



WEIDA

山东威达精工

SHANDONG WEIDA PRECISION INTELLIGENT MACHINERY CO., LTD.

产品领先 品牌驱动 全球经营

PRODUCT LEADERSHIP BRAND DRIVEN GLOBAL OPERATION

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Weida Website



Tiktok International



Tiktok China



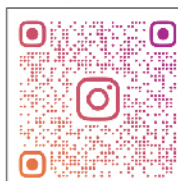
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HORIZONTAL MACHINING CENTER

2025

30 强 机床工具 TOP 30 MACHINE TOOL

使命 THE MISSION

CREATE VALUE FOR CUSTOMERS
AND DEVELOP WITH THEM

愿景 THE VISION

WE ARE COMMITTED TO
BECOME AN INTERNATIONAL
RESPECTED MACHINE TOOL
MANUFACTURER



真诚合作

SINCERE
COOPERATION



共同发展

MUTUAL
DEVELOPMENT



Company Profile

Situated in the scenic hometown of Mo-tse — Tengzhou city, Shandong Province, Shandong Weida Precision Intelligent Machinery Co., Ltd. is a large-scale joint-stock enterprise with the right of Import&Export. It covers an area of 500,000 m², the building zone is about 350,000 m², and the total assets is more than RMB1 billion, there are 365 engineers, the main processing equipments are imported from Germany Waldrich Corburg guide grinder, Heckert, Heller and DMG horizontal machining center, Japan Okuma, New Japan SNK gantry type five-face boring and milling center, 132 sets of testing and debugging equipment. The company has set up a scientific research achievement transformation base in cooperation with Shandong University, cooperated with Huazhong University of Science and Technology in industry-university research, which composed of Technology research and Development Center, Information Data Processing Center, Product Inspection & Testing Center and Metrology room. In 2022, setting up a horizontal CNC machine tool engineering research center in Shandong Province.



Business Fields

In recent years, through the combination of absorbing advanced technology from abroad, cooperating with scientific research institutes and self-development and design, the main products have developed to 10 series: Automatic production line, Bridge type five-axis gantry machining center series, Gantry type/Vertical/Horizontal machining center series, CNC milling machine series, Horizontal boring and milling machine series, Radial drilling machine series, CNC lathe machine series, Milling/Drilling machine series, altogether more than 90 specifications. With stable capability & reliable quality, the products are widely sold both in home and abroad market, covering more than 70 countries and regions, especially Europe & America market.



Professional Certifications

WEIDA company pursues the quality strategy of creating famous brand and excellent reputation. It has obtained ISO9001:2015 Standard Quality System Certification, ISO14001:2015 Environmental Management System Certification, ISO45001:2018 Occupational Health And Safety Management System Certification from CQC accreditation body; EU "CE" certification; National High-tech Enterprise; Shandong Province "Specialized and Special New" Enterprise; In 2022, we passed the certification of two integration management system.

From 2011 to 2021, we were multiply honored as one of the "Top 10 Export Enterprises in China Machine Tool Industry"; In 2014, the company undertook the Science and Technology Major Special Project of "National High-grade CNC Machine Tools and Basic Manufacturing Equipment"; The XH2130 CNC Gantry Boring and Milling Center and DMC1300 Gantry Machining Center independently designed and developed by WEIDA won the "National Chunyan Award"; it was awarded as one of the Top 30 Enterprises in China Machine Tool Industry for three consecutive years in 2015, 2016 and 2017.



品质&精度

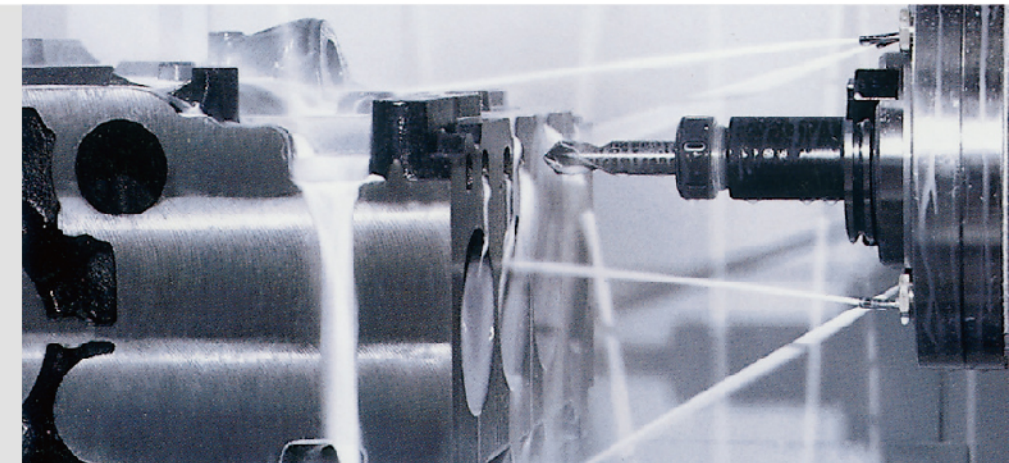
QUALITY ACCURACY

THE RELENTLESS PURSUIT OF QUALITY AND PRECISION IS THE CHARACTERISTICS OF WEIDA AND ITS STAFF



产品展示目录

PRODUCT CATALOGUE



05-08

精密卧式加工中心系列

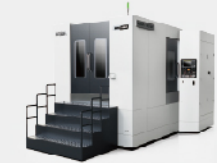
Precision horizontal machining center series



09-10

正T卧式加工中心系列

Positive T horizontal machining center series



11-20

倒T卧式加工中心系列

Inverted T horizontal machining center series



21-22

落地式五面体加工中心

Floor-Type 5-Face Machining Center



23-24

数控刨台式镗铣床

CNC planer type boring and milling machine



25-26

卧式加工中心柔性生产线

Flexible production line with horizontal machining center



性能特点 PERFORMANCE

- It is suitable for processing spare parts in automobile, ship, metallurgical mine, machine tool manufacture and other industries, especially in box type and complicated parts.
- This machine is a double-pallet precision horizontal machining center with a three-point support positive T-bed, fully closed-loop control, automatic table exchange, table automatic indexing , spindle speed stepless change, automatic tool change, etc.
- The machine has high efficiency, high precision, high rigidity, etc. It is a good equipment to improve the efficiency and flexibility of parts processing, and also good for large and medium batch parts processing.

