



Guangdong Xiangweida Technology Co., Ltd. (Equipment Division)



Guangdong Xiangweida Technology Co. Ltd.

Multi-Head, Multi-Channel Machining Centers | Smart Manufacturing
Equipment Solutions Provider | High Speed • High Precision • High
Efficiency

Company Profile

Guangdong Xiangweida Technology Co., Ltd. specializes in the R&D, manufacturing and system integration of multi-head, multi-channel CNC machine tools.

The founding, R&D and sales teams have over 20 years of CNC industry experience. Senior technical and operations leaders combine strong engineering expertise, global product-development vision and fast local delivery capabilities. The company has a closed-loop R&D system covering product definition, technology upgrades and full-lifecycle equipment services, supported by practical process, market and standardized management experience.

Combining mechanical design with intelligent automation-line development, the company provides integrated solutions of standard CNC equipment and customized automation lines for precision hardware, 3C electronics, optical modules, liquid-cooling components and mold machining. With an experienced industry team and diversified resources, it develops core equipment in-house and provides cost-effective smart manufacturing equipment with one-stop technical services.

Product Catalog

- 一、XWD-T645 Machining Center
- 二、XWD-1260-3T Machining Center
- 三、XWD-960-4T Machining Center
- 四、XWD-1260-4T Machining Center
- 五、XWD-1240-5T Machining Center
- 六、XWD-1260-3D Machining Center
- 七、XWD-650-3D Machining Center
- 八、XWD-T740 Machining Center
- 九、XWD-T745 Machining Center
- 十、XWD-W380 5-Axis Machining Center
- 十一、XWD-W480 5-Axis Machining Center

1. XWD-T645 Machining Center



➤ 1、Product Characteristics Product Characteristics

T6045 Dual-Head Drilling & Milling Machining Center Expands the machining capabilities of drilling and milling machines to meet the needs of large workpieces. The X, Y, Z1 and Z2 axes use ball screws, while the three axes use linear guideways. Absolute servo motors and a high-performance imported CNC control system ensure machining accuracy through coordinate analysis and compensation. The spindle features direct drive with a standard speed of 24,000 rpm. The cast-iron components use the Meehanite casting process and undergo full heat treatment for stress relief. The machine offers high stability and reliability, integrating drilling, tapping and milling in one machine.

➤ 2、Machine tool advantages

➤ Dual-head design with independent control and tool changes; machines two workpieces simultaneously.

➤ 7-point base support provides high rigidity for stable machining.

➤ Direct spindle drive reduces high-speed tapping errors and delivers high output for high-speed, efficient and heavy-duty cutting.

➤ High-speed rigid tapping.

➤ A high-speed PLC engine improves response, shortens cycle time and optimizes feed smoothness, reducing secondary finishing.

➤ 48 m/min rapid traverse shortens cycle time and improves productivity.

➤ Compact design saves floor space. The recessed front provides easy access to the worktable.

➤ 3、App lication Area

➤ Suitable for batch machining of copper, aluminum, stainless steel, aluminum/zinc alloy die castings, cold/ hot-forged parts. Applications include: Smart Home、Wearable Devices、3C Consumer Electronics、Auto Parts、Motorcycle Parts、Low-Altitude Aircraft Components、CPU Liquid Cooling Heatsinks、New-Energy Vehicle Heat Sinks Small Mold

➤ Machining、Medical Devices。

➤ 4、Standard Configuration

Machine Bed: Cast Iron

Spindle: Ruiying

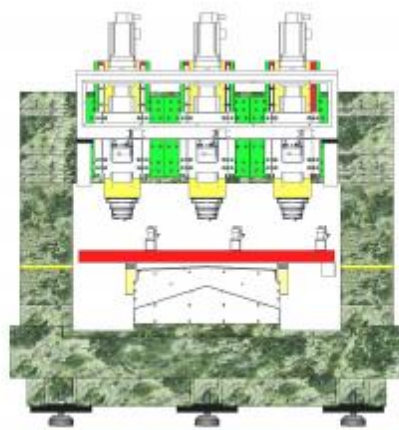
- Control System: Syntec
- (Optional)
- Ball Screw: PMI, R32
- Guideway: PMI, 30 mm Ball Type

5、Product Specifications

Product Parameters

Item		Unit	Specification	Remarks
Machining Range	X-Axis Travel	mm	600	
	Y-Axis Travel	mm	450	
	Z-Axis Travel	mm	350/350	
	Spindle Nose to Table Distance	mm	145-495	
	Distance Between Spindles	mm	450	
	Spindle Center to Column Guideway Distance	mm	468	
Worktable	Table Size	mm	1000*420	
	Table Load Capacity	kg	300	
	T-Slots (Qty. - Width × Pitch)	mm	3-14*125	
Control System			Syntec 22MA PLUS	
Spindle	Motor Power	kw	5.5	
	Motor Torque	N.m	10.5	
	Spindle Speed	rpm	24000	
	Spindle Diameter	mm	Φ 100	
	Spindle Taper	/	BT30	
3-Axis Motors	X-Axis Motor Power	Kw	2.4	
	Y-Axis Motor Power	Kw	2.4	
	Z-Axis Motor Power	Kw	3.9	
Speed	Cutting Feed Rate Range	mm/min	15000	
	X/Y/Z Rapid Traverse Speed	m/min	48/48/48	
Machine Accuracy	Positioning Accuracy (X/Y/Z)	mm	±0.005/300	
	Repeatability (X/Y/Z)	mm	±0.003/300	
Tool Magazine	Tool Capacity	把	21	
	Max. Tool Diameter (Adjacent Pocket Empty)	mm	60 (80)	
	Max. Tool Length	mm	200	
	Max. Tool Weight	Kg	3	
	Tool Change Time (Adjacent Tool)	Sec	2.0	
Others	Air Pressure	Kgf/cm ²	6	
	Power Capacity	KVA	28	
	Overall Dimensions (L × W × H)	mm	1920*2590*2500	
	Machine Weight (Approx.)	Kg	Approx. 3,100	
	Air Flow	m ³ /min	0.15	

