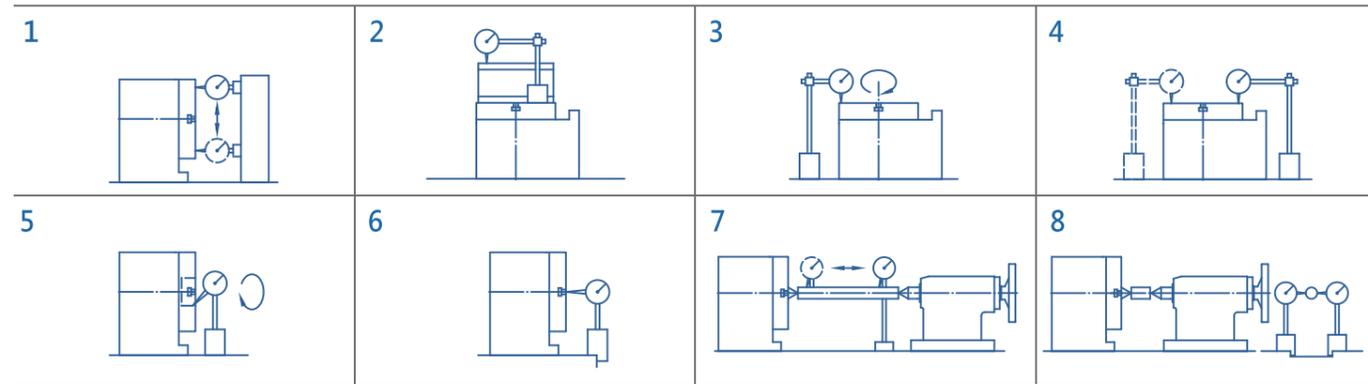
# AR series

- 》CNC 分度盤  
CNC rotary table.
- 》適用於不同類型加工-立式、臥式兩用型  
Vertical and horizontal dual-purpose.  
Can be use on different types of processing.
- 》可選配HFT、HFTS、HMT Series 使用  
Optional HFT, HFTS, HMT series.
- 》可選配光學尺  
Optional modular angle encoder.

## 規格 SPECIFICATION

型號	MODEL	UNIT	AR-135	AR-170	AR-200	AR-250	AR-320	AR-400	AR-500	AR-800
工作盤直徑	Table Diameter	Ømm	135	170	200	250	320	400	500	800
中心孔徑	Spindle Hole	Ømm	30H7	60H7	60H7	75H7	75H7	150H7	200H7	360H7
中心高度	Center Height	mm	110	135	160	160	210	255	310	530
總減速比	Total Speed Reduction Ratio		30	36	36	60	60	60	60	180
最高迴轉數	Max. Rotation Speed (3000 rpm)	rpm	100	83.3	83.3	50	50	50	50	16.7
分割精度	Indexing Accuracy	sec	±20	±15	±10	±10	±10	±10	±10	±10
重複精度	Repeatability	sec	8	8	4	4	4	4	4	4
最小設定單位	Min. increment	deg.	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
重量(不含馬達)	Weight (Without Motor)	kg	28	64	68	107	168	320	500	1410
鎖緊壓力 (空壓/油壓)	Resource (Pneumatic / Hydeaulic)	kg/cm <sup>2</sup>	5 (空壓) (Pneumatic)	5 (空壓) (Pneumatic)	5 (空壓) (Pneumatic)	30 (油壓) (Hydeaulic)				
煞車鎖緊扭力	Output Braking Torque	Nm	79	138	138	882	1470	2744	3920	7350
容許承重 Allowable Work Weight	立式 Vertical	kg	20	70	70	125	170	230	320	720
	臥式 Horizontal	kg	40	140	140	250	340	480	640	1420
最大負荷 (轉盤夾緊時) Maximum load (when the rotary table is clamped)		kgf	600	1100	1400	2000	3000	4000	5000	10000
		F*L kgf-m	8	50	80	100	250	400	600	700
		F*L kgf-m	15	40	40	95	160	250	350	1000
容許慣性	Allowable Work Inertia	kg-m <sup>2</sup>	0.1	0.48	0.48	1.95	3.7	8.8	18.4	32

## 精度規格 ACCURACY SPECIFICATION

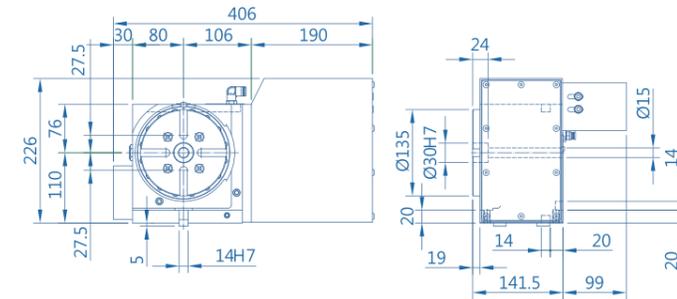


項次 No.	檢驗項目 Inspection items		容許公差 Allowable Tolerance								單位 UNIT: mm
			AR-135	AR-170	AR-200	AR-250	AR-320	AR-400	AR-500	AR-800	
1	中心孔偏擺量 Runout of table reference bore	前部 Front	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
2	盤面真直度 Straightness of table top	全長 Full Length	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
3	盤面偏擺量 Run-out of table surface indexing accuracy	-	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
4	盤面與底座平行度 Parallelism between table surface and table base	全長 Full Length	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
5	盤面與底座垂直度 Perpendicularity between table top and reference surface for upright mounting	全長 Full Length	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
6	盤面與底座定位塊垂直度 Perpendicularity between table top and bottom locating block for upright mounting	全長 Full Length	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03
7	分度盤及尾座中心高 Table top and support spindle center height	-	AR-135	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
8	分度盤及尾座中心線與底座定位塊平行度 Parallelism between center line of table top and support spindle and bottom locating block	300mm	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