Specifications	Unit	HMC630h	HMC800h
Table size	mm	630X630	800X800
Number of table	pc	2	2
Max. table load	kg	1200	2000
Min. indexing unit	°	1	1
Max. speed of turning table	rpm	11.1	16.7
X axis travel	mm	1100	1300
Y axis travel	mm	900	1100
Z axis travel	mm	950	1200
Distance from the spindle center to table surface	mm	50-950	50-1150
Distance from the spindle nose to table center	mm	150-1100	150-1350
Max. workpiece swing diameter	mm	φ 1000	φ 1200
Spindle taper	--	BT50	BT50
Max. spindle speed	rpm	6000	6000
Main motor power	kW	22/26	22/36
Spindle torque	N.m	140/286	140/286
Max. taping dia in casting	mm	M30	M30
Max. taping dia in carbon steel	mm	M24	M24
X/Y/Z/B servo motor power	kW	7/7/7/4	7/7/7/4
Tool magazine type	--	Am type	Am type
Tool magazine capacity	pcs	45	45
Max. tool dia(full/empty)	mm	125/250	125/250
Max. tool length	mm	400	400
Max. tool weight	kg	25	25
Min. time of tool exchange (T-T)	s	3.7	3.7
Rapid feed speed (X/Y/Z)	mm/min	60000/60000/60000	48000/48000/48000
Cutting feed speed (X/Y/Z)	mm/min	1-12000/1-12000/1-12000	1-12000/1-12000/1-12000
Positioning accuracy (X/Y/Z)	mm	0.006/0.006/0.006	0.008/0.008/0.008
Positioning accuracy (B)	"	8	8
Repeat positioning accuracy (X/Y/Z)	mm	0.003/0.003/0.003	0.004/0.004/0.004
Repeat positioning accuracy (B)	"	2	2
Power capacity	kVA	50	50
Machine weight	kg	20000	23000
Overall dimensions	mm	6300X4300X3500	8300X4500X3800

HIGH PRECISION HORIZONTAL MACHINING CENTER

HMC800h

HMC630h

CNC PRECISION HORIZONTAL MACHINING CENTER

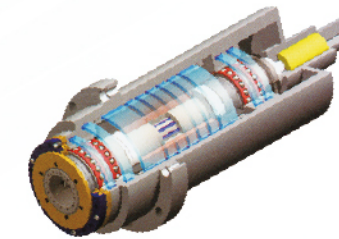
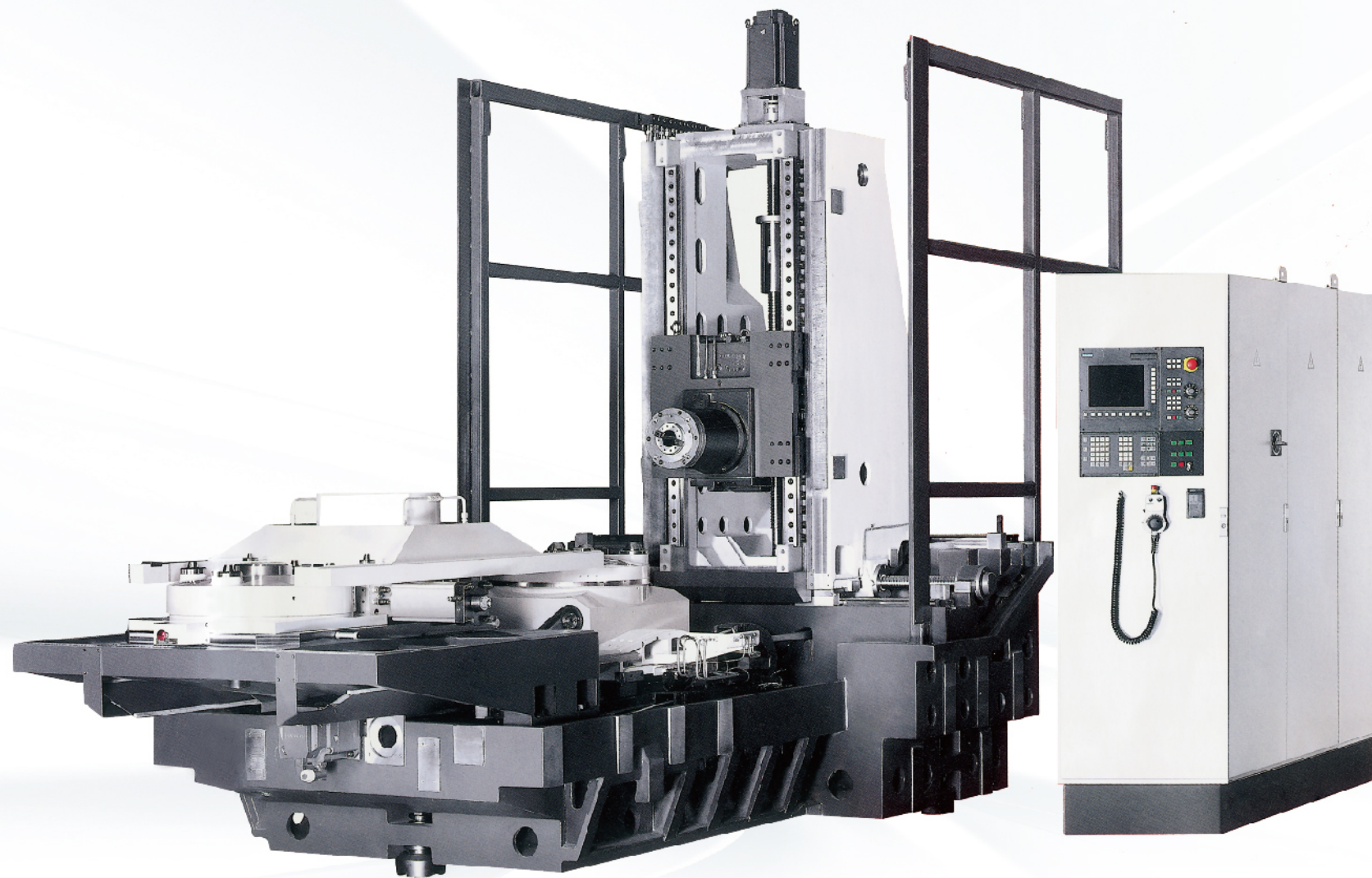


