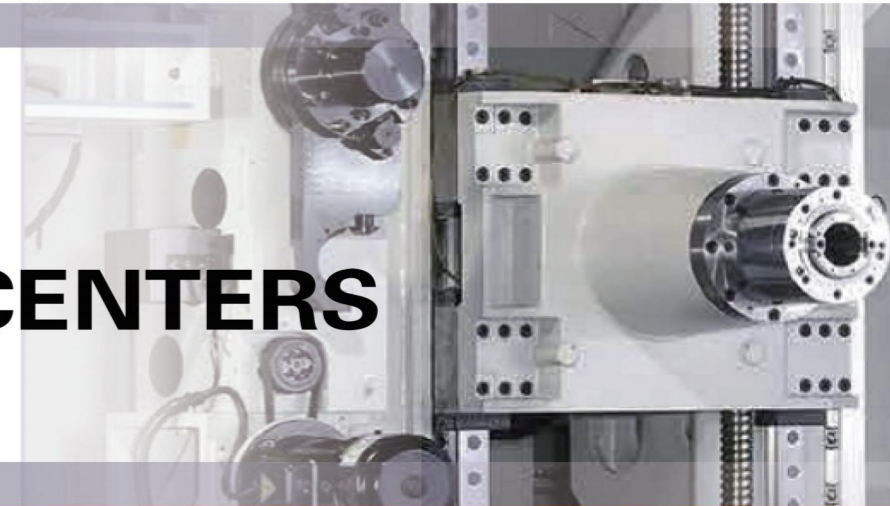




**EXPERIENCE INHERITANCE
TECHNOLOGICAL INNOVATION**

HORIZONTAL MACHINING CENTERS



MH Series

Optimum structure design.
5-axis processing
Compact jig
Processing time improved
to be more efficient

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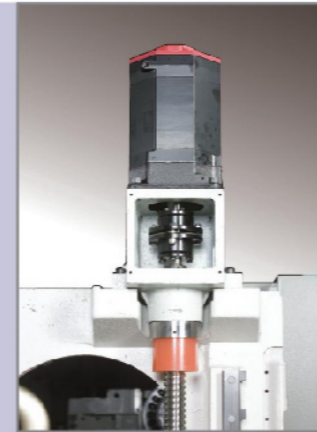
MH-500

HORIZONTAL MACHINING CENTER

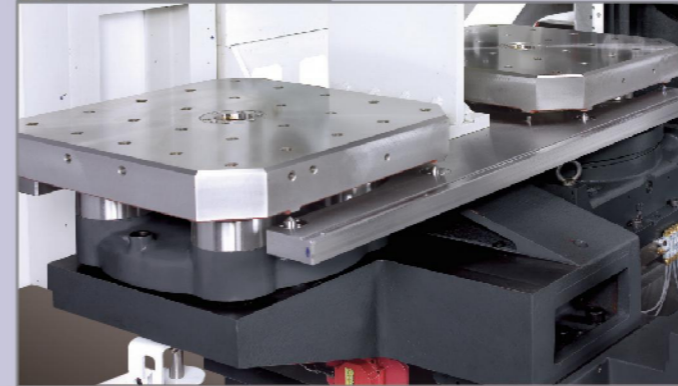
- BT40 10,000RPM
- SPINDLE POWER:11/15KW(20HP)
- ATC 40PCS(STD);60PCS(OPT)
- 0.001 ° PALLET
- 2PALLETS
- C2 GRADE BALL GUIDE SCREW
- SPINDLE OIL COOLER UNIT
- AICC
- TRIAXIAL RAPID DISPLACEMENT:32M/MIN(STD);48M/MIN(OPT)
- CHAIN TYPE CHIP CONVEYOR + CART