2. XWD-1260-3T Machining Center



1、Product Characteristics

- XWD-1260-3T is a high-speed, high-precision CNC machining center featuring an integrated electromechanical design, an elegant appearance, and precision cutting capabilities. After a single setup, the machine automatically performs milling, drilling, boring, reaming, countersinking and tapping.

2、Machine tool advantages

- Natural marble bed and crossbeam provide excellent vibration damping, corrosion resistance and machining accuracy.
- Space-Saving Design, The footprint of a single machine is only 1.2 times that of the T6 drilling and tapping machine. Equipped with a high-power, high-speed BBT30 motorized spindle, it offers excellent spindle rigidity and high chip-removal efficiency. The high spindle speed meets the requirements of various appearance parts and supports milling, drilling, tapping, and other operations.
- New protection design better protects guideways, ball screws, bearings, motors and other key components.
- Standard 18T tool magazine supports fast, stable machining of complex parts.
- Full enclosure effectively reduces coolant splash.
- Side coolant chip-washing system prevents chip accumulation.

3、App lication Area

The machine is suitable for high-volume machining of copper, aluminum, stainless steel parts, aluminum alloy die castings, zinc alloy die castings, cold-forged parts, hot-forged parts, and other components. Applications include smart home products, wearable devices, 3C consumer electronics, auto parts, motorcycle parts, low-altitude aircraft components, CPU liquid cooling heatsinks, new-energy vehicle heat sinks, and other industries.

4、Standard Configuration

Machine Bed: Marble

Spindle: BBT30 (Ronghua/Haozhi)

Control System: Weihong
(Optional)

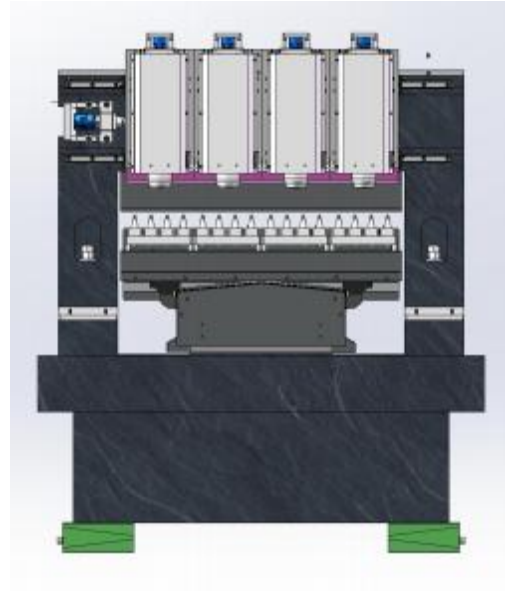
Ball Screw: NSK/PMI/HIWIN

Guideway: PMI/HIWIN/Kaito

5、Product Specifications
Product Parameters

Name	Item	Specification
Worktable	Table Size (mm)	1260 * 600
	Distance from Table to Spindle Nose (mm)	150 ~ 350
	Max. Load Capacity (kg)	300kg
Travel	X-Axis Travel (mm)	420
	Y-Axis Travel (mm)	600
	Z-Axis Travel (mm)	200
Spindle	Spindle Power (kW)	8.5/11
	Max. Spindle Speed (rpm)	30000/24000
	Spindle Diameter (mm)	120
	Spindle Tool Change Method	Pneumatic
	Tool Holder Specification	BBT30
Feed Rate	Max. Feed Rate (m/min)	24
	Max. Cutting Feed Rate (m/min)	10
Machine Accuracy	Positioning Accuracy: X/Y/Z (mm)	0.008mm/300mm
	Repeatability: X/Y/Z (mm)	±0.008mm
Tool Magazine	Tool Capacity (T)	18T*3
	Tool Magazine Type	Disc-Type Tool Magazine
Power Supply	Air Pressure (MPa)	≥0.6
	Total Power Consumption (kW)	32
Other Specifications	Overall Dimensions (L × W × H, mm)	2250X2160X2530
	Weight (Approx., kg)	6000
	Network Transmission & Monitoring	Yes
	Tool Setter	Yes

3. XWD-960-4T Machining Center



1、 Product Characteristics

- XWD-960-4T is a high-speed, high-precision CNC machining center featuring an integrated electromechanical design, an elegant appearance, and precision cutting capabilities. After a single setup, the machine automatically performs milling, drilling, boring, reaming, countersinking and tapping.

2、 Machine tool advantages

- Natural marble bed and crossbeam provide excellent vibration damping, corrosion resistance and machining accuracy.
- Space-Saving Design.
- High-speed motorized spindle supports various appearance parts, milling, drilling and tapping.
- New protection design better protects guideways, ball screws, bearings, motors and other key components.
- Standard 12T - 16T tool magazine supports fast, stable machining of complex parts.
- Full enclosure effectively reduces coolant splash.
- Side coolant chip-washing system prevents chip accumulation.

