



Santos y Patxi Servicio Técnico S.L.
Parque Empresarial ESSER Nave SE-5
20850 Mendara (Guipúzcoa) España
Tlf. 943741658 Fax. 943742346
Email. santosjose@santosypatxi.com
Wed. www.santosypatxi.com

Machining Center



Speed Performance Accuracy

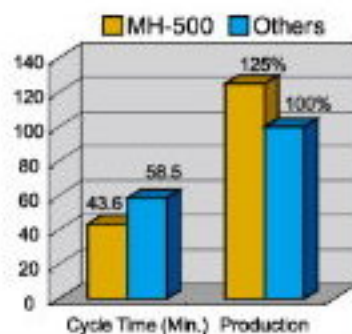
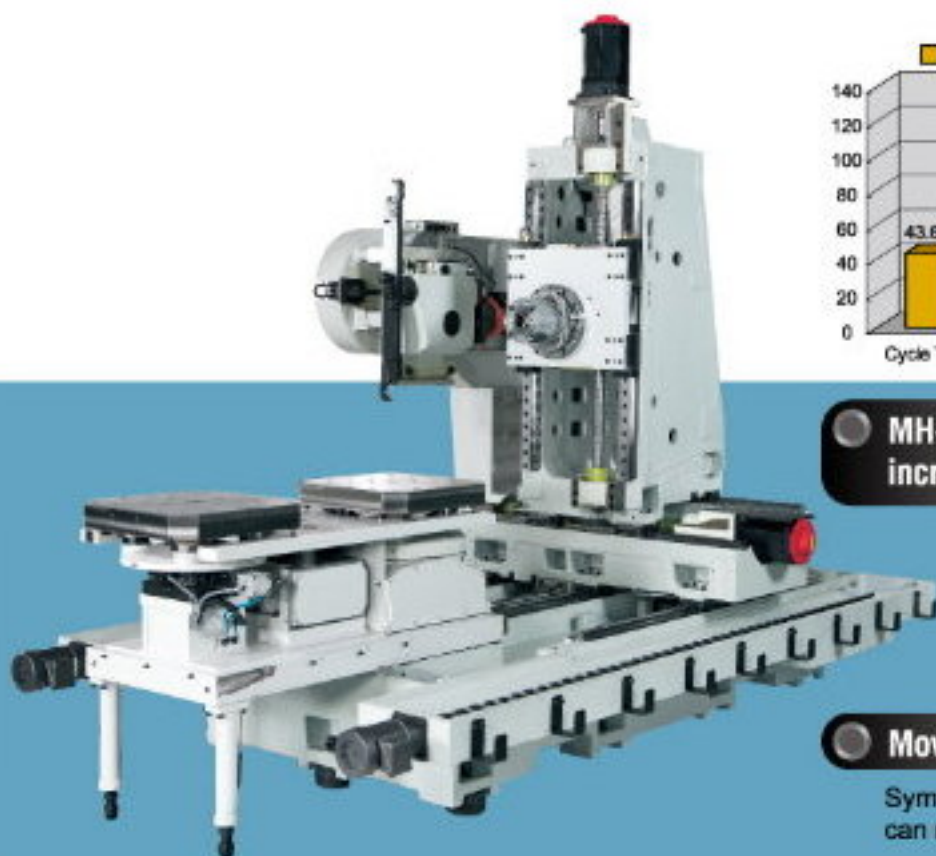
0~10000 RPM TAKE ONLY 1.3 SEC.



MH-500 Horizontal Machining Center

● Spindle ISO No.40

Speed : 8000/12000/15000 rpm.
Stroke : 620 x 620 x 620 mm
Table : 500 x 500 mm
Max. work piece : Ø680 x 1000 mm



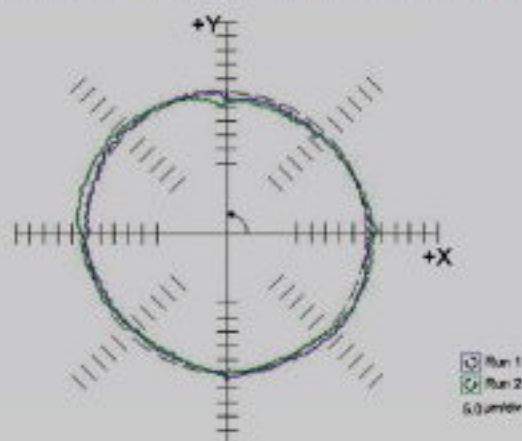
MH-500 cutting at customer factory, increase production 25%

Moving column design

Symmetry mechanical design with roller linearway can reach rapid traverse 48M/min.

