

門型高速加工中心機

DOUBLE COLOUMN HIGH SPEED MACHINING CENTER

規格表 SPECIFICATIONS

項目 Item	單位 Unit	S5	S8	S5-S	S8-S	S5-C	S8-C	S5-5C	S8-5C	S10	S12	S14	S16	
加工範圍 Machine Travel														
X/Y/Z 行程 X/Y/Z travels	mm	500x400x240	800x600x520	500x400x240	800x600x520	500x400x240	800x600x520	500x400x240	800x500x520	1000x700x500	1200x950x600	900x1300x700	1600x1300x700	
主軸端面至工作台距離 Distance from spindle nose to table	mm	249-496 (223-463)	225-745	223-463	225-745	246-486	225-745	Ø180 90-330 Ø250 130-370	10-530	200-700	200-800	200-900	200-900	
主軸中心至立柱距離 Distance from spindle center to column	mm	249	348	249	348	249	348	249	348	360	360	360	360	
工作台 Table														
						轉盤尺寸 Rotary table dimensions Ø260 / Ø280								
工作台尺寸 Table size	mm	500x400	800x500	500x400	800x500	500x400	800x500	Ø180 / Ø250	Ø350	1050x700	1250x950	900x1400	1600x1300	
T型槽 (尺寸x間距x槽數) T-Slots (WidthxPitchxNo.)	mm	10x100x4	14x100x5	10x100x4	14x100x5	10x100x4	14x100x5	-	-	18x125x6	18x125x6	22x160x5	22x160x8	
工作台最大載重 Max. table load	kg	100	900	100	900	100	900	50	150	800	1000	1500	1500	
主軸 Spindle														
主軸型式 Spindle speed & type		BBT30-24,000rpm	HSK-A63-20,000rpm	HSK-E32-40,000rpm	HSK-E32-40,000rpm	BBT-30-24,000rpm	HSK-A63-20,000rpm	BBT-30-24,000rpm	HSK-A63-20,000rpm	HSK-A63-20,000rpm	HSK-A63-20,000rpm	HSK-A63 20,000 rpm	HSK-A63 20,000 rpm	
主軸馬達功率 Spindle motor	Kw	11	20	8	8	11	20	11	20	20	20	20	20	
主軸馬達扭矩 Spindle motor torque	Nm	S1: 5 / S6: 8	S1: 30.7 / S6: 36.8	S1: 2 / S6: 3	S1: 2 / S6: 3	S1: 5/S6: 8	S1: 30.7 / S6: 36.8	S1: 5 / S6: 8	S1: 30.7 / S6: 36.8	S1: 30.7 / S6: 36.8	S1: 30.7 / S6: 36.8	S1: 30.7 / S6: 36.8	S1: 30.7 / S6: 36.8	
主軸最大夾持刀具直徑 Max. tool size of clamping	mm	Ø16	Ø16	Ø16	Ø16	Ø16	Ø16	Ø16	Ø16	Ø16	Ø16	Ø16	Ø16	
傳動方式 Transmission														
X/Y/Z 軸 X/Y/Z axes	N	線性馬達 Linear motor	線性馬達 Linear motor	線性馬達 Linear motor	線性馬達 Linear motor	線性馬達 Linear motor	線性馬達 Linear motor	線性馬達 Linear motor	線性馬達 Linear motor	線性馬達 Linear motor	線性馬達 Linear motor	線性馬達 Linear motor	線性馬達 Linear motor	
配重 Counterweight		氣壓 Air pressure	氣壓 Air pressure	氣壓 Air pressure	氣壓 Air pressure	氣壓 Air pressure	氣壓 Air pressure	氣壓 Air pressure	氣壓 Air pressure	氣壓 Air pressure	氣壓 Air pressure	氣壓 Air pressure	氣壓 Air pressure	
刀庫 ATC														
刀柄規格 Tool shank		BT30	HSK-A63	HSK-E32	HSK-E32	BT30	HSK-A63	BT30	HSK-A63	HSKA63	HSKA63	HSK A63	HSK A63	
刀具類型 / 數量 ATC Type / NO. of tool		圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	圓盤式 Arm-Type 20T	
換刀時間 (刀對刀) Tool change time (Tool to tool)	sec	0.9	1.3	0.9	1.3	0.9	1.3	0.9	1.3	1.3	1.3	1.3	1.3	
最大刀具重量/長度/直徑 Max. weight/length/diameter of tool	kg/mm	5/200/Ø60	5/200/Ø60	4/200/Ø60	4/200/Ø60	5/200/Ø60	5/200/Ø60	5/200/Ø60	5/150/Ø60	5/200/Ø60	5/200/Ø60	5/200/Ø60	5/200/Ø60	
進給速度 Feed Rate														
最大快速進給速度 (X/Y/Z) Max. rapid feed rate (X/Y/Z)	m/min	60/60/60	60/60/60	60/60/60	60/60/60	60/60/60	60/30/60	60/15/60	60/30/60	60/30/60	60/30/60	60/30/60	60/30/60	
最大加速度 Max. acceleration	G	1	1	1	1	1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	
精度 Accuracy (平均參考值 Average Reference Value)														
定位精度 (ISO) Positioning (ISO)	mm	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.010	0.010	0.010	0.010	
重複定位精度 (ISO) Repeatability (ISO)	mm	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.008	0.008	0.008	0.008	
動力源 Power supply														
電源 Power	KVA	20	40	25	45	25	50	30	45	50	50	60	60	
氣源 Air pressure supply	Mpa	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	0.65	
其他 Other														
機器重量 Machine net weight	kg	4500	8000	4500	8000	4500	8000	5500	8000	9100	13000	18000	20000	
占地空間 (長x寬x高) Floor space (LxWxH)	mm	1800x2100x2600	2700x2280x2670	1800x2100x2600 機台佔地未含吸塵器空間 Space for dust collector excluded	2700x2280x2670	1800x2100x2600	2700x2280x2670	2140x1995x2254	2700x2280x2670	3400x4300x3050	4540x3890x3510	3800x4400x4000	4650x4400x4000	
控制系統 Controller	德國 Rexroth MTX / 西門子 Siemens						德國 Rexroth MTX / 西門子 Siemens							