3、 App lication Area

- Suitable for batch machining of copper, aluminum, aluminum/zinc alloy die castings. Applications include: Smart Home、Wearable Devices、3C Consumer Electronics、Auto Parts、CPU Liquid Cooling Heatsinks、New-Energy Vehicle Heat Sinks.

4、 Standard Configuration

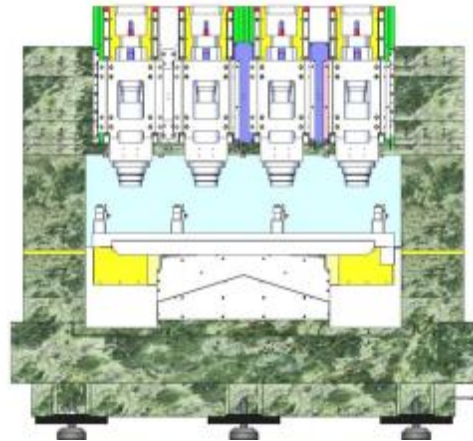
Machine Bed: Marble

- Spindle: 80/100 (Ronghua / Haozhi)
- CNC System: Weihong (Optional)
- Ball Screw: NSK / PMI / HIWIN
- Linear Guideway: PMI / HIWIN / KAIT

5、Product Parameters

名 称	项 目	参 数	参 数
Worktable	Table Size (mm)	950 * 400	950 * 400
	Distance from Table to Spindle Nose (mm)	130~ 280	115~ 265
	Max. Load Capacity (kg)	150kg	150kg
Travel	X-Axis Travel (mm)	235	235
	Y-Axis Travel (mm)	400	400
	Z-Axis Travel (mm)	150	150
Spindle	Spindle Power (kW)	2.5	4.0
	Max. Spindle Speed (rpm)	60000	40000
	Spindle Diameter (mm)	62	80
	Spindle Tool Change Method	Pneumatic	Pneumatic
	Tool Holder Specification	T11	ISO20
Feed Rate	Max. Feed Rate (m/min)	20	20
	Max. Cutting Feed Rate (m/min)	12	12
Machine Accuracy	Positioning Accuracy: X/Y/Z (mm)	0.008mm/300mm	0.008mm/300mm
	Repeatability: X/Y/Z (mm)	±0.005mm	±0.005mm
Tool Magazine	Tool Capacity (T)	15T*3	15T*3
	Tool Magazine Type	Rear-Push Type Linear Tool Magazine	Rear-Push Type Linear Tool Magazine
Power Supply	Air Pressure (MPa)	≥0.6	≥0.6
	Total Power Consumption (kW)	20	25
Other Specifications	Overall Dimensions (L × W × H, mm)	2050X1805X2150	2050X1805X2150
	Weight (Approx., kg)	3500	3500
	Network Transmission & Monitoring	yes	yes
	Tool Setter	yes	yes

4、XWD-1260-4T Machining Center



1、 Product Characteristics

XWD-1260-4T is a high-speed, high-precision CNC machining center featuring an integrated electromechanical design, an elegant appearance, and precision cutting capabilities. After a single setup, the machine automatically performs milling, drilling, boring, reaming, countersinking and tapping.

2、 Machine tool advantages

Natural marble bed and crossbeam provide excellent vibration damping, corrosion resistance and machining accuracy. Space-Saving Design Equipped with a high-power, high-speed BBT30 motorized spindle, the machine offers excellent spindle rigidity and high chip-removal efficiency. The high spindle speed meets the requirements of various appearance parts and supports milling, drilling, tapping, and other operations.

New protection design better protects guideways, ball screws, bearings, motors and other key components.

Standard 21T tool magazine supports fast, stable machining of complex parts.

Full enclosure effectively reduces coolant splash.

Side coolant chip-washing system prevents chip accumulation.

3、 Application Area

Suitable for batch machining of copper, aluminum, stainless steel, aluminum/zinc alloy die castings, cold/ hot-forged parts. Applications include: Smart Home、Wearable Devices、3C Consumer Electronics、Auto Parts、Motorcycle Parts、Low-Altitude Aircraft Components、CPU Liquid Cooling Heatsinks、New-Energy Vehicle Heat Sinks.

4、 Standard Configuration

Machine Bed: Marble

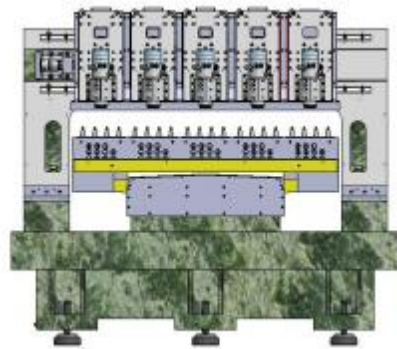
Spindle: BBT30 (Ronghua/Haozhi)

- Control System: Weihong (Optional)
- Ball Screw: NSK/PMI/HIWIN
- Guideway: PMI/HIWIN/Kaito