Excellent Dynamic Accuracy

Ball-bar testing Feedrate 8000.0mm/min



Dynamic ASME B5.54

Non Roundness	8.8 μ m	
Maximum deviation	4.2 μ m	162.0°
Minimum deviation	-4.6 μ m	92.0°

Test Parameters

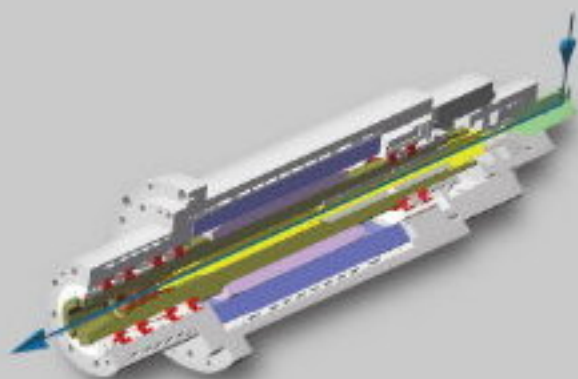
Radius	100.0000mm
Sample rate	250.000Hz
Feedrate	8000.0mm/min
Run sequence	CW CCW
Plane under test	XY

Rigid spindle keep low thermal deflection

4 front bearing + 2 rear bearing to offer less cutting vibration and high run out accuracy.

Oil mist lubrication for Built-in spindle

Helping to lessen the thermal deflection after long-hour running.



MH-500

Horizontal Machining Center



Excellent acceleration High-speed Built-in spindle

0~10000 rpm take only 1.3 sec.
Max. spindle reach 15000 rpm.
Max. torque 167 Nm.

Ideal power performance Belt-driven spindle

Full power output at 500 rpm.
Max. torque 285 Nm.



Hydraulic rotary joint

Convenient for customer to design fixture.



Servo driven APC

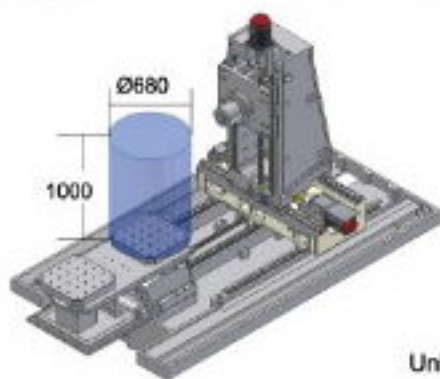
Pallet changes running smoothly with accuracy indexing
Pallet-to-pallet takes 3 seconds only.



Servo driven tool magazine

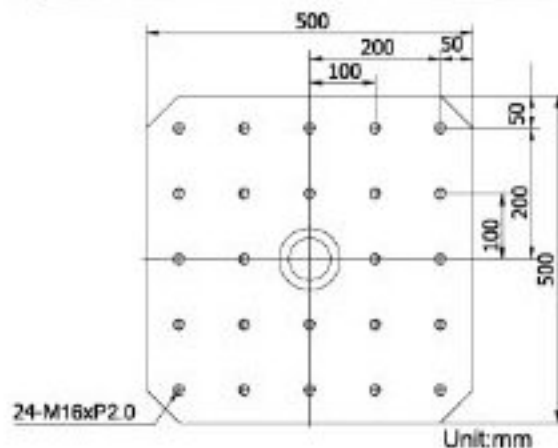
Fast indexing 4 tools per second.
Tool management function.
Tooling life management function.

Range Of Work Piece



Unit:mm

Dimension of the working table



Unit:mm

Machine specification

ITEM		UNIT	MH-500	
Pallet	Table size	mm	500 × 500	
	Bolt hole	mm	M16 × P2 × 24	
	Max. loading capacity	Kg	500	
	Max. Range Of Work Piece	mm	Ø680 x 1000	
	B minimum indexing	Deg.	0.001*	
	Pallet capacity		std.: 2 opt.: 1	
Travel Range	Max. travel range of X/Y/Z-axis	mm	620×620×620	
	Distance from spindle nose to table center	Belt driven	mm	130~750
		Built-in	mm	130~750
	Distance from spindle center to table surface	Belt driven	mm	110~730
Built-in		mm	160~780	
Spindle	Spindle taper		ISO No. 40	
	Spindle speed	rpm	std:12,000 ;opt: 8000 / 10,000 / 15,000	
Feedrate	MAX .Cutting feedrate	mm / Min	10000	
	Rapid traverse speed of X/Y/Z-axis	M / Min	48	
Tool MAG.	Tool capacity		std: 40 pcs; opt: 60 pcs	
	Max. adjacent tool (Diameter × Length)	mm	Ø 75 × 300	
	Max. tool weight	Kg	7	
	Tool shank type		BT/CAT/DIN.	
Drive Motor	Spindle motor (30 Min. / Con.)	Belt driven	Kw	15 / 11
		Built-in	Kw	22 / 18.5
	Hydraulic motor	Kw	3.75	
Coolant motor	Kw	1.17		
General	Power capacity	Kva	40	
	Air Pressure Required	Bar	6	
	Outline dimensions (L × W × H)	mm	4600 x 2650 x 2900	
	Net weight /40-tool	Kg	10,500	

Standard accessories

- Fanuc 0i-MC controller
- ISO NO.40 Spindle 12000 rpm (Built-in type)
- Spindle motor: 22/ 18.5 Kw (30 Min. / Con.)
- Spindle oil cooling system
- Chain type 40 tools ATC
- Automatic lubrication system
- Remote manual pulse generator
- Hydraulic clamp system (Rotary jointer)
- Internal screw type chip conveyors
- Indexing angle table 0.001° degree
- Auto pallet change system
- Full enclosed splash guard
- Coolant system
- Indication lamp
- Work lamp
- Tool kit
- Leveling bolts and pads

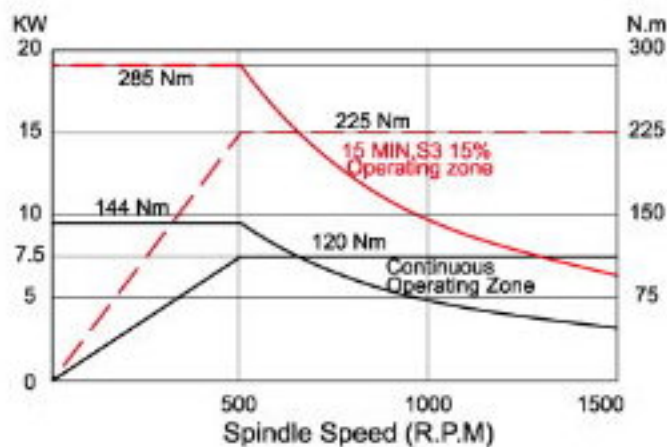
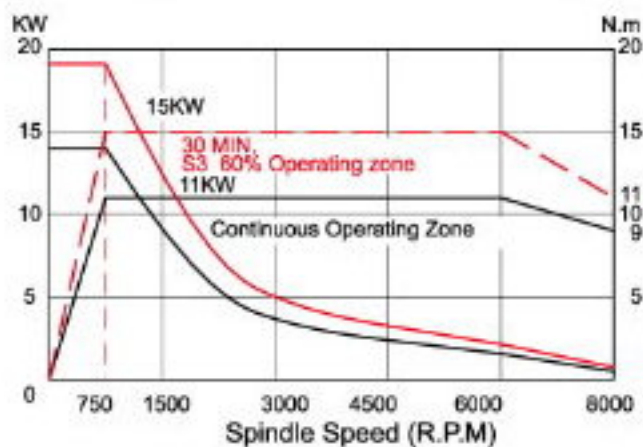
Options

- Fanuc 18i-MB controller
- ISO NO.40 spindle 8000 rpm(Belt-driven)
- ISO NO.40 Spindle 10000 rpm(Belt-driven)
- ISO NO.40 Spindle 15000 rpm(Belt-in)
- Coolant through spindle 20bar
- Oil mist through spindle
- Link Belt Type Chip Conveyor
- Air-condition for electric cabinet
- Chain type 60 tools ATC
- Indexing Angle Table 1° Degree
- Single Working Table System
- Linear Scale for 3 Axis
- Scale for B Axis
- Oil mist collector
- Transformer
- CE

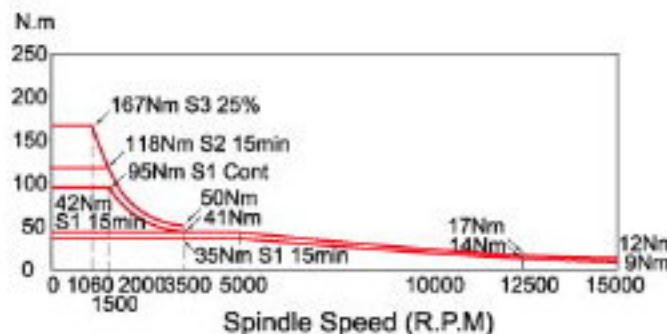
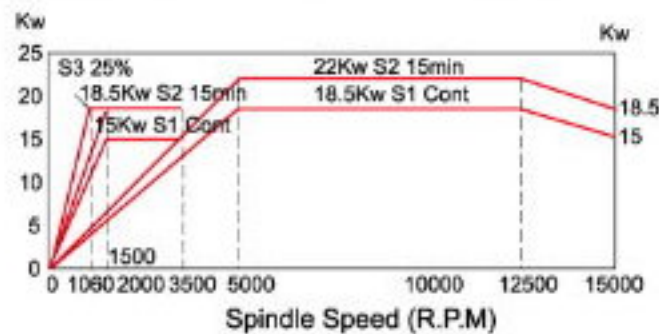
MH-500

Horizontal Machining Center

Belt driven spindle output

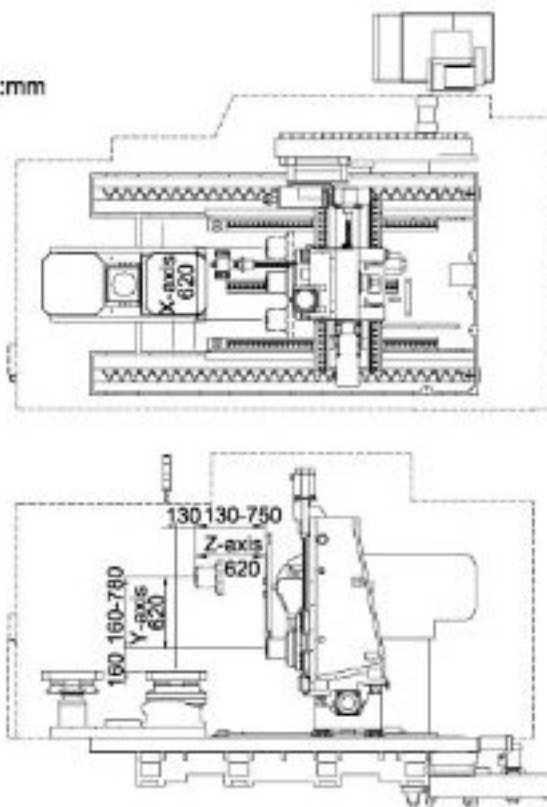
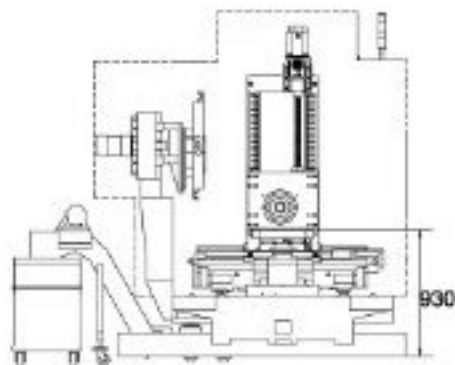


Belt-in spindle output



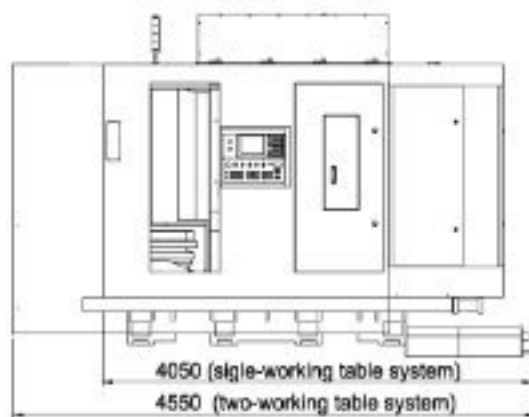
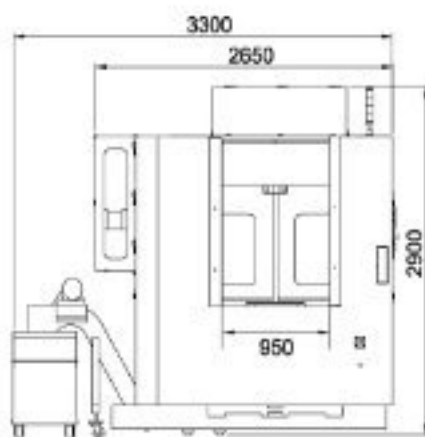
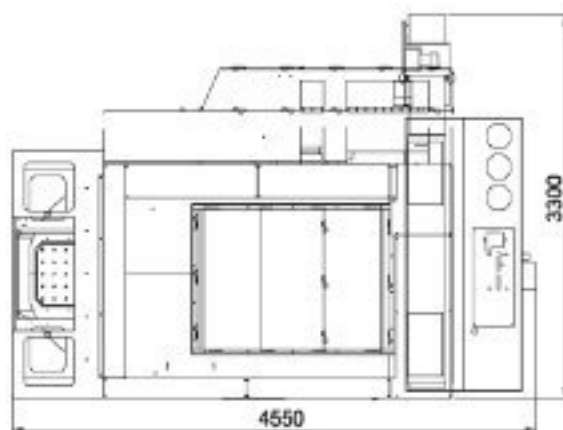
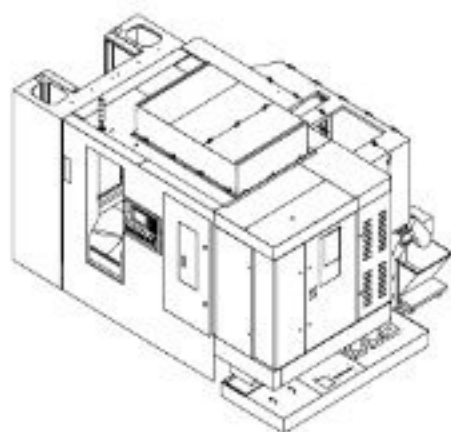
Travel range of Belt driven spindle

Unit:mm



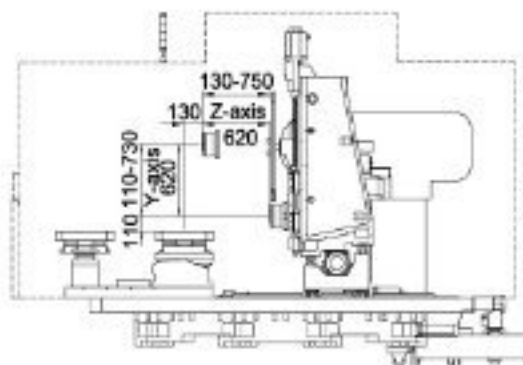
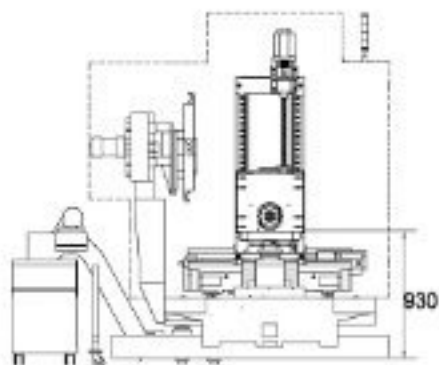
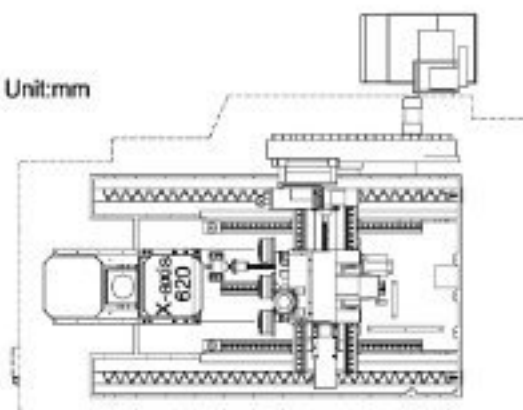
Overall dimension

Unit:mm



Travel range of built-in spindle

Unit:mm



MH-1016/1225

Horizontal Machining Center



Features

Equipped high-speed built-in spindle, suitable for heavy duty cutting

Little thermal deflection after long-hour running.

Capable for delicate works.

An Inverted T – Shape Design provide more rigid and Stability.

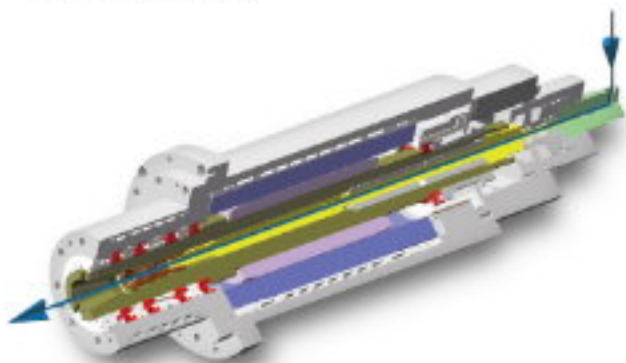
Roller-Type NSK65 Linear Guide way in 3 axes for High Precision, Good Repeatability and Heavy Loading machining performance.

Rigid spindle keep low thermal deflection

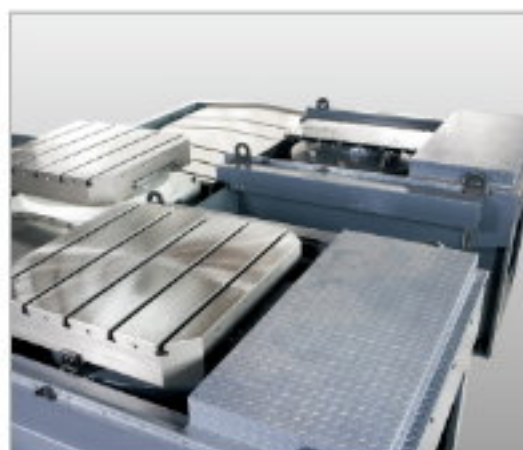
4 front bearing + 1 rear bearing to offer less cutting vibration and less run out.

Oil mist lubrication for Built-in spindle

Helping to lessen the thermal deflection after long-hour running.



Auto pallet change system



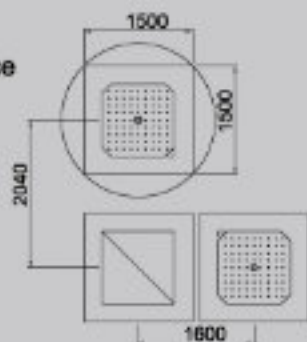
Servo driven tool magazine

Fast indexing 3 tools per second.
Tool management function.
Tooling life management function.



MH-1016

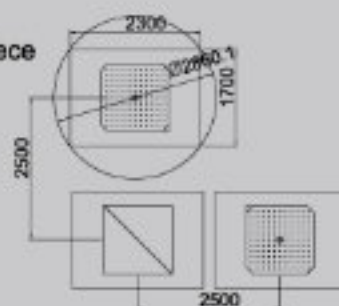
- Max. size of Working Piece 1500x1500x1400 mm
- Table center Distance 1600x 2040 mm



Unit:mm

MH-1225

- Max. size of Working Piece 2300x1700x1400 mm
- Table center Distance 2500x 2500 mm

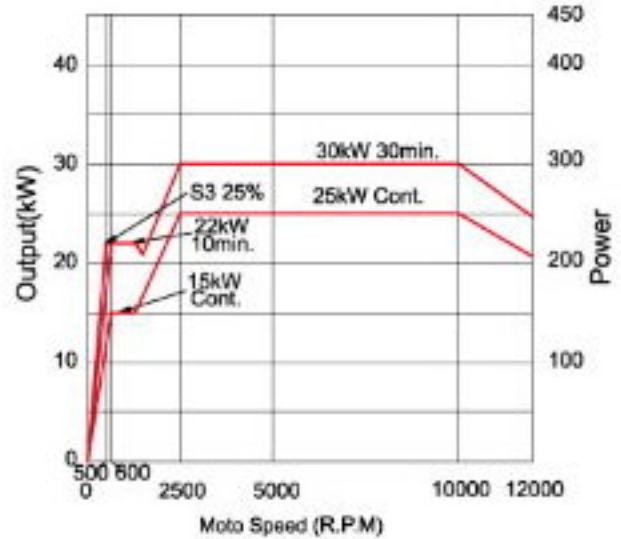
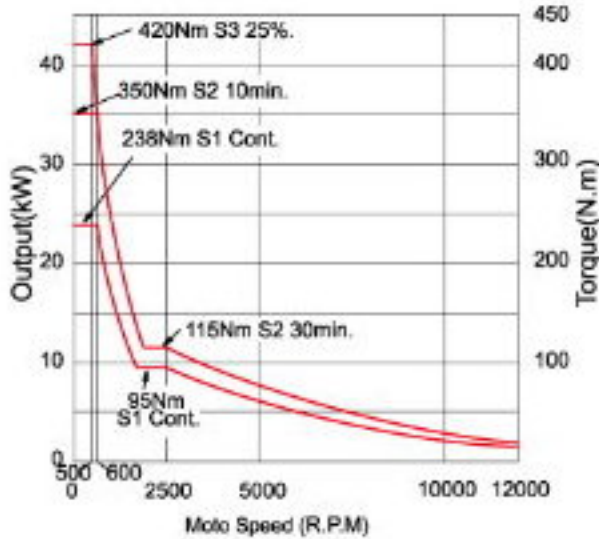


Unit:mm

MH-1016/1225

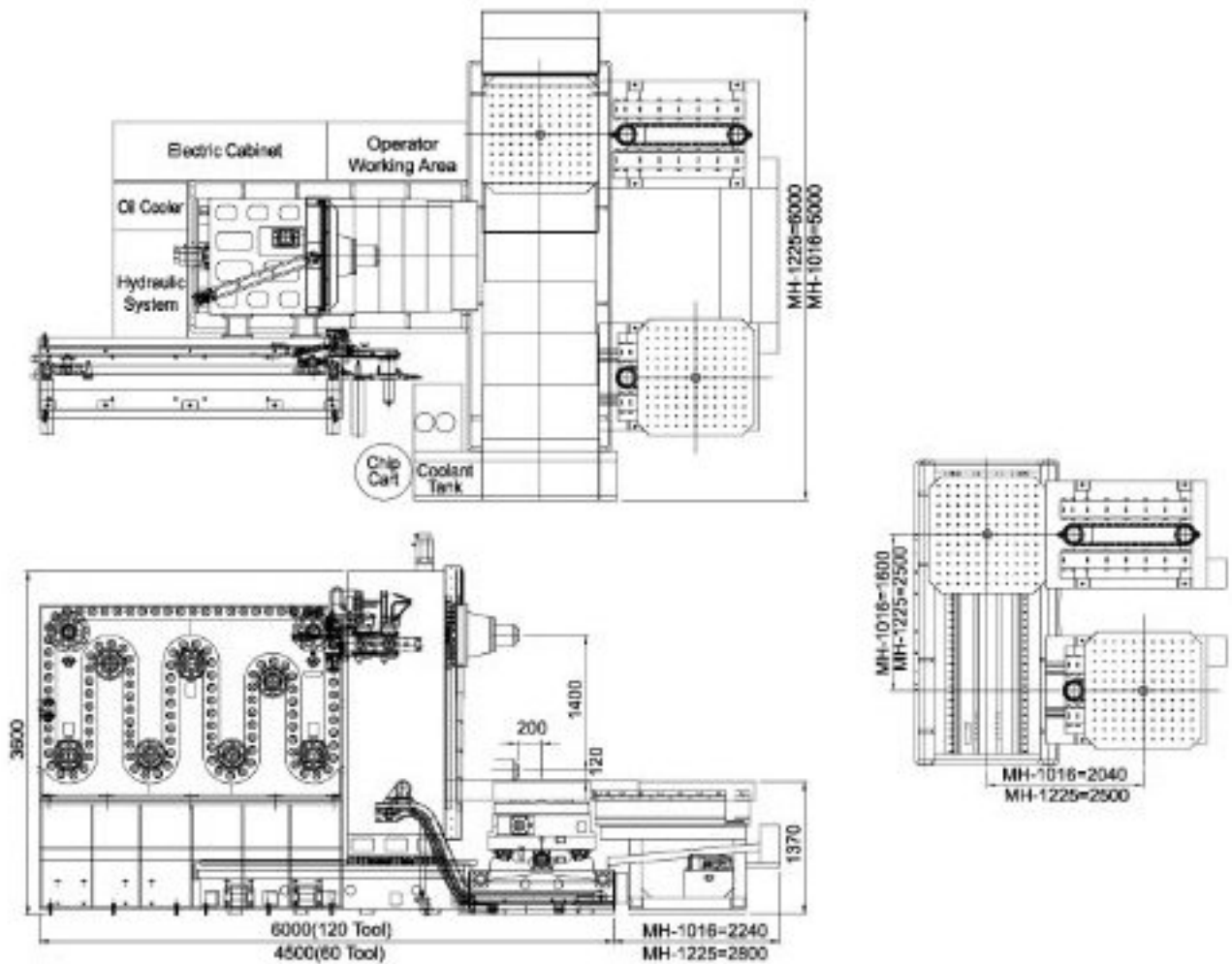
Horizontal Machining Center

Spindle output



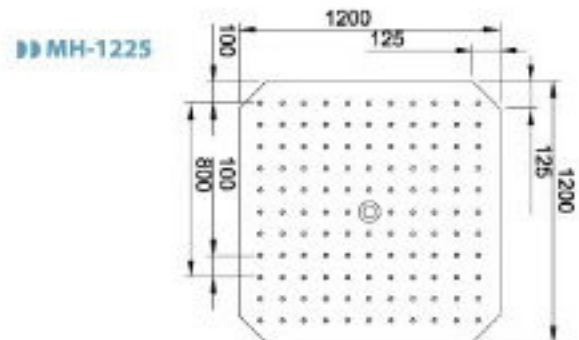
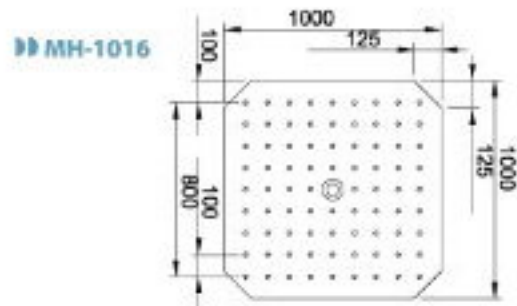
Overall dimension

Unit:mm



Dimension of the working table

Unit:mm



Machine Specification

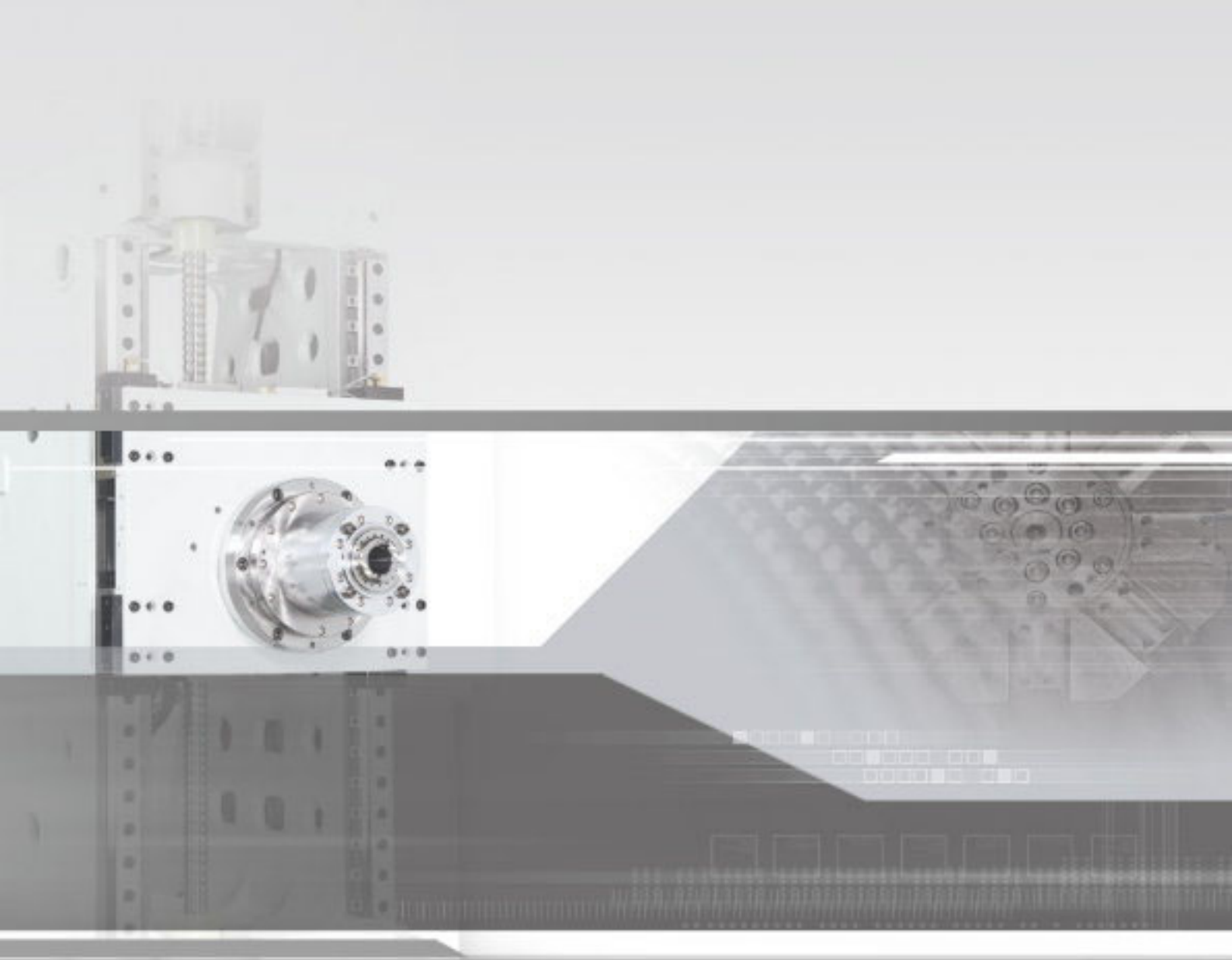
ITEM		UNIT	MH-1016	MH-1225
Pallet	Table size	mm	1000 × 1000	1200 × 1200
	Bolt hole	mm	M20 × P2.5 × 80	M20 × P2.5 × 120
	Max. loading capacity	Kg	3000	4000
	Max. Range Of Work Piece	mm	∅1500x1400	∅2300x1700
	B minimum indexing (degree)	Deg.	5°	5°
	Pallet capacity		std : 1 opt : 2	std : 1 opt : 2
Travel Range	Max. travel range of X axis	mm	1600	2500
	Max. travel range of Y axis	mm	1400	1400
	Max. travel range of Z axis	mm	1400	1400
	Distance from spindle nose to table center	mm	200~1600	200~1600
	Distance from spindle center to table surface	mm	120~1520	120~1520
Spindle	Spindle taper		ISO No. 50	ISO No. 50
	Spindle speed	rpm	std. 6,000 opt.10000	std. 6,000 opt.10000
Feedrate	MAX .Cutting feedrate	mm / min	5000	5000
	Rapid traverse speed of X/Y/Z-axis	M / min	10	10
Tool	Tool capacity		std. 60 opt. 120	std. 60 opt. 120
	Max. adjacent tool (Diameter × Length)	mm	∅ 125 × 350	∅ 125 × 350
	Max. tool weight	Kg	20	20
	Tool shank type		BT/CAT/DIN.	BT/CAT/DIN.
Drive Motor	Spindle motor (30 Min. / Con.)	Kw	30 / 25	30 / 25
	Hydraulic motor	Kw	7.5	7.5
	Coolant motor	Kw	1.17	1.17
General	Power capacity	Kva	50	50
	Air Pressure Required	Bar	6	6
	Outline dimensions (L × W × H)	mm	6250 × 5000 × 3900	6250 × 6000 × 3900
	Net weight /60-tool	Kg	21,000	23,000

Standard accessories

- Fanuc Oi-MC controller
- ISO NO.50 Spindle 6000 rpm (Built-in)
- Spindle motor: 30 / 25 Kw (30 Min. / Con.)
- Spindle oil cooling system
- Chain type 60 tools ATC
- Automatic lubrication system
- Coolant system
- Remote manual pulse generator
- Indexing angle table 5° degree
- Internal screw type chip conveyors
- Link belt type chip conveyor
- Semi splash guard
- Indication lamp
- Work lamp
- Tool kit
- Leveling bolts and pads

Options

- Fanuc 18i-MB
- ISO NO.50 Spindle 10000 rpm(Built-in)
- Coolant through spindle 20bar
- Oil mist through spindle
- Chain type 120 tools ATC
- Auto pallet change system
- Indexing angle table 1° degree
- Indexing angle table 0.001° degree
- Linear scale for 3 axis
- Scale for B axis
- Transformer
- CE



HORIZONTAL SERIES

- VERTICAL MACHINING CENTER SERIES
- CNC LATHE SERIES



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