

# HM T600/T800

## HIGH-SPEED DRILLING CENTER SERIES

- A small high-speed drilling iron tapping machining center with comprehensive high rigidity milling capabilities.
- The powerful BT30 taper direct drive spindle has high rigid tapping efficiency and a rotational speed of up to 20000 rpm.
- The combination of a fast moving speed of 60m/min and high acceleration shortens the idle working time of the processing cycle.
- The fully sealed integrated rice gold design, with the entire set of outer covers fixed inside the base casting, eliminates the problem of chip liquid leakage.
- The three axis adopts imported silent roller linear slide rails, which have the characteristics of high accuracy, high movement speed, and good accuracy retention.
- Through finite element analysis, ensure the optimal structural design of the machine, providing overall high accuracy and rigidity.



## THE BEST TOOL FOR MASS PRODUCTION AND PROCESSING OF 4C PARTS

### Industry Applications



This series of products has a unique high rigidity structural design, greatly improving cutting ability, and has high stability, high-speed and efficient processing characteristics. It is widely used in the 3C industry, electronic shell processing, automation, aerospace, automotive small parts, medical equipment and other industries, as well as shell processing.

FAST DISPLACEMENT WITH HIGH-SPEED  
TOOL CHANGE MECHANISM  
CAN BETTER REFLECT THE EFFICIENCY OF  
OBSERVATION AND PROCESSING

# HM T600/T800



## PERFECT COMBINATION OF EFFICIENCY AND PRECISION

- Designed with a heavy-duty body and box shaped columns, it has good rigidity and high stability
- The three axis adopts linear roller guide rail, which has fast speed and high accuracy.
- Z-axis with band brake, no counterweight design, high-speed movement up and down, no vibration, high accuracy
- Equipped with a head umbrella shaped knife library, it has fast tool replacement and high efficiency.
- The design of the rear debris structure makes slag removal more convenient.

## PURSING HIGH PRODUCTION EFFICIENCY

Pursuing endless production efficiency to achieve faster processing  
The Perfect Combiation  
Shortened the start and stop time of the spindle, adopted high-speed feed and acceleration, and shortened non machining time. High speed ATC tool exchange mode and adopted a new generation of control system.

item	unit	HMT600	HMT800
XZ axis travel	mm	600/420/330	800/420/330
Distance from spindle end to workbench	mm	150-480	150-480
Distance from spindle center to column guide rail surface	mm	465	465
Workbench size (length x width)	mm	720x400	900x400
T-groove (number size spacing)	mm	4-14-80	4-14-80
Allowable load	kg	350	400
Spindle taper hole	No.	BT30	BT30
Maximum spindle speed	r/min	20000	20000
Maximum power of spindle motor	kw	5.5	5.5
XYZ axis fast movement speed	m/min	60/60/48	60/60/48
Maximum chip speed	mm/min	10000	10000
Tool magazine		Clamping arm type tool magazine	Clamping arm type tool magazine
Number of tools	T	16/21	16/21
Positioning accuracy (JIS standard)	mm	±0.005/300	±0.005/300
Repetitive positioning accuracy (JIS standard)	mm	±0.003	±0.003
Machine weight	kg	3800	4200
Overall dimensions (length/width/height)	mm	1900/2400/2700	2200/2400/2700
Control system		Mitsubishi M80/Fanuc OI-MF PLUS	

## **HM V600 / V800 / V855/V1370**

### **HIGHSPEEDPARTS MACHININGCENTER**

- Unique structural design, combined with finite element analysis, super rigid structure meets various high-speed and high-precision machining needs.
- The entire machine is made of high synthetic cast iron (HT300 material) and undergoes secondary annealing stress treatment to ensure the highest stability of the bed body
- The three axes adopt high-precision roller linear sliding rails, with a direct high-speed spindle short nose design, effectively improving the spindle cutting rigidity and reducing tool wear.



**THE BEST TOOL FOR MASS PRODUCTION OF PARTS!**

### **Industry Applications**



This series of products has the characteristics of high-speed and efficient machining, suitable for various complex shapes, multiple processes, and batch parts that require a variety of tools and fixtures to complete processing. Widely used in product processing in fields such as electronics, machinery, automation, and healthcare.

ADVANCED DESIGN CONCEPT AND  
HIGH RIGIDITY STRUCTURE,  
ACHIEVE HIGH SPEED, PRECISION,  
AND STABILITY

**HM V600 / V800 / V855/V1370**



HIGH SPEED EFFICIENCY AND PRECISION



Optional direct connection HSK15000rpm      Optional built-in HSK2000rpm

project	unit	HMV600	HMV800	HMV855	HMV1370
XYZ axis stroke	mm	600/420/450	800/420/450	800/500/550	1300/700/700
Distance from spindle end to workbench	mm	100-550	100-550	100-650	150-850
Distance from spindle center to column guide rail surface	mm	465	465	560	730
Workbench size (length x width)	mm	720x400	900x400	1000x500	1400x700
T-groove (number size spacing)	mm	4-14-80	4-14-80	4-18-105	5-18-115
Permissible load	kg	350	400	800	1200
Spindle taper hole	No.	BT40	BT40	BT40	BT40
Maximum spindle speed	r/min	12000	12000	12000	12000
Maximum power of spindle motor	kw	5.5	5.5	11	11/15
XNYZ axis fast movement speed	m/min	60/60/48	60/60/48	48/48/36	30/30/30
Maximum chip speed	mm/min	10000	10000	10000	10000
Tool magazine		Disk tool magazine	Disk tool magazine	Disk tool magazine	Disk tool magazine
Number of tools	T	20	24	24	24
Positioning accuracy (JIS standard)	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300
Repetitive positioning accuracy (JIS standard)	mm	±0.003	±0.003	±0.003	±0.003
Machine weight	kg	4200	4200	5500	8000
Overall dimensions (length/width/height)	mm	2100/2400/2700	2300/2500/2700	2500/2800/2800	4000/2900/3000
Control system		Mitsubishi M80/Fanucui-MF PLUS			

