

專業技術 · 領導先驅 TO LEAD THE TREND, PROFESSIONAL TECHNOLOGY



# CNC 臥式搪銑床

HORIZONTAL BORING & MILLING MACHINE

HB-800A



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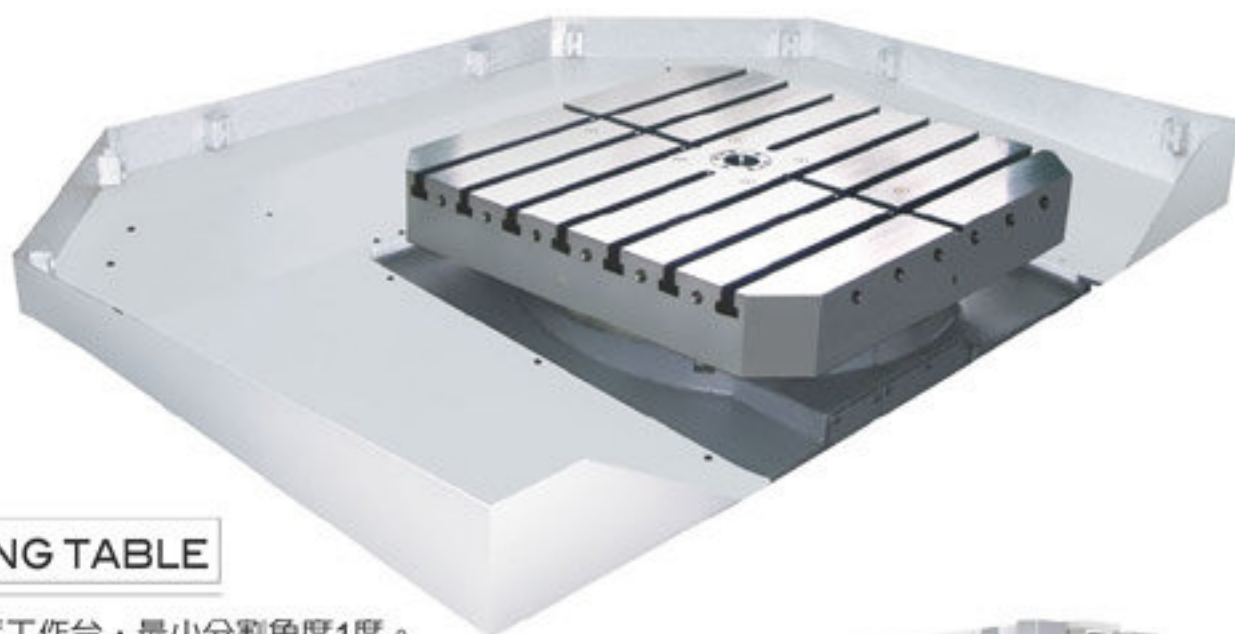


## 刀庫 AUTOMATIC TOOL CHANGE SYSTEM

標準60刀倉，絕對式鏈條型刀庫，安全、穩定易操作，提升加工彈性及效率，適合各類型工件加工作業需求，雙向最短路徑選刀、減少非切削時間的浪費。

Standard chain type with 60 tools magazine ATC, provide safety and stable tools exchange. This will enhances machining flexibility and efficiency.





## 工作台 WORKING TABLE

NC伺服驅動高精度分度工作台，最小分割角度1度。

可承載3000kg的工作件及做精確角度分割。

搪孔、銑削、鉗孔、攻牙配合分度工作作業一次完成，  
可大幅節省工件安裝、調整及搬運等待的時間。

The high precision indexing work table driven by a servo motor provides high accurate indexing. The working table can be indexed at least 1 degree, available for maximum table loading up to 3000kg. The CNC boring and milling machine provides multiple faces machining at one time, boring, milling, drilling and tapping can be done just in one set-up.