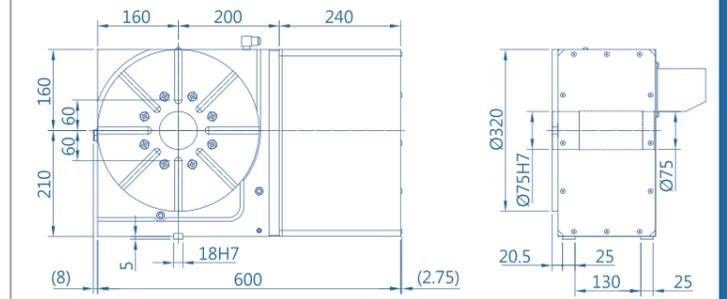
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## 尺寸圖 DIMENSION DRAWING

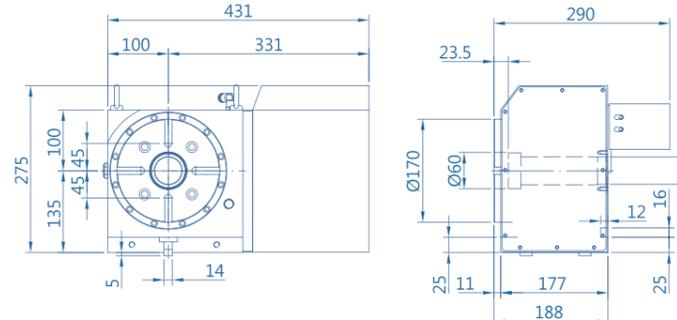
### AR-135



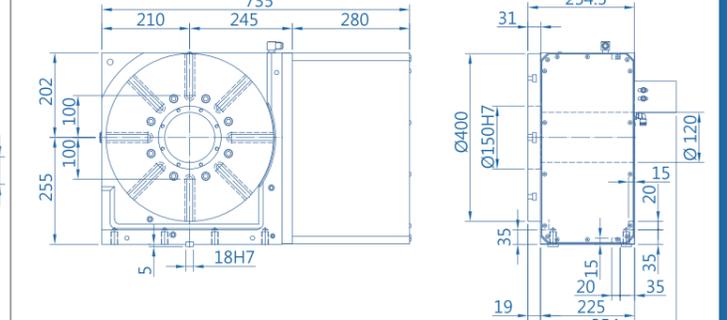
### AR-320



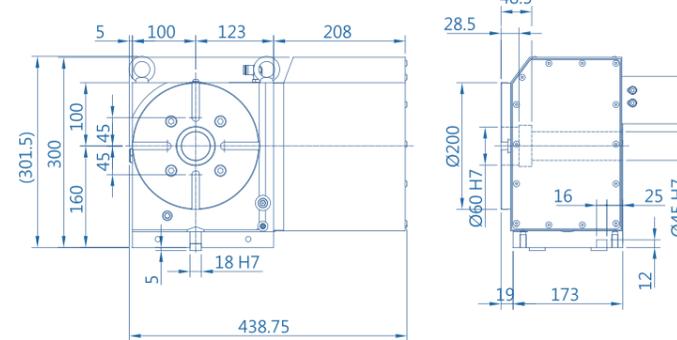
### AR-170



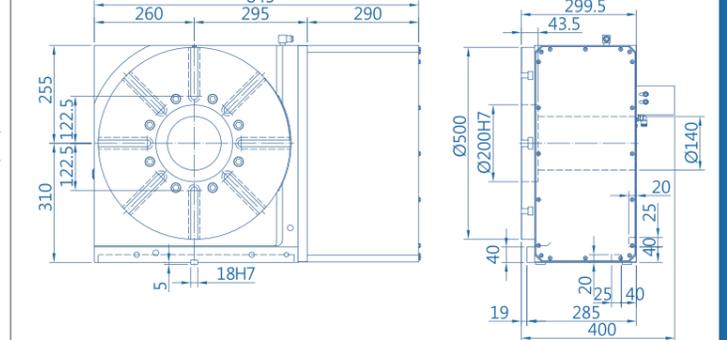
### AR-400



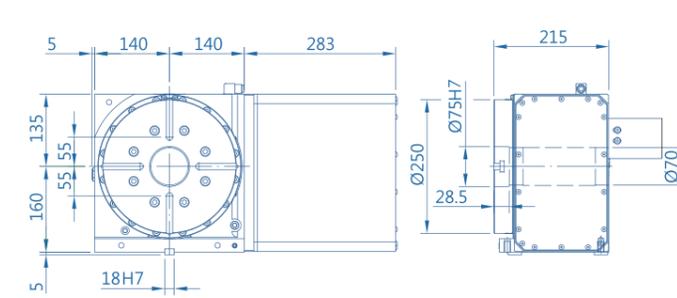
### AR-200



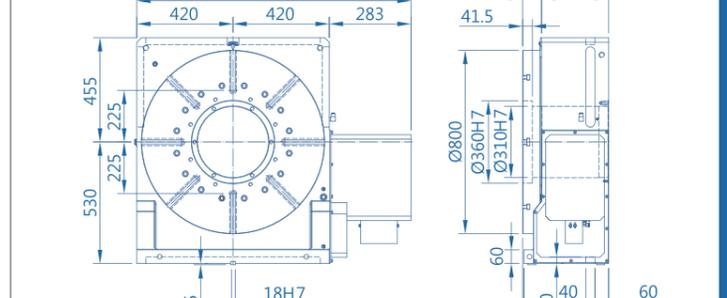
### AR-500



### AR-250



### AR-800



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# AT & ATK series

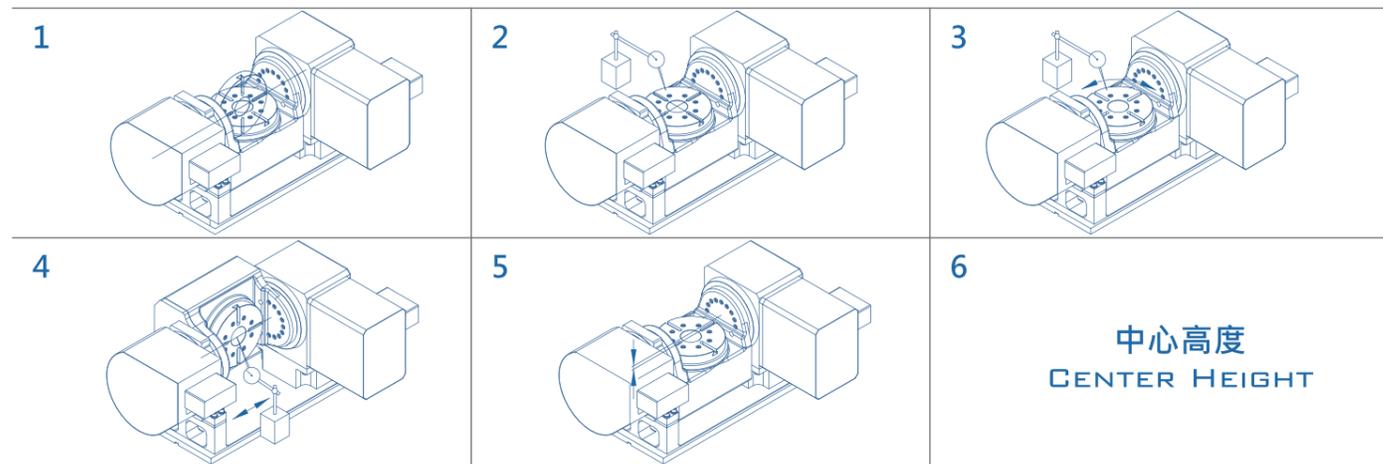


- 》 CNC 五軸分度盤  
CNC Five-axis rotary table.
- 》 可選配光學尺  
Optional modular angle encoder.

## 規格 SPECIFICATION

型號	MODEL	UNIT	AT-100	AT-250	ATK-135	ATK-200	ATK-250
工作盤直徑	Table Diameter	Ømm	100	250	135	200	250
中心孔徑	Spindle Hole	Ømm	30H7	75H7/70	30H7/20	60H7/45	75H7/75
