

Quality Assurance

At HANNSA, we ensure that the quality of each machine will meet our customers' requirements. HANNSA machine tools are manufactured by a team of highly skilled technicians. Rigorous inspections and tests are conducted, enabling HANNSA to achieve the highest standards.



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Horizontal Machining Center Series

Simply the Best!

Hannsa YMH Series HORIZONTAL MACHINING CENTER



Applicable Industries

- Precision parts machining
- Mold machining
- Automotive and motorcycle parts machining

Precision Built! Dramatically Boost Efficiency!

Built-in Hydraulic Power Unit and Oil Cooler

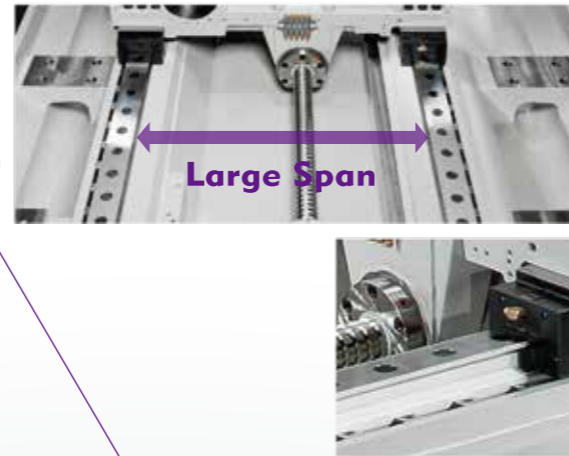
The hydraulic power unit and the oil cooler are mounted onto the machine. This design may save installation time when assembling machine. Another benefit is its space saving and increased beauty of appearance.



The Combination of Rigidity and Efficiency

Roller-type Linear Ways on Three Axes

The X, Y, Z-axes slideways are mounted with heavy duty roller-type linear ways, combined with a large span design that presents outstanding heavy load resistance capabilities. Also, the linear ways also provide features such as high feed rate, low vibration and extra smooth movement.



Integrated Structure

- The entire Auto Pallet Change Unit is installed on the machine base, allowing high speed and reliable pallet changing performance.
- Rotary Type APC: YMH-630 / 800



No Counter-Balance

Machine adopts oversized servo motor as well as ball screw to avoid the disadvantages of conventional counter-balance system.



Traveling Column

The oversized column design in combination with rib reinforcement eliminates the possibility of structural deformation. The column bottom is enlarged to increase rigidity and stability. This structure exhibits outstanding vibrational dampening, especially when performing heavy cutting.



Step Design

Rigid Structure

- One piece cast iron made from high quality Meehanite casting.
- Box type structure with reinforced inner ribs.
- X Axis slideways are step-deployed, which minimizes geometric error and maximizes dynamic rigidity.



High grade and pre-tensioned ball screws are directly coupled with servo motor



SPINDLE

Spindles are all dynamic balanced and test run before installation.
Low noise, low vibration, low temperature rise.

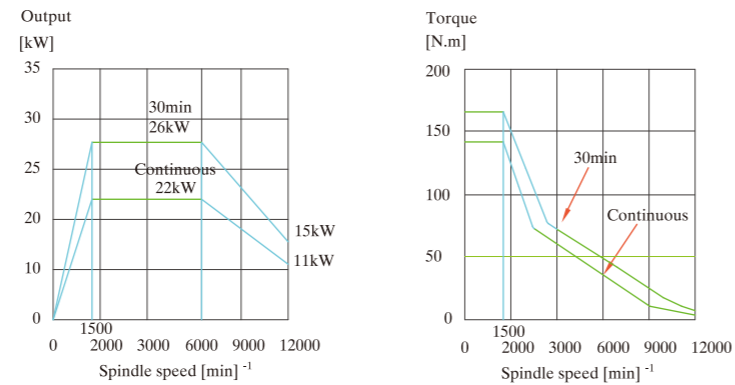


Direct Drive Spindle (standard)

YMH 630 α 22/10000 i

#50 Direct Drive Spindle

- Standard 6000 rpm.
- 8000 and 10000 rpm are optional.



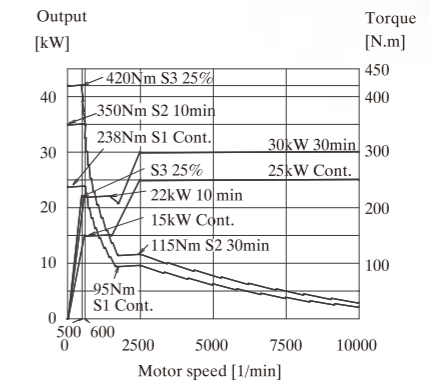
Built-in Spindle (optional)



YMH 630 Built-in Spindle 10000 rpm (OPT.)