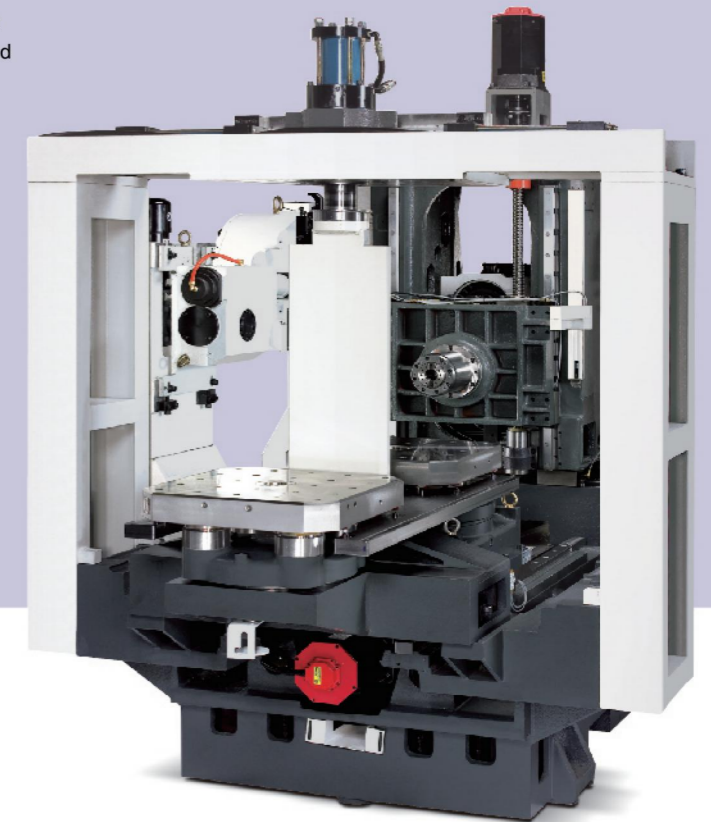
EXTREMELY RIGID MOBILE COLUMN STRUCTURE
High rigidity structure design, using high quality cast iron, to ensure the rigidity and stability of the machine



HIGH SPEED LINEAR GUIDEWAYS
Rugged massive linear guide ways on X, Y and Z axes maintain precision and ensure rapid traverse rate.



PALLET CHANGER
The APC twin pallet system is manually indexed with standby pallet during work piece loading and unloading, and is ideal for automatic machining.



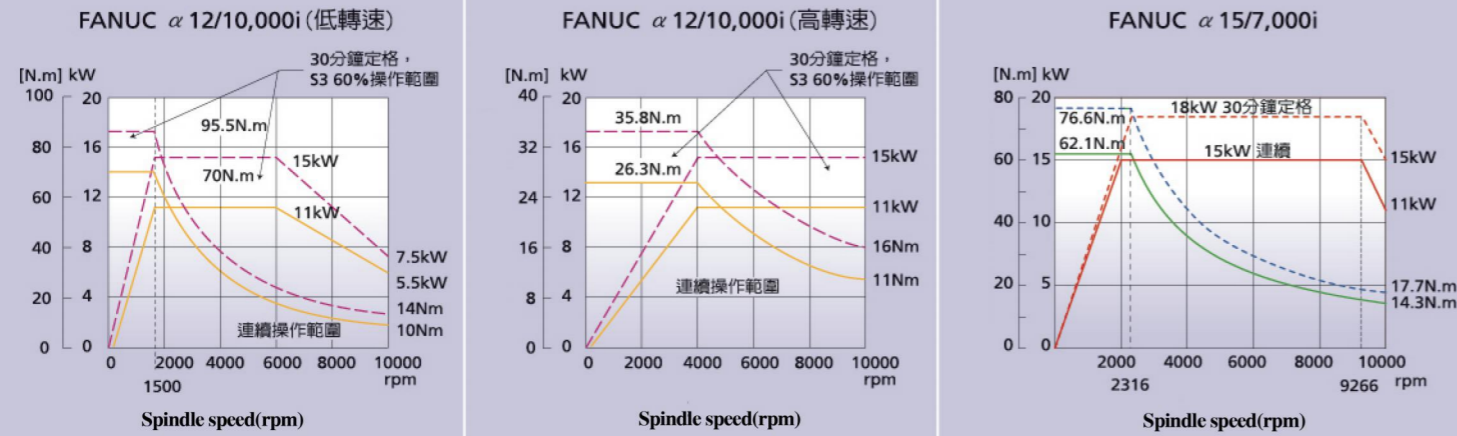
AUTO TOOL CHANGER
A servomotor controls the magazine to produce smooth, precise, and reliable positioning.
MH-500:40PCS(STD),60PCS(OPT)



HIGH PRECISION RIGID SPINDLE
The spindle bearing design provides high torque, high rigidity and precision cutting capability. In addition, with the oil cooler to ensure the stability of the long time processing, and extend the life of the spindle.

