PRATIC

CNC MACHINING CENTER

PROFESSIONAL CNC SOLUTION PROVIDER

CE ISO 9001

PRATIC

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PRATIC reserves the right to modify and improve the appearance, dimensions and specifications of all models without notice. 2023-06A

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Our Company

PRATIC is a state-level high-tech enterprise specializing in R&D, manufacturing, sales and services of intelligent CNC equipment and complete sets of automation equipment. The Company is awarded as one of the state-level Technologically Advanced Small and Medium-sized Enterprises, also known as the "Little Giant", national-level Patent Demonstration Enterprise. The Company operates two modern production bases in Foshan, Guangdong and Changzhou, Jiangsu, with a total area of 130,000m^2.

According to the development needs of equipment manufacturing industry in both domestic and foreign markets, combining the characteristics of traditional processing machines, the Company has introduced and absorbed international advanced technologies and developed high-precision long-stroke moving column profile machining centers, medium and heavy duty gantry machining centers, horizontal machining centers and automatic production lines. The company can provide customers with a complete set of customized machining solutions.

The company`s Products are mainly used in processing of the new energy vehicles battery related parts and aircraft fuselage, wings and other processing fields. The Products have completely realized import substitution in the fields of new energy vehicles and aerospace core components machining, achieved independent development and mass-production of core components, especially the five axis simultaneous power head components, and technically solved the bottlenecks problem in the key mechanical components.

2008
Founded

3500+
Customers

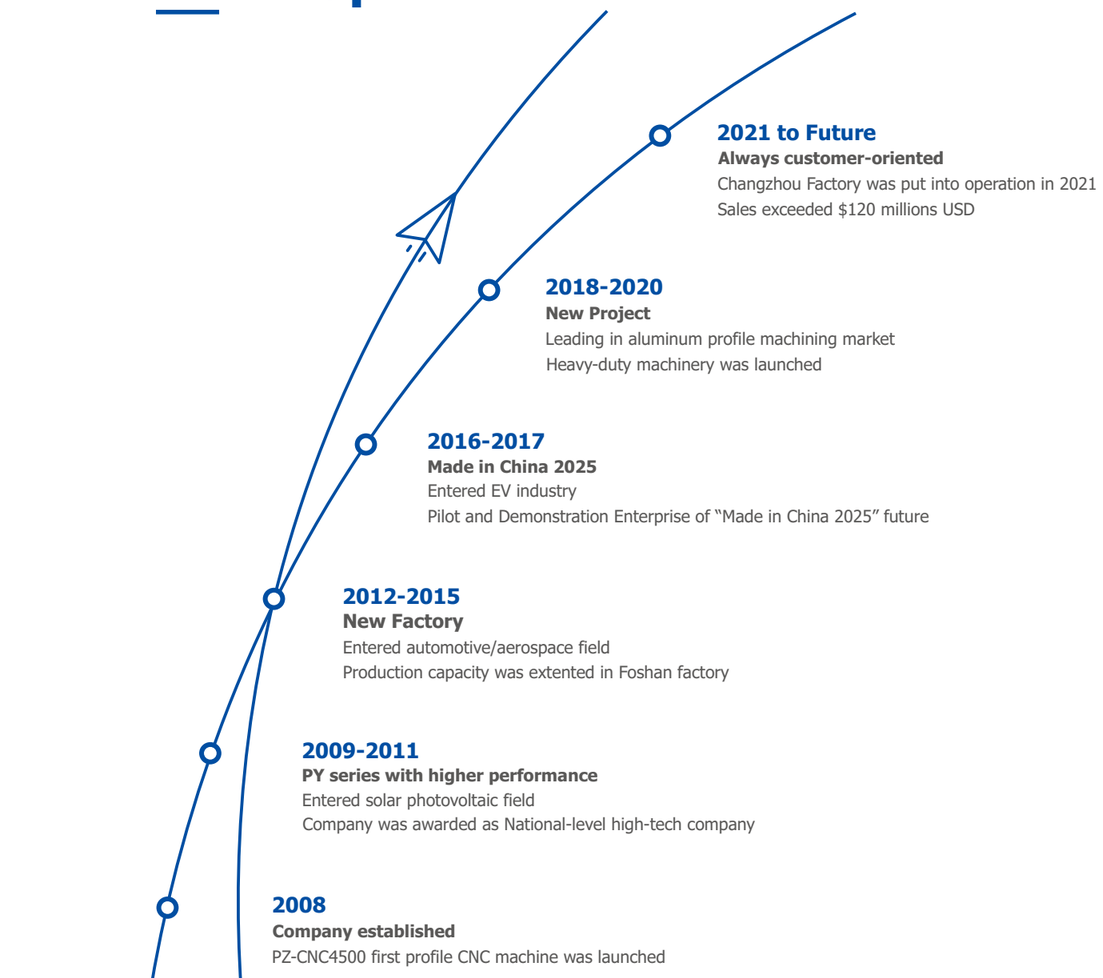
130000
Square meters factory

6500+
Installed machines

1000+
Employees

200+
Patents

Development



2021 to Future
Always customer-oriented
Changzhou Factory was put into operation in 2021
Sales exceeded $120 millions USD

2018-2020
New Project
Leading in aluminum profile machining market
Heavy-duty machinery was launched

2016-2017
Made in China 2025
Entered EV industry
Pilot and Demonstration Enterprise of "Made in China 2025" future

2012-2015
New Factory
Entered automotive/aerospace field
Production capacity was extented in Foshan factory

2009-2011
PY series with higher performance
Entered solar photovoltaic field
Company was awarded as National-level high-tech company

2008
Company established
PZ-CNC4500 first profile CNC machine was launched

Company History

In 2008 when Pratic was established with 30 full-time employees and a 5000 m² facility we start making the PZ series precision long X-Axis moving column profile machines for the domestic market. This machine quickly became very popular in the domestic market. Most of our customers like this model because of its versatility and accuracy and the ability to machine a variety of different parts. During the first four (4) years we had already penetrated the international market with our PZ – CNC4500 series machine and were already looking for additional manufacturing space.