#50 Built-in Spindle / Optional

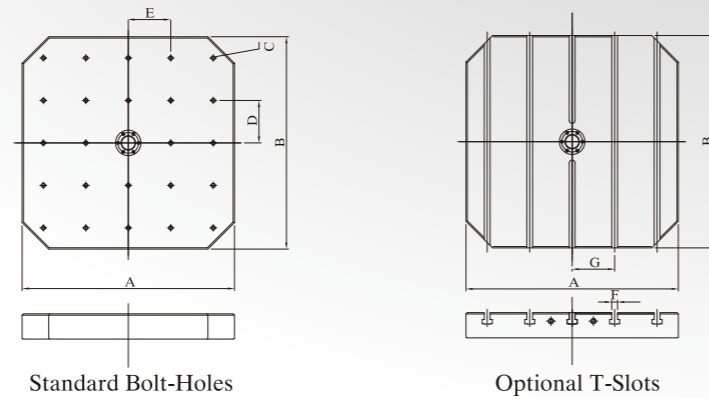
- Available with 10000 rpm.



Reliable Automatic Pallet Changer

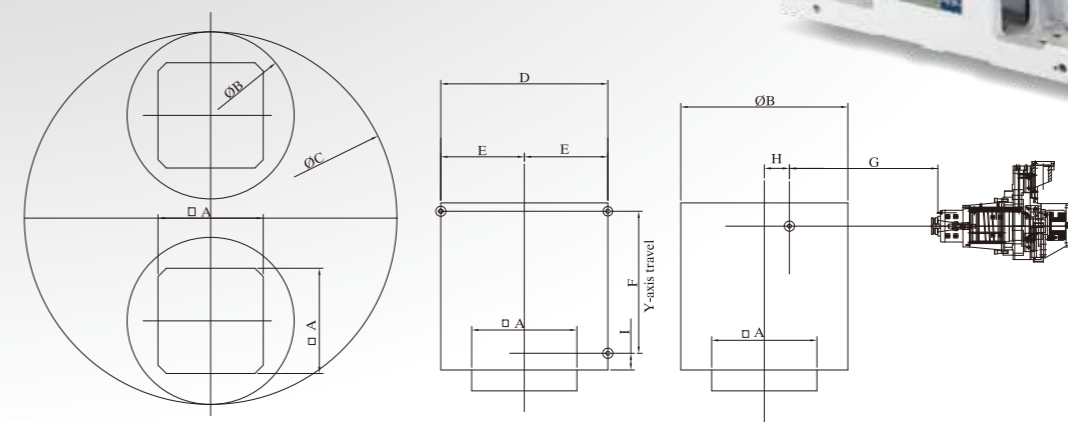
Pallets with bolted hole (standard) or with T-slots (optional) are available.

Pallet Dimensions



	A	B	C	D	E	F	G
YMH 630	630	630	M16x2.0x30L	125	125	18H7	125
YMH 800	800	800	M16x2.0x30L	160	160	22H7	160

YMH XYZ Stroke



	A	B	C	D	E	F	G	H	I
YMH 630	630	1000	2230	1000	500	800	950	150	100
YMH 800	800	1200	2500	1300	650	1200	1200	200	100



Workpiece & Tools Measuring System



The best equipment for prototyping and reverse engineering.



LASER Type Tool Measuring System

Capable of measuring tool consumption as well as tool length or diameter with the highest accuracy and efficiency.



Tool Measuring System

The touch probe type tool measuring system may check the tool length, diameter and even position of cutting flutes on the cutter.

Automatic Tool Changer

Flexibility & Versatility

Hannsa offers ATC with maximum capacity up to 90 tools.

- Shortest route tool selection
- Tool change is quickly accomplished with smooth motion
- Accommodates BT50 or CAT50 tool shank

Standard: 40 Tools



Optional: 60 or 90 Tools



European Type Guard

The specially designed European type guard not only fully prevents chips and coolant from splashing, but also features no interference and low noise. Moreover, it still maintains smooth motion when rapid traverse rates reach 48 m/min.



Front Mounted Chip Conveyor

During machining, the chips delivered through the chip augers to the front mounted chip conveyor to remove from machine.