标准配置 STANDARD

- FANUC 0i-MF PLUS or Siemens 828D CNC controller
- Max. Spindle speed 6000rpm
- Germany ZF Gear box
- 45pcs arm type tool magazine
- All axis with Heidenhain linear scales
- Constant temperature oil cooling for spindle and gear box
- Double pallet
- 3 axis hollow type ball screw with oil cooling

选择配置 OPTION

- Siemens one, Fanuc 31i CNC controller
- Germany Kessler electric spindle
- Spindle internal cooling

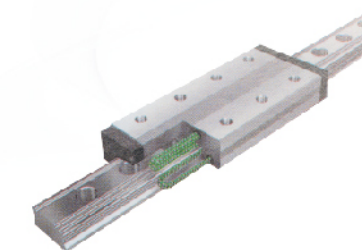
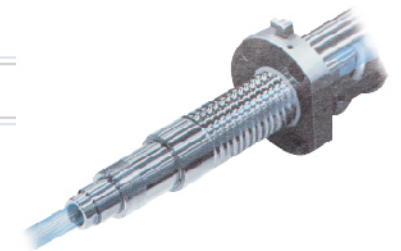


Spindle center cooling

It adopts an adjustable temperature oil cooling circulation device in the spindle core and sleeve parts which can inhibit the thermal changes caused by heat in these parts and make sure machining accuracy.

Hollow ball screw

The cooling oil is circulated through ball screw shaftcore to suppress the impact of heating on the lead screw and the servo motor rapidly during high-speed feeding, to realize a stable machining accuracy.

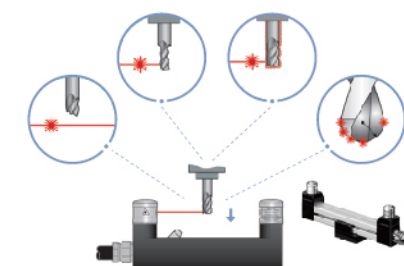


Adopting precision heavy-duty linear guide way

With high stability, high rigidity, and durability, it can not only achieve high-speed, durable, and smooth movement, but also have the characteristics of maintaining good accuracy and high-quality processing.

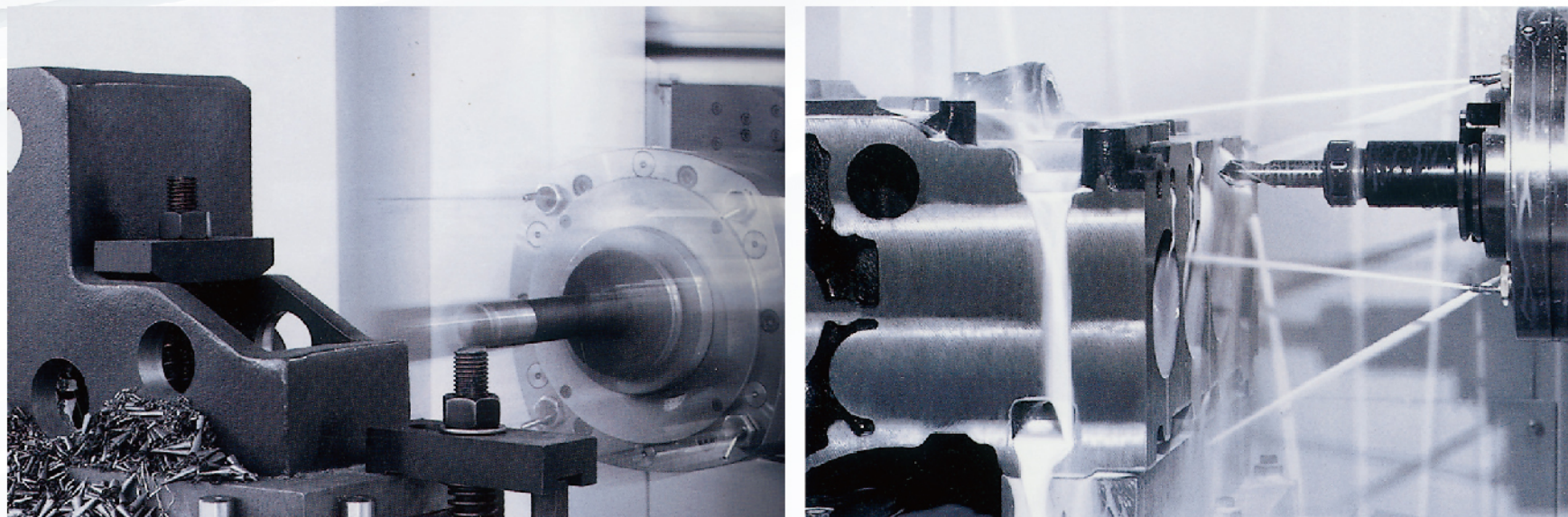
Linear axis and rotary axis are equipped with high-precision linear scales as standard.

Installation of high-precision scales on all X, Y, Z and B axes to avoid the influence of thermal displacement on machining accuracy by detecting the absolute position.



Tool length measurement by Laser

It can achieve micro tool length measurement that traditional contact-type tool length measuring instruments cannot complete. The non-contact measurement is working by using a laser beam, the tool length and diameter are measured according to the actual processing tool rotations to ensure stable accuracy.