5、Product Parameters

Name	Item	Specification
Worktable	Table Size (mm)	1260 * 600
	Distance from Table to Spindle Nose (mm)	150 ~ 350
	Max. Load Capacity (kg)	300kg
Travel	X-Axis Travel (mm)	315
	Y-Axis Travel (mm)	600
	Z-Axis Travel (mm)	200
Spindle	Spindle Power (kW)	8.5/11
	Max. Spindle Speed (rpm)	30000/24000
	Spindle Diameter (mm)	120
	Spindle Tool Change Method	Pneumatic
	Tool Holder Specification	BBT30
Feed Rate	Max. Feed Rate (m/min)	24
	Max. Cutting Feed Rate (m/min)	10
Machine Accuracy	Positioning Accuracy: X/Y/Z (mm)	0.008mm/300mm
	Repeatability: X/Y/Z (mm)	±0.005mm
Tool Magazine	Tool Capacity (T)	21T*4
	Tool Magazine Type	Chain-Type Tool Magazine
Power Supply	Air Pressure (MPa)	≥0.6
	Total Power Consumption (kW)	47
Other Specifications	Overall Dimensions (L × W × H, mm)	2250X2160X2530
	Weight (Approx., kg)	6000
	Network Transmission & Monitoring	yes
	Tool Setter	yes

5. XWD-1240-5T Machining Center



1、 Product Characteristics

XWD-1240-5T is a high-speed, high-precision CNC machining center featuring an integrated electromechanical design, an elegant appearance, and precision cutting capabilities. After a single setup, the machine automatically performs milling, drilling, boring, reaming, countersinking and tapping.

2、 Machine tool advantages

Natural marble bed and crossbeam provide excellent vibration damping, corrosion resistance and machining accuracy.

Space-Saving Design.

High-speed motorized spindle supports various appearance parts, milling, drilling and tapping.

New protection design better protects guideways, ball screws, bearings, motors and other key components.

Standard 12T-16T tool magazine supports fast, stable machining of complex parts.

Full enclosure effectively reduces coolant splash.

Side coolant chip-washing system prevents chip accumulation.

3、 Application Area

Suitable for batch machining of copper, aluminum, aluminum/zinc alloy die castings. Applications include: Smart Home、Wearable Devices、3C Consumer Electronics、Auto Parts、CPU Liquid Cooling Heatsinks、New-Energy Vehicle Heat Sinks

4、 Standard Configuration

Machine Bed: Marble

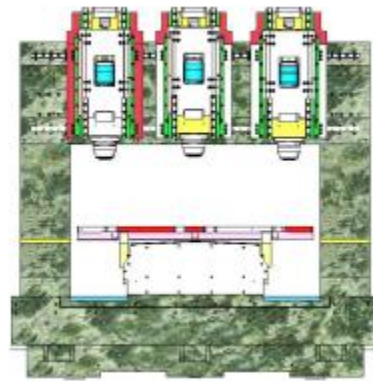
- Spindle: Haozhi (62-T11/80-ISO20, optional)
- Control System: Weihong (Optional)
- Ball Screw: NSK/PMI/HIWIN
- Guideway: PMI/HIWIN/Kaito

5、Product Specifications

Product Parameters

Name	Item	Specification	Specification
Worktable	Table Size (mm)	1200 * 400	1200 * 400
	Distance from Table to Spindle Nose (mm)	230	215
	Max. Load Capacity (kg)	150kg	150kg
Travel	X-Axis Travel (mm)	240	240
	Y-Axis Travel (mm)	400	400
	Z-Axis Travel (mm)	120	120
Spindle	Spindle Power (kW)	2.5	4.0
	Max. Spindle Speed (rpm)	60000	40000
	Spindle Diameter (mm)	62	80
	Spindle Tool Change Method	Pneumatic	Pneumatic
	Tool Holder Specification	T11	ISO20
Feed Rate	Max. Feed Rate (m/min)	24	24
	Max. Cutting Feed Rate (m/min)	10	10
Machine Accuracy	Positioning Accuracy: X/Y/Z (mm)	0.01mm/300mm	0.01mm/300mm
	Repeatability: X/Y/Z (mm)	±0.005mm	±0.005mm
Tool Magazine	Tool Capacity (T)	(19T)*5	(11T)*5
	Tool Magazine Type	Servo Linear Tool Magazine	Servo Linear Tool Magazine
Power Supply	Air Pressure (MPa)	≥0.6	≥0.6
	Total Power Consumption (kW)	23	30
Other Specifications	Overall Dimensions (L × W × H, mm)	1900*1900*2100	1900*1900*2100
	Weight (Approx., kg)	3500	3500
	Network Transmission & Monitoring	有	有
	Tool Setter	有	有

6. XWD-1260-3D Machining Center



1、 Product Characteristics

XWD-1260-3D is a high-speed, high-precision CNC machining center featuring an integrated electromechanical design and an elegant, streamlined appearance. It is capable of precision cutting and, after a single workpiece setup, can automatically and continuously perform multiple machining operations, including milling, drilling, boring, reaming, countersinking, and tapping.

2、 Machine tool advantages

Natural marble bed and crossbeam provide excellent vibration damping, corrosion resistance, and high machining accuracy.

Space-saving design: The footprint of a single machine is only 1.2 times that of a T6 drilling and tapping machine.

Equipped with a high-power, high-speed BBT30 electric spindle. The high-power spindle offers excellent rigidity and high material removal efficiency, while the high speed meets the requirements of different exterior components. It also supports milling, drilling, tapping, and other machining operations.

Newly designed machine enclosure provides more effective protection for critical components such as linear guideways, ball screws, bearings, and motors.

Standard 18-tool magazine with large tool capacity, enabling high-speed and stable machining of complex parts.

Full-enclosure design effectively reduces the splash of cutting fluid during machining.

Side coolant flushing and chip removal system effectively prevents chip accumulation inside the machine.

The X-axis uses three ball screws, independently controlling three spindles for simultaneous machining.

3、 Applications App lication Area

This machine is suitable for high-volume machining of various copper, aluminum, and stainless-steel parts, aluminum alloy die-castings, zinc alloy die-castings, as well as cold-forged and hot-forged components.