旋轉角度	Tilt axis rotation angle	deg.	-30°~+120°	-30°~+120°	-30°~+120°	-30°~+120°	-30°~+120°
中心高度	Center Height	0°	205	320	230	275	300
		90°	140	320	160	195	255
總減速比	Total Speed Reduction Ratio	迴轉軸 Rotary axis	48	60	40	60	60
		傾斜軸 Tilt axis	60	90	60	60	90
最高迴轉數	Max. Rotation Speed (3000 rpm)	迴轉軸 Rotary axis	83.3	50	75	50	50
		傾斜軸 Tilt axis	66.7	33.3	66.7	50	33.3
分割精度	Indexing Accuracy	迴轉軸 Rotary axis	±25	±25	±25	±25	±25
		傾斜軸 Tilt axis	±25	±25	±25	±25	±25
重複精度	Repeatability	sec	8	4	4	4	4
最小設定單位	Min. increment	deg.	0.001°	0.001°	0.001°	0.001°	0.001°
重量(不含馬達)	Weight (Without Motor)	kg	135	400	165	255	340
鎖緊壓力(油壓)	Resource (Hydraulic)	kg/cm <sup>2</sup>	無煞車 (No brake)	30	30	30	30
煞車鎖緊扭力	Output Braking Torque	迴轉軸 Rotary axis	-	588	79	588	588
		傾斜軸 Tilt axis	-	1078	138	882	1078
容許承重	Allowable Work Weight	0°	20	110	110	110	160
		90°	8	70	70	70	110