POSITIVE T TYPE HORIZONTAL MACHINING CENTER



HMC500
HMC1000
SINGLE/DOUBLE POSITIONS HORIZONTAL MACHINING CENTER

性能特点 PERFORMANCE

- Suitable for complex parts processing such as box parts, disk parts and molds. It is the ideal processing equipment for aviation, aerospace, military, automobile, environmental protection, mold, valve body and other industries.
- Positive T-type bed structure, large travel on three axes, wide machining range
- Movable column, positive hanging spindle box, compact overall machine structure, little thermal deformation, high rigidity, high precision

标准配置 STANDARD

- Fanuc 0i-MF Plus CNC controller
- 40pcs chain type tool magazine/30pcs arm type tool magazine
- Auto chip conveyor
- Taiwan 6000rpm spindle

选择配置 OPTION

- Siemens 828D control system
- Germany ZF gear box/Italy BF gear box
- Tool internal cooling system
- Arbitrary indexing rotary table

Specifications	Unit	HMC500	HMC500 (double positions)	HMC1000	HMC1000 (double positions)
Table size	mm	500X500	500X500	1000X1000	1000X1000
Number of table	pc	1	2	1	2
Max. table load	kg	500	500	3000	3000
Min. indexing unit	°	1	1	1	1
Max. speed of turning table	rpm	16.7	16.7	11.1	11.1
X axis travel	mm	800	800	1700	1700
Y axis travel	mm	650	650	1350	1350
Z axis travel	mm	800	800	1400	1400
Distance from the spindle center to table surface	mm	100-750	100-750	50-1400	50-1400
Distance from the spindle nose to table center	mm	150-950	150-950	300-1700	300-1700
Max. workpiece swing diameter	mm	φ 800	φ 800	φ 1600	φ 1400
Spindle taper	--	BT50	BT50	BT50	BT50
Max. spindle speed	rpm	5000	5000	5000	5000
Main motor power	kW	15/18.5	15/18.5	22/26	22/26
Spindle torque	N.m	191/235	191/235	770/1226	770/1226
Max. tapping dia in casting	mm	M24	M24	M36	M36
Max. tapping dia in carbon steel	mm	M20	M20	M30	M30
X/Y/Z/B servo motor power	kW	3/3/3/3	3/3/3/3	7/7/7/4	7/7/7/4
Tool magazine type	--	Arm type	Arm type	Chain type	Chain type
Tool magazine capacity	pcs	24	24	40	40
Max. tool dia(full/empty)	mm	125/250	125/250	125/250	125/250
Max. tool length	mm	400	400	400	400
Max. tool weight	kg	25	25	25	25
Tool change time (T-T)	s	3.7	3.7	4.5	4.5
Rapid feed speed (X/Y/Z)	mm/min	32000/32000/32000	32000/32000/32000	24000/24000/24000	24000/24000/24000
Cutting feed speed (X/Y/Z)	mm/min	1-12000/1-12000/1-12000	1-12000/1-12000/1-12000	1-12000/1-12000/1-12000	1-12000/1-12000/1-12000
Positioning accuracy (X/Y/Z)	mm	0.010/0.010/0.010	0.010/0.010/0.010	0.015/0.015/0.015	0.015/0.015/0.015
Positioning accuracy (B)	"	10	10	10	10
Repeat positioning accuracy (X/Y/Z)	mm	0.005/0.005/0.005	0.005/0.005/0.005	0.01/0.01/0.01	0.01/0.01/0.01
Repeat positioning accuracy (B)	"	2	2	2	2
Power capacity	kVA	40	40	50	55
Machine weight	kg	9000	10000	22000	25000
Overall dimensions	mm	5200X4100X3200	6200X4100X3200	6700X4500X3800	8500X4700X3800

Specifications	Unit	HMC1000w	HMC1200w
Table size	mm	1000X1000	1200X1200
Number of table	pc	1	1
Max. table load	mm	3000	5000
Min. indexing unit	°	1	1
Max. speed of turning table	rpm	11.1	5.5
X axis travel	mm	1600	2000
Y axis travel	mm	1200	1500
Z axis travel	mm	1300	1300
W axis travel	mm	500	500
W axis diameter	mm	φ 110	φ 110
Distance from the spindle center to table surface	mm	80-1280	30-1530
Distance from the spindle nose to table center	mm	-150-1650	-150-1650
Max. workpiece swing diameter	mm	φ 2000	φ 2200
Spindle taper	--	BT50	BT50
Max. spindle speed	rpm	2000	2000
Main motor power	kW	22/30	22/30
Spindle torque	N.m	957/1300	957/1300
Max. taping dia in casting	mm	M42	M42
Max. taping dia in carbon steel	mm	M36	M36
X/Y/Z/B servo motor power	kW	7/7/7/4	7/7/7/4
Tool magazine type	--	Hydraulic swing chain type	Hydraulic swing chain type
Tool magazine capacity	pcs	40	40
Max. tool dia(full/empty)	mm	125/250	125/250
Max. tool length	mm	400	400
Max. tool weight	kg	25	25
Min. time of tool exchange (T-T)	s	15	15
Rapid feed speed (X/Y/Z/W)	mm/min	18000/18000/18000/6000	18000/18000/18000/6000
Cutting feed speed (X/Y/Z/W)	mm/min	1-5000/1-5000/1-5000/1-5000	1-5000/1-5000/1-5000/1-5000
Positioning accuracy (X/Y/Z/W)	mm	0.020/0.015/0.015/0.010	0.020/0.015/0.015/0.010
Positioning accuracy (B)	"	10	10
Repeat positioning accuracy (X/Y/Z)	mm	0.012/0.010/0.010/0.006	0.012/0.010/0.010/0.006
Repeat positioning accuracy (B)	"	3	3
Power capacity	kVA	50	50
Machine weight	kg	25000	27000
Overall dimensions	mm	7100X4500X4100	7300X5050X4600

INVERTED T TYPE HORIZONTAL MACHINING CENTER

HMC1000w

HMC1200w

INVERTED T TYPE HORIZONTAL MACHINING CENTER

性能特点PERFORMANCE

- The X, Y and Z axis all adopt high strength roller linear guideway to ensure high rigidity of movement and positioning accuracy.
- The X,Y,Z three-axis rapid speed is 18m/min which is suitable for boring and milling of large box-type parts and for finishing of large molds.
- The main transmission uses an integrated two-speed gearbox and a hydraulic speed change mechanism to enable cutting in high speed full power and low speed high torque requirements.
- W-axis and main transmission gears, and bearings are equipped with a constant temperature oil cooling system to ensure constant accuracy and maintain product life.