## 底座 MACHINE BASE

穩重，特寬一體成型的四滑軌底座。

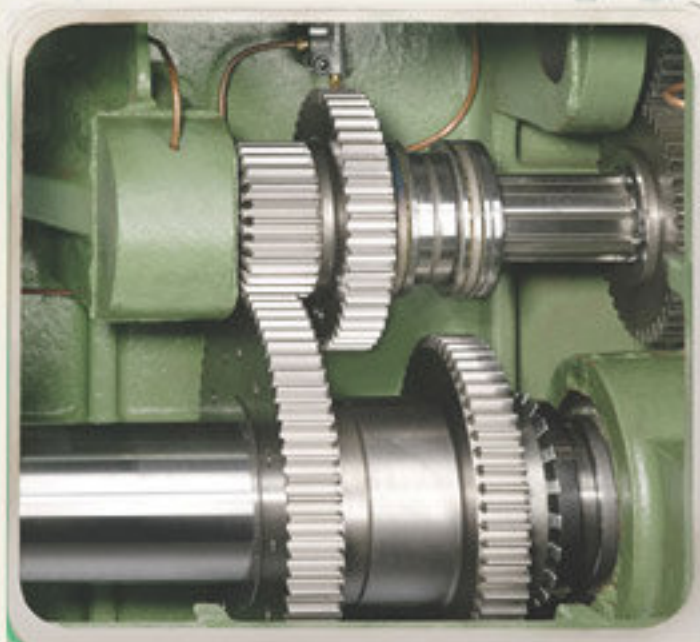
在重切削時，絕對平穩，可獲得最佳動態水平。

The extra heavy, wide one-piece base has 4 slideways. Box type column features outstanding stability in heavy duty machining and accurate dynamic level at all time.

# CNC 臥式 搪 銑 床

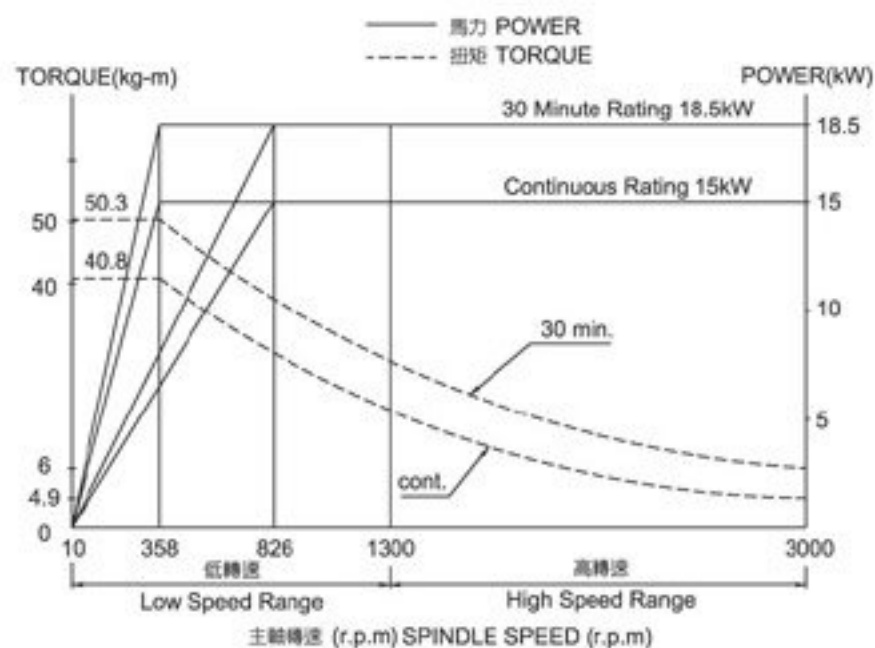
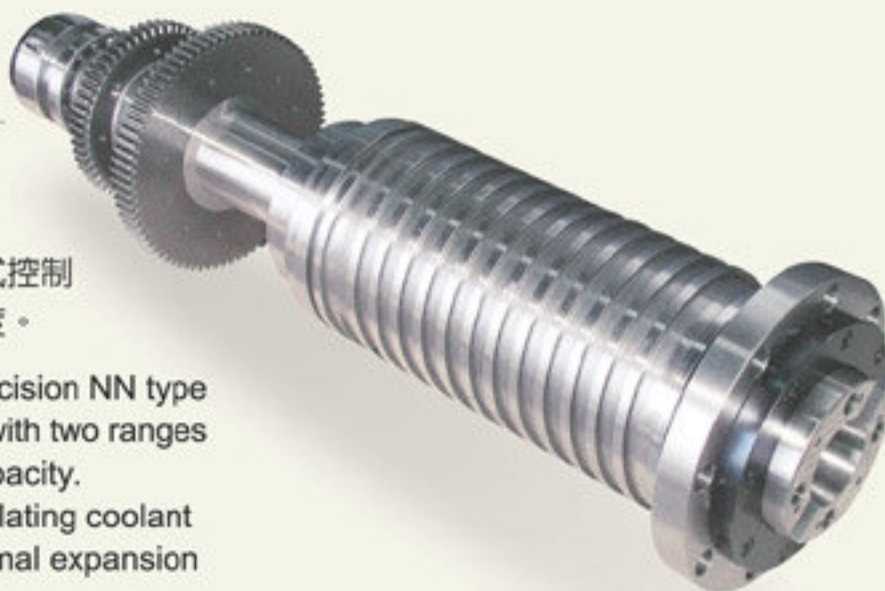
CNC HORIZONTAL BORING & MILLING MACHINE