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## HM T1600/ T2000/ V1600/V2000

### HIGHSPEEDINTEGRATED MACHININGCENTERFORLO NGPLATEPARTS

- This series of machines is an automated composite machining center that integrates milling, drilling, tapping, and chamfering.
- Suitable for metal processing of various lengths of steel, copper, aluminum, and other materials



### ALUMINUM PROFILE PROCESSING PREFERRED MODE

#### Industry Applications



This series of products has high-speed and efficient processing, and is widely used in product processing in fields such as automation equipment and new energy automotive parts.

INTEGRATING IRON CUTTING,  
DRILLING AND TAPPING, AND  
CHAMFERING

## HM T1600/ T2000/ V1600/V2000

Tough, compact bodystructure



Strong load, non deformation, more durable, high-strength alloy steel wire rod support seat



The X-axis adopts a unique technology - grinding grade ball screw drive, with high precision and speed.

project	unit	HMT1600	HMT2000	HMV1600	HMV2000
XYZ axis stroke	mm	1600/600/450	2000/600/450	1600/600/600	2000/600/600
Distance from spindle end to workbench	mm	150-600	150-600	150-600	150-600
Distance from spindle center to column guide rail surface	mm	669	669	669	669
Workbench size (length x width)	mm	1700x600	2100x600	1700x600	2100x600
T-groove (number size spacing)	mm	5-18-110	5-18-110	5-18-110	5-18-110
Permissible load	kg	600	600	600	600
Spindle taper hole	No.	BT30	BT30	BT40	BT40
Maximum spindle speed	r/min	20000	20000	12000	12000
Maximum power of spindle motor	kw	5.5	5.5	11(Mitsubishi)	11(Mitsubishi)
XNYZ axis fast movement speed	m/min	48/48/36	48/48/36	48/48/36	48/48/36
Maximum chip speed	mm/mi	10000	10000	10000	10000
	n				
Tool magazine		Clamping arm type tool magazine	Clamping arm type tool magazine	Disk type tool magazine	Disk type tool magazine
Number of tools	T	21	21	24	24
Positioning accuracy (JIS standard)	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300
Repetitive positioning accuracy (JIS standard)	mm	±0.003	±0.003	±0.003	±0.003
Machine weight	kg	6000	6500	6300	6800
Overall dimensions (length/width/height)	mm	3900/3000/2700	4900/3000/2700	3900/3000/2700	4900/3000/2700

Mitsubishi M80/Fanuc Oi-MF PLUS

## HM M855/ M866/ M1166

### HEAVY CUTTING INTEGRATED MACHINING CENTER SERIES

- The unique structural design, with an ultra wide base and a multi-layer cross ribbed column structure, and a reinforced spindle box design, derived from years of experience and data accumulation and rational structural analysis, greatly improves the heavy cutting ability of the entire machine while also possessing the stability of high-speed motion.
- The whole machine adopts high synthetic cast iron (HT300 material) and undergoes secondary annealing stress treatment to ensure the highest stability of the bed.
- The three axes adopt high-precision roller linear sliding rails, and the short nose end design of the large diameter direct high-speed spindle effectively improves the cutting rigidity of the spindle and reduces tool wear



**THE BEST TOOL FOR PRECISION MOLD / PART PRODUCT PROCESSING!**

### Industry Applications



The unique high rigidity structural design of this series of products increases the cutting capacity by 30-50% compared to traditional equivalent models, and has advantages in precision and smoothness in precision parts and mold processing. Widely used in product processing in various fields such as molds, molds, hardware, automotive parts, aerospace, medical equipment, etc. with complex shapes and high precision requirements.

THE HIGHEST RIGIDITY ENSURES  
MAXIMUM PROCESSING PERFORMANCE!

## HM M855/M866/M1166



### MULTIPLE CONFIGURATION OPTIONS FOR YOU TO CHOOSE FROM

Optional options for processing industries such as mold embryo:  
BT50-  $\Phi$  150 belt type 8000rpm spindle,  
Further improvement in heavy cutting ability

### OPTIONAL IN THE HIGH-PRECISION MOLD INDUSTRY

Direct 15000/18000rpm spindle, paired with high-speed  
High precision mold package function, achieving high surface  
smoothness requirements.