The demand for Pratic's unique design keeps growing year after year. Other models were developed. **In 2012,** Pratic outgrew its 5000 m² facility in Foshan and was forced to occupy an additional 30,000 m² manufacturing facility right in Foshan City of Guangdong Province. During this period Pratic has grown to 200 full-time employees and with 140 patents under its belt. Pratic has now entered the aerospace and automobile industries where there was a growing demand for their ridged long-bed precision machines.

Customer demands keep increasing with requests for customized machines. With Pratic's small R&D department, they work around the clock to fill our customers' requests. **In 2016,** Pratic was fully into the aerospace and automobile industry and was now making machines for the Electric Vehicle (EV) Industry. During this time Pratic engineered and developed the PW, PWA, and PWM series machines.

Pratic continues to grow at a rapid rate with an increase in customer demands, both domestically and internationally. **In 2018,** Pratic researched and developed heavy-duty machinery for large component processes. **In Q2 of 2020,** Pratic broke ground to build their 130,000m facilities in Changzhou, Jiangsu Province. This large manufacturing facility has a special state-of-the-art manufacturing floor design to build large heavy Gantry and Bridge type machining centers. At the end of 2021 sales exceed $120 Million.

Today (2023), Pratic has more than **1000** full-time employees. Our engineering team exceeds 100 talented engineers, 75 full-time sales personnel around the world, and more than 237 patents. We are expected to finish the year with over $120 Million in sales.

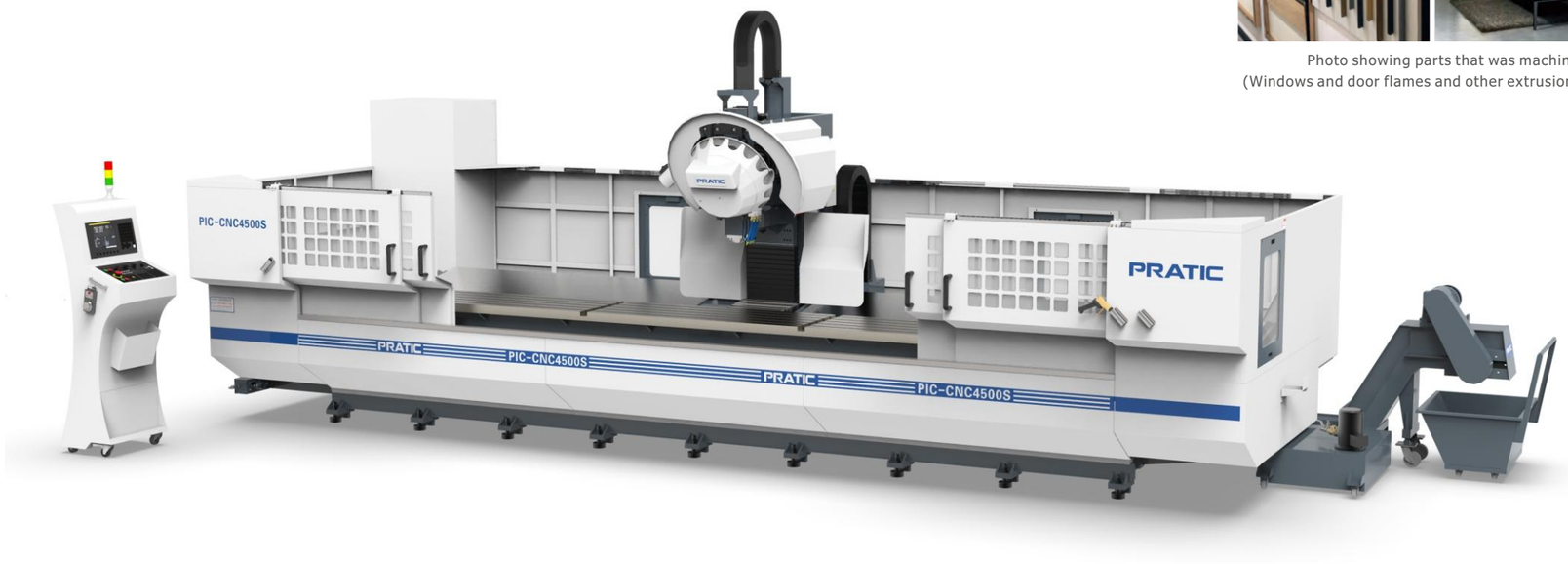
As one of China's National High-Tech Enterprises, Pratic is focused on setting a new standard for manufacturing large heavy-duty machines and long-bed profile machines for all manufacturing industries. Our goal is to capture a major market share in the global market by implementing innovative techniques in Research and Development, Marketing, Manufacturing, and Sales and Services.

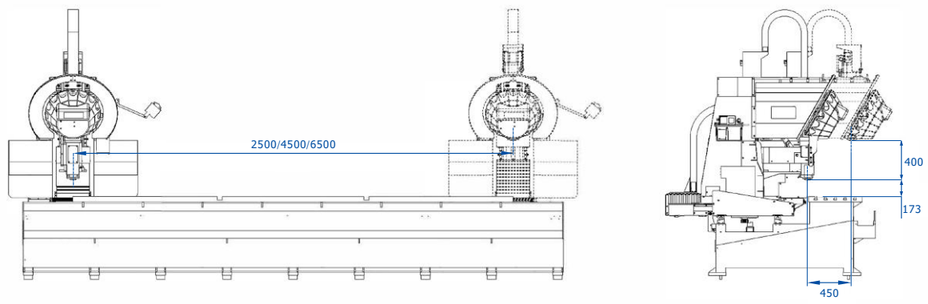
Pratic is proud to accept the nickname "The Little Giant" in the National Level Patent Demonstration Enterprise. We are also proud to be listed in the top 500 Companies in Guangdong Province.