## 主軸 MAIN SPINDLE

- 主軸採套筒式設計配用NN系列高精密軸承，剛性佳，適合重切削。
- 全齒式，強力齒輪二段變速傳動，配合油冷式控制溫度及潤滑，避免熱變位問題，確保加工精度。
- The spindle is mounted on class SP high precision NN type dual roller bearing. Full geared drive spindle with two ranges of speed change provides flexible cutting capacity.
- The housing type designed spindle has circulating coolant with oil temperature control to eliminate thermal expansion on the spindle.



## 扭力圖 TORQUE CHART

主軸馬達15kW /18.5kW，二段變速。  
最高轉速3000rpm，扭力輸出特佳。

Powerful AC spindle motor: 15kW/18.5kW  
2 steps variable speed at maximum 3000rpm.





控制器 CONTROL SYSTEM

- 懸吊式，可旋轉操控箱，配有可移式電子手輪，方便全方位操控。
- CNC控制器配用高性能及高信賴度Fanuc 18i-MB控制器。
- The suspended control box can be rotated during operation and the portable MPG handwheel easily in set-up workpiece.
- With high reliable and high performance control FANUC 18i-MB.

## 主軸油冷卻系統 SPINDLE OIL COOLER



**鐵屑排除機** CHAIN-TYPE CHIP CONVEYOR



工作台防濺板金 TABLE SPLASH GUARD

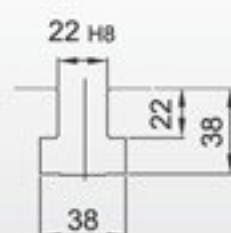
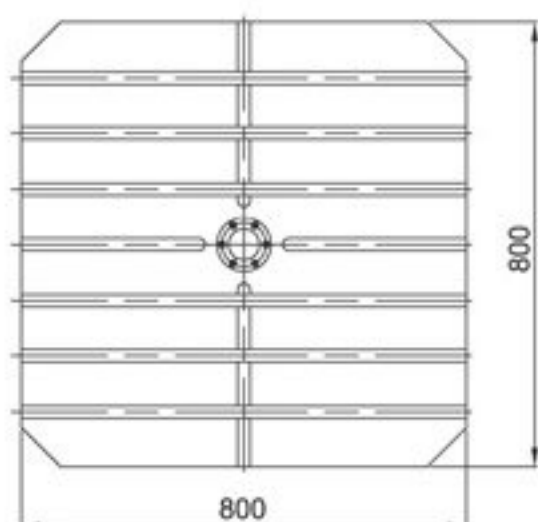
可拆卸式工作台防濺罩，可有效防止鐵屑及切削水飛濺，保持環境整潔(選擇配件)。

A removable splash guard helps to prevent chips and coolant splashing to keep the working area clean.(Optional)

## CNC 臥式 搪 銑 床

工作  
台

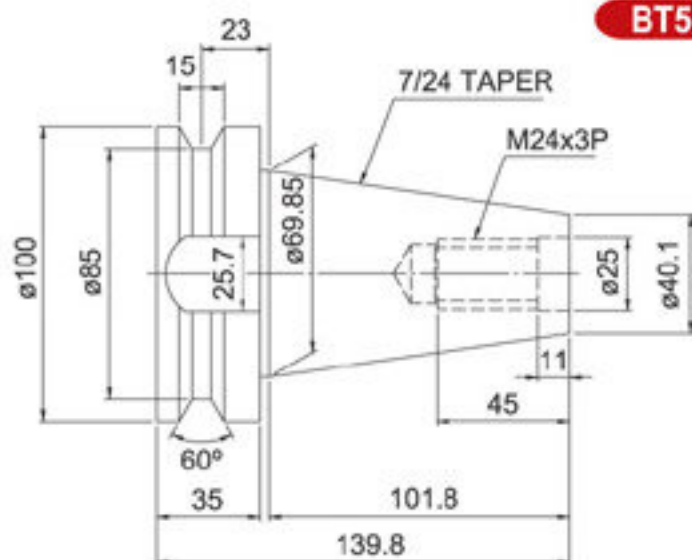
## TABLE



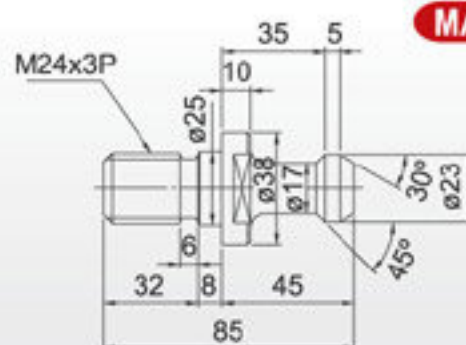
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## TOOL SHANK & PULL STUD BOLT