The endless pursuit of non-stop production efficiency to achieve  
higher-speed machining

### PROCESSING EXAMPLE



#### project

#### unit

#### HM855

#### JHM866

#### HM1166

project	unit	HM855	JHM866	HM1166
XY/Z-axis travel	mm	800/500/550	850/600/600	1100/600/600
Distance from spindle end to workbench	mm	100-650	100-700	100-700
Distance from spindle center to column guide rail surface	mm	560	650	650
Workbench size (length x width)	mm	1000x500	1000x550	1200x550
T-groove (number size spacing)	mm	4-18-105	5-18-100	5-18-100
Permissible load	kg	800	800	1000
Spindle cone hole - outer diameter	No.	BT40	BT40- $\Phi$ 150	BT40- $\Phi$ 150
Maximum spindle speed	r/min	12000	12000	12000
Maximum power of spindle motor	kw	11	Mitsubishi: 11/Fanuc: 15	Mitsubishi: 11/Fanuc: 15
X/Y/Z axis fast movement speed	m/min	30/30/30	36/36/36	36/36/36
Maximum chip speed	mm/min	10000	10000	10000
Tool magazine (option)		Disk tool magazine	Disk tool magazine	Disk tool magazine
Number of tools	T	24	24	24
positioning accuracy	mm	$\pm$ 0.005/300	$\pm$ 0.005/300	$\pm$ 0.005/300
Repetitive positioning accuracy	mm	$\pm$ 0.003	$\pm$ 0.003	$\pm$ 0.003
Machine weight	kg	5500	6000	6800
Overall dimensions (length/width/height)	mm	2500/2800/2800	2400/2800/2900	2860/2850/2900

Control system

Mitsubishi M80/FANUCOI-MF PLUS/Siemens 828D

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## HM M1270/ M1480/ M1680

### HEAVY CUTTING INTEGRATED MACHINING CENTER SERIES

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**THE BEST TOOL FOR PRECISION MOLDS, MOLD BLANKS, AND PARTS PROCESSING!**

### Industry Applications



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ADVANCED DESIGN CONCEPT AND  
HIGH RIGIDITY STRUCTURE,  
ACHIEVING HIGH SPEED, PRECISION,  
AND STABILITY

## HM M1270/M1480/M1680



**MULTIPLE CONFIGURATION OPTIONS FOR YOU TO CHOOSE FROM**

Precision parts and precision mold processing industries are available for selection

BT40 medium 150 direct 12000/15000rpm Spindle, achieving high-speed and high-precision machining



Top "high-rigidity structure design" high-speed stability,extraordinary efficiency

item	unit	HMM1270	HMM1480	HMM1680
XYZ axis stroke	mm	1200/700/700	1400/800/700	1600/800/700
Distance from spindle end to workbench	mm	100-800	100-800	100-800
Distance from spindle center to column guide rail surface	mm	780	880	880
Workbench size (length x width)	mm	1400x700	1600x800	1800x800
T-groove (number size spacing)	mm	5-18-125	5-18-125	5-18-125
Permissible load	kg	1200	1500	1800
Spindle cone hole - outer diameter	No.	BT50-Φ190	BT50-Φ190	BT50-Φ190
Maximum spindle speed	r/min	6000	6000	6000
Maximum power of spindle motor	kw	18.5	18.5	18.5
XYZ axis fast movement speed	m/min	Mitsubishi 30/30/30; Fanuc 20/20/20		
Maximum chip speed	mm/min	10000	10000	10000
Tool magazine (option)		Disk tool magazine	Disk tool magazine	Disk tool magazine
Number of tools	T	24	24	24
positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300
Repetitive positioning accuracy	mm	±0.003	±0.003	±0.003
Machine weight	kg	11500	13500	14500
Overall dimensions (length/width/height) (including chip conveyor)	mm	4500/2900/3200	4800/2950/3200	5300/2950/3200

Mitsubishi M80/FANUC OI-MF PLUS/Siemens 828D

## **HM G700**

### **GANTRY HIGH-SPEED MACHINING CENTER**

- This machine adopts a high rigidity fixed beam gantry structure and is equipped with an HSKA6320000rpm electric spindle, which perfectly combines high-speed and high rigidity. It is particularly suitable for high-speed and high-precision processing of small and medium-sized molds and related industrial parts.
- Gantry structure, overweight body design, and good machine tool stability.
- The integrated design of columns and crossbeams reduces the deformation of the machine tool, making it more stable.
- The three axis adopts precise linear guide rails, with fast displacement speed and high accuracy.
- Using a high-speed spindle, with high rotational speed and good accuracy.
- Fully enclosed external design reduces environmental pollution caused by oil mist generated by high-speed machining.



**SMALL AND MEDIUM-SIZED MOLD PROCESSING BEST WEAPON!**

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**GANTRY STRUCTURE, COMBINING RIGIDITY AND SPEED, CAN ACHIEVE HIGH PRECISION AND HIGH SMOOTHNESS**

**HM G700**

**Optional configuration**

**Internal high-speed spindle**



**HEIDENHAIN grating ruler**



**Industry Applications**



item	unit	HMG700
X/Y/Z axis travel	mm	700/600/450
Door width	mm	900
Distance from spindle end to workbench	mm	100-550
Workbench area (length x width)	mm	800x600
Permissible load	kg	1000
Spindle specifications		HSKA63/Φ150electric spindle
Maximum spindle speed	r/min	20000
Spindle motor power	kw	20
X/Y/Z axis fast movement speed	m/min	30/30/30
Maximum chip speed	mm/min	10000
Number of tools	T	16
Positioning accuracy (JIS standard)	mm	±0.005/300
Repetitive positioning accuracy	mm	±0.003
Machine weight	kg	6800
Machine tool dimensions (length/width/height)	mm	2400/2600/2600
Control system		Siemens 828D/Fanuc OI-MF PLUS



## HIGH-SPEED COPPER MACHINE ENGRAVING AND MILLING MACHINE SERIES

- The high-speed copper milling machine has undergone multiple optimization and improvement of the drilling and tapping structure, which can greatly improve the copper quality. The carving and milling machine adopts a gantry structure, which has the characteristics of heavy bed weight and stable movement; The spindle is equipped with a 24000rpm electric spindle as standard, and a 12T industrial tool magazine is optional.
- The design of high-speed ceramic spindle bearings ensures very high surface smoothness and accuracy of the machined workpiece
- The use of Taiwan made P-grade ball screws and C3 grade linear slide rails for three axes improves the stability and service life of the machine tool.