本產品尺寸規格若有變更，恕不另行通知。 Specifications are subject to change without prior notice.

標準功能與附件

- 控制系統+X, Y, Z 線性馬達-力士樂
- 光學尺-發格
- 花崗岩床身 (S5 其餘為人造石)
- 標準刀庫 (參考規格表)
- 內藏式主軸 (參考規格表)
- 線性滑軌
- Z 軸配重平衡裝置
- 全罩式外板金防護
- X, Y, Z 軸伸縮防護罩
- 油脂潤滑系統
- 線性馬達冷卻裝置

- 主軸冷卻裝置
- 氣壓回路控制裝置 (含氣槍/主軸清潔吹氣)
- 切削液工件冷卻裝置
- 電氣箱配備散熱交換器
- 變壓器
- 調整用工具及工具箱
- 油霧回收機
- 隔離式刀庫門
- 底盤沖屑裝置

Standard Accessories

- Controller+X, Y, Z linear motors-Rexroth
- Linear scale-Fago
- Granite machine body (S5 only. Others are artificial stone)
- Standard ATC (Reference specifications)
- Built-in spindle (Reference specifications)
- Linear guideway
- Z axis weight balance device
- Full-enclosed guard
- X, Y, Z axes telescopic covers
- Grease lubrication system

- Linear motor cooling system
- Spindle cooler
- Pneumatic circuit control system (Including spray gun & spindle air blast)
- Work-piece cooling system
- Electric cabinet heat exchanger
- Transformer
- Adjustment tool & tool box
- Oil mist collector
- Isolated ATC door
- Coolant device for chip flushing system

選配功能與附件

- 內藏式主軸 BBT-30-24,000 rpm
- HSK-E40-32,000 rpm / HSK-E32-40,000 rpm (以上三種主軸全系列皆可選配)
- 內藏式主軸 HSK-A63-20,000 rpm (只有 S8 系列以上可選配)
- S8 系列以上三軸可選配滾珠螺桿
- 刀具量測 (接觸式)
- 刀具量測 (激光式)
- 工件檢測 (探針)
- 加裝四軸-立式 / 臥式
- 圓盤式刀庫 24T

- 鏈條式刀庫 48T
- 控制系統 西門子 828D / 840D
- 光學尺-海德漢
- 人造花崗岩床身

Optional Accessories

- Built-in spindle BBT-30-24,000 rpm
- HSK-E40-32,000 rpm / HSK-E32-40,000 rpm (Above 3 types of spindle are optional for all models)
- Built-in spindle HSK-A63-20,000 rpm (Optional for models over S8 series)
- Optional ball screws on 3 axes for models over S8 series
- Tool measurement (Contact)
- Tool measurement (Laser)
- Workpiece measurement (Probe)
- 4th axis rotary table - Vertical / Horizontal

- Arm ATC system - 24T
- Chain type ATC 48T
- Control system Siemens 828D / 840D
- HSK-E32 / 20 tools / Arm ATC system
- Linear scale - Heidenhain
- Artificial granite machine body