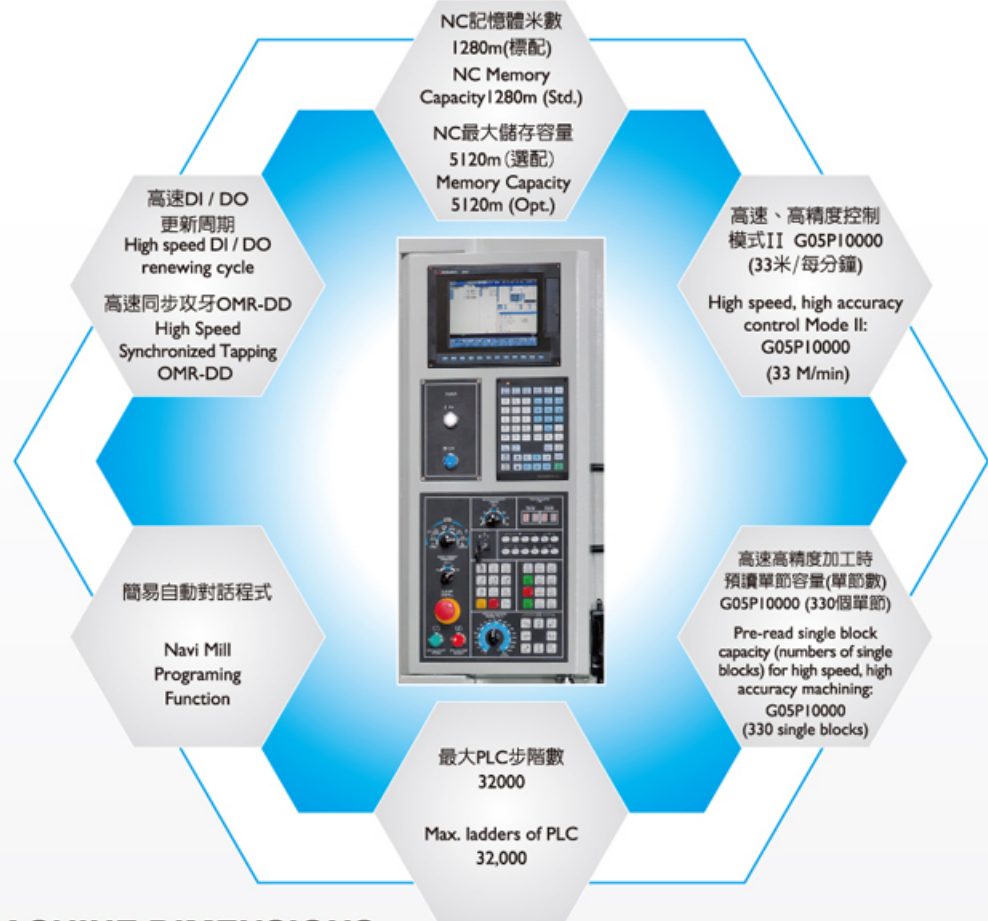
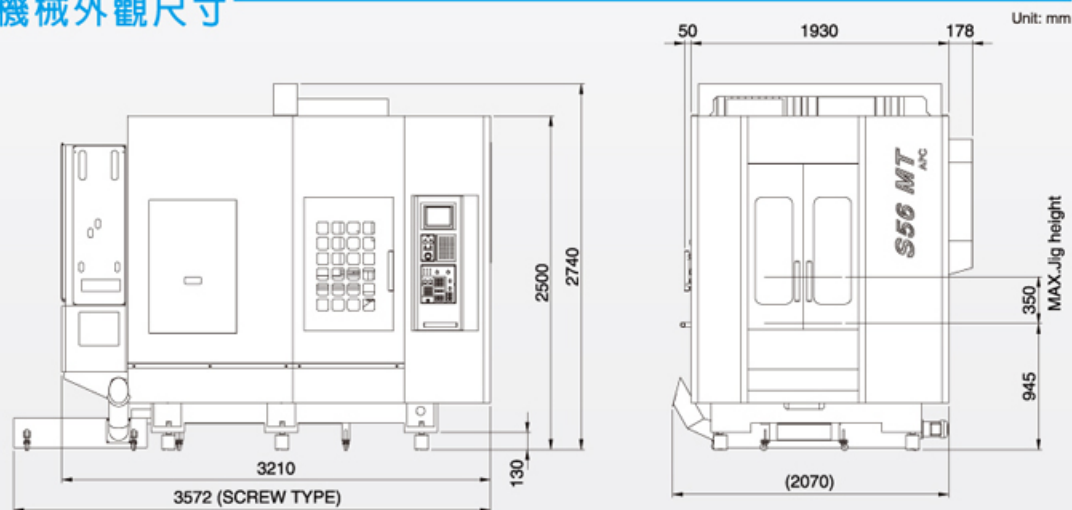