Typical applications include smart home products, smart wearables, 3C consumer electronics, automotive parts, motorcycle parts, low-altitude aircraft components, CPU water-cooling heat sinks, and new energy vehicle heat sinks, among others.

4、 Standard Configuration

Machine Bed: Marble

- Spindle: BBT30 (Ronghua / Haozhi)
- CNC System: Weihong / Moxin (Optional)
- Ball Screw: NSK / PMI / HIWIN
- Linear Guideway: PMI / HIWIN / KAIT

5、Product Parameters

Name	Item	Specification
Worktable	Table Size (mm)	1260 * 600
	Distance from Table to Spindle Nose (mm)	150~450
	Max. Load Capacity (kg)	300kg
Travel	X-Axis Travel (mm)	420
	Y-Axis Travel (mm)	600
	Z-Axis Travel (mm)	300
Spindle	Spindle Power (kW)	8.5X4
	Max. Spindle Speed (rpm)	30000
	Spindle Diameter (mm)	120
	Spindle Tool Change Method	Pneumatic
Feed Rate	Tool Holder Specification	BBT30
	Max. Feed Rate (m/min)	24
Machine Accuracy	Max. Cutting Feed Rate (m/min)	10
	Positioning Accuracy: X/Y/Z (mm)	0.008mm/300mm
Tool Magazine	Repeatability: X/Y/Z (mm)	±0.008mm
	Tool Capacity (T)	18T*3
Power Supply	Tool Magazine Type	Disc-Type Tool Magazine
	Air Pressure (MPa)	≥0.6
Other Specifications	Total Power Consumption (kW)	37
	Overall Dimensions (L × W × H, mm)	2580*2160*2650
	Weight (Approx., kg)	6000
	Network Transmission & Monitoring	Yes
	Tool Setter	Yes

7. XWD-650-3D Machining Center (3-Channel)



1、Product Characteristics

650-3D Drilling & Milling Machining Center expands the machining capabilities of drilling and milling machines to meet customers' requirements for large-size workpieces.

The X, Y, and Z axes are all equipped with ball screws and linear guideways. All three axes feature absolute servo motors, while an imported high-performance CNC system analyzes and compensates for coordinate positioning to ensure machining accuracy.

All cast-iron components are manufactured using the Meehanite casting process and undergo complete heat treatment to eliminate internal stress.

- The machine offers high stability and reliability, integrating drilling, tapping, milling, and
- other machining operations into a single machine.

2、Machine tool advantages

- Three-head configuration: The three machining heads are independently controlled, allowing independent tool changes and simultaneous machining of three workpieces.
- Based on accumulated technical analysis and data, the machine base features a seven-point support structure, providing high structural rigidity and ensuring stable, reliable machining performance.

The spindle motor and spindle adopt direct-drive technology, reducing errors during high-speed tapping. The high-output design delivers excellent performance for high-speed, high-efficiency machining and heavy-duty cutting.

- Supports high-speed rigid tapping.

Equipped with a high-speed PLC engine to improve response speed and shorten cycle times. Optimized machining parameters enhance feed smoothness and improve the quality of machined edges and surfaces, eliminating the need for subsequent finishing processes.

- A rapid traverse rate of 48 m/min significantly reduces machining time and improves production efficiency.

Featuring internationally advanced machine tool technology combined with cost-effective domestic manufacturing and sales.

Simple, compact machine design saves floor space. The recessed front-end design allows operators easier access to the machine table.

3、Application Area

This machine is suitable for high-volume machining of various copper, aluminum, and stainless-steel parts, aluminum alloy die-castings, zinc alloy die-castings, as well as cold-forged and hot-forged components.

Applications include smart home products, smart wearables, 3C consumer electronics, automotive parts, motorcycle parts, low-altitude aircraft components, CPU water-cooling heat sinks, small mold machining for new energy vehicle heat sinks, medical devices, and other industries.

4、Standard Configuration

- Machine Bed: Casting
- Spindle: Haozhi / Ruiying
- CNC System: Huazhong / Syntec / Weihong (Optional)
- Ball Screw: NSK / PMI / HIWIN
- Linear Guideway: PMI / HIWIN / KAIT

5、Product Parameters

Name	Item	Specification
Worktable	Table Size (mm)	600 * 500
	Distance from Table to Spindle Nose (mm)	150-500
	T-Slot Spacing (mm)	3-12*135mm
	Maximum Table Load (kg)	300kg
Travel	X1, X2, X3 Axis Travel (mm)	600
	Y-Axis Travel (mm)	500
	Z1, Z2, Z3 Axis Travel (mm)	350
Spindle	Spindle Power (kW)	6.0
	Maximum Spindle Speed (rpm)	24000
	Spindle Diameter (mm)	100
	Spindle Tool Change Method	Mechanical
	Tool Holder Specification	BBT30
Feed Rate	Maximum Feed Rate (m/min)	48
	Maximum Rapid Traverse Rate (m/min)	10
Machine Accuracy	Positioning Accuracy: X/Y/Z (mm)	0.008mm/300mm
	Repeatability: X/Y/Z (mm)	±0.008mm
Tool Magazine	Tool Magazine Capacity (T)	21T*3
	Tool Magazine Type	21-Tool Arm-Type Tool Magazine
Power Supply	Air Pressure (MPa)	≥0.6
	Total Power Consumption (kW)	38
Other Specifications	Overall Dimensions (L × W × H, mm)	2500*2900*2500mm
	Weight (kg)	6500
	Network Connectivity & Remote Monitoring	yes
	Tool Setter	yes