标准配置STANDARD

- FANUC 0i-MF Plus CNC controller
- Two-speed gearbox
- 40 pcs horizontal hydraulic tool magazine
- Constant temperature oil cooling
- Full protection

选择配置OPTION

- Siemens 828D CNC controller
- High pressure cooling through spindle
- Table indexing 0.001°
- Heidenhain or Fagor linear scale

性能特点 PERFORMANCE

- It is suitable for processing spare parts in aerospace,automatic, mold-making,environmental protection equipment,valve and other industries,especially for box & disc type and complicated parts
- Inverted T type with large travel in three axes and wide machining range
- Mobile vertical hanging, positive hanging spindle box, the overall structure of the machine is compact, small thermal deformation, high rigidity, and high precision

标准配置 STANDARD

- Fanuc 0i-MF Plus CNC controller
- 40 pcs chain type tool magazine
- One-piece gear box
- Constant oil coolant

选择配置 OPTION

- Siemens 828D CNC controller
- Germany ZF gear box/Italy BF gear box
- Tool variable pressure internal cooling system
- 60 pcs chain type tool magazine
- Heidenhain or Fagor linear scale

Specifications	Unit	HMC1000D	HMC1200D	HMC1600D
Table size	mm	1000X1000	1200X1200	1600X1600
Number of table	pc	1	1	1
Max. table load	kg	3000	5000	10000
Min. indexing unit	°	1	1	0.001
Max. speed of turning table	rpm	11.1	5.5	2.5
X axis travel	mm	1600	2000	2500
Y axis travel	mm	1200	1500	2000
Z axis travel	mm	1300	1300	2000
Distance from the spindle center to table surface	mm	50-1250	30-1530	260-2150
Distance from the spindle nose to table center	mm	350-1650	350-1650	600-2100
Max. workpiece swing diameter	mm	φ 2000	φ 2200	φ 2500
Spindle taper	--	BT50	BT50	BT50
Max. spindle speed	rpm	3000	3000	3000
Main motor power	kW	22/30	22/30	30/37
Spindle torque	N.m	770/1050	770/1050	1650
Max. taping dia in casting	mm	M36	M36	M48
Max. taping dia in carbon steel	mm	M30	M30	M45
X/Y/Z/B servo motor power	kW	7/7/7/4	7/7/7/4	7/7/7/7
Tool magazine type	--	Hydraulic swing chain type	Hydraulic swing chain type	Hydraulic swing chain type
Tool magazine capacity	pcs	40	40	60
Max. tool dia(full/empty)	mm	125/250	125/250	125/250
Max. tool length	mm	400	400	400
Max. tool weight	kg	25	25	25
Min. time of tool exchange (T-T)	s	15	15	10
Rapid feed speed (X/Y/Z)	mm/min	18000/18000/18000	18000/18000/18000	10000/10000/10000
Cutting feed speed (X/Y/Z)	mm/min	1-10000/1-10000/1-10000	1-10000/1-10000/1-10000	1-5000
Positioning accuracy (X/Y/Z)	mm	0.020/0.015/0.015	0.020/0.015/0.015	0.020/0.020/0.020
Positioning accuracy (B)	"	10	10	10
Repeat positioning accuracy (X/Y/Z)	mm	0.01/0.01/0.01	0.01/0.01/0.01	0.012/0.012/0.012
Repeat positioning accuracy (B)	"	2	2	6
Power capacity	kVA	60	60	65
Machine weight	kg	24000	26000	52000
Overall dimensions	mm	7160X4760X4100	7300X5050X4600	8900X6700X6000

INVERTED T TYPE HORIZONTAL MACHINING CENTER



HMC1000D HMC1200D

HMC1600D

INVERTED T TYPE HORIZONTAL MACHINING CENTER

INVERTED T TYPE HORIZONTAL MACHINING CENTER



Spindle gear transmission

Through hydraulic shift changing automatically, it can realize two steps' speed changing, each shift is with stepless speed, the whole system is simple and reliable.



HMC800D

INVERTED T TYPE HORIZONTAL MACHINING CENTER

性能特点 PERFORMANCE

- Inverted T type horizontal machining center with high spindle speed, strong rigidity and big torque
- It is suitable for processing various types of box parts in two and three-dimensionals surface
- It is a key equipment for machining box parts in machinery ,automobile, ship, textile machinery, printing machinery, agricultural machinery and other industries

标准配置 STANDARD

- Fanuc 0i-MF Plus CNC controller
- One-piece gear box
- Max. Spindle speed 3000rpm, suit for heavy cutting
- 30pcs arm type tool magazine
- Spindle and gear box constant oil cooling

选择配置 OPTION

- Siemens 828D CNC controller
- Table indexing 0.001°
- Spindle internal cooling
- Germany ZF gear box/Italy BF gear box
- Two positions reciprocating exchange system
- Heidenhain or Fagor linear scale

Specifications	Unit	HMC800D
Table size	mm	800X800
Number of table	pc	1
Max. table load	kg	2000
Min. indexing unit	°	1
Max. speed of turning table	rpm	12.5
X axis travel	mm	1250
Y axis travel	mm	1000
Z axis travel	mm	1000
Distance from the spindle center to table surface	mm	80-1080
Distance from the spindle nose to table center	mm	150-1150
Max. workpiece swing diameter	mm	φ 1600
Spindle taper	--	BT50
Max. spindle speed	rpm	3000
Main motor power	kW	15/18.5
Spindle torque	N.m	540/860
Max. taping dia in casting	mm	M32
Max. taping dia in carbon steel	mm	M28
X/Y/Z/B servo motor power	kW	3/3/3/3
Tool magazine type	--	Arm type
Tool magazine capacity	pcs	30
Max. tool dia(full/empty)	mm	125/220
Max. tool length	mm	400
Max. tool weight	kg	25
Min. time of tool exchange (T-T)	s	5
Rapid feed speed (X/Y/Z)	mm/min	24000/24000/24000
Cutting feed speed (X/Y/Z)	mm/min	1-10000/1-10000/1-10000
Positioning accuracy (X/Y/Z)	mm	0.010/0.010/0.010
Positioning accuracy (B)	"	10
Repeat positioning accuracy (X/Y/Z)	mm	0.006/0.006/0.006
Repeat positioning accuracy (B)	"	2
Power capacity	kVA	35
Machine weight	kg	17000
Overall dimensions	mm	6000X4000X3600