## 精度規格 ACCURACY SPECIFICATION

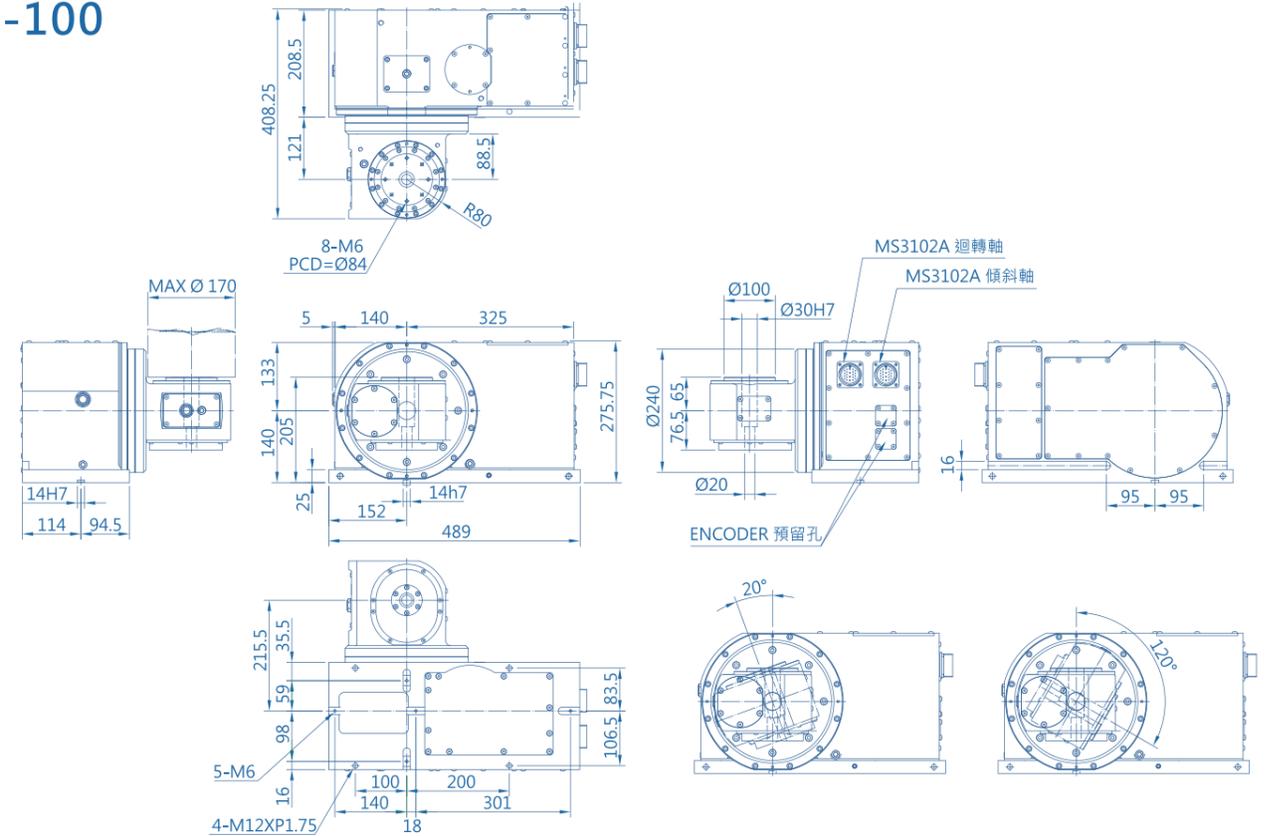


項次 No.	檢驗項目 Inspection items	容許公差 Allowable Tolerance						單位 UNIT: mm
		AT-100	AT-250	ATK-135	ATK-160	ATK-200	ATK-250	
1	0°~90°時工作盤中心變位差 Measurement of displacement of center when tilting from 0° to 90°	-	0.02	0.02	0.02	0.02	0.02	0.02
2	傾斜軸0°·工作盤面與底部平行度 Parallelism between table surface and table base when tilting axis is 0°	全長 Full Length	0.01	0.01	0.01	0.01	0.01	0.01
3	傾斜軸0°·中心孔偏擺量 Runout of table reference bore when tilting axis is 0°	-	0.01	0.01	0.01	0.01	0.01	0.01
4	傾斜軸90°·工作盤面與底部基準塊平行度 Parallelism between table surface and table base when tilting axis is 90°	-	0.01	0.01	0.01	0.01	0.01	0.01
5	傾斜軸中心與迴轉軸中心距離 Distance between center line of tilting axis and center line of rotary axis	-	±0.02	±0.02	±0.02	±0.02	±0.02	±0.02
6	傾斜軸0°工作盤面與底部距離 Distance between table face plate and table base when tilting axis is 0°	中心高度 Center height	0.02	0.02	0.02	0.02	0.02	0.02
	傾斜軸90°工作盤面中心與底部距離 Distance between table face plate and table base when tilting axis is 90°		0.02	0.02	0.02	0.02	0.02	0.02