MH-500

SPINDLE POWER & TORQUE DIAGRAM



DIMENSIONAL DRAWINGS

unit: mm

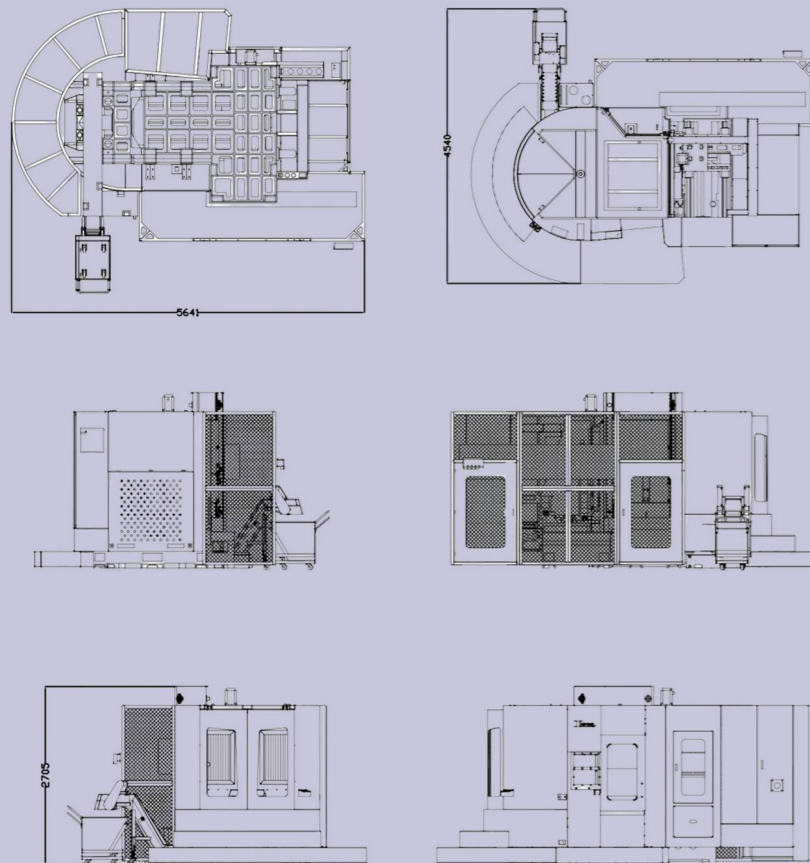
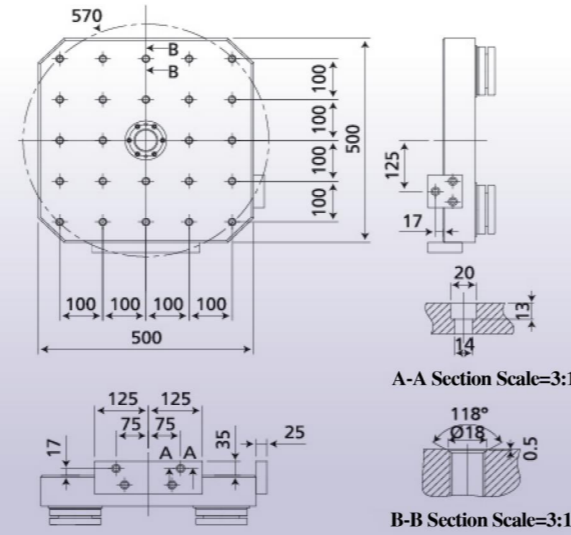