PIC SERIES

3 Axis CNC Profile Machining Center

Photo showing parts that was machine
(Windows and door flames and other extrusion material)





※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

BT30 Welded Bed
Standard Models :
PIC–CNC2500S
PIC–CNC4500S
PIC–CNC6500S
Other lengths can be customized

Product Description

- The PIC model CNC machining center has capability of milling, drilling and tapping.
- PRATIC uses either FANUC or SIEMENS CNC operating controller for this model.
- Machining of various lengths of aluminum and copper frames.
- This machine is capable of high-speed and high-precision machining.
- Equipped with a chip conveyor.
- This PIC model is widely used in electronic appliance, customized furniture, and aluminum frame processing.

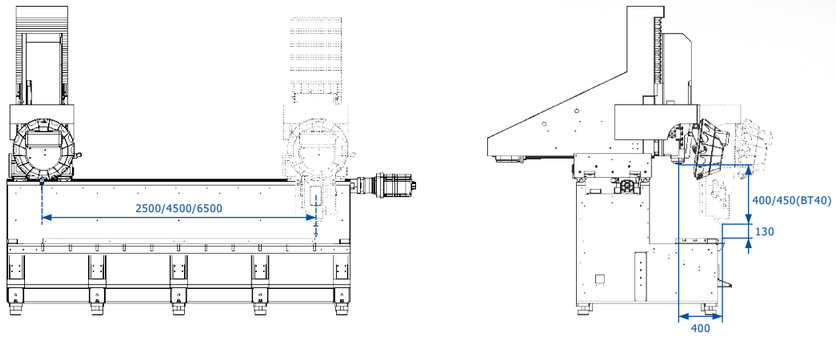
Machine Parameters

TRAVELS		
X-Axis	2500/4500/6500 mm	
Y-Axis	450 mm	
Z-Axis	400 mm	
SPINDLE		
Maximum speed	12000 rpm	
Taper	BT30/SK30/CAT30	
TOOL MAGAZINE		
Type	Arm type	
Capacity	16 pcs	
Maximum tool diameter/length/weight	Φ60mm/250mm/3 kg	
Tool-to-tool time	6 sec	
AXIS FEED RATES		
Rapid on X	60 m/min	
Rapid on Y/Z	28/28 m/min	
X/Y/Z Programmable cutting feed	15000 mm/min	
OPERATING SYSTEM	FANUC	SIEMENS
MOTOR POWER		
Spindle driven motor	5.5/11 kW	7.5/15 kW
X/Y/Z-Axis Drive motor	3.0/1.8/1.8 kW	2.7/2.7/3.1 kW
LUBRICATION AND COOLING SYSTEM		
Lubrication system	Automatic	
Coolant system	Water base	
ACCURACY		
X-Axis Positioning accuracy	0.03 mm	
Y/Z-Axis Positioning accuracy	0.015 mm	
X/Y/Z-Axis Repeat positioning accuracy	0.01 mm	
MECHANICAL SPECIFICATION		
Required pneumatic pressure	6 kg/cm^2	
Machine height	3300 mm	
Machine footprint (L x W)	4800-9200x2800 mm	
Machine weight	6000-9500 kg	

* Parameters above are for reference only

PA SERIES

PA Series CNC Machining Center



※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

BT30 Welded Bed

Standard Models :

PA-CNC2500S

PA-CNC4500S

PA-CNC6500S

Other lengths can be customized

PRATIC

Product Description

- The PA series structure with high machine bed, which can effectively prevent water chips from splashing outside the equipment, meanwhile protect important parts such as guide rails and screw rods, improve the machine's lifetime and reliability.
- The 2500 model optional three-axis screw to meet the needs of higher machining accuracy. The rapid traverse speed can reach 48m/min, superior dynamic performance and higher acceleration;
- Better dynamic performance and higher acceleration of equipment.
- The bottom of the workbench is designed with a large inclined surface for chip removal, which is more convenient for cleaning and chip removal.
- Mainly used for processing aluminum and steel profiles in the industries of automobile, rail transit, machinery manufacturing, etc.

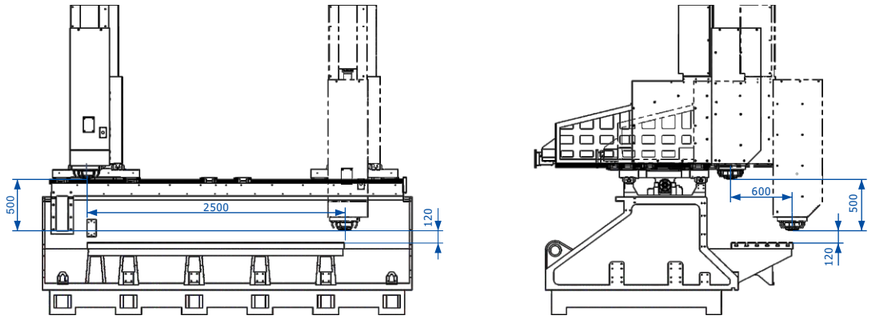
Machine Parameters

TRAVELS		
X-Axis	2500/4500/6500 mm	
Y-Axis	400 mm	
Z-Axis	400 mm	
SPINDLE		
Maximum speed	12000 rpm	
Taper	BT30/SK30/CAT30	
TOOL MAGAZINE		
Type	Arm type	
Capacity	16 pcs	
Maximum tool diameter/length/weight	Φ60mm/250mm/3 kg	
Tool-to-tool time	6 sec	
AXIS FEED RATES		
Rapid on X	48 m/min	
Rapid on Y/Z	48/40 m/min	
X/Y/Z Programmable cutting feed	15000 mm/min	
OPERATING SYSTEM	FANUC	SIEMENS
MOTOR POWER		
Spindle driven motor	5.5/11 kW	7.5/15 kW
X/Y/Z-Axis Drive motor	3.0/3.0/3.0 kW	4.3/3.1/3.3 kW
LUBRICATION AND COOLING SYSTEM		
Lubrication system	Automatic	
Coolant system	Water base	
ACCURACY		
X-Axis Positioning accuracy	0.02 mm	
Y-Z-Axis Positioning accuracy	0.015 mm	
X/Y/Z-Axis Repeat positioning accuracy	0.01 mm	
MECHANICAL SPECIFICATION		
Required pneumatic pressure	6 kg/cm^2	
Machine height	3300 mm	
Machine footprint (L x W)	5500-7700x3200-3300 mm	
Machine weight	6500-8000 kg	