BT50

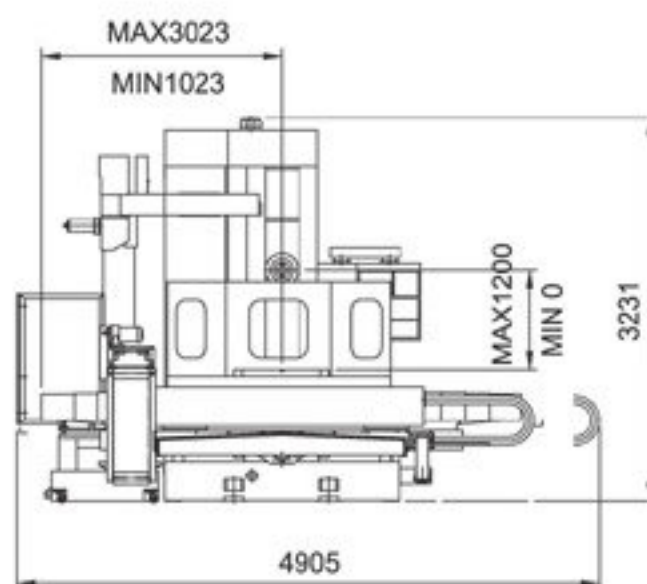
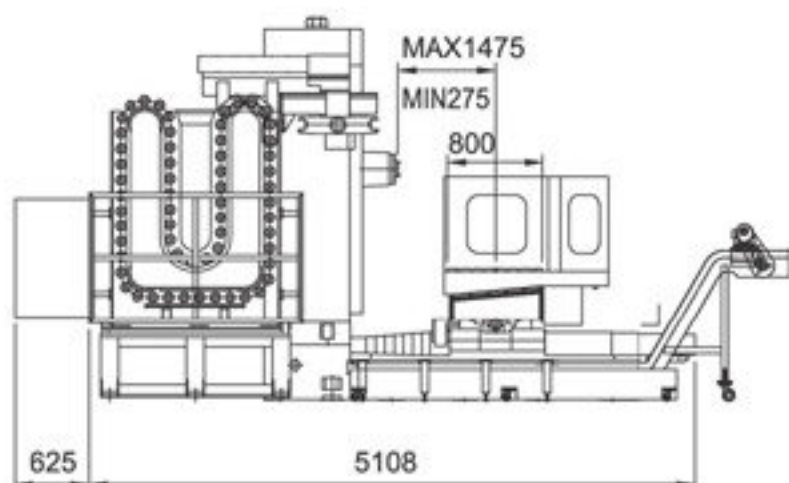
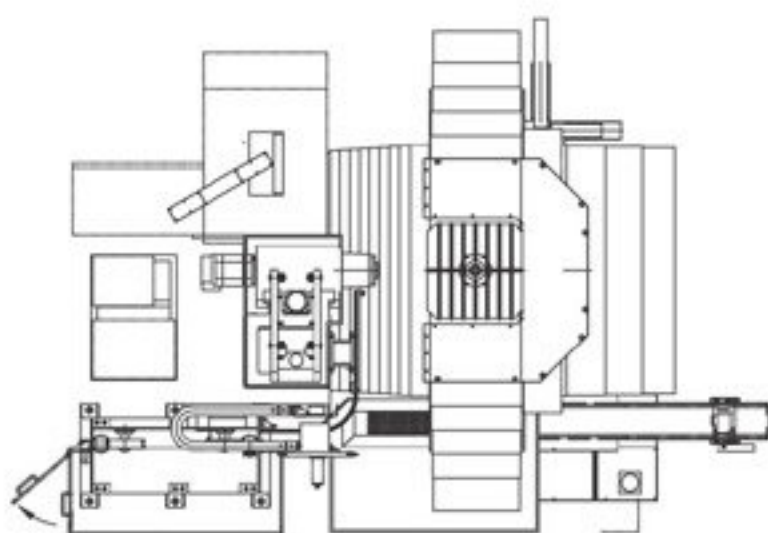