### Industry Applications



#### project

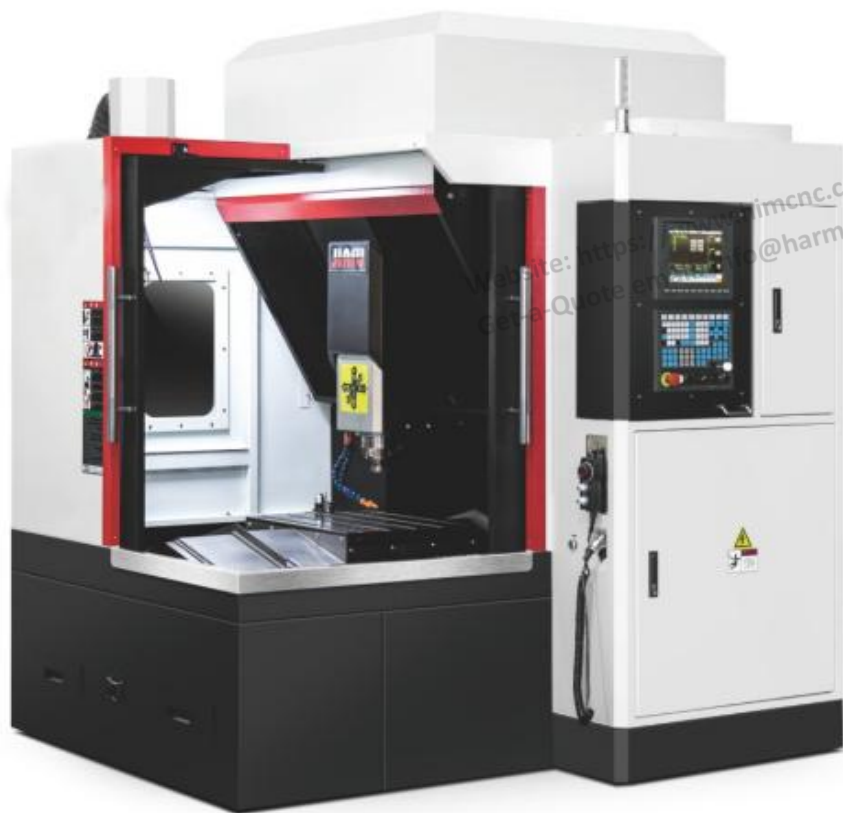
	unit	HMTG600
X/Y/Z axis travel	mm	600/420/330
Distance from spindle end to workbench	mm	150-480
Workbench area (length x width)	mm	720x400
Permissible load	kg	350
Spindle taper hole	No.	BT30
Maximum spindle speed	R/min	20000
Spindle motor power	kw	5.5
XY billion axis fast moving speed	m/min	30/30/30
Maximum chip speed	mm/min	8000
Number of tools	T	16/21
positioning accuracy	mm	±0.005/300
Repetitive positioning accuracy	mm	±0.003
Machine weight	kg	3800
External dimensions of machine dimple handle support (length/width/height)	mm	1900/2400/2700
Control system		FANUC OI-ME PLUS

THE PERFECT COMBINATION OF HIGH SPEED AND HIGH STABILITY

Multifunctional engraving and milling machine integrating heavy cutting and high-speed displacement

**HM DX650/DX870/DX1080**

**Industry Applications**



project	unit	HMDX650	HMDX870	HMDX1080
X/Y/Z axis travel	mm	600/500/280	800/700/350	1000/800/400
Door width	mm	740	750	950
Distance from spindle end to workbench	mm	50-330	50-400	130-630
Workbench area (length x width)	mm	600x500	800x690	1000x800
Permissible load	Kg	300	400	2000
Spindle taper hole	No.	ER32/BT30	ER32/BT30	ER32/BT30
Maximum spindle speed	r/min	24000	24000	24000
Spindle motor power	kw	5.5	7.5	7.5
XYZ axis fast movement speed	m/min	15/15/15	15/15/15	24/24/24
Maximum chip speed	mm/min	8000	8000	8000
Number of tools	T	12	12	12
positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300
Repetitive positioning accuracy	mm	±0.003	±0.003	±0.003
Machine weight	kg	3800	5000	6500
Machine tool dimensions (length/width/height)	mm	2200/2000/2400	2400/2100/2400	3400/2100/2600
Control system		New generation 21MA/Mitsubishi E80		

## HIGHSPEEDGANTRY MACHINING CENTER SERIES

- Equipped with XN/Z three axis heavy-duty roller track as standard, equipped with BT4012000RPM direct spindle, it can achieve high-speed, high-precision, and high-gloss processing
- The high rigidity gantry fixed beam structure comprehensively improves the weakness of large vertical reinforcement with high precision and heavy load deformation.
- Part type high-speed gantry is suitable for high-speed and high-efficiency machining requirements in fields such as new energy and aviation parts automation equipment accessories, while mold type high-speed gantry is suitable for high-speed and high-precision machining requirements of various precision molds.