* Parameters above are for reference only

PGB SERIES

PGB Series CNC Profile Machining Center



※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

BT40 Cast Bed
Standard Models :
PGB–CNC2500
Other lengths can be customized

Product Description

- Adopt three-axis screw drive to meet the requirements of high-precision machining, rapid on X/Y/Z is 48/36/36m/min.
- Use international CNC operate system and high-speed motorized spindle.
- Fixed disc-type tool magazine with protective door, better dynamic performance and higher acceleration.
- The high machine bed combined with a fully enclosed protective structure, which effectively isolates water chips from splashing on important components such as guide rails and screw rods, improving equipment lifetime and reliability.
- Widely applied in the aluminum, steel machining of aerospace, military, and industries with high environmental requirements for factory.

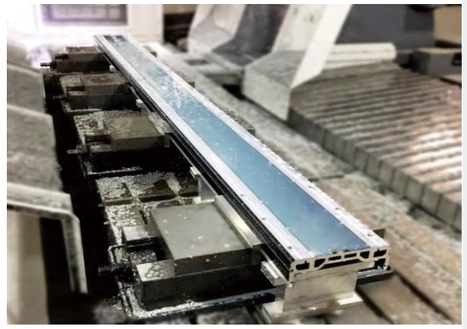
Machine Parameters

TRAVELS		
X-Axis	2500 mm	
Y-Axis	600 mm	
Z-Axis	500 mm	
SPINDLE		
Maximum speed	18000 rpm	20000 rpm
Taper	BT40/SK40/CAT40	
TOOL MAGAZINE		
Type	Disc type	
Capacity	24 pcs	
Maximum tool diameter/length/weight	Φ75mm/300mm/8 kg	
Tool-to-tool time	2 sec	
AXIS FEED RATES		
Rapid on X	48 m/min	
Rapid on Y/Z	36/36 m/min	
X/Y/Z Programmable cutting feed	15000 mm/min	
OPERATING SYSTEM	FANUC	SIEMENS
MOTOR POWER		
Spindle driven motor	16/18.5 kW	20/24 kW
X/Y/Z-Axis Drive motor	3.0/3.0/3.0 kW	5.2/3.1/3.1 kW
LUBRICATION AND COOLING SYSTEM		
Lubrication system	Automatic	
Coolant system	Water base	
ACCURACY		
X-Axis Positioning accuracy	0.02 mm	
Y/Z-Axis Positioning accuracy	0.015 mm	
X/Y/Z-Axis Repeat positioning accuracy	0.01 mm	
MECHANICAL SPECIFICATION		
Required pneumatic pressure	6 kg/cm²	
Machine height	3100 mm	
Machine footprint (L x W)	6200x4000 mm	
Machine weight	12000 kg	

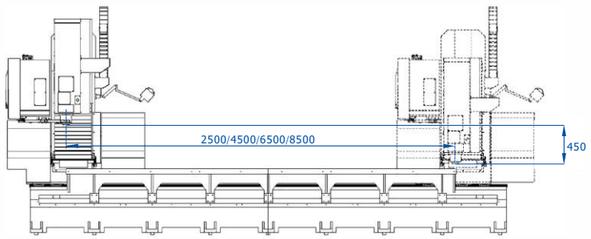
* Parameters above are for reference only

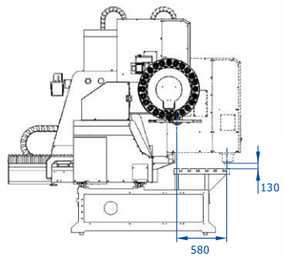
PYC SERIES

3 Axis Long-Travel Moving Column Machining Center



Module processing





※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

BT40 Cast Bed

Standard Models :

PYC–CNC2500

PYC–CNC4500

PYC–CNC6500

PYC–CNC8500

Other lengths can be customized

Product Description

- The PYC model CNC machining center has capability of milling, drilling and tapping.
- PRATIC uses either FANUC or SIEMENS CNC operating controller for this model.
- Machining of various lengths of metal profiles, such as aluminum, steel, and copper.
- Equipment has a protected enclosure.
- Has a high degree of accuracy, rigidity and stability.
- The auto chip conveyor is standard configuration which makes it easier for chip removal.
- This PYC model is widely used in the railway, aerospace, military machinery, module guide and communication industries.