8. XWD-T740 Machining Center



➤ 1、 Product Characteristics

T-740 Drilling & Milling Machining Center expands the machining capabilities of drilling and milling machines to meet customers' requirements for large-size workpieces. The X, Y, and Z axes are all equipped with ball screws and linear guideways. All three axes feature absolute servo motors, while an imported high-performance CNC system analyzes and compensates for coordinate positioning to ensure machining accuracy. The spindle adopts a direct-coupled drive structure, with a standard speed of 20,000 rpm. All cast-iron components are manufactured using the Meehanite casting process and undergo complete heat treatment to eliminate internal stress. The machine offers high stability and reliability, integrating drilling, tapping, milling, and other machining operations into a single machine.

➤ 2、 Machine tool advantages

- Based on accumulated technical analysis data, the machine base features a six-point support structure, providing high structural rigidity and ensuring stable, reliable machining performance.
- The spindle motor and spindle adopt direct-drive technology, reducing errors during high-speed tapping. The high-output design delivers excellent performance in high-speed, high-efficiency machining and heavy-duty cutting.
- Supports high-speed rigid tapping.
- Equipped with a high-speed PLC engine to improve response speed and shorten cycle times. Optimized machining parameters enhance feed smoothness, while the improved machining edge and surface quality eliminates the need for subsequent finishing processes. A rapid traverse rate of 48 m/min shortens machining time and improves production efficiency.
- Simple and compact machine design saves floor space. The recessed front-end design allows operators easier access to the machine table.

3、 Application Area

Suitable for batch machining of copper, aluminum, stainless steel, aluminum/zinc alloy die castings, cold/ hot-forged parts. Applications include: Smart Home、Wearable Devices、

3C consumer electronics, automotive parts, motorcycle parts, low-altitude aircraft components, CPU water-cooling heat sinks, small mold machining for new energy vehicle heat sinks, medical devices, and other industries.

4、Standard Configuration

- Machine Bed: Cast Iron
- Spindle: Ruiying
- CNC System: Syntec (Optional)
- Ball Screw: Yintai, R32
- Linear Guideway: Yintai, 30/35 Ball-Type Linear Guides

5、Product Parameters

Item	Sub-item	Unit	Specification			Remarks
Machining Range	X-Axis Travel	mm	700			
	Y-Axis Travel	mm	400			
	Z-Axis Travel	mm	350			
	Distance from Spindle Nose to Table Surface	mm	145-495			
	Distance from Spindle Center to Column Guideway	mm	445			
Worktable	Table Size	mm	800*420			
	Maximum Table Load	kg	300			
	T-Slot (No. of Slots - Slot Width × Pitch)	mm	3-14*125			
Control System	FANUC Oi-MF Plus 3B Package / Mitsubishi M80VB / Syntec 22MA	套	FANUC	三菱	新代	
Spindle	Motor Power	kw	3.7	5.5	7.5	
	Motor Torque	N.m	11.8	14.1	17.5	
	Spindle Speed	rpm	20000			
	Spindle Diameter	mm	Φ 100			
	Spindle Taper	/	BT30			
3-Axis Motors	X-Axis Motor Power	kw	2.5	1.5	2.4	
	Y-Axis Motor Power	kw	2.5	1.5	2.4	
	Z-Axis Motor Power	kw	2.7	3.0	3.9	
	Model	mm/min	5-20000			
Speed	Cutting Feed Rate Range	m/min	48/48/48			
Machine Accuracy	Positioning Accuracy (X/Y/Z)	mm	±0.005/300			
	Repeatability (X/Y/Z)	mm	±0.003/300			
Tool Magazine	Max. Tool Capacity	把	21			
	Max. Tool Diameter (Adjacent Pocket Empty)	mm	60 (80)			
	Max. Tool Length	mm	200			
	Max. Tool Weight	kg	3			
	Tool Change Time (Adjacent Tool)	Sec	1.8			
Others	Air Pressure	Kgf/cm²	6			
	Power Capacity	KVA	12			
	Overall Dimensions (L × W × H)	CM	1900*2350*2500			
	Machine Weight (Approx.)	Kg	2700			
	Air Flow	m³ /min	0.15			

9. XWD-T745 Machining Center



1、 Product Characteristics

- T-745 Drilling & Milling Machining Center expands the machining capabilities of drilling and milling machines to meet the needs of large workpieces. X, Y, and Z axes use ball screws and linear guideways. Absolute servo motors and an imported high-performance CNC control system ensure machine accuracy through coordinate analysis and compensation. The spindle adopts a direct-drive structure, with a standard speed of 20,000 rpm. All cast-iron components use the Meehanite casting process and undergo full heat treatment for stress relief. The machine offers high stability and reliability, integrating
- drilling, tapping, and milling.

2、 Machine tool advantages

- Based on accumulated technical analysis data, the machine base features 6-point support for high rigidity and stable machining.
- The spindle motor adopts direct drive, reducing high-speed tapping errors. High output
- power delivers excellent performance in high-speed, efficient, and heavy-duty cutting, with high-speed rigid tapping capability.
- A high-speed PLC engine improves response speed and shortens cycle times. Optimized
- machining parameters ensure smoother feed and better surface quality, eliminating subsequent finishing processes.

With a rapid traverse speed of 48 m/min, machining time is reduced and productivity improved.

- The compact design saves floor space, while the recessed front design provides easier access to the worktable.