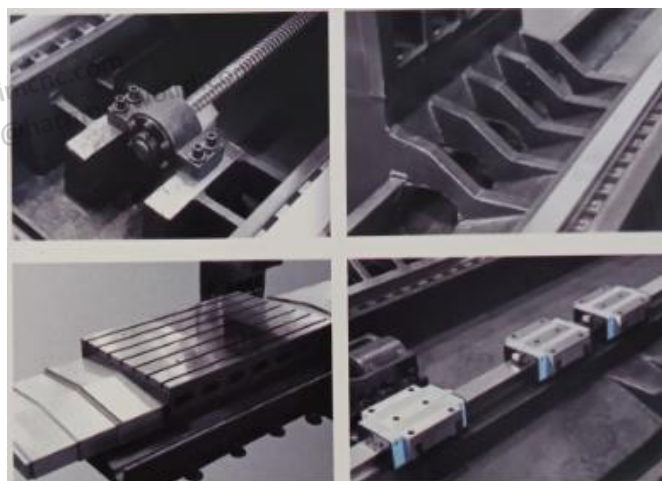
project	unit	High speed part type gantry machining center				
		HMLM1614F	HMLM2016F	HMLM2516F	HMLM3016F	HMLM2518F
Workbench area (length x width)	mm	1700x1200	2200x1400	2600x1400	3100x1400	2600x1600
Permissible load	kg	3500	4000	4000	4500	4000
XYZ axis stroke	mm	1650/1400/70	2100/1650/7	2500/1650/70	3100/1630/7	2600/1800/7
		0	00	0	00	00
Door width	mm	1420	1650	1650	1650	1850
Distance from spindle end to workbench	mm	150-850	150-850	150-850	150-850	150-850
Spindle taper hole	No.	BT40	BT40	BT40	BT40/BT50	BT40/BT50
Maximum spindle speed	r/min	12000	12000	12000	12000/6000	12000/6000
Maximum power of spindle motor	kw	15	15	15	15/18.5	15/18.5
XYZ axis fast movement speed	m/min	24/24/24	24/24/24	24/24/24	24/24/24	24/24/24
Maximum chip speed	mm/min	8000	8000	8000	8000	8000
Number of tools	T	24	24	24	24	24
positioning accuracy	mm	0.02/1000	0.02/1000	0.02/1000	0.02/1000	0.02/1000
Repetitive positioning accuracy	mm	0.015	0.015	0.015	0.015	0.015
Machine weight	T	15	18.5	21	23	22
Overall dimensions (length/width/height)	mm	4900/3900/37	5900/4100/3	7000/4100/37	8100/4100/3	7000/4900/3
		00	700	00	700	700
Control system		Mitsubishi M80/Fanucui-MF PLUS				

CREATE BRAND CHARACTERISTICS,  
DRIVE THE DEVELOPMENT OF ENTERPRISES  
WITH INTEGRITY,  
THE NEEDS OF USERS ARE OUR ETERNAL

**HM LM1614F/2016F/2516F/3016F/  
HM LM2518/2520F/  
HM LM3020F/1613H/2015H**



Optimal rigid structure configuration



Door type high-speed body structure, both high-speed and stability of the perfect match

project	unit	High speed part type gantry machining center			High speed mold type gantry	
		HMLM3018F	HMLM2520F	HMLM3020F	HMLM1613H	HMLM2015H
Workbench area (length x width)	mm	3100x1600	2600x1700	3100x1700	1700x1200	2100x1200
Permissible load	kg	4000	6000	6000	3000	4000
XNIZ axis stroke	mm	3200/1800/700	2500/2020/900	3000/2020/900	1600/1300/600	2000/1500/600
Door width	mm	1850	2020	2020	1400	1520
Distance from spindle end to workbench	mm	150-850	200-1100	200-1100	200-800	200-800
Spindle taper hole	No.	BT40/BT50	BT40/BT50	BT40/BT50	BT40	BT40
Maximum spindle speed	r/min	12000/6000	12000/6000	12000/6000	12000	12000
Maximum power of spindle motor	kw	15/18.5	15/18.5	15/18.5	15	15
XIYIZ axis fast movement speed	m/min	24/24/24	24/24/24	24/24/24	24/24/24	24/24/24
Maximum chip speed	mm/min	8000	8000	8000	8000	8000
Number of tools	T	24	24	24	24	24
positioning accuracy	mm	0.02/1000	0.02/1000	0.02/1000	0.02/1000	0.02/1000
Repetitive positioning accuracy	mm	0.015	0.015	0.015	0.015	0.015
Machine weight	T	25	27	30	14.5	18.5
Overall dimensions (length/width/height)	mm	8100/4900/370	7000/4900/420	8200/4900/420	4600/3500/400	5900/4400/400
Control system		Mitsubishi M80/Fanuc OI-MFPLUS				



## HEAVYGANTRY MACHINING CENTER SERIES

- The standard configuration is the XY axis heavy-duty roller track, and the Z axis adopts a rectangular slide rail with high accuracy and strong seismic resistance.
- The Z-axis adopts hydraulic nitrogen balance to ensure stability when moving up and down
- Optional gear reduction box and gear type spindle box for high-strength cutting.



High-precision performance mechanism to achieve the best feed thrust and cutting rigidity of the whole machine

### Industry Applications



High rigidity structural design, combined with the high-precision indicators of the five sided machining center machine, creates a comprehensive and efficient cutting with a solid structure and excellent geometric accuracy.