性能特点 PERFORMANCE

- Inverted T type horizontal machining center with high spindle speed, strong rigidity and big torque
- It is suitable for processing various types of box parts in two- and three-dimensionals surface
- It is a key equipment for machining box parts in machinery ,automobile, ship, textile machinery, printing machinery, agricultural machinery and other industries

标准配置 STANDARD

- Fanuc 0i-MF Plus CNC controller
- One-piece gear box
- Max. Spindle speed 3000rpm, suitable for low speed heavy cutting
- 24pcs arm type tool magazine
- Spindle and gear box constant oil cooling

选择配置 OPTION

- Siemens 828D CNC controller
- Table indexing 0.001°
- Spindle internal cooling
- Germany ZF gear box/Italy BF gear box
- Two positions reciprocating exchange system
- Heidenhain or Fagor linear scale

Specifications	Unit	HMC630D	HMC630B
Table size	mm	630X630	630X630
Number of table	pc	1	1
Max. table load	kg	1200	1200
Min. indexing unit	°	1	0.001
Max. speed of turning table	rpm	16.6	11.1
X axis travel	mm	1000	1000
Y axis travel	mm	800	800
Z axis travel	mm	800	900
Distance from the spindle center to table surface	mm	100~900	60~860
Distance from the spindle nose to table center	mm	150~950	100~1000
Max. workpiece swing diameter	mm	φ 1200	φ 1200
Spindle taper	--	BT50	BT50
Max. spindle speed	rpm	3000	4000
Main motor power	kW	15/18.5	15/18.5
Spindle torque	N.m	540/860	472
Max. taping dia in casting	mm	M32	M30
Max. taping dia in carbon steel	mm	M28	M24
X/Y/Z/B servo motor power	kW	3/3/3/2.5	3/3/3/2.5
Tool magazine type	--	Arm type	Arm type
Tool magazine capacity	pcs	24	24
Max. tool dia(full/empty)	mm	125/220	105/200
Max. tool length	mm	350	350
Max. tool weight	kg	25	18
Min. time of tool exchange (T-T)	s	5	5
Rapid feed speed (X/Y/Z)	mm/min	24000/24000/24000	24000/24000/24000
Cutting feed speed (X/Y/Z)	mm/min	1~10000/1~10000/1~10000	1~10000/1~10000/1~10000
Positioning accuracy (X/Y/Z)	mm	0.010/0.010/0.010	0.010/0.010/0.010
Positioning accuracy (B)	"	10	15
Repeat positioning accuracy (X/Y/Z)	mm	0.005/0.005/0.005	0.005/0.005/0.005
Repeat positioning accuracy (B)	"	2	6
Power capacity	kVA	35	50
Machine weight	kg	15000	15000
Overall dimensions	mm	5800X3700X3170	5800X3700X3170

INVERTED T TYPE HORIZONTAL MACHINING CENTER



Spindle gear transmission

Through hydraulic shift changing automatically, it can realize two steps' speed changing, each shift is with stepless speed, the whole system is simple and reliable.



HMC630B

HMC630D

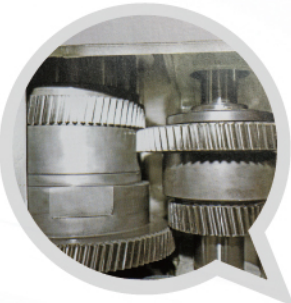
INVERTED T TYPE HORIZONTAL MACHINING CENTER

INVERTED T TYPE DOUBLE POSITIONS HORIZONTAL MACHINING CENTER

HMC800D

HMC630D

INVERTED T TYPE DOUBLE POSITIONS HORIZONTAL MACHINING CENTER



Spindle gear transmission

Through hydraulic shift changing automatically, it can realize two steps' speed changing, each shift is with stepless speed, the whole system is simple and reliable.



性能特点 PERFORMANCE

- Inverted T type horizontal machining center with high spindle speed, strong rigidity and big torque
- Spindle is with cooling circulation system, two positions exchange system can decrease auxiliary time and improve the processing efficiency
- It is suitable for processing various types of box parts and two-dimensional and three-dimensionals surface
- It is a key equipment for machining box parts in machinery ,automobile, ship, textile machinery, printing machinery, agricultural machinery and other industries.

标准配置 STANDARD

- Fanuc 0i-MF Plus CNC controller
- Max.spindle speed 3000rpm, use one-piece gear box
- 24/30 pcs arm type tool magazine
- Spindle and gear box constant oil cooling

选择配置 OPTION

- Siemens 828D CNC controller
- Table indexing 0.001°
- Spindle internal cooling
- Germany ZF gear box/Italy BF gear box
- Heidenhain or Fagor linear scale