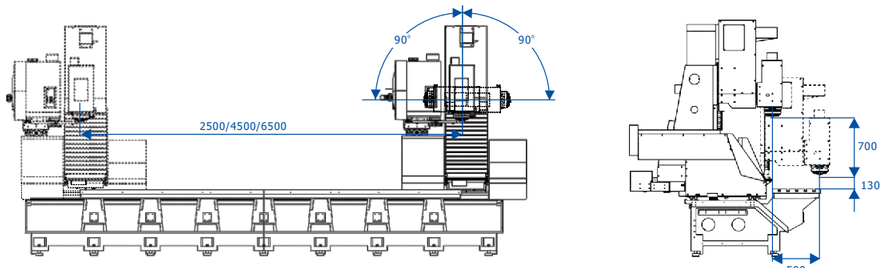
Machine Parameters

TRAVELS		
X-Axis	2500/4500/6500/8500 mm	
Y-Axis	580 mm	
Z-Axis	450/700 mm	
SPINDLE		
Maximum speed	10000 rpm	
Taper	BT40/SK40/CAT40	
TOOL MAGAZINE		
Type	Disc type	
Capacity	24 pcs	
Maximum tool diameter/length/weight	Φ75mm/300mm/8 kg	
Tool-to-tool time	2 sec	
AXIS FEED RATES		
Rapid on X	60 m/min	
Rapid on Y/Z	28/28 m/min	
X/Y/Z Programmable cutting feed	15000 mm/min	
OPERATING SYSTEM	FANUC	SIEMENS
MOTOR POWER		
Spindle driven motor	11/18.5 kW	11/23.2 kW
X/Y/Z-Axis Drive motor	3.0/3.0/3.0 kW	3.1/3.1/3.1 kW
LUBRICATION AND COOLING SYSTEM		
Lubrication system	Automatic	
Coolant system	Water base	
ACCURACY		
X-Axis Positioning accuracy	0.03 mm	
Y/Z-Axis Positioning accuracy	0.015 mm	
X/Y/Z-Axis Repeat positioning accuracy	0.01 mm	
MECHANICAL SPECIFICATION		
Required pneumatic pressure	6 kg/cm^2	
Machine height	2800 mm	
Machine footprint (L x W)	6900-13400x3100 mm	
Machine weight	12000-19000 kg	

* Parameters above are for reference only

PDE4D SERIES

4 Axis CNC Profile Machining Center



※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

BT40 Cast Bed

Standard Models :
PDE4D-CNC2500
PDE4D-CNC4500
PDE4D-CNC6500

Other lengths can be customized

PRATIC

Product Description

- The PDE4D model CNC machining center has capability of milling, drilling and tapping.
- PRATIC uses either FANUC or SIEMENS CNC operating controller for this model.
- Machining of various lengths of metal profiles, such as aluminum, steel, and copper.
- The B-axis which is build into the Z-axis head can rotation ±90° for 4th axis machining with high accuracy.
- The auto chip conveyor is standard configuration which makes it easier for chip removal.
- The PDE4D model is widely used in automotive industry (car bumper, sunroof rail, rack, etc.). It can also machine curved profile.

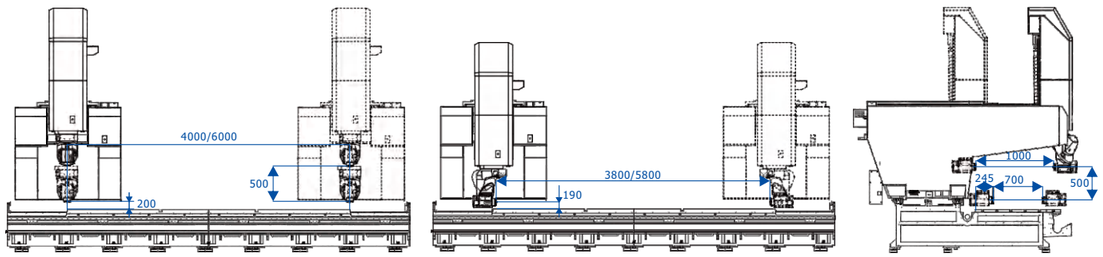
Machine Parameters

TRAVELS		
X-Axis	2500/4500/6500 mm	
Y-Axis	500 mm	
Z-Axis	700 mm	
B-Axis	±90°	
SPINDLE		
Maximum speed	18000 rpm	
Taper	BT40/SK40/CAT40	
TOOL MAGAZINE		
Type	Disc type	
Capacity	24 pcs	
Maximum tool diameter/length/weight	Φ75mm/350mm/8 kg	
Tool-to-tool time	2 sec	
AXIS FEED RATES		
Rapid on X	60 m/min	
Rapid on Y/Z	28/28 m/min	
X/Y/Z Programmable cutting feed	15000 mm/min	
OPERATING SYSTEM	FANUC	SIEMENS
POWER		
Spindle driven motor	16/18.5 kW	15/18.5 kW
X/Y/Z-Axis Drive motor	3.0/3.0/3.0 kW	3.1/3.1/3.1 kW
LUBRICATION AND COOLING SYSTEM		
Lubrication system	Automatic	
Coolant system	Water base	
ACCURACY		
X-Axis Positioning accuracy	0.03 mm	
Y/Z-Axis Positioning accuracy	0.015 mm	
X/Y/Z-Axis Repeat positioning accuracy	0.01 mm	
MECHANICAL SPECIFICATION		
Required pneumatic pressure	6 kg/cm²	
Machine height	3200 mm	
Machine footprint (L x W)	6700-10700x2850 mm	
Machine weight	10500-14700 kg	

* Parameters above are for reference only

PCD5D SERIES

5 Axis Long-Travel Moving Column Machining Center



※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

HSK A63 Cast Bed
Standard Models :
PCD5D–CNC4012
PCD5D–CNC6012
Other lengths can be customized

PRATIC

Product Description

- The PCD5D model CNC machining center is widely used in processing multi angle and special-shaped metal parts for the automotive industry, machinery manufacturing and other metal machining needs.
- PRATIC uses SIEMENS CNC operating controller for this model.
- The precision PRATIC A/C head is built on site. It is fully capable of high accuracy 5-axis machining.
- Machining of various lengths of metal profiles, such as aluminum, steel, and copper.
- The auto chip conveyor is standard configuration which makes it easier for chip removal.