**LOW NOISE/LOW FRICTION**

Heavy duty, high-efficiency, and high-precision gantry, with strict quality, surpassing the competitive standards of peers.

**HM LM2016/2516/3016**

**HM LM2018/2518/3018/3518**

**HM LM3022/4022/5022/3025**

**HM LM4025/5025/6025/6032**

Optional door width



Various Door Width /Various Travel Choice.Can Satisfy Different Machining Requirement

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Roller guide rail

Stepped crossbeam



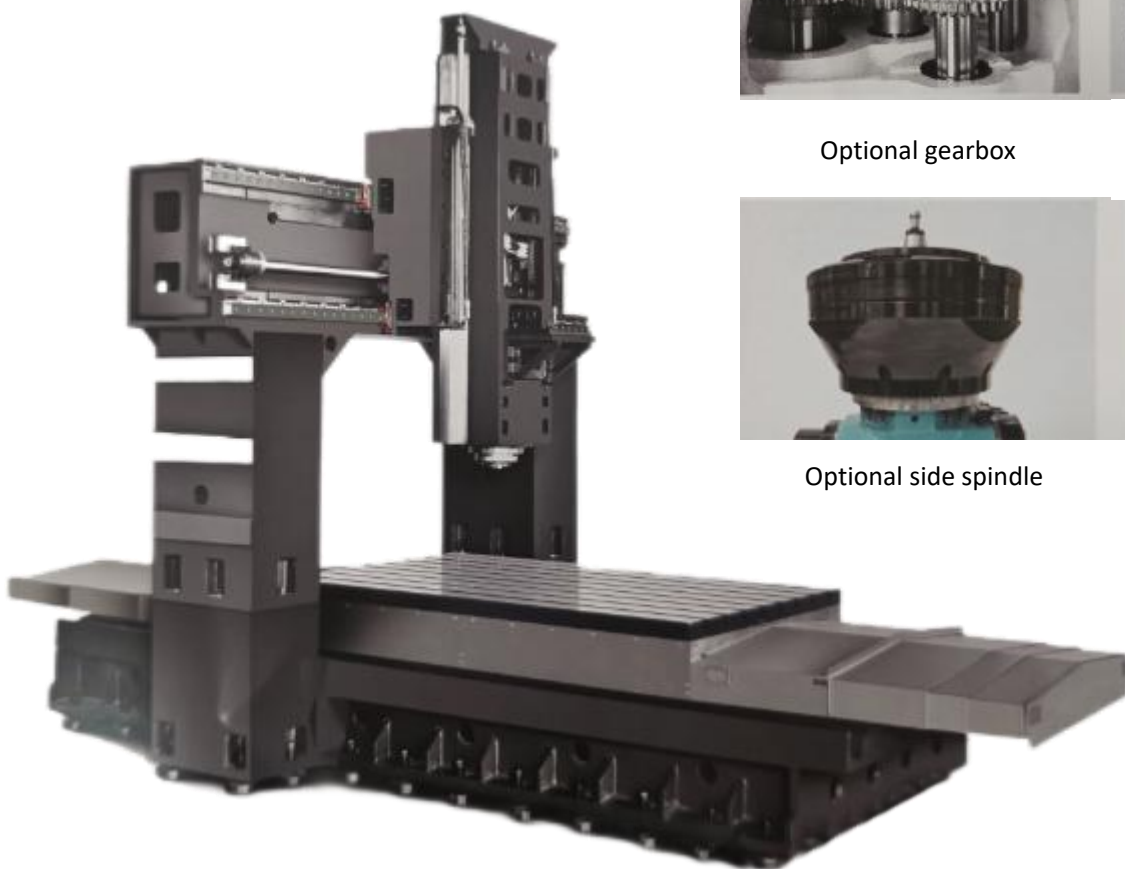
Optional gearbox

Optional direct connection spindle



Optional side spindle

Optional five axis head



# HMWTECH CO.,LTD

## HEAVY GANTRY MACHINING CENTERSERIES

### Model technical specifications

project	unit	Heavy duty gantry machining center		
		HMLM2016	HMLM2516	HMLM3016
Workbench area (length x width)	mm	2000x1300	2500x1300	3000x1300
T-groove mesh	mm	7	7	7
Permissible load	kg	4000	5000	6000
X/Y/Z axis travel	mm	2000/1650/800	2500/1650/800	3000/1650/800
Door width	mm	1660	1660	1660
Distance from spindle end to workbench	mm	250-1050	250-1050	250-1050
Spindle taper hole	No.	BT50	BT50	BT50
Maximum spindle speed	r/min	6000	6000	6000
Maximum power of spindle motor	kw	18.5	18.5	18.5
feed	X/Y-axis heavy-duty roller track, Z-axis rectangular plastic coated guide rail			
X/Y/Z axis fast movement speed	m/min	20/20/16	16/16/16	16/16/16
Maximum chip speed	mm/min	8000	8000	8000
Number of tools	T	24	24	24
positioning accuracy	mm	0.02/1000	0.02/1000	0.02/1000
Repetitive positioning accuracy	mm	0.015	0.015	0.015
Machine weight	T	19	21	23
Control system	Mitsubishi M80/Fanuc OI-MF PLUS/Siemens 828D			