Specifications	Unit	HMC630D	HMC800D
Table size	mm	800X800	1000X1000
Number of table	pc	2	2
Workstation exchange type	--	Reciprocal exchange	Reciprocal exchange
Workstation exchange time	s	45	55
Max. table load	kg	1200	2000
Min. indexing unit	°	1	1
Max. speed of turning table	rpm	22.2	11.1
X axis travel	mm	1000	1250
Y axis travel	mm	800	1000
Z axis travel	mm	800	1000
Distance from the spindle center to table surface	mm	20-820	20-1020
Distance from the spindle nose to table center	mm	150-950	150-1150
Max. workpiece swing diameter	mm	φ 1000	φ 1200
Spindle taper	--	BT50	BT50
Max. spindle speed	rpm	3000	3000
Main motor power	kW	15/18.5	15/18.5
Spindle torque	N.m	540/860	540/860
Max. taping dia in casting	mm	M32	M32
Max. taping dia in carbon steel	mm	M28	M28
X/Y/Z/B servo motor power	kW	3/3/3/2.5	3/3/3/3
Tool magazine type	--	Arm type	Arm type
Tool magazine capacity	pcs	24	30
Max. tool dia(full/empty)	mm	125/220	125/220
Max. tool length	mm	350	350
Max. tool weight	kg	25	25
Min. time of tool exchange (T-T)	s	5	5
Rapid feed speed (X/Y/Z)	mm/min	24000/24000/24000	24000/24000/24000
Cutting feed speed (X/Y/Z)	mm/min	1-10000/1-10000/1-10000	1-10000/1-10000/1-10000
Positioning accuracy (X/Y/Z)	mm	0.010/0.010/0.010	0.010/0.010/0.010
Positioning accuracy (B)	"	10	10
Repeat positioning accuracy (X/Y/Z)	mm	0.005/0.005/0.005	0.005/0.005/0.005
Repeat positioning accuracy (B)	"	2	2
Power capacity	kVA	35	40
Machine weight	kg	16500	18500
Overall dimensions	mm	6300X3700X3170	7300X3700X3460

性能特点 PERFORMANCE

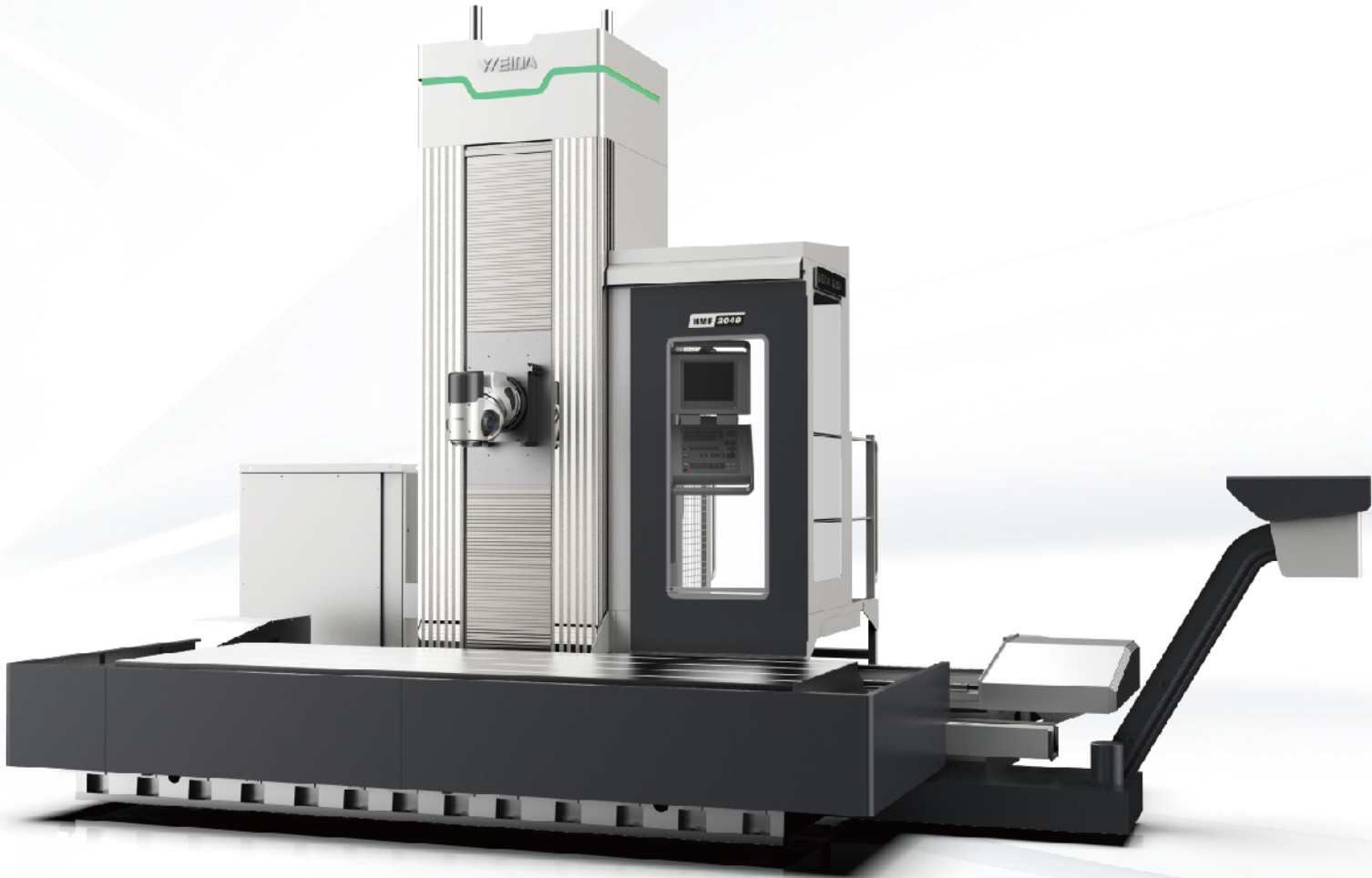
- Fully automatic differential universal milling head, which can be adapted to the machining of workpieces with various angles.
- Three axes rapid feed speed are 40m/min, which can improve the working efficiency.
- High precision roller linear guideways are used in all three axes to ensure the precision and rigidity of the machine.
- The special design of double screws and double balance bars ensures the geometric accuracy of the ram
- The main gearbox is at the center, which reduces the coupling length and improves transmission efficiency.
- Frame-in-frame column slide structure, has fully symmetrical design, good thermal stability, and high precision retention.
- Integral skateboard, to keep sufficient rigidity
- Cross-orthogonal arrangement of four-line rails of ram, reasonable force and little deformation.