Specifications

PALLET	UNITS	YMH 630	YMH 800
Dimensions	mm (inch)	630×630 (24.8×24.8)	800×800 (31.5×31.5)
Bolt Hole	mm	24-M16×P125	24-M16×P160
Max. Loading Capacity	kgs (lbs)	1000 (2200)	2000 (4400)
Index Degree	degree	STD: 1° : OPT: 0.001°	STD: 1° : OPT: 0.001°
Index Repeatability	second	±4"	±4"
Pallet Capacity	piece	2	2
TRAVEL RANGE			
Max. Travel Range of X/Y/Z-Axis	mm (inch)	1000 / 800 / 950 (39.4 / 31.5 / 37.4)	1000 / 800 / 950 (39.4 / 31.5 / 37.4)
Distance From Spindle Nose to Table Center	mm (inch)	150-1100 (5.9-43.3)	150-1100 (5.9-43.3)
Distance From Spindle Center to Table Surface	mm (inch)	150-950 (5.92-37.4)	150-950 (5.92-37.4)
SPINDLE			
Spindle Taper		ISO NO.50	ISO NO.50
Spindle Nose Outer Diameter	mm (inch)	ø120 (ø4.7)	ø120 (ø4.7)
Spindle Speed	rpm	60-6000 (D.D.S)	60-6000 (D.D.S)
FEEDRATE			
Cutting Feedrate of X/Y/Z-Axis	mm/min (inch/min)	1-10000 (0.04-393.7 ipm)	1-10000 (0.04-393.7 ipm)
Rapid Traverse Speed of X/Y/Z-Axis	m/min (inch/min)	36 / 30 / 36 (1417 / 1181 / 1417)	36 / 30 / 36 (1417 / 1181 / 1417)
Minimum Setting Unit of X/Y/Z-Axis	mm (inch)	0.001 (0.0000394)	0.001 (0.0000394)
TOOL			
Tool Capacity	piece	STD: 40 pcs : OPT: 60-90 pcs	STD: 40 pcs : OPT: 60-90 pcs
Tool Selection		Shortest Path	Shortest Path
Max. Adjacent Tool Diameter X Length	mm (inch)	ø125×400 (ø4.9×15.7) Max. Tool Diameter ø230 (ø9)	ø125×400 (ø4.9×15.7) Max. Tool Diameter ø230 (ø9)
Max. Tool Weight	kgs (lbs)	20 (44)	20 (44)
Tool Shank Type		BT50.CAT50	BT50.CAT50
DRIVE MOTOR			
Spindle Motor	kw	22/26 (30/35HP)	22/26 (30/35HP)
Servo Motor of X/Y/Z/B-Axis	kw	7/7/7/4 (9.4/9.4/9.4/5.4HP)	7/7/7/4 (9.4/9.4/9.4/5.4HP)
Centralized Lubrication System	w	150	150
Hydraulic Motor	kw	2.2 (2.95HP)	2.2 (2.95HP)
Coolant Motor(For Tools/Chips)	w	960	960
Chip Conveyor Motor	kw	0.4×2set (0.53×2set)	0.4×2set (0.53×2set)
Magazine Motor	kw	2.2 (2.95HP)	2.2 (2.95HP)
Twin-Arm Motor	kw	1.8 (2.41HP)	1.8 (2.41HP)
ACCURACY			
Positioning VDI3441	mm (inch)	0.015 (0.00059)	0.015 (0.00059)
Repeatability	mm (inch)	0.008 (0.000315)	0.008 (0.000315)
MISCELLANEOUS			
T-T (Sec.)	second	5	5
P-P (Sec.) Pallet to Pallet	second	18	18
Outline Dimensions (LxWxH)	mm (inch)	6100×4100×3500 (240.1×161.4×137.8)	6100×4100×3500 (240.1×161.4×137.8)
Packing Size (LxWxH) mm	mm (inch)	7300×4200×3700 (287.4×165.3×145.6)	7300×4200×3700 (287.4×165.3×145.6)
Net Weight A/ B (Approx.)	kgs (lbs)	23000 (50706)	23000 (50706)

• The above specifications are subject to change without prior notice.

STANDARD ACCESSORIES

- Fanuc 0i-MF Controller
- Spindle Speed: 6000 rpm (DDS)#50
- Spindle Oil Cooling
- Automatic Lubrication System
- Coolant System
- Leveling Bolts and Pads
- Chip Conveyor + Chip Bucket
- Fully Enclosed Splash Guard
- Chip Auger
- Work Lamp
- Index Table 1 Degree
- 2 Pallets (Bolted Type)
- 40-Tool Magazine
- Rigid Tapping
- Electrical Box Heat Exchanger

OPTIONAL ACCESSORIES

- 60-Tool Magazine and 90-Tool Magazine
- Fanuc 32i-MB Controller
- Automatic Tool Measurement
- Automatic Workpiece Measurement
- Scraper Type Chip Conveyor
- Index Table 0.001 Degree
- Air Conditioner for Electrical Box
- Spindle Speed: 8000 rpm and 10000 rpm (DDS)
- XYZ-Axis Linear Scales
- Spindle CTS System (20 bar)
- Spindle CTS System (70 bar)
- XYZ-Axis Coolant Through Ballscrew System