project	unit	Heavy duty gantry machining center			
		HMLM2018	HMLM2518	HMLM3018	HMLM3518
Workbench area (length x width)	mm	2000x1600	2500x1600	3000x1600	3500x1600
T-groove mesh	mm	9	9	9	9
Permissible load	kg	6000	7000	8000	9000
X/Y/Z axis travel	mm	2000/2000/1000	2500/2000/1000	3000/2000/1000	3500/2000/1000
Door width	mm	1800	1800	1800	1800
Distance from spindle end to workbench	mm	150-1150	150-1150	150-1150	150-1150
Spindle taper hole	No.	BT50	BT50	BT50	BT50
Maximum spindle speed	r/min	6000	6000	6000	6000
Maximum power of spindle motor	kw	18.5	18.5	18.5	18.5
feed	X/Y-axis heavy-duty roller track, Z-axis rectangular plastic coated guide rail				
X/Y/Z axis fast movement speed	m/min	16/16/16	16/16/16	16/16/16	16/16/16
Maximum chip speed	mm/min	8000	8000	8000	8000
Number of tools	T	24	24	24	24
positioning accuracy	mm	0.02/1000	0.02/1000	0.02/1000	0.02/1000
Repetitive positioning accuracy	mm	0.015	0.015	0.015	0.015
Machine weight	T	21	23	26	29
Control system	Mitsubishi M80/Fanuc OI-MF PLUS/Siemens 828D				

Website: <https://www.himcnc.com>

Get-a-Quote email: [info@harmonywolrd.com](mailto:info@harmonywolrd.com)

# HMWTECH CO.,LTD

project	unit	Heavy duty gantry machining center			
		HMLM3022	HMLM4022	HMLM5022	HMLM3025
Workbench area (length x width)	mm	3000x2000	4000x2000	5000x2000	3000x2300
T-groove mesh	mm	9	9	9	11
Permissible load	kg	10000	12000	14000	10000
X/Y/Z axis travel	mm	3000/2200/1000	4000/2200/1000	5000/2200/1000	3000/2700/1000
Door width	mm	2300	2300	2300	2700
Distance from spindle end to workbench	mm	280-1280	280-1280	280-1280	280-1280
Spindle taper hole	No.	BT50	BT50	BT50	BT50
Maximum spindle speed	r/min	6000	6000	6000	6000
Maximum power of spindle motor	kw	22	22	22	22
feed	X/Y-axis heavy-duty roller track, Z-axis rectangular plastic coated guide rail				
X/Y/Z axis fast movement speed	m/min	16/16/16	16/16/16	16/16/16	16/16/16
Maximum chip speed	mm/min	8000	8000	8000	8000
Number of tools	T	24	24	24	<b>24</b>
positioning accuracy	mm	0.02/1000	0.02/1000	0.02/1000	0.02/1000
Repetitive positioning accuracy	mm	0.015	0.015	0.015	0.015
Machine weight	T	34.8	38.5	45	37
Control system	Mitsubishi M80/Fanuc Oi-MF PLUS/Siemens 828D				

project	unit	Heavy duty gantry machining center			
		HMLM4025	HMLM5025	HMLM6025	HMLM6032
Workbench area (length x width)	mm	4000x2300	5000x2300	6000x2300	6000x2500
T-groove mesh	mm	11	11	11	11
Permissible load	kg	12000	15000	18000	25000
X/Y/Z axis travel	mm	4000/2700/1000	5000/2700/1000	6000/2700/1000	6000/3200/1250
Door width	mm	2700	2700	2700	3200
Distance from spindle end to workbench	mm	280-1280	280-1280	280-1280	250-1250
Spindle taper hole	No.	BT50	BT50	BT50	BT50
Maximum spindle speed	r/min	6000	6000	6000	6000
Maximum power of spindle motor	kw	22	26	26	26
feed	X/Y-axis heavy-duty roller track, Z-axis rectangular plastic coated guide rail				
X/Y/Z axis fast movement speed	m/min	16/16/16	16/16/16	16/16/16	16/16/16
Maximum chip speed	mm/min	8000	8000	8000	8000
Number of tools	T	24	24	24	24
positioning accuracy	mm	0.02/1000	0.02/1000	0.02/1000	0.02/1000
Repetitive positioning accuracy	mm	0.015	0.015	0.015	0.015
Machine weight	T	43	47	55	86
Control system	Mitsubishi M80/Fanuc Oi-MF PLUS/Siemens 828D				