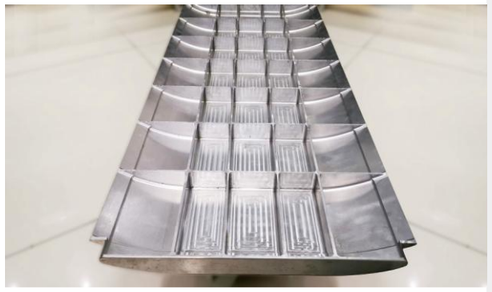
Machine Parameters

TRAVELS	
X-Axis	4000/6000 mm
Y-Axis	1200 mm(3-axis)/700 mm(4-axis)
Z-Axis	500 mm
B-Axis	±185°
C-Axis	±320°
SPINDLE	
Maximum speed	24000 rpm
Taper	HSK A63
TOOL MAGAZINE	
Type	Bamboo hat type
Capacity	20 pcs
Maximum tool diameter/length/weight	Φ100mm/250mm/8 kg
Tool-to-tool time	6 sec
AXIS FEED RATES	
Rapid on X	40 m/min
Rapid on Y/Z	30/20 m/min
X/Y/Z Programmable cutting feed	15000 mm/min
OPERATING SYSTEM	SIEMENS
MOTOR POWER	
Spindle driven motor	20/22.3 kW
X/Y/Z-Axis Drive motor	Double 5.2/3.1/5.2 kW
LUBRICATION AND COOLING SYSTEM	
Lubrication system	Automatic
Coolant system	Water base
ACCURACY	
X-Axis Positioning accuracy	0.03 mm
Y/Z-Axis Positioning accuracy	0.015 mm
X/Y/Z-Axis Repeat positioning accuracy	0.01 mm
MECHANICAL SPECIFICATION	
Required pneumatic pressure	6 kg/cm²
Machine height	3600 mm
Machine footprint (L x W)	9300-11300x3500 mm
Machine weight	21000-24000 kg

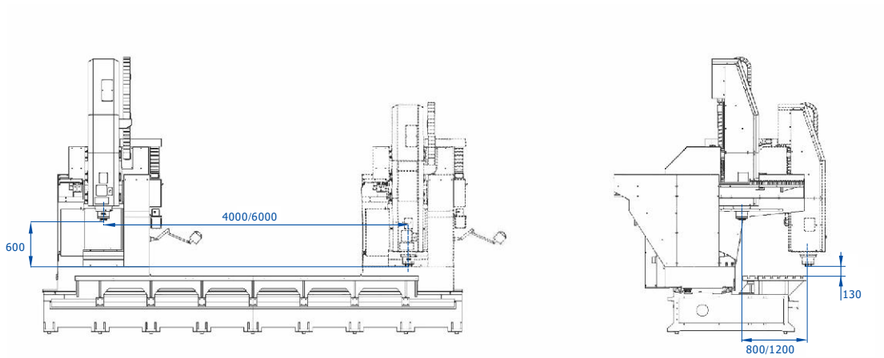
* Parameters above are for reference only

PCD SERIES

3 Axis Long-Travel Moving Column Machining Center



Floor beam



※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

BT40 Cast Bed
Standard Models :
PCD–CNC4008
PCD–CNC4012
PCD–CNC6008
PCD–CNC6012

BT50 Cast Bed
Standard Models :
PCD–CNC4008B
PCD–CNC4012B
PCD–CNC6008B
PCD–CNC6012B
Other lengths can be customized

PRATIC

Product Description

- The PCD model CNC machining center is capable of machining lengths of metal profile, such as aluminum, steel, copper. It also has the capability of milling, drilling and tapping.
- PRATIC uses either FANUC or SIEMENS CNC operating controller for this model.
- The double-arm moving column structure adds strength and stability to the machine. This machine has high accuracy.
- Has a large bevel accordian cover for protection of the guideways.
- The auto chip conveyor is standard configuration which makes it easier for chip removal.
- This PCD model is widely used in the industries of electronic appliance, aerospace, railways, automobile industry, and machinery parts.

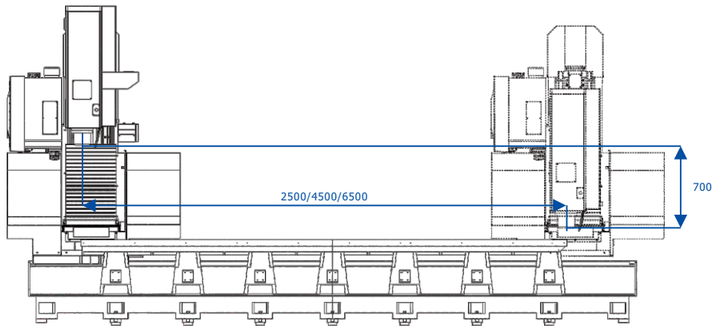
Machine Parameters

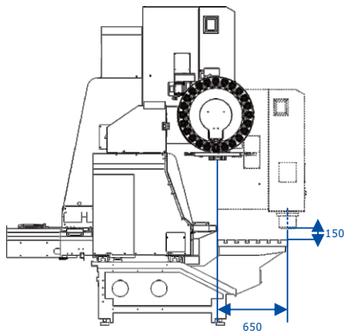
TRAVELS	**BT40**		**BT50**	
X-Axis	4000-6000 mm		4000-6000 mm	
Y-Axis	800-1200 mm		800-1200 mm	
Z-Axis	600 mm		600 mm	
SPINDLE				
Maximum speed	10000 rpm		8000 rpm	
Taper	BT40/SK40/CAT40		BT50/SK50/CAT50	
TOOL MAGAZINE				
Type	Umbrella type		Umbrella type	
Capacity	20 pcs		16 pcs	
Maximum tool diameter/length/weight	Φ100mm/250mm/8 kg		Φ110mm/210mm/15 kg	
Tool-to-tool time	6 sec		6 sec	
AXIS FEED RATES				
Rapid on X	40 m/min		40 m/min	
Rapid on Y/Z	30/20 m/min		30/20 m/min	
X/Y/Z Programmable cutting feed	15000 mm/min		15000 mm/min	
OPERATING SYSTEM	FANUC	SIEMENS	FANUC	SIEMENS
MOTOR POWER				
Spindle driven motor	11/18.5 kW	11/23.2 kW	15/18.5 kW	17/42.4 kW
X/Y/Z-Axis Drive motor	3.0/3.0/3.0 kW	5.2/3.1/5.2 kW	3.0/3.0/3.0 kW	5.2/3.1/5.2 kW
LUBRICATION AND COOLING SYSTEM				
Lubrication system	Automatic		Automatic	
Coolant system	Water base		Water base	
ACCURACY				
X-Axis Positioning accuracy	0.03 mm		0.03 mm	
Y/Z-Axis Positioning accuracy	0.015 mm		0.015 mm	
X/Y/Z-Axis Repeat positioning accuracy	0.01 mm		0.01 mm	
MECHANICAL SPECIFICATION				
Required pneumatic pressure	6 kg/cm²		6 kg/cm²	
Machine height	3700/3500 mm		3700/3600 mm	
Machine footprint (L x W)	9300-11300x3150-3500 mm		9300-11300x3150-3500 mm	
Machine weight	19000-24000 kg		19000-24000 kg	