MAS-P50T-1



外  
觀  
尺  
寸

## EXTERNAL DIMENSIONS





## 規格表 SPECIFICATIONS

## HB-800A

## 型號 MODEL

## 1 工作台 TABLE

|       |                              |                |     |
|-------|------------------------------|----------------|-----|
| 工作台尺寸 | Table size                   | 800 x 800      | mm  |
| T 型槽  | T slot (width x no. x pitch) | 22H8 x 7 x 100 | mm  |
| 最大負荷  | Max. load capacity           | 3000           | kg  |
| 分割角度  | Min. indexing unit           | 1° (360分割)     | deg |
| 鎖緊力   | Clamping force               | 5000           | kg  |

## 2 行程 TRAVEL

|              |                              |            |    |
|--------------|------------------------------|------------|----|
| X軸行程         | X-axis travel                | 2000       | mm |
| Y軸行程         | Y-axis travel                | 1200       | mm |
| Z軸行程         | Z-axis travel                | 1200       | mm |
| 主軸鼻端至工作台中心距離 | Spindle nose to table center | 275 ~ 1475 | mm |
| 主軸中心至工作台面距離  | Spindle center to table top  | 0 ~ 1200   | mm |

## 3 主軸 SPINDLE

|           |                           |           |     |
|-----------|---------------------------|-----------|-----|
| 錐孔        | Spindle nose              | BT50      |     |
| 轉速/自動二段轉換 | Speed / 2 range by S code | 30 ~ 3000 | rpm |

## 4 進給 FEED

|              |                           |              |        |
|--------------|---------------------------|--------------|--------|
| X,Y,Z軸快速移位速率 | Rapid X, Y, Z-axis        | 15 / 12 / 15 | m/min  |
| 工作台快速迴轉      | Rapid Table Rotation      | 4            | rpm    |
| 三軸切削進給速率     | Feed rate of X, Y, Z-axis | 1 ~ 6000     | mm/min |

## 5 自動換刀裝置 A.T.C.

|            |                            |                     |     |
|------------|----------------------------|---------------------|-----|
| 刀庫容量       | Magazine capacity          | 60                  | pcs |
| 刀具規格       | Pull stud                  | MAS-P50T-1          | -   |
| 最大刀具長度     | Max. tool length           | 400                 | mm  |
| 最大刀具重量     | Max. tool weight           | 25                  | kg  |
| 最大刀具徑      | Max. tool diameter         | ø125 / ø250 (鄰空刀徑)  | mm  |
| 刀具選擇方式     | Tool selection             | 最短路徑選刀 Shortest way | -   |
| 換刀時間刀對刀(約) | Tool change time (approx.) | 13                  | sec |

## 6 馬達 MOTORS

|            |                              |               |    |
|------------|------------------------------|---------------|----|
| 主軸馬達       | Spindle motor                | 15 / 18.5     | kW |
| X/Y/Z/B軸馬達 | Servo motor for X/Y/Z/B      | 7 / 7 / 7 / 4 | kW |
| 自動潤滑單元     | Centralized lubrication pump | 150           | W  |
| 油壓單元       | Hydraulic pump               | 2.2           | kW |
| 主軸油冷裝置     | Spindle oil cooler pump      | 0.75          | kW |
| 切削冷卻裝置     | Coolant pump                 | 1             | kW |

## 7 機械一般規格 GENERAL INFORMATION

|         |                          |                    |                    |
|---------|--------------------------|--------------------|--------------------|
| 氣壓需求    | Pneumatic required       | 6                  | kg/cm <sup>2</sup> |
| 切削液箱容量  | Coolant tank             | 400                | L                  |
| 機械尺寸    | Machine dimension        | 4900 x 5100 x 3250 | mm                 |
| 機械重量(約) | Machine weight (approx.) | 18000              | kg                 |
| CNC控制器  | CNC control              | Fanuc 18i-MB       |                    |

## 標準附件 STANDARD ACCESSORIES

1. 主軸油冷卻裝置  
Spindle oil cooler
2. 自動潤滑裝置  
Centralized auto lubrication system
3. 切削冷卻液裝置  
Programmable coolant system
4. M-code切削吹氣  
Programmable air blow
5. 電氣箱裝熱交換器  
Heat exchanger for cabinet
6. 石英工作燈  
Work lamp
7. 螺旋式切屑排送裝置  
Screw type chip conveyor
8. M30自動斷電裝置  
M30 Automatic power off
9. 可移動式電子手輪  
Portable MPG handwheel
10. 動作警示燈  
Alarm lamp
11. RS232界面接口  
RS-232 interface port
12. 工具箱及調整用工具  
Tool box with adjustment tools
13. 水平調整螺栓及墊塊  
Leveling blocks and bolts



立大機械  
大亨機械商有限公司

台南市東區崇信街38號

Tel: 06-2601800 · 2681075