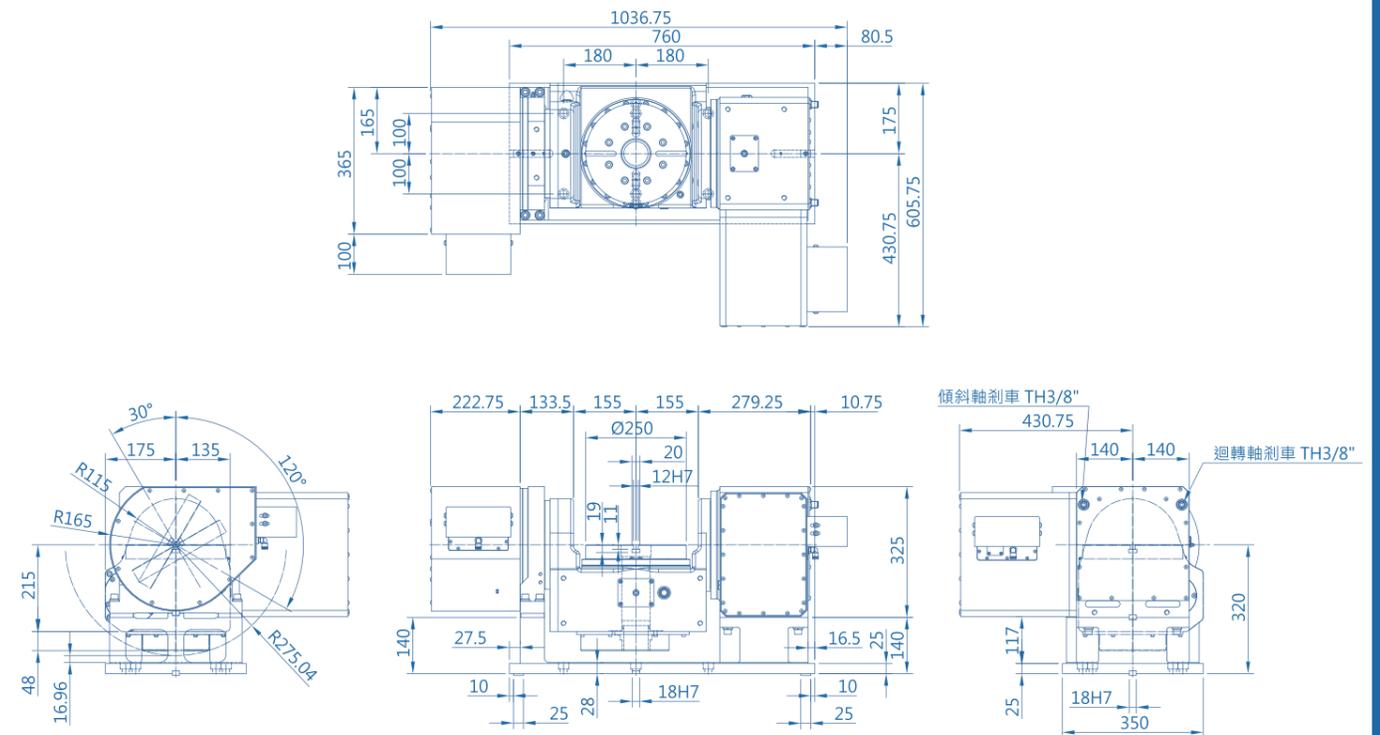
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## 尺寸圖 DIMENSION DRAWING

### AT-100

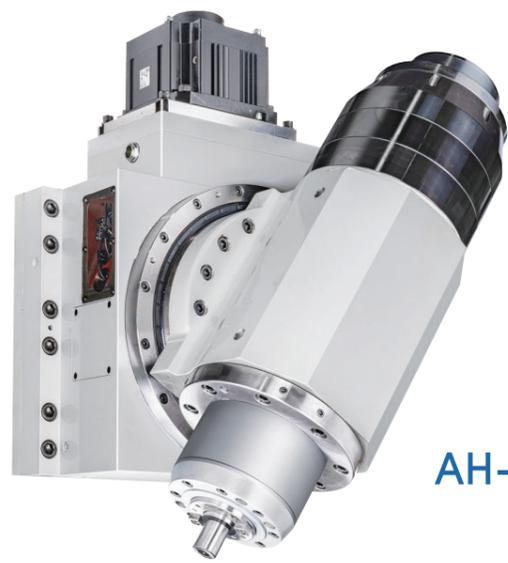


### AT-250



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AH-400N

# AH series

- » CNC 搖擺主軸旋轉擺頭座  
CNC Swiveling spindle head set.
- » 可搭配不同品牌之主軸頭  
Can be matched with spindle heads of different brands.
- » 可選配光學尺  
Optional modular angle encoder.