3、 Application Area

The machine is suitable for batch machining of copper, aluminum, stainless steel parts, aluminum/zinc alloy die castings, and cold-/hot-forged parts. Applications include smart home products, wearable devices, 3C consumer electronics, auto parts, motorcycle parts, low-altitude aircraft components, CPU liquid cooling heatsinks, new-energy vehicle heat sinks, small mold machining, medical devices, and more.

3C consumer electronics, automotive parts, motorcycle parts, low-altitude aircraft components, CPU water-cooling heat sinks, small mold machining for new energy vehicle heat sinks, medical devices, and other industries.



4、Standard Configuration

Machine Bed: Cast Iron

Spindle: Ruiying

CNC System: Syntec (Optional)

Ball Screw: Yintai, R32

Linear Guideway: Yintai, 30/35 Ball-Type Linear Guides

5、Product Parameters

Item	Sub-item	Unit	Specification			Remarks
Machining Range	X-Axis Travel	mm	700			
	Y-Axis Travel	mm	450			
	Z-Axis Travel	mm	350			
	Distance from Spindle Nose to Table Surface	mm	145-495			
	Distance from Spindle Center to Column Guideway	mm	470			
Worktable	Table Size	mm	800*420			
	Maximum Table Load	kg	300			
	T-Slot (No. of Slots - Slot Width × Pitch)	mm	3-14*125			
Control System	FANUC Oi-MF Plus 3B Package / Mitsubishi M80VB / Syntec 22MA	套	FANUC	Mitsubishi	Syntec	
Spindle	Motor Power	kw	3.7	5.5	7.5	
	Motor Torque	N.m	11.8	14.1	17.5	
	Spindle Speed	rpm	20000			
	Spindle Diameter	mm	Φ 100			
	Spindle Taper	/	BT30			
3-Axis Motors	X-Axis Motor Power	kw	2.5	1.5	2.4	
	Y-Axis Motor Power	kw	2.5	1.5	2.4	
	Z-Axis Motor Power	kw	2.7	3.0	3.9	
	Model	mm/min	5-20000			
Speed	Cutting Feed Rate Range	m/min	48/48/48			
Machine Accuracy	Positioning Accuracy (X/Y/Z)	mm	±0.005/300			
	Repeatability (X/Y/Z)	mm	±0.003/300			
Tool Magazine	Max. Tool Capacity	Handle	21			
	Max. Tool Diameter (Adjacent Pocket Empty)	mm	60 (80)			
	Max. Tool Length	mm	200			
	Max. Tool Weight	kg	3			
	Tool Change Time (Adjacent Tool)	Sec	1.8			
Others	Air Pressure	Kgf/cm ²	6			
	Power Capacity	KVA	12			
	Overall Dimensions (L × W × H)	CM	1900*2350*2700			
	Machine Weight (Approx.)	Kg	2900			
	Air Flow	m ³ /min	0.15			

10. XWD-W380 Machining Center (5-Axis)



1、Product Characteristics

- The X, Y, and Z axes all use ball screws, while the three axes use linear guideways. The three axes are equipped with absolute servo motors, and machine accuracy is achieved through coordinate position analysis and compensation by an imported high-performance CNC control system. The spindle adopts a direct-drive structure, with a standard speed of 20,000 rpm. All cast-iron components use the Meehanite casting process and undergo full heat treatment to relieve internal stress. The machine offers high stability and reliability, integrating drilling, tapping, milling, and other machining operations.

2、Machine tool advantages

- Based on accumulated technical analysis data, the machine base features 8-point support for high rigidity and stable machining.
- The spindle motor uses direct drive, reducing errors during high-speed tapping. High output power enables efficient high-speed and heavy-duty cutting, with high-speed rigid tapping capability.
- A high-speed PLC engine improves response speed and shortens cycle times. Optimized machining parameters ensure smoother feed and better surface quality, eliminating subsequent finishing processes.
- With a rapid traverse speed of 36 m/min, machining time is reduced and productivity is improved.
- The compact design saves floor space, while the recessed front design provides easier access to the worktable..

3、App lication Area

- The machine is suitable for batch machining of copper, aluminum, stainless steel parts, aluminum/zinc alloy die castings, cold- and hot-forged parts. Applications include smart home products, wearable devices, 3C consumer electronics, auto parts, motorcycle parts, low-altitude aircraft components, CPU liquid cooling heatsinks, new-energy vehicle heat sinks, small mold machining, medical devices, and more.

4、Standard Configuration

Machine Bed: Cast Iron

Spindle: Ruiying

Control System: Syntec (Optional)