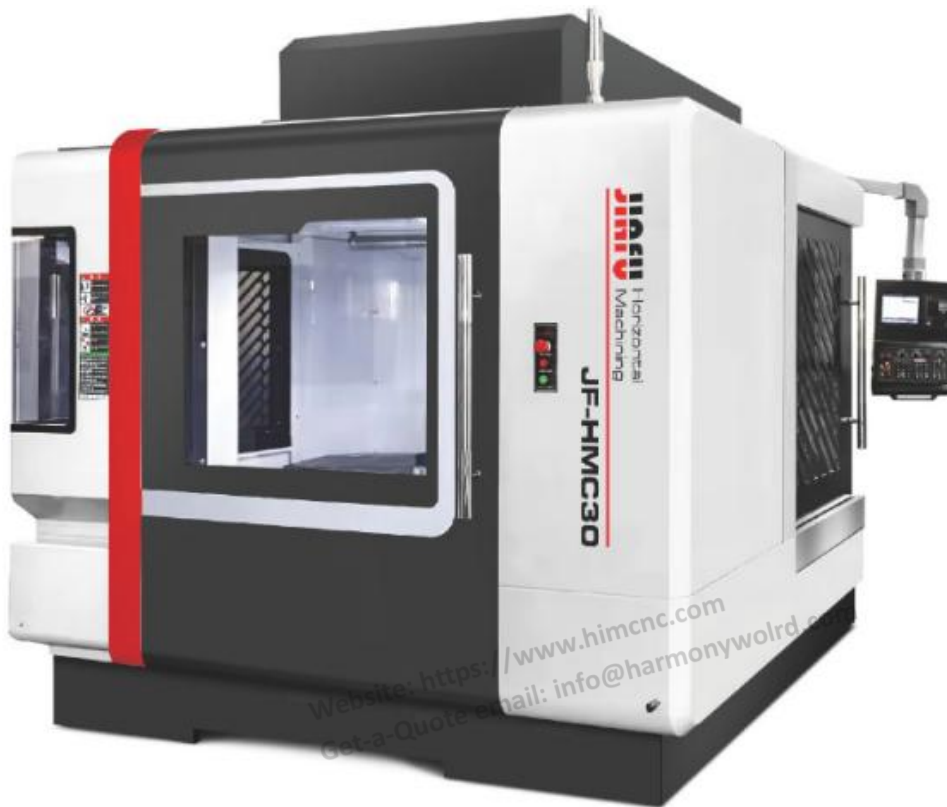
## HORIZONTAL MACHINING CENTER SERIES

### High speed horizontal machining center series

- The standard configuration is an X/Y/Z three axis heavy-duty roller track, equipped with a 20000/12000RPM direct spindle, which can achieve high-speed, high-precision, and high-gloss processing.
- Equipped with a high-precision CNC turntable, it can achieve one-time clamping, multiple processes, and multiple surfaces for one-time processing.

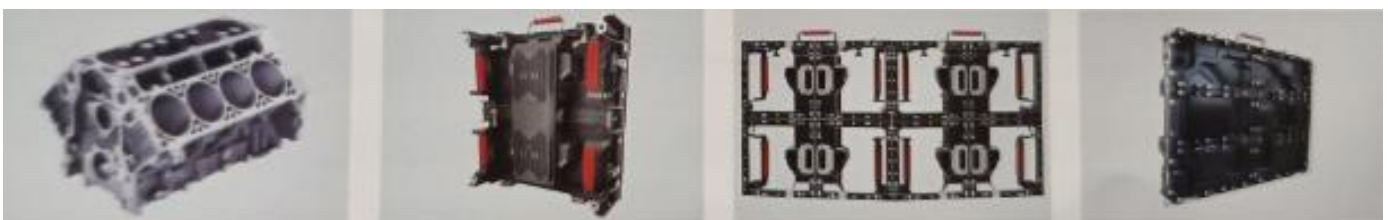
### Horizontal machining center series for mold dolphin processing

- Standard X/Z axis rail and Y axis hard rail, with stable accuracy and strong seismic resistance
- Adopting a high rigidity bed structure with high cost-effectiveness, it is the preferred model for processing in the mold embryo industry.



**MultiSurface Machining, High Efficiency and High Precisor**

### Industry Applications



Single clamping, multi sided processing, higher efficiency

**HMC30/HMC50/HMC80**

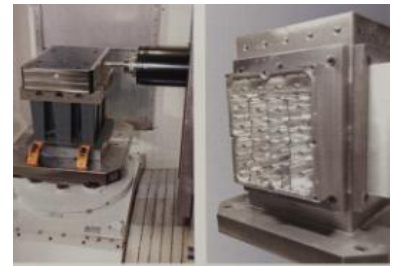
**HM LW1075/LW1290/LW1814**



- Multiple base structures, suitable for the processing needs of different products
- Multiple processing can be achieved after one installation.
- Multiple processing can be achieved after one installation.
- Three axes adopt linear wave column guide rails, with fast speed, high accuracy, and good rigidity



Multiple exchange workstations (optional)



Processing partial drawing

Processing work piece

project	unit	High speed horizontal machining center			Special horizontal machining center for mold embryo processing		
		HMC30	HMC50	HMC80	HMLW1075	HMLW1290	HMLW1814
Workbench area (length x width)	mm	424x396	585x390	800x600	1300x600	1360x700	2000x900
Optional rotary table size	mm	Φ210	Φ320	Φ320			
Permissible load	kg				800	1000	1600
XY/Z-axis travel	mm	500/450/450	800/600/600	1100/600/600	1000/750/600	1200/900/700	1800/1400/900
Spindle end face to workbench center	mm	100-550	120-750	180-780	70-820	70-970	30-1430
Spindle center to workbench surface	mm	0-450	0-600	140-710	50-650	160-860	200-1100
Spindle awl	No.	BT30	BT40	BT40	BT50	BT50	BT50
Maximum spindle speed	r/min	20000	12000	12000	6000	6000	6000
Maximum power of spindle motor	kw	5.5	11	11	15	18.5	18.5
feed		X/Y/Z three axis heavy-duty roller track			X/Z-axis heavy-duty rail, Y-axis hard rail		
X/Y/Z billion axis fast moving speed	m/min	48/48/48	48/36/48	36/36/36	24/16/24	24/16/24	24/16/24
Maximum chip speed	mm/mi	10000	10000	10000	8000	8000	8000
	n						
Number of tools	T	24	24	24	24	24	24
positioning accuracy	mm	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300	±0.005/300
Repetitive positioning accuracy	mm	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003
Machine weight	Kg	4500	6000	7500	7500	10000	14500
Control system		Mitsubishi M80/Fanuc OI-MF PLUS					