标准配置 STANDARD 选择配置 OPTION

- Fully automatic universal milling head
 - Three axis linear scales
 - FANUC CNC control system
 - Horizontal chain type chip conveyor
 - 32 pcs chain type tool magazine
 - Follow-along type operator room
- Siemens CNC control system
 - Laser tool setter
 - Automatic workpiece measuring systems
 - 40pcs chain type tool magazine
 - Full protection

	Specifications	Unit	HMF2040
Worktable	Table size	mm	1600 × 4000
	Max. table load	t/m²	5
Processing range	Max. column travel – X-axis	mm	4000
	Max. travel of the slide plate – Y-axis	mm	2000
	Max. ram travel – Z-axis	mm	1000
Spindle	Spindle taper		BT50
	Max. spindle speed	r/min	3000
	Rated output torque	N.m	1000
	Main motor power	kW	22/26
	Min. indexing unit for pentahedral heads	°	1
Feed system	Cutting feed speed(X/Y/Z)	mm/min	1-20000
	Rapid feed speed(X/Y/Z)	mm/min	40000
Tool magazine	Tool magazine type		Chain type
	Tool magazine capacity	T	32
	Max. tool dia (full/empty)	mm	120/250
	Max. tool length	mm	400
	Max. tool weight	kg	25
Positioning accuracy	X	mm	0.012/1000
	Y	mm	0.02
	Z	mm	0.012
Repeat positioning accuracy	X	mm	0.01
	Y	mm	0.01
	Z	mm	0.01
CNC control system	Model		FANUC 0i MF

FLOOR-TYPE 5-FACE MACHINING CENTER



HMF2040

FLOOR-TYPE 5-FACE MACHINING CENTER

性能特点 PERFORMANCE

- The machine guideway adopts roller-slip composite guideway, the guideway surface is plastic pasted + original imported rolling body, high precision and small friction, good vibration absorption.
- The spindle box is an one-piece gear box, which can ensure the rigidity and high output torque, and the boring shaft can be extended for deep hole machining.
- Equipped with 40T broken-rail tool magazine, which can realize rapid tool change and improve the machining efficiency.
- Spindle bearings and main drive system gears are cooled by a high-power oil cooler to reduce thermal deformation of the spindle and ensure the machining accuracy.
- The machine is equipped with Siemens SINUMERIK 828D CNC control system
- The machine is equipped with a spiral chip conveyor + chain chip conveyor as standard, which enables fully automatic chip removal from the machine.
- Suitable for various machining fields such as automotive industry, mould industry, machine manufacturing industry, etc.

标准配置 STANDARD

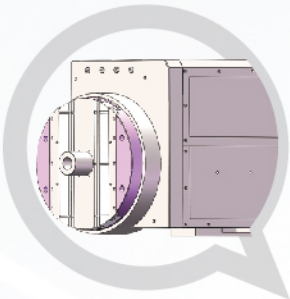
- X, Y and Z axes are equipped with linear scales, and B-axis is equipped with circle scale
- 40T broken rail chain tool magazine
- Arbitrary indexing rotary table
- Siemens 828D control system
- Screw type chip conveyor + chain type chip conveyor

选择配置 OPTION

- 60T broken rail chain tool magazine
- Automatic tool measuring systems
- Full protection
- 2Mpa、3Mpa、5MPa CTS function
- Boring axis support sleeve
- Manual extension right angle milling head

	Specifications	Unit	WPB-11FT	WPB-13T
Processing range	X axis travel	mm	2000	3000
	Y axis travel	mm	1500	2400
	Z axis travel	mm	1200	2000
	W axis travel	mm	550	700
	B axis swing range	°	0 ~ 360°	0 ~ 360°
	Max. workpiece swivel diameter	mm	Ø 2000	Ø 2900
	Distance from the spindle center to table surface	mm	200 ~ 1700	100 ~ 2500
Worktable	Distance from the spindle nose to table center	mm	200	150
	Table size	mm	1400 × 1250	1800 × 2000
	Min. indexing unit	°	0.001	0.001
	Max. table load	Kg	5000	10000
Spindle	Rotary table speed	r/min	1	1
	Spindle diameter	mm	Φ110	Φ130
	Max. spindle speed	rpm	2000	2000
	Spindle taper		BT50	BT50
	Main spindle power	Kw	17/20.4	28/45
	Max. spindle output torque	N.m	1600	2900
	Max. axial resistance of the spindle	N	25000	25000
Feed system	X/Y/Z/W axis rapid cutting feed speed	m/min	10/10/10/4	10/10/10/4
	X/Y/Z/W axis Max cutting feed speed	m/min	6/6/6/3	6/6/6/3
Tool magazine	Tool magazine capacity		32	40
	Max. tool dia (full/empty)	mm	125/250	125/245
	Max. tool length	mm	400	400
	Max. tool weight	kg	25	25
Accuracy	X/Y/Z/W Positioning accuracy	mm	0.02/0.015/0.015	0.025/0.02/0.02/0.025
	B Positioning accuracy	arc/sec	10°	10°
	X/Y/Z/W Repeat positioning accuracy	mm	0.01/0.01/0.01	0.017/0.015/0.015/0.018
	B Repeat positioning accuracy	arc/sec	6°	6°
CNC control system	Model		Siemens 828D	Siemens 828D
	Total control axes	Axes	6	5
	Number of linkage control axes	Axes	4	4

CNC PLANER TYPE BORING AND MILLING MACHINE



Option: integrated facing plate



WPB-11FT
WPB-13T
CNC PLANER TYPE BORING AND MILLING MACHINE

FLEXIBLE PRODUCTION LINE WITH HORIZONTAL MACHINING CENTER



性能特点 PERFORMANCE

- Horizontal machining centre flexible production line is mainly for CNC machine tool parts, cylinder body, valve body parts drilling, milling, boring and other machining processes. It can realize multi-surface, multi-process and multi-species cutting processing from rough parts to finished products.
- This line has high operating speed and high cutting torque, especially suitable for large batch and multi-species production, also has the function of online tool inspection and tool life management, which can realize 24 hours unattended production.
- The production line is integrated with intelligent production lines, logistics systems, real-time monitoring systems and intelligent production command and management, realizing multi-level interconnection of manufacturing units, flexible production lines and production workshops and monitoring the whole process.
- With the advantage of increasing efficiency and reducing production operating costs, it can be widely used in machining machine tool parts, automobile, mold, mechanical engineering, medical, aerospace and other industries.

FLEXIBLE PRODUCTION LINE WITH HORIZONTAL MACHINING CENTER