* Parameters above are for reference only

PYE SERIES

3 Axis Long-Travel Moving Column Machining Center





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BT40 Cast Bed
Standard Models :
PYE–CNC2500
PYE–CNC4500
PYE–CNC6500

BT50 Cast Bed
Standard Models :
PYE–CNC2500B
PYE–CNC4500B
PYE–CNC6500B

Other lengths can be customized

Product Description

- The PYE model CNC machining center has capability of milling, drilling and tapping.
- PRATIC uses either FANUC or SIEMENS CNC operating controller for this model.
- Machining of various lengths of metal profiles, such as aluminum, steel, and copper.
- Equipment has a protected enclosure.
- Has a high degree of accuracy, rigidity and stability.
- The auto chip conveyor is standard configuration which makes it easier for chip removal.
- This PYE model is widely used in the railway, aerospace, military machinery, module guide and communication industries.

Machine Parameters

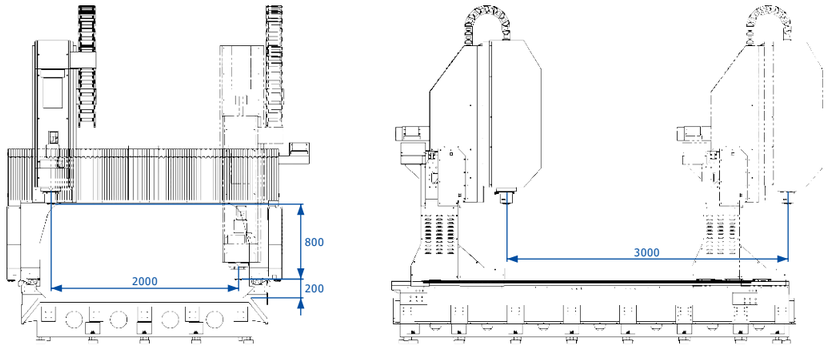
TRAVELS	**BT40**	**BT50**
X-Axis	2500/4500/6500 mm	2500/4500/6500 mm
Y-Axis	650 mm	650 mm
Z-Axis	700 mm	700 mm
SPINDLE		
Maximum speed	10000 rpm	8000 rpm
Taper	BT40/SK40/CAT40	BT50/SK50/CAT50
TOOL MAGAZINE		
Type	Disc type	Disc type
Capacity	24 pcs	24 pcs
Maximum tool diameter/length/weight	Φ75mm/300mm/8 kg	Φ125mm/300mm/18 kg
Tool-to-tool time	2 sec	2 sec
AXIS FEED RATES		
Rapid on X	60 m/min	60 m/min
Rapid on Y/Z	48/40 m/min	48/40 m/min
X/Y/Z Programmable cutting feed	15000 mm/min	15000 mm/min

OPERATING SYSTEM	FANUC	SIEMENS	FANUC	SIEMENS
MOTOR POWER				
Spindle driven motor	11/18.5 kW	13/27 kW	15/18.5 kW	17/42.4 kW
X/Y/Z-Axis Drive motor	6.0/3.0/3.0 kW	5.2/3.1/3.1 kW	6.0/3.0/3.0 kW	8.2/5.4/4.3 kW
LUBRICATION AND COOLING SYSTEM				
Lubrication system	Automatic		Automatic	
Coolant system	Water base		Water base	
ACCURACY				
X-Axis Positioning accuracy	0.03 mm		0.03 mm	
Y/Z-Axis Positioning accuracy	0.015 mm		0.015 mm	
X/Y/Z-Axis Repeat positioning accuracy	0.01 mm		0.01 mm	
MECHANICAL SPECIFICATION				
Required pneumatic pressure	6 kg/cm²		6 kg/cm²	
Machine height	3100 mm		3100 mm	
Machine footprint (L x W)	6900-13400x3100-3200 mm		6900-13400x3100-3200 mm	
Machine weight	12000-17000 kg		12000-17000 kg	

* Parameters above are for reference only

PHE SERIES

3 Axis CNC Gantry Machining Center



※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

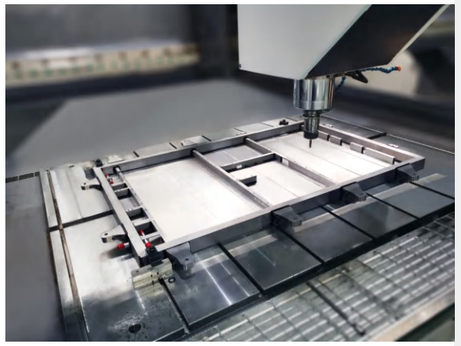


Photo shows battery tray machining

BT40 Cast Bed

Standard Models :

PHE–CNC3020

Other lengths can be customized

Product Description

- The PHE model CNC machining center has capability function of milling, drilling, tapping.
- PRATIC uses International CNC controller system for this model.
- With BT40 spindle and a low machine base design.
- A large range of processing parts, high processing accuracy.
- Equipped with automatic chip conveyor, easy to clean, **optional three-axis screw**.
- This PHE model is widely used in the metal panel processing industries, such as the rail transit, EV battery tray, machinery parts and other fields.

