

規格表 Specifications

規格/機型	Item/Model	單位/Unit	SMH-200	SMH-280
三軸行程	3 Axis Travel			
X軸行程	X-axis Travel	mm	300	300
Y軸行程	Y-axis Travel	mm	200	200
Z軸行程	Z-axis Travel	mm	200	280
主軸鼻端至工作台面	Distance Between Spindle Nose and Table Surface	mm	170-370	150-450
主軸	Spindle		主軸冷卻Spindle cooling	主軸冷卻Spindle cooling
主軸轉速	Spindle Speed	rpm	12,000	12,000
主軸形式	Spindle Type		直結Direct Drive	直結Direct Drive
主軸座孔斜度	Spindle Nose Taper	BT/HSK	BT-30	HSK-A63
主軸馬達(功率)	Spindle Motor (Continual/30min)	KW	3.7/5.5	5.5/7.5
進給	Feed Rate			
快速位移 (X/Y/Z)	Rapid Traverse (X/Y/Z)	m/min	24/24/24	24/24/24
切削進給速度	Cutting Feed Rate	m/min	10,000 mm/min	10,000 mm/min
刀庫	Tool Magazine			
換刀型式	Tool Change Type		伺服式選刀 (刀臂)Servo tool selection (Arm)	
刀具數量	Tool Capacity	set	12 (選配20)12 (Optional 20)	
刀具重量	Tool Weight	kgs	3	5
最大刀長	Max. Tool Length	mm	200	250
最大刀直徑	Max. Tool Diameter	mm	60/120	77/150
刀具交換時間 (T-T)	Tool Change Time (T-T)	sec	1.5	2
刀具交換時間 (C-C)	Tool Change Time (C-C)	sec	2.5	3
其他	Other			
重量	Weight	kg	4,500kg	5,000kg
重複精度	Repeatability	mm	0.008mm (X/Y/Z)	0.008mm (X/Y/Z)
定位精度	Positioning Accuracy	mm	0.012mm (X/Y/Z)	0.012mm (X/Y/Z)

選購配備表 Optional Equipment

項目	Project	標配 Standard configuration	選配 Optional
全罩式護罩	Fully enclosed splash guard	●	●
切削液主軸噴頭	Coolant jets around spindle		●
主軸中心出水(CTS)	Coolant through spindle (CTS)	●	●
直結式主軸	Direct drive spindle		●
電主軸(30Krpm)	Built-in type spindle (30 K rpm)		●
CNC控制器 / 三菱M80 CNC controller (Mitsubishi M80)		●	●
PCBase控制器 (新代科技)PC-based controller (Syntec)		●	
油脂潤滑 (替換式黃油)	Grease lubrication (Replaceable grease)		●
前門自動門	Automatic front door		●
排屑機	Chip conveyor		●
第4軸	4th axis		●
油(氣)壓治具	Hydraulic/pneumatic jig		●
自動化介面	Automation interface		●
變壓器	Transformer		●

雷射/循環檢驗 Laser/ Ball bar Test



CNC 控制器式樣 Various CNC controllers

三菱 MITSUBISHI

M80/C80 系列控制器
M80/C80 Series CNC controller
選配 (Optional)

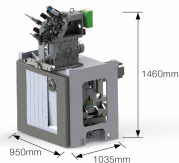


新代SYNTEC

次世代控制器
Next generation
CNC controller



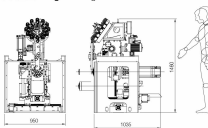
單機基本結構 Basic structure of single machine



機械尺寸 Machine Dimensions

SMH2A 單機 Single Spindle Machine

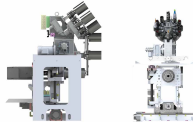
單機重量 Weight: 600kg



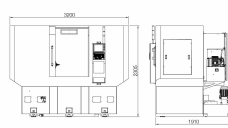
高剛性鑽件結構 / 三軸全動柱

Rigid construction / 3-Axis Traveling column

ATC 自動換刀裝置 伺服選刀 ATC (12+1T)
ATC Auto tool changer Servo tool selection ATC (12+1T)
換刀時間 T/T: 1.5 sec C/C: 2.5 sec
Tool change time T/T: 1.5 sec C/C: 2.5 sec



SMH200 雙軸機 Dual Spindle Machine



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SMHseries

模組式CNC工具機 A MODULAR CNC MACHINE TOOL

泛用型雙向臥式CNC鑽攻加工機
為各種產業能搭配組合為多軸機床
提高效率降低成本提供最佳加工方案
一台最屬於您的加工利器

This machine is a universal type two-direction CNC drilling tapping machine. To meet the specific requirements of various industries, it can be customized to become a combination of multi-spindle machines for dramatically increasing efficiency while lowering machining costs. It offers the optimum machining solution, and is a competitive edge for your machining.