## 伺服馬達一欄表 SERVO MOTOR DRIVE

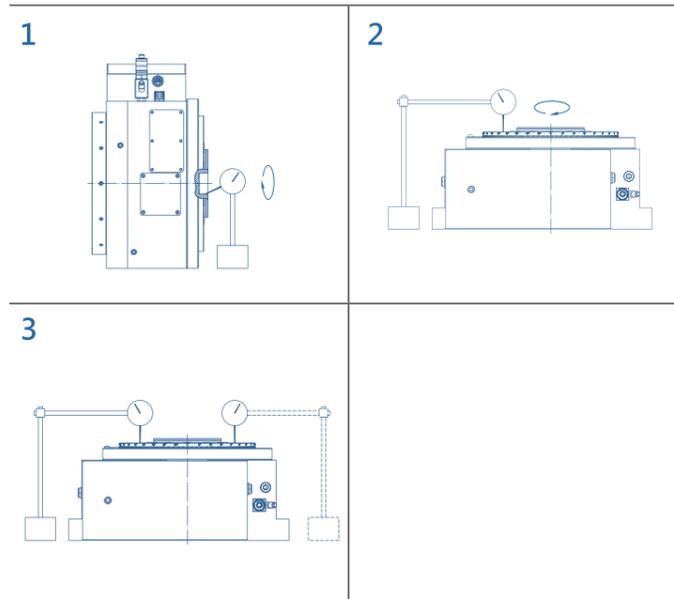
型號 Model	發那科 AC FANUC AC	三菱 AC MITSUBISHI AC	安川 AC YASKAWA AC	西門子 AC SIEMENS AC	海德漢 AC HEIDENHAIN AC	發格 AC FOGOR AC	
AR-135	AiF2/5000	HG75S	-	1FK7042	QSY-96A	FKM22.30	
	BiS4/4000						
AR-170	AiF4/5000	HG104S	SGMGV-13A	1FK7060	QSY-116C	FKM42.30	
	BiS8/3000						
AR-200	AiF4/5000	HG104S	SGMGV-13A	1FK7060	QSY-116C	FKM42.30	
	BiS8/3000						
AR-250	AiF8/3000	HG154S	SGMGV-20A	1FK7063	QSY-116E	FKM44.30	
	BiS12/3000						
AR-320	AiF12/4000	HG204S	SGMGV-30A	1FK7083	QSY-155B	FKM64.30	
	BiS22/2000						
AR-400	AiF12/4000	HG204S	SGMGV-30A	1FK7083	QSY-155B	FKM64.30	
	BiS22/2000						
AR-500	AiF12/4000	HG204S	SGMGV-30A	1FK7083	QSY-155B	FKM64.30	
	BiS22/2000						
AR-800	-	HG354S	-	1FK7084	QSY-155D	-	
AT-100	迴轉軸 Rotart axis	AiS2/6000	HG43S	-	-	-	
	傾斜軸 Tilt axis	AiS4/6000	HG73S	-	-	-	
AT-250	迴轉軸 Rotart axis	AiF8/3000	HG154S	SGMGV-20A	1FK7063	QSY-116E	
		BiS12/3000					
	傾斜軸 Tilt axis	AiF8B/3000	HG154BS	SGMGV-20A	1FK7063	QSY-116E	FKM44.30
ATK-135	迴轉軸 Rotart axis	AiF4/5000	HG104S	SGMGV-13A	1FK7060	QSY-116C	
		BiS8/3000					
	傾斜軸 Tilt axis	AiF4B/5000	HG104BS	SGMGV-13A	1FK7060	QSY-116C	FKM42.30
ATK-200	迴轉軸 Rotart axis	AiF8/3000	HG154S	SGMGV-20A	1FK7063	QSY-116E	
		BiS12/3000					
	傾斜軸 Tilt axis	AiF8B/3000	HG154BS	SGMGV-20A	1FK7063	QSY-116E	FKM44.30
ATK-250	迴轉軸 Rotart axis	AiF8/3000	HG154S	SGMGV-20A	1FK7063	QSY-116E	
		BiS12/3000					
	傾斜軸 Tilt axis	AiF8B/3000	HG154BS	SGMGV-20A	1FK7063	QSY-116E	FKM44.30
ATK-250	傾斜軸 Tilt axis	BiS12B/3000	HG154BS	SGMGV-20A	1FK7063	QSY-116E	FKM44.30
ATK-250	迴轉軸 Rotart axis	AiF8/3000	HG154S	SGMGV-20A	1FK7063	QSY-116E	FKM44.30
ATK-250	傾斜軸 Tilt axis	AiF8B/3000	HG154BS	SGMGV-20A	1FK7063	QSY-116E	FKM44.30
ATK-250	傾斜軸 Tilt axis	BiS12B/3000	HG154BS	SGMGV-20A	1FK7063	QSY-116E	FKM44.30
AH-400	迴轉軸 Rotart axis	AiF22/3000	HG354S	-	1FK7084	QSY-155D	

### 規格 SPECIFICATION

型號	MODEL	UNIT	AH-400N
工作盤直徑	Table Diameter	Ømm	320
中心孔徑	Spindle Hole	Ømm	Ø140
旋轉角度	Rotation angle	deg.	±120°
總減速比	Total Speed Reduction Ratio		90
最高迴轉數	Max. Rotation Speed (3000 rpm)	rpm	33.3
分割精度	Indexing Accuracy	sec	±10
重複精度	Repeatability	sec	4
最小設定單位	Min. increment	deg.	0.001°
重量(不含馬達)	Weight (Without Motor)	kg	320
鎖緊壓力(油壓)	Resource (Hydraulic)	kg/cm <sup>2</sup>	30
煞車鎖緊扭力	Output Braking Torque	Nm	2450
容許承重	Allowable Work Weight	kg	230
容許慣性	Allowable Work Inertia	kg-m <sup>2</sup>	5.78
連續保持扭矩	Strength of Roller Gear Cam	Nm	1450

