

高精密CNC成型平面磨床(滑塊研磨機)

High Precision CNC Profile Surface Grinding Machine (Carriage Grinding Machine)

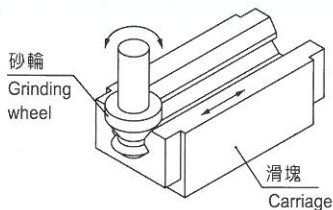
JL-3080CNC

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機械特點 FEATURES

- 動柱結構之倒T型式。
- X左右軸軌道單獨運動，可避免因其他軌道重疊而互相牽引，能確保加工運動時之精度，最符合研磨滑塊時之所需特性。
- 厚實的一體式底座設計，可加大機台的本體剛性，不因地基及機械水平變化而影響精度以及避免搬運時的變形。
- 熱對稱的結構設計，能平衡溫昇的熱變形量。
- 主結構以FC30高級鑄鐵材質鑄造，經過回火處理(退火)、自然季化，徹底消除鑄件內部應力，確保機械加工精度。
- 主軸、鑽石滾輪軸、光學尺配備有氣密式密封系統，水氣、切屑不會進入軸承、玻璃尺，確保使用壽命更長。
- 全密閉式的防水護罩。
- Sliding column structure with reverse T type
- Both rails on the X axis run independently to avoid the influence of the overlap of other rails. It can ensure the running accuracy during process and it also most conforms to the property required when grinding carriages.
- Solid one body design of machine bed can increase the rigidity of machine. Accuracy won't be influenced by ground and the level changes of machine and deformation can be avoided during moving.
- Thermally symmetrical design of machine structure can balance the thermal deformation of temperature raise.
- Main structure is die-cast by premium FC30 material. With tempering treatment (annealing) and natural stress relief to eliminate the internal stress of diecast completely, it can make sure the accuracy of mechanical process.
- Spindle, shaft of diamond roller and linear scale are equipped with sealing system. Vapor and chips won't enter into bearing and linear scale to ensure a longer survive life.
- Fully enclosed splash guard.

加工方式 Machining of Carriage



機械規格 SPECIFICATIONS

項目 Items		單位 Unit	JL-3080CNC
加工範圍 Processing Range	工作台面積 Worktable area	mm	300 x 800
	最大研磨面積 Maximum grinding area	mm	320 x 820
	磁盤面積 Magnetic table area	mm	300 x 600
	主軸頭下面至工作台面距離 Distance of bottom of spindle head to worktable surface	mm	Min.115 ~ Max.455
主軸 Spindle	1.立式 Vertical		
	2.安裝外徑 $\phi 100 \sim \phi 150$ 的主軸 Assembly OD $\phi 100 \sim \phi 150$		
X左右進給 Longitudinal Movement	行程 Stroke	mm	820
	滾珠螺桿(直徑) Ball Screw (Diameter)	mm	$\phi 32$
	伺服馬達 Servo Motor	KW	2.85
	減速比 Reduction Ratio	直接傳動 Direct drive	
	工作台移動速度 Table Speed	m/min	20
	最小設定單位 The Least Input Increment	mm	0.001
	軌道 Guideway	雙V貼耐磨片+鏟花 (V & V + Turcite)	
Y前後進給 Cross Movement	行程 Stroke	mm	320
	滾珠螺桿(直徑) Ball Screw (Diameter)	mm	$\phi 40$
	伺服馬達 Servo Motor	KW	1.57
	減速比 Reduction Ratio	皮帶輪減速 Pulley reduction	
	移動速度 Powered Crossfeed	m/min	5
	最小設定單位 The Least Input Increment	mm	0.001
	軌道 Guideway	線性滑軌 Linear guideway	
Z上下進給 Wheelhead Vertical Infeed	行程 Stroke	mm	350
	滾珠螺桿(直徑) Ball Screw (Diameter)	mm	$\phi 32$
	伺服馬達 Servo Motor	KW	1.57
	減速比 Reduction Ratio	蝸輪箱減速 Worm gear reduction	
	移動速度 Rapid power head elevation	m/min	0.5
	最小設定單位 The Least Input Increment	mm	0.001
	軌道 Guideway	線性滑軌 Linear guideway	
砂輪修整器 Grinding Wheel dresser	鑽石滾輪(外徑x厚度x內徑) Diamond roller (OD x Thickness x ID)	mm	$\phi 100 \times \text{Max.}70 \times (\phi 30)$ 內孔與安裝方式依客戶 Inside hole and assembly depends on customer's request
	最高轉速 Sepeed	rpm	6000
	伺服馬達 Servo Motor	KW	1
	減速比 Reduction Ratio	皮帶輪減速 Pulley reduction	
臥式副軸 Horizontal Secondary Spindle	感應馬達 Induction motor	HP*P	1.5 x 2
	砂輪(外徑x厚度x內徑) Wheel dimension	mm	$\phi 205 \times 13 \times \phi 31.75$
重量 Weight	機器重量 Machine net weight	Kgs	5,000
空間 Space	機器作業空間 Machine Floor Space	mm	2900 x 2200 x 2630



準力機械股份有限公司
JOEN LIH MACHINERY CO., LTD.

427 台中市潭子區大豐路一段240之1號
 No.240-1, Sec. 1, Dafeng Rd., Tantzú Dist., Taichung City 427, Taiwan
 TEL:886-4-25349475 . 25352788 FAX:886-4-25339001
 http://www.joenlih.com.tw Email:joenlih@ms14.hinet.net