小型CNC臥式專用機 SMALL CNC HORIZONTAL SPECIAL MACHINE

專利號 第M617519號

www.shengyumc.com.tw



盛鈺精機有限公司
SHENG YU PRECISION MACHINE CO., LTD.

SMH series 雙軸機 Dual Spindle Machine

主要規格 Main Specifications

臥式 Horizontal

X300 X300
Y200 Y200
Z200 Z280



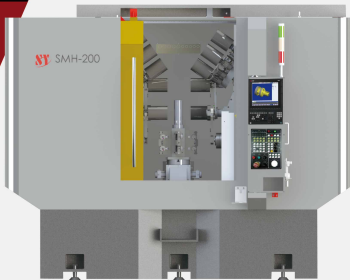
主軸迴轉速度
Spindle Speed
12,000 rpm (Max)

主軸型式
Spindle Type
BT30 / HSKA63

刀具數
Tool Capacity
12+1T ATC換刀

CNC控制器
CNC controller
SYNTEC

SMH-200



機台10大特色： 10 major features of the machine

1. 相同一般CNC銑床操作，更換治具，即可更換工件生產。
 2. 三軸全動柱，模組化設計，應用靈活。
 3. 多軸可獨立加工，彈性組合。
 4. 可供專用機廠依工件需求量身訂作。
 5. 主軸換刀功能可取代傳統專機主軸頭。
 6. 可以多台共用1組治具降低成本。
 7. 大幅縮小占地空間。
 8. 多主軸一次加工，可減少工件製程。
 9. 可裝交換工作台減少自動化成本，降低銑床自動化難度。
 10. 搭配上下料機械手臂可達單機自動化功能。
1. As general CNC machine, the type of workpiece can be changed as long as the fixture being exchanged.
2. 3-Axis Traveling column in modular design.
3. More flexible with multiple spindles work independently.
4. Provide customized design to various type of workpiece.
5. The spindle tool change function can replace the traditional special machine spindle.
6. Multiple machines can share one set of jig to reduce costs.
7. Significantly reduces floor space.
8. Multiple spindles can be processed at one time, can reduce processing steps.
9. Combined with a Pallet Changer, reduce automation costs, reduce the difficulty of milling machine automation.
10. Combined with a Robot, it can achieve stand-alone automation function.

應用範例 - 單體組合變化樣式

Application examples:
Variation of single unit combination

單主軸+四面交換工作台
Single spindle + 4 sides Pallet changer



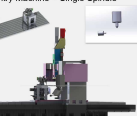
雙主軸+圓盤式單軸送料機
Dual Spindle facing
+ Disc type single axis feeder



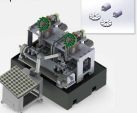
雙向6米加工機
Bilateral 6M Machine



龍門機+單體
Gantry Machine + Single Spindle



雙主軸+UR6軸機械手+斜浮盤
Dual Spindle + UR Robot
+ Oblique Plate



水車式3主軸+門式單軸機械手
Trunnion type Triple Spindle
+ Single axis Gantry Robot



雙向滑塊加工機+自動送料
Bilateral Slider Machine
+ Auto feeding



本體移動長度6米
加工鋁擠型
Moving length 6M
Aluminum extrusion
processing



並排式3主軸+1軸多面加工
Parallel type Triple Spindle
/ 4.5 Axis Multi-face processing



真盤式3主軸加工機
+吊掛式料台+單軸機械手
Disc type Triple Spindle
+ Hanging Feed Table
+ Single axis Robot



L型加工機
L Type Machine

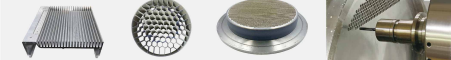


大型立車+單體
Large vertical lathe + Single Spindle



工件應用範例 Workpiece Examples of Application

半導體零件 Semiconductor part



手工工具零件 Hand tool part



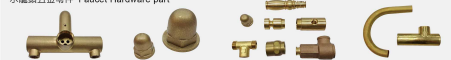
滑軌 / 滑塊 Slide rail / Slide



自行車零件 Bicycle part



水龍頭五金零件 Faucet Hardware part



汽機車零件 Car/Locomotive part



油壓 / 電磁閥零件 Hydraulic / Solenoid Valve part



其他一般五金 Other hardware part