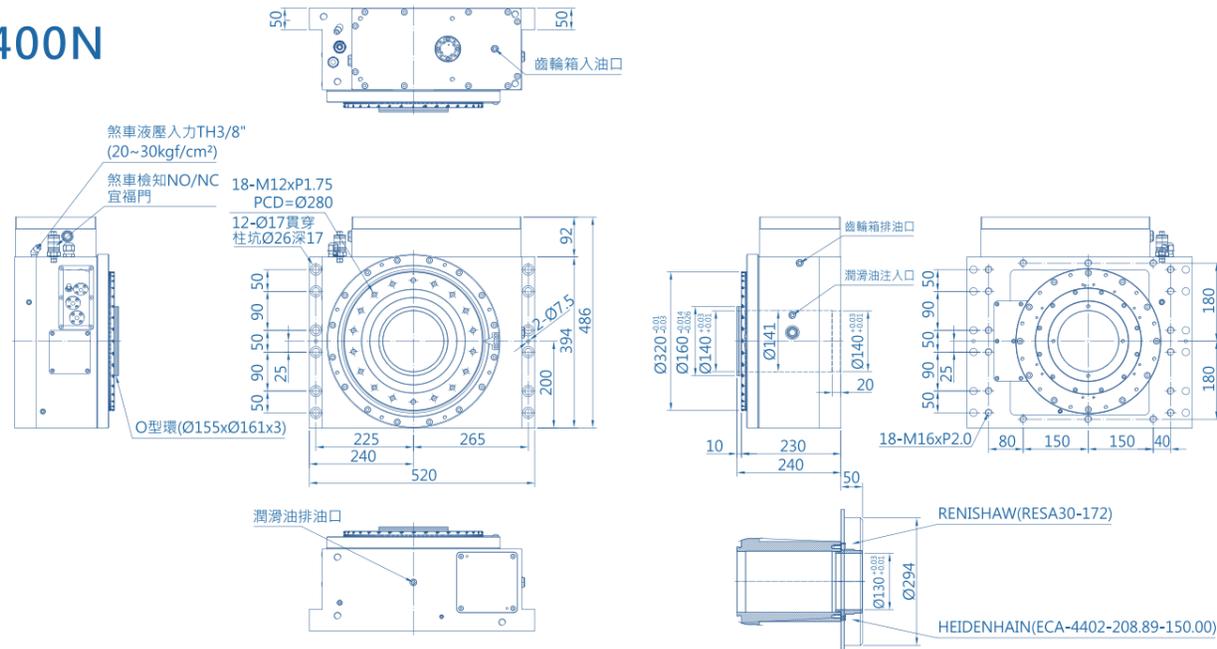
### 精度規格 ACCURACY SPECIFICATION

項次 No.	檢驗項目 Inspection items	容許公差 Allowable Tolerance
1	中心孔偏擺量 Runout of table reference bore	前部 Front 0.01 mm
2	盤面偏擺量 Run-out of table surface indexing accuracy	- 0.02 mm
3	盤面與底座平行度 Parallelism between table surface and table base	全長 Full Length 0.02 mm

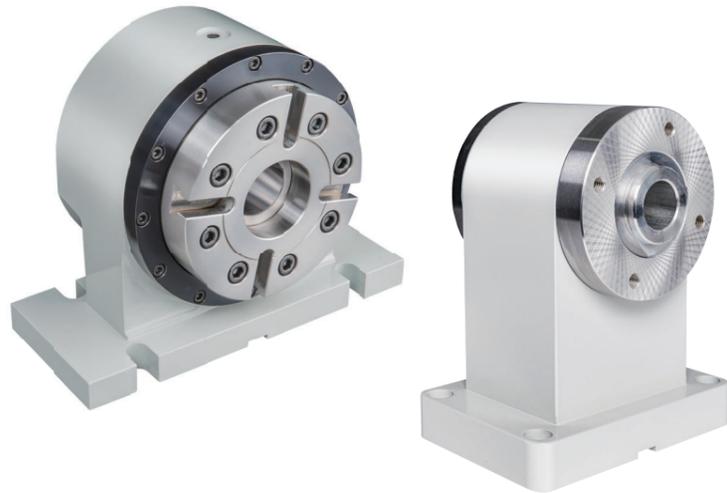


### 尺寸圖 DIMENSION DRAWING

AH-400N



# HFT & HFTS series



- 》圓盤尾座  
Disc tailstock.
- 》與AR series 產品搭配使用  
Use with AR series.