- Ball Screw: NSK, R32
- Guideway: NSK/HIWIN, 30/35 mm
- Ball Type

5、Product Specifications Product Parameters

Item	Sub-item	Unit	Specification	Remarks
5-Axis	T-Slots	mm	4*12	
	C-Axis Table Diameter	mm	300	
	A/C-Axis Rated Torque	Nm	259/122	
	A/C-Axis Rated Speed	rpm	50/100	
	A-Axis Rotation Angle	°	± 120	
	5-Axis Weight	kg	231	
	5-Axis Load Capacity	kg	100	
	Spindle Face to 5-Axis Table Distance	mm	50-430	
Machining Range	X-Axis Travel	mm	500	
	Y-Axis Travel	mm	560	
	Z-Axis Travel	mm	380	
	Spindle Center to Column Guideway Distance	mm	445	
Spindle	Motor Power	kw	7.5	
	Motor Torque	N.m	17.5	
	Spindle Speed	rpm	20000	
	Spindle Diameter	Mm	100	
	Spindle Taper	/	BT30	
Control System	Syntec F01-220MA-5-SEP-S			
3-Axis Motors	X-Axis Motor Power	Kw	2.3	
	Y-Axis Motor Power	Kw	2.3	
	Z-Axis Motor Power	Kw	3.6	
	Model	X: AM15 Y: AM15 Z: AM18		
Speed	Cutting Feed Rate Range	mm/min	5-20000	
	X/Y/Z Rapid Traverse Speed	m/min	30/30/30	
Machine Accuracy	Positioning Accuracy (X/Y/Z)	Mm	±0.005/300	
	Repeatability (X/Y/Z)	Mm	±0.003/300	
Tool Magazine	Max. Tool Capacity	Handle	21T	
	Max. Tool Diameter (Adjacent Pocket Empty)	mm	60 (80)	
	Max. Tool Length	mm	250	
	Max. Tool Weight	Kg	3	
	Tool Change Time (Adjacent Tool)	Sec	1.8	
Others	Air Pressure	Kgf/cm ²	6	
	Power Capacity	KVA	12	
	Overall Dimensions (L × W × H)	CM	1950*2650*2500	
	Machine Weight (Approx.)	Kg	约 3600	
	Air Flow	m ³ /min	0.15	

11. XWD-W480 Machining Center (5-Axis)



1、 Product Characteristics

X、 Y, and Z axes all use ball screws, while the three axes use linear guideways. The three axes are equipped with absolute servo motors, and machine accuracy is achieved through coordinate position analysis and compensation by an imported high-performance CNC control system. The spindle adopts a direct-drive structure, with a standard speed of 12,000/15,000 rpm. All cast-iron components use the Meehanite casting process and undergo full heat treatment to relieve internal stress. The machine offers high stability and reliability, integrating drilling, tapping, milling, and other machining operations.

2、 Machine tool advantages

Based on accumulated technical analysis data, the machine base features 8-point support, providing high rigidity and ensuring stable, reliable machining.

The spindle motor adopts a direct-drive structure, reducing errors during high-speed tapping. Its high output power delivers excellent performance in high-speed, high-efficiency and heavy-duty cutting, with high-speed rigid tapping capability.

A high-speed PLC engine improves response speed and shortens cycle times. Optimized machining parameters improve feed smoothness and surface quality, eliminating the need for subsequent finishing processes.

The machine features a rapid traverse speed of 36 m/min, reducing machining time and improving productivity.

The compact machine design saves floor space. The recessed front design provides easier access to the worktable for operators.

3、 Application Area

The machine is suitable for batch machining of copper, aluminum, stainless steel parts, aluminum alloy die castings, zinc alloy die castings, cold-forged parts, hot-forged parts, and other components. Applications include smart home products, wearable devices, 3C consumer electronics, auto parts, motorcycle parts, low-altitude aircraft components, CPU liquid cooling heatsinks, new-energy vehicle heat sinks, small mold machining, medical devices, and other industries.

4、 Standard Configuration

Machine Bed: Cast Iron

Spindle: Ruiying

- Control System: Syntec (Optional)
- Ball Screw: PMI/HIWIN, R40
- Guideway: PMI/HIWIN, 35 mm Ball Guideway

5、Product Specifications

Technical Specifications

Item	Sub-item	Unit	Specification	Remarks
5-Axis	T-Slots	mm	8*12	
	C-Axis Table Diameter	mm	320	
	A/C-Axis Rated Torque	Nm	406/122	
	A/C-Axis Rated Speed	rpm	50/100	
	A-Axis Rotation Angle	°	±110	
	5-Axis Weight	kg	240	
	5-Axis Load Capacity	kg	120	
	Spindle Face to 5-Axis Table Distance	mm	80	
Machining Range	X-Axis Travel	mm	550	
	Y-Axis Travel	mm	600	
	Z-Axis Travel	mm	550	
	Spindle Center to Column Guideway Distance	mm	540	
Spindle	12,000/15,000 Motor Power	kw	7.5/7	
	12,000/15,000 Motor Torque	N.m	35.8/22	
	Spindle Speed	rpm	12000/15000	
	Spindle Diameter	Mm	150	
	Spindle Taper	/	BT40	
Control System	Syntec F01-220MA-5-15SE			
3-Axis Motors	X-Axis Motor Power	Kw	3.9	
	Y-Axis Motor Power	Kw	3.9	
	Z-Axis Motor Power	Kw	5.9	
Speed	Cutting Feed Rate Range	mm/min	5-12000/5-15000	
	X/Y/Z Rapid Traverse Speed	m/min	36/36/36	
Machine Accuracy	Positioning Accuracy (X/Y/Z)	Mm	±0.005/300	
	Repeatability (X/Y/Z)	Mm	±0.003/300	
Tool Magazine	Max. Tool Capacity	把	24T	
	Max. Tool Diameter (Adjacent Pocket Empty)	mm	80 (125)	
	Max. Tool Length	mm	300	
	Max. Tool Weight	Kg	8	
	Tool Change Time (Adjacent Tool)	Sec	1.6	
Others	Air Pressure	Kgf/cm ²	6	
	Power Capacity	KVA	12	
	Overall Dimensions (L × W × H)	CM	2500*2800*3500	
	Machine Weight (Approx.)	Kg	约 5000	
	Air Flow	m ³ /min	0.15	

Pursuing Excellence

Customer Satisfaction

Guangdong Xiangweida Technology Co., Ltd.

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