TABLE & TOOL HOLDERS

unit: mm



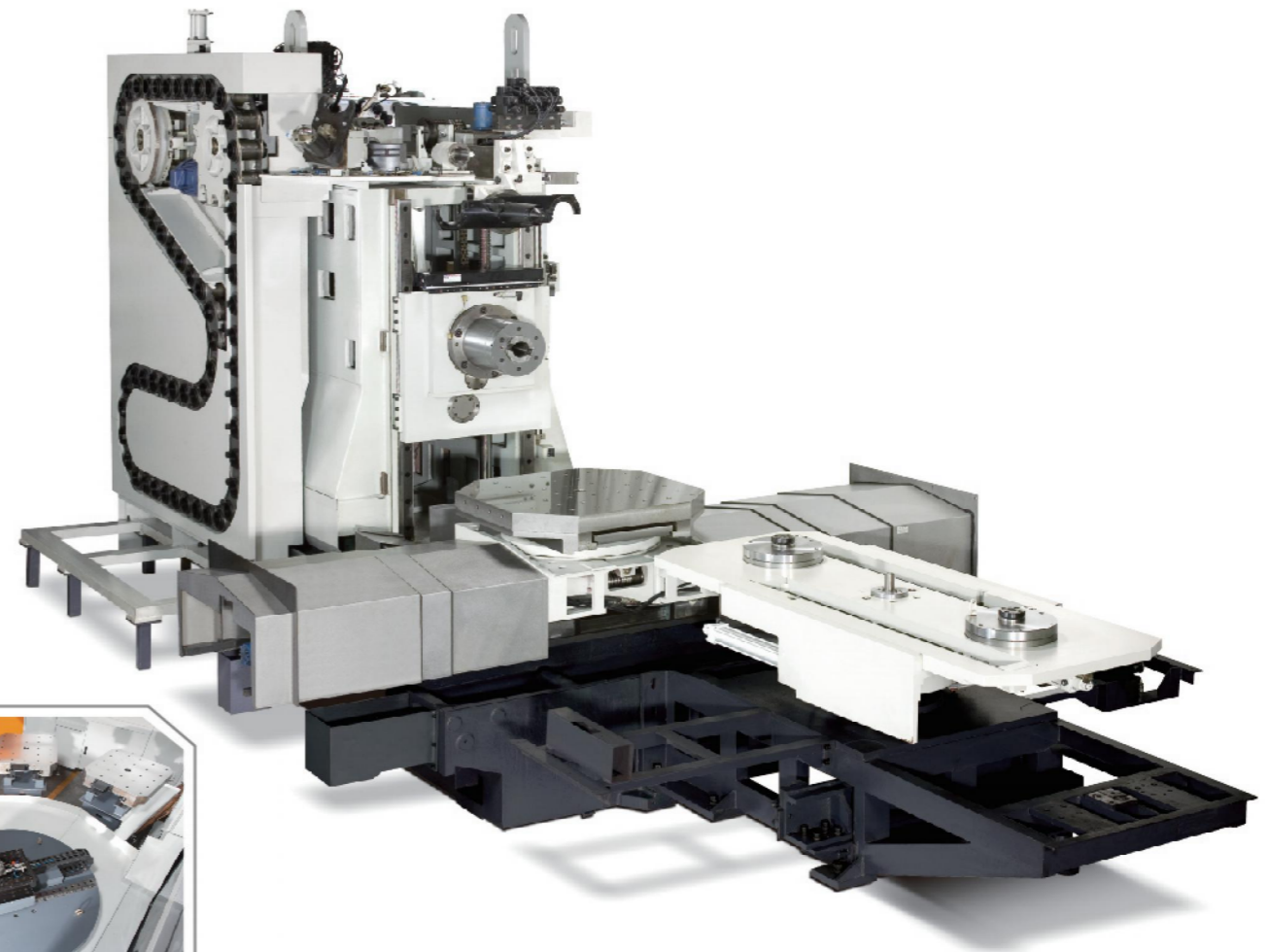
WORK ENVELOPE



MACHINE SPECIFICATIONS

unit: mm

ITEM		MH-500	MH-500APC
PALLET	Dimensions	500×500	
	T-slot	5-18×80	24-M16xP100
	Max. loading capacity	800Kg	600Kg
	B minimum indexing	1°	0.001°
	Pallet capacity	1	2
TRAVEL RANGE	Max. travel range of X/Y/Z-axis	800/600/785	800 / 700 / 650
	Distance from spindle center to table surface	50~650	40~740
	Distance from spindle nose to table center	120~905	145~795
SPINDLE	Spindle taper	BT40	BT40/150
	Spindle speed	8000rpm	10000rpm
FEEDRATE	Cutting feedrate	10000mm/min	
	Rapid traverse speed of X/Y/Z-axis	36m/min	24m/min
	Minimum setting unit of X/Y/Z-axis	0.001	
TOOL	Tool capacity	24	40
	Tool selection	Random	
	Max. tool dia. x length	Ø 80×250	Φ 80×300
	Max. tool weight	8kg	7Kg
	Tool shank type	BT /40	
	DRIVE MOTOR	Spindle motor	15 / 18.5KW
Servo motor of X/Y/Z/B-axis		Bis22/ Bis30B / Bis22Bis12/3000	3/ 3 / 3 / 1.8 KW
Spindle recirculating lubrication motor		370W	
Centralized lubrication motor		12W	
Hydraulic motor		2.2KW	2.25 KW
Coolant motor (for tools/chips)		750W	0.75KW
Chip conveyor motor		400w	200w
ATC motor		0.56 KW	0.373 KW
ACCURACY	Positioning	±0.005	±0.003/300
	Repeatability	±0.005	±0.003/300
MISCELLANEOUS	Outline dimension (L x W x H)	4700×2980×2540	6586×3100×2370mm
	Net weight	8572kg	10530 Kg



MH-630

HORIZONTAL MACHINING CENTER

▶▶ **MH-630 + 6 WORKBENCH MODULES**



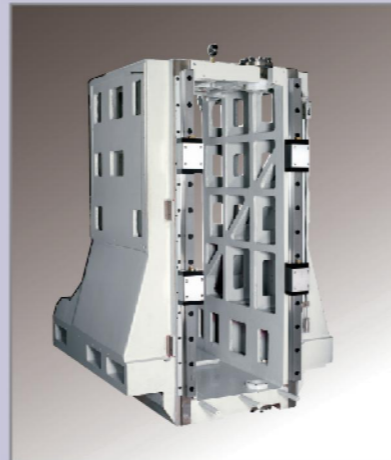
High-rigid linear slide rail

The strong linear slide ensures the accuracy of X, Y, Z axis and increases the axial fast feed rate.



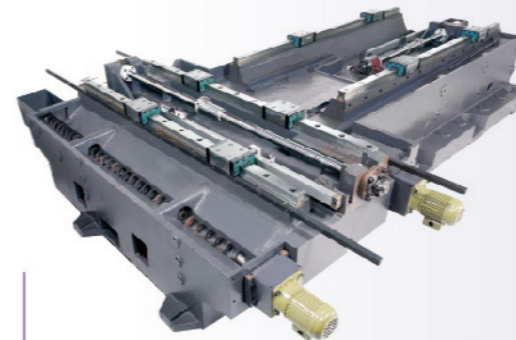
Auto Tool Changer

A servomotor controls the magazine to produce smooth, precise, and reliable positioning.
60PCS(STD),80PCS(OPT)



EXTREMELY RIGID MOBILE COLUMN STRUCTURE

High rigidity structure design, using high quality cast iron, to ensure the rigidity and stability of the machine



HIGH QUALITY CASTING IRON STRUCTURE

The base and main column of MH-630 are made of "high quality cast iron" to enhance the rigidity and stability of the platform.
The triaxis is compensated by optical ruler to ensure the machining accuracy.



TOOL MEASURING SYSTEM (OPT)

Reduce the machine to stop using the time, save a lot of processing hours.

WORKPIECE MEASURING SYSTEM (OPT)

Implement the workpiece measurement during the processing cycle, and automatically correct the workpiece correction.

First check and automatically perform corrections and updates, and reduce the time the machine stops when waiting for the first check result.

The measuring head can be transmitted within 360 degrees of the vertical spindle
Signal above 4 meters.





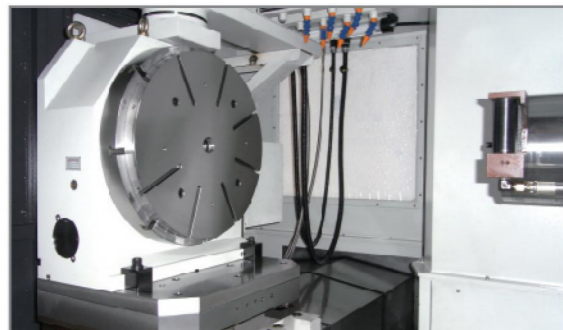
▶▶ Single pallet



▶▶ Double pallet

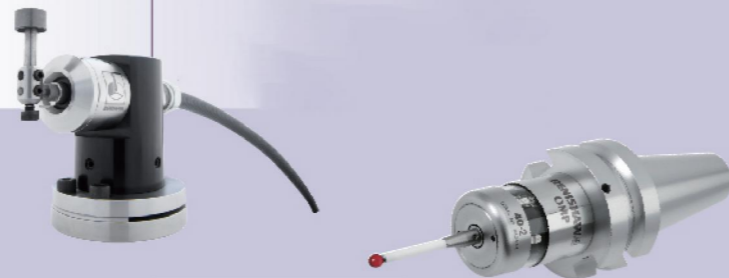
MH-800

HORIZONTAL MACHINING CENTER



CNC ROTARY TABLE (OPT)

The data disc of large radial axial bearing can be selected
The disk surface diameter is up to 630mm



TOOL MEASURING SYSTEM (OPT)

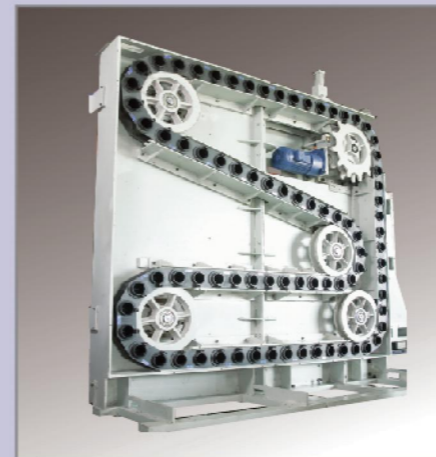
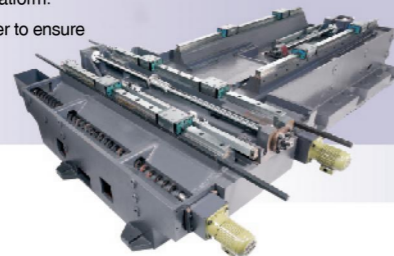
Reduce the machine to stop using the time, save a lot of processing hours.

WORKPIECE MEASURING SYSTEM (OPT)

Implement the workpiece measurement during the processing cycle, and automatically correct the workpiece correction. First check and automatically perform corrections and updates, and reduce the time the machine stops when waiting for the first check result. The measuring head can be transmitted within 360 degrees of the vertical spindle. Signal above 4 meters.

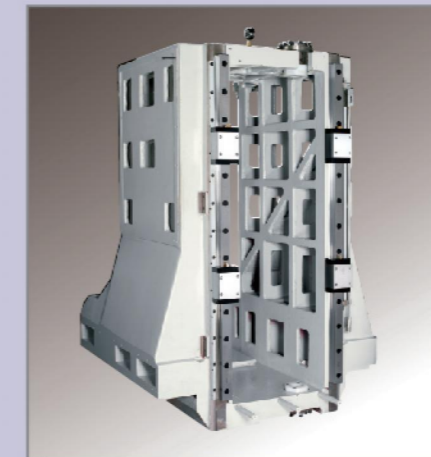
HIGH QUALITY CASTING IRON STRUCTURE

The base and main column of MH-800 are made of "high quality cast iron" to enhance the rigidity and stability of the platform. The triaxis is compensated by optical ruler to ensure the machining accuracy.



Auto Tool Changer

A servomotor controls the magazine to produce smooth, precise, and reliable positioning. 60PCS(STD), 80PCS(OPT)



EXTREMELY RIGID MOBILE COLUMN STRUCTURE

High rigidity structure design, using high quality cast iron, to ensure the rigidity and stability of the machine

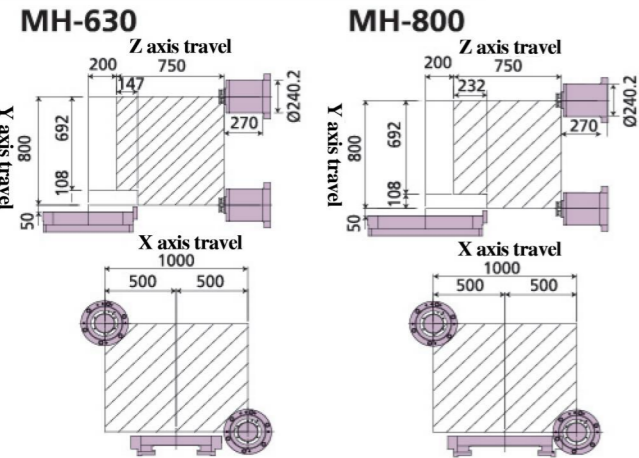


High-rigid linear slide rail

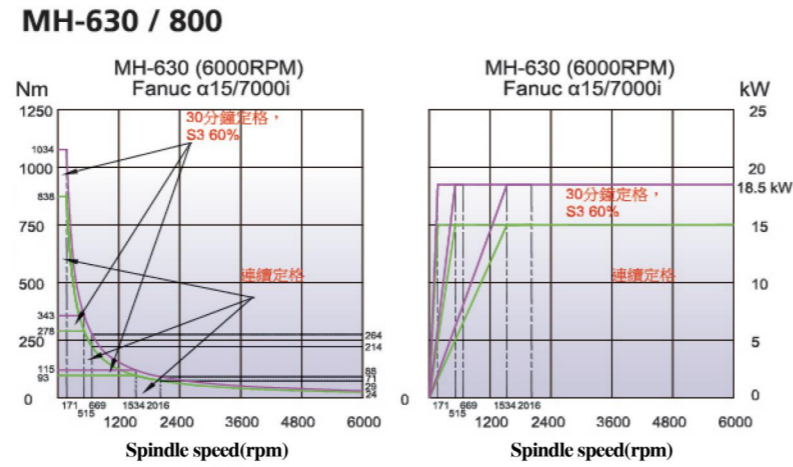
The strong linear slide ensures the accuracy of X, Y, Z axis and increases the axial fast feed rate.

MH-630 / MH-800

WORK ENVELOPE



SPINDLE POWER & TORQUE DIAGRAM



DIMENSIONAL DRAWINGS

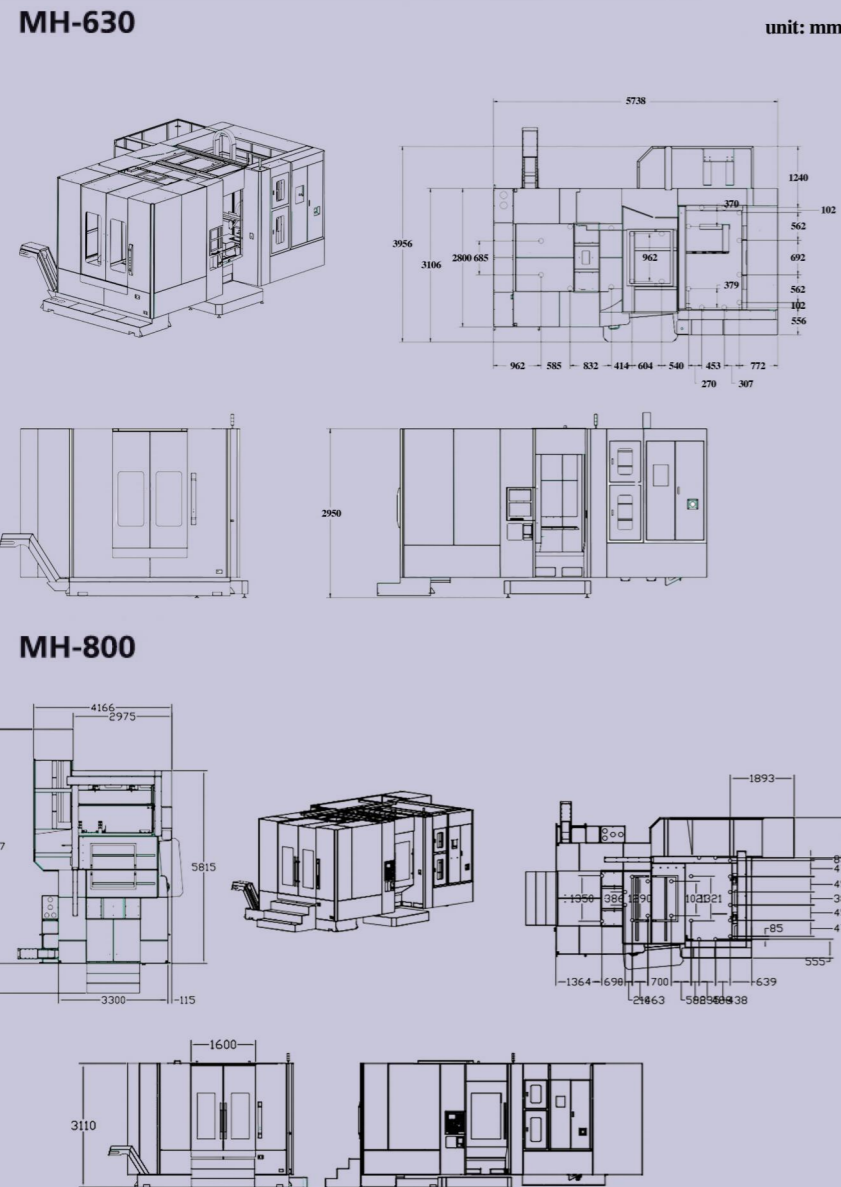
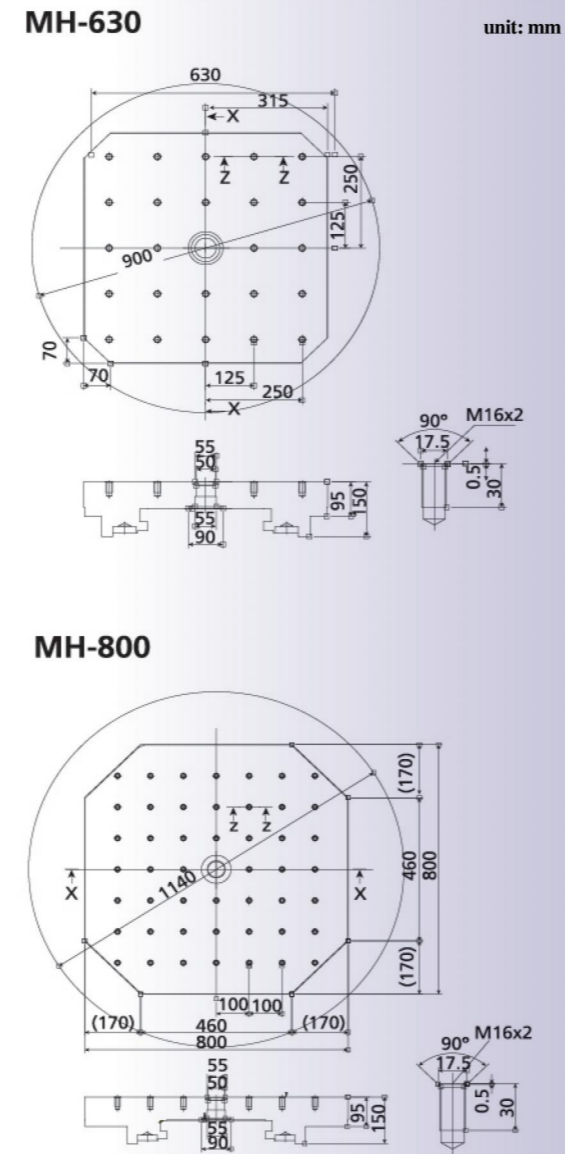


TABLE & TOOL HOLDERS



MACHINE SPECIFICATIONS

unit: mm

ITEM	MH-630	MH-630APC	MH-800	MH-800APC
PALLET	Dimensions	630×630		800×800
	T-slot	5-18×100	5*18*100	5-22×160 24*M16
	Max. loading capacity	1200kg		2000Kg
	B minimum indexing	1° (OPT 0.001)	1°或 0.001°	1° (OPT 0.001) 1°或 0.001°
	Pallet capacity	1	2	1 2
TRAVEL RANGE	Max. travel range of X/Y/Z-axis	1050/800/900	1000 /1000 / 850	1250 / 900 / 1050 1400 /1000 /1100
	Distance from spindle center to table surface	80~880	95 ~ 1095	40 ~ 940 105 ~ 1105
	Distance from spindle nose to table center	120~1020	130 ~ 980	200 ~ 1250 135 ~ 1235
SPINDLE	Spindle taper	BT50	BT50/190	BT50 BT50/190
	Spindle speed	4000	6000rpm	4000 6000rpm
FEEDRATE	Cutting feedrate	1 ~ 10000mm/min	15000mm/min	1 ~ 10000mm/min 15000mm/min
	Rapid traverse speed of X/Y/Z-axis	36m/min	20m/min	24m/min 36m/min
	Minimum setting unit of X/Y/Z-axis	0.001		
TOOL	Tool capacity	24	40	24 40
	Tool selection	Random		
	Max. tool dia. x length	Φ125×350	Φ125-250×400	Ø 125×350 Φ125-250×400
	Max. tool weight	15kg	12-25KG	15Kg 12-25KG
	Tool shank type	BT50		
DRIVE MOTOR	Spindle motor	15 / 18.5KW	18.5 / 22KW	15 / 18.5KW 18.5 / 22KW
	Servo motor of X/Y/Z/B-axis	Bis22/ Bis30B / Bis22/Bis12/3000	4.5/ 4.5 / 4.5 /3 KW	Bis30/ Bis30B / Bis30/Bis12/3000 7/7 / 7 / 4.5 KW
	Spindle recirculating lubrication motor	370W		
	Centralized lubrication motor	12W		
	Hydraulic motor	2.2KW	2.25 KW	2.2KW 2.25 KW
	Coolant motor (for tools/chips)	750W	0.75KW	750W 0.75KW
	Chip conveyor motor	400w	200w	400w 200w
ATC motor	0.56 KW	0.373 KW	0.56 KW 0.373 KW	
ACCURACY	Positioning	±0.005	0.01	±0.005 0.01
	Repeatability	±0.005	0.008	±0.005 0.008
MISCELLANEOUS	Outline dimension (L x W x H)	3200×4200×3000	4000×3300×3200mm	3400×4800×3200 4000×3300×3200mm
	Net weight	11200kg	12000 Kg	13400 Kg 13000 Kg