## HFT-160P

圓盤 Faceplate  
尾座 Tailstock  
P 氣壓鎖緊 Pneumatic  
H 油壓鎖緊 Hydraulic  
盤面尺寸 Faceplate Dimension

# HMT series

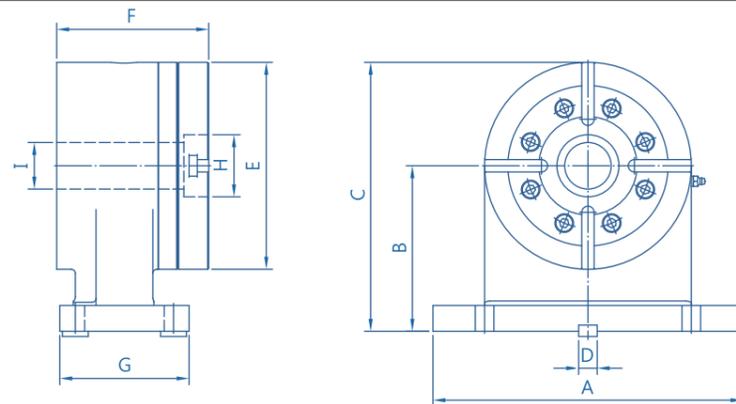
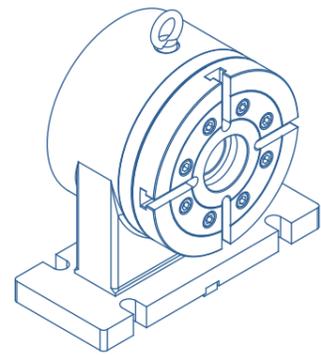


- 》圓盤尾座  
Thimble tailstock.
- 》與AR series 產品搭配使用  
Use with AR series.

## HMT-200C

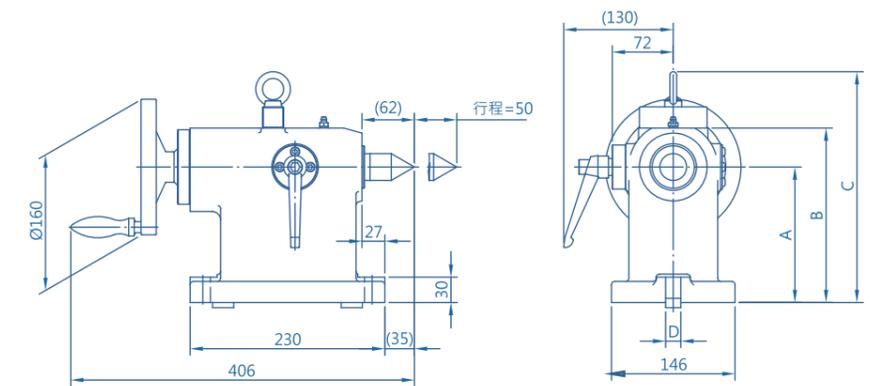
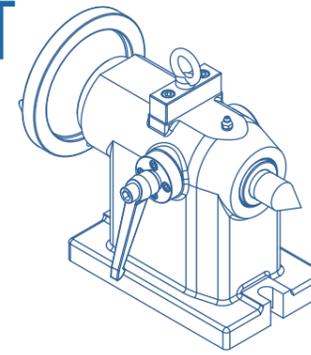
M 手動 Manual  
P 氣動 Pneumatic  
H 油壓 Hydraulic  
可替換式 Chandeable  
對應分度盤型號 Rotary model  
尾座 Tailstock

## HFT



型號 Model	A	B	C	D	E	F	G	H	I
HFT-135P	200	110	190	14	135	130	105	30	15
HFT-160P	300	135	235	18	160	147	125	60	45
HFT-200P/H	300	160	260	18	200	147	125	60	45
HFT-250H	300	160	285	18	250	151	125	75	50
HFT-320H	400	210	370	18	320	160	125	75	50

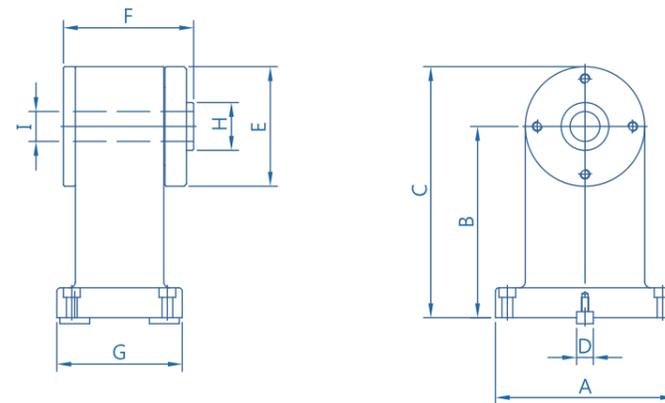
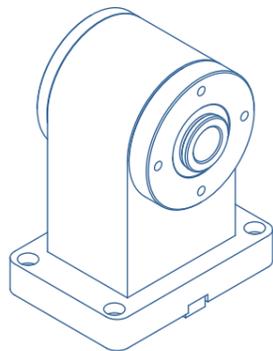
## HMT



型號 Model	A	B	C	D
HMT-135C	110	156	223	14
HMT-160C	135	181	248	14
HMT-200C	160	206	273	18
HMT-250C	160	206	273	18
HMT-320C	210	256	323	18

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## HFTS



型號 Model	A	B	C	D	E	F	G	H	I
HFTS-135	150	110	160	18	100	109	105	40	25
HFTS-160	150	135	185	18	100	109	125	40	25
HFTS-200	150	160	210	18	100	109	125	40	25

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