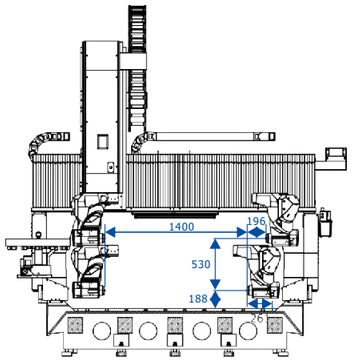
Machine Parameters

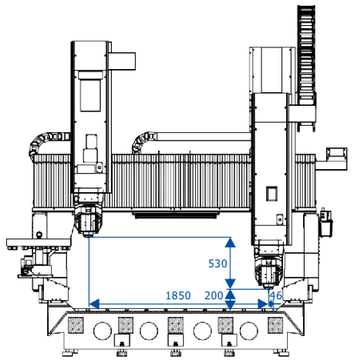
TRAVELS		
X-Axis	3000 mm	
Y-Axis	2000 mm	
Z-Axis	800 mm	
SPINDLE		
Maximum speed	12000 rpm	
Taper	BT40/SK40/CAT40	
TOOL MAGAZINE		
Type	Disc type	
Capacity	24 pcs	
Maximum tool diameter/length/weight	Φ75mm/300mm/8 kg	
Tool-to-tool time	2 sec	
AXIS FEED RATES	**3 axis screw / rack and pinion**	**3 axis screw / rack and pinion**
Rapid on X	42 m/min / 60 m/min	42 m/min / 60 m/min
Rapid on Y	48 m/min / 60 m/min	48 m/min / 60 m/min
Rapid on Z	48 m/min / 48 m/min	48 m/min / 48 m/min
X/Y/Z Programmable cutting feed	20000 mm/min / 15000 mm/min	20000 mm/min / 15000 mm/min
OPERATING SYSTEM	FANUC	SIEMENS
MOTOR POWER		
Spindle driven motor	7.5/15 kW	9/21.2 kW
X-Axis Drive motor	3.0+3.0 kW	5.4+5.4 / 3.1+3.1 kW
Y-Axis Drive motor	3.0 kW	5.4 kw / 3.1 kW
Z-Axis Drive motor	3.0 kW	4.3 kW / 4.3 kW
LUBRICATION AND COOLING SYSTEM		
Lubrication system	Automatic	
Coolant system	Spray/Water base	
ACCURACY		
X-Axis Positioning accuracy	0.025 mm / 0.03 mm	0.025 mm / 0.03 mm
Y-Axis Positioning accuracy	0.02 mm / 0.03 mm	0.02 mm / 0.03 mm
Z-Axis Positioning accuracy	0.015 mm / 0.015 mm	0.015 mm / 0.015 mm
X/Y/Z-Axis Repeat positioning accuracy	0.01 mm / 0.01 mm	0.01 mm / 0.01 mm
MECHANICAL SPECIFICATION		
Required pneumatic pressure	6 kg/cm²	
Machine height	3200 mm	
Machine footprint (L x W)	7100x4100 mm	
Machine weight	14000 kg	

* Parameters above are for reference only

PHE5D SERIES

5 Axis CNC Gantry Machining Center





※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

HSK A63 Cast Bed

Standard Models：
PHE5D-CNC3020

Other lengths can be customized

Product Description

- The PHE5D CNC machining center can mill parts of various configurations.
- Equipped with PRATIC precision A/C head, which has high performance in 5-axis machining.
- The SIEMENS CNC control is used for this model.
- Standard automatic chip conveyor is easy for chip removal.
- The PHE5D is widely used in the machining of multi-angle and special shape metal parts for the automotive industry, machine building industry, and other metal machining needs.

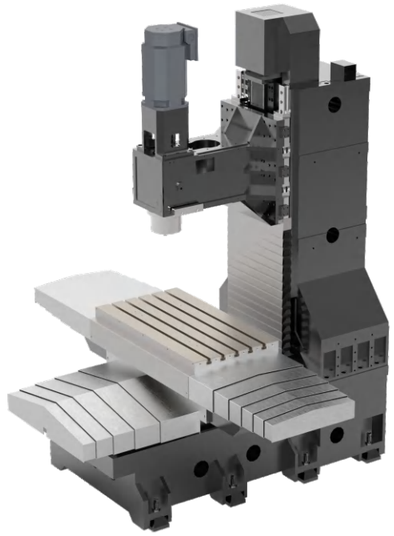
Machine Parameters

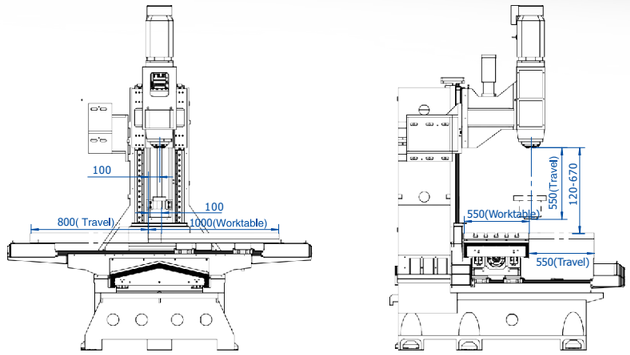
TRAVELS		
X-Axis	3000 mm	
Y-Axis	1850 mm(3-axis)/1400 mm(4-axis)	
Z-Axis	530 mm	
B-Axis	±185°	
C-Axis	±320°	
SPINDLE		
Maximum speed	24000 rpm	
Taper	HSK A63	
TOOL MAGAZINE		
Type	