標配三菱控制器系統M70-AV, 提高了速度、精度的生產效率與加工過程的安全性與方便性的網路介面。(前置式CF卡插槽+USB插槽)

The machine is equipped with a Mitsubishi M70-AV control (standard) for higher speed and accuracy. An internet interface (front mounted CF card slot & USB port device) is provided for increased safety and convenience during machining.



## MACHINE DIMENSIONS 機械外觀尺寸



## SPECIFICATIONS

## 規格表

MODEL	型號	S56-MT
Controller	控制器	M70A-V
<b>TRAVEL</b> 行程		
X axis travel	X 軸行程	560 mm
Y axis travel	Y 軸行程	400 mm
Z axis travel	Z 軸行程	400 mm
Spindle nose to table end	主軸鼻端至工作台面	200 - 600 mm
<b>TABLE</b> 工作台		
Table work area size	工作台加工區域	600 x 425 mm (one side)
T slot	T型槽	M12
Max. loading	工作台最大載重	200
<b>PALLET</b> 交換工作台		
Type	型式	0° / 180° turntable system
Table dimension	工作台尺寸	600 x 525 mm (two surface)
Max. jig height	最大治具高度	330 mm
Max. turning diameter	最大旋徑	Ø1200 mm
Max. loading capacity	最大載重	200 kg
Table turning system	工作台旋轉機構	AC motor of roller gear cam drive AC 馬達及滾子齒凸輪機構
Table position time	定位時間	3.2 sec / 180°
<b>SPINDLE</b> 主軸		
Spindle taper	主軸錐度	7 / 24 taper No. 30
Spindle speed	主軸轉速	10,000 rpm (12,000 / 15,000 rpm)
Spindle motor	主軸馬力	5.5 / 7.5 kw
<b>FEEDRATE</b> 進給速度		
Rapid feedrate	快速位移速度	36 / 36 / 36 m/min
Cutting feedrate	切削速度	1 - 12000 mm/min
3 axis servo motor	三軸伺服馬達	2.0 / 2.0 / 2.0B kw
<b>ATC</b> 自動換刀系統		
No. of tools	刀具容量 (選配)	24 (40)
Tool selection	選刀方式	Bi-Directional Rotation / 雙向隨機
Tool shank	刀把規格	Mas BT-30
Pull stud	拉刀螺絲規格	P30T (45°)
Max. tool dia.	最大刀具直徑 (無相鄰刀)	60 mm
Max. tool length	最大刀具長度	200 mm
Max. tool weight	最大刀具重量	4 kg
<b>OTHERS</b> 其它		
Air source	空壓源	6 kg/cm <sup>2</sup>
Machine height	機器高度	2700 mm
Floor space	佔地面積	2070 x 3572 mm
Machine weight	機器重量	5500 kg

We reserve the right to modify the design and specifications without notice in advance.  
本公司保有設計變更之權利，如有變動恕不另行通知。

### STANDARD EQUIPMENT

- 10,000 rpm direct-drive spindle
- Rigid tapping
- Spindle air blast device
- Fully enclosed splash guard
- Heat exchanger for electrical cabinet
- Automatic lubrication system
- Spindle cooling system
- Cooling system and coolant tank
- LED work lamp
- Foundation bolts and blocks
- Tool box with tools
- Operation and maintenance manual
- Coolant flushing device
- Flush gun

### OPTIONAL EQUIPMENT

- 12,000 / 15,000 rpm direct-drive spindle
- Y axis rear side chip conveyor
- Y axis rear side screw type
- Spindle cooling system
- 4 th axis rotary table
- Transformer
- Air conditioner for electrical cabinet
- Coant through spindle
- Tool length measurement

### 標準配備

- 10,000 rpm 直結式主軸
- 剛性攻牙
- 主軸吹氣裝置
- 全密封式護罩
- 電氣箱熱交換器
- 自動潤滑系統
- 主軸油冷機
- 冷卻系統與水箱
- LED工作燈
- 地基螺絲與墊塊
- 工具箱與工具
- 操作與維護保養手冊
- 側邊沖屑
- 水槍

### 選購配件

- 12,000 / 15,000 rpm 直結式主軸
- Y軸後切屑輸送機
- Y軸後切屑螺旋排屑機
- 主軸油冷機
- 第四軸旋轉工作台
- 變壓器
- 電氣箱冷氣機
- 主軸中心出水
- 刀長量測



## S56-MT APC

### 動柱式立式加工中心機

# SHINZAWA

震澤精密機械股份有限公司  
SHINZAWA PRECISION MACHINERY CO., LTD.

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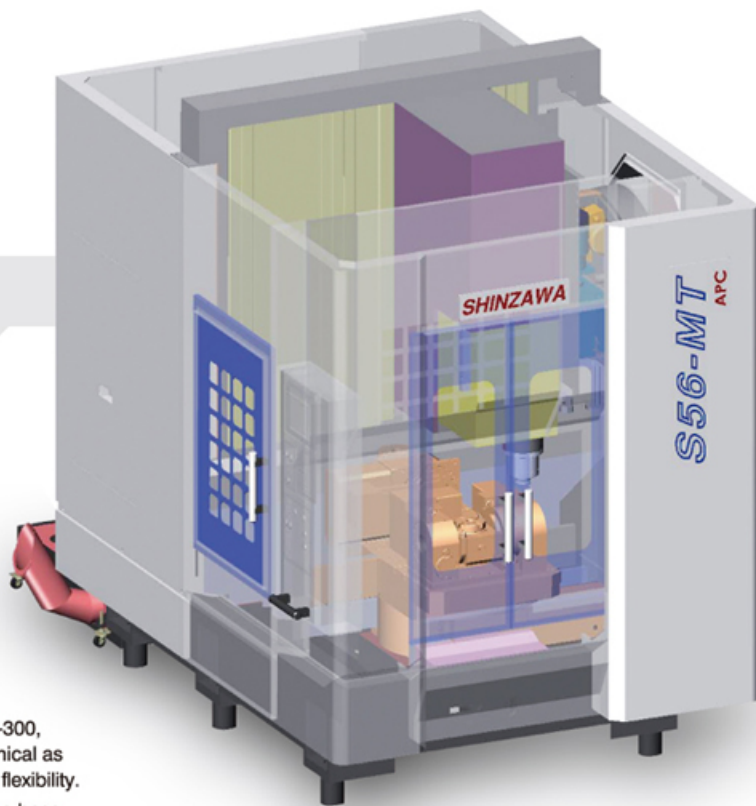
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震澤精密機械股份有限公司  
SHINZAWA PRECISION MACHINERY CO., LTD.

# SHINZAWA

Sturdy Structural Design Stable  
High Speed Motion Control Optimum  
Machining Efficiency

## TRAVELING COLUMN STRUCTURAL DESIGN



SHINZAWA **S56-MT** offers big capacity, together with superior speed, all in a compact construction. It combines the smoothness of a drilling tapping center and the capacity of a VMC in one machine. It has a spacious table to handle big cutting jobs in combination with extra high speed design, making it unmatched in performance and efficiency.

震澤S56-MT具有超大加工能力，高速及結構緊湊等非凡特色。本機除了擁有鑽孔攻牙中心機的靈活性，更兼具立式加工中心機之加工能力。寬闊的工作台面，配合高速設計，締造難以抗衡的加工性能及效率。

### FEATURES OF OUTSTANDING STRUCTURE:

- The machine is made of high quality cast iron of FC-300, with the Finite Element Analysis to inject the mechanical as well as aesthetic factors for the maximum rigidity and flexibility.
- Referring the structure concept of horizontal machine base, the lift-up design allows high speed and smooth motion control for the moving parts on the machine base and table.
- 3 axes employ high rigidity roller linear guideways for outstanding machining rigidity.

### SEPARATELY MOUNTED MAGAZINE

The tool magazine is separately mounted in combination with a door for complete isolation from the machining area. This not only prevents contamination from chips or coolant, but also makes maintenance easier. Chip Flushing on Magazine Side Chips on the magazine are removed efficiently.

### CLEAN MACHINING AREA

With the stainless steel curtain, the cutting area is well separated from the standby area, allowing the coolant shower flushes the cutting chips completely.

### 刀庫獨立安裝

刀庫獨立安裝配合護門設計，使刀庫完全隔離於加工區域之外。不僅可避免切屑或切削液之污染，並且維修更方便。

### 完整性防屑加工區

加工區域周邊使用不鏽鋼片拉簾與工作台中隔板設計，讓加工區域獨立具有高效沖屑能力與防止鐵屑亂飛現象。

## S56-MT

### LARGE TABLE SURFACE

The work table accommodates not only large work piece but also numbers of small ones, complicated machining jobs can be finished just in one set up.

### WIRE PREPARATION 4th AXIS WIRING DESIGN

The hydraulic / pneumatic pipes and power cables for 4th axis equipment is pre-wired in the center hole of worktable.

精實結構設計  
平穩的**高速移動**  
創造加工效率

### 動柱式結構設計

優異結構特性：

- 整機FC-300以上材質鑄造，注入力流與美學設計事先FEA分析，具高剛性與靈敏性的運動體。
- 底座參考臥式結構抬高設計，讓移動件輕量化，結合高剛性數位設計，高速位移不晃動。
- 三軸全部使用高剛性滾柱線軌，更能展現機台加工剛性。

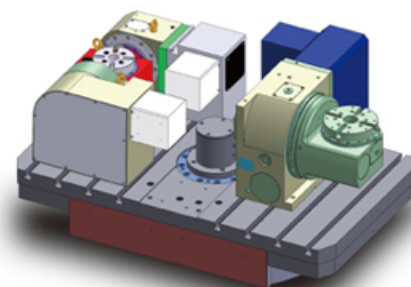
### 超大工作台面

本機配備超大面積之工作台，除了適合大工件之加工。而且也可同時安裝多工件，一次加工完成，效率大幅提升。

### 標準化第四軸管線設計

工作台中間預留第四軸空油壓與電源線孔位，具有使用方便性。

### HIGH EFFICIENT PALLET CHANGE SYSTEM 高效率工作台交換機構

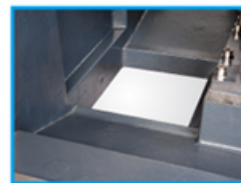


### HIGH SPEED ROTARY TYPE APC

- Employs high precision 3-piece coupling for direct pallet change without raising up the pallet, featuring short pallet exchange time with high reliability.
- Capable of working with A/C Axis or clamping fixtures for further machining flexibility and efficiency.

### 快速迴轉式工作台

- 高精度三片式離合器定位設計，工作台直接迴轉不必上升，以節省工作台交換時間與穩定性。
- 可任意搭配A/C軸或夾治具使工作更具彈性與效率。



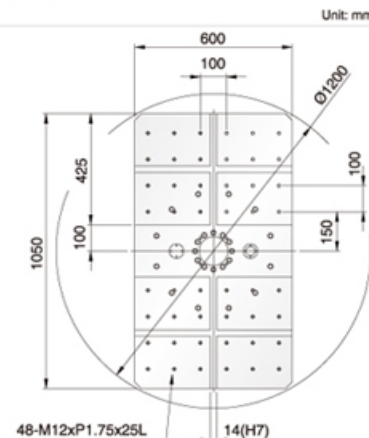
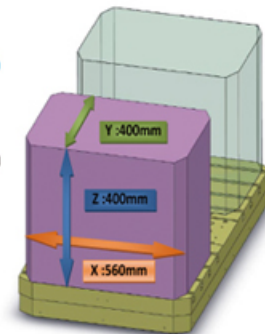
### COMPREHENSIVE CHIP DISPOSING SYSTEM

Specially designed with a comprehensive chip disposal system under the machine base, which features high efficient chip evacuation.

### 完善的排屑系統

擁有特殊設計的完善排屑系統。底座下方中央排屑系統，讓排屑更為容易。

### WORKING SPECIFICATIONS 工作台尺寸



### 40 TOOLS CHAIN TYPE MAGAZINE (OPT.)

In addition to the use of a 24 tools magazine, this machine is also available to equip with an optional 40 tools chain type magazine. It provides greater flexibility of machining.  
High Speed ATC System (T to T 1.8 sec)

### 40刀鏈條式刀庫(選配)

本機除了可使用24刀之刀臂式刀庫，也可依客戶需求裝置40刀之鏈條式刀庫，使機器之加工能力更多元化。  
高速換刀系統。(刀對刀: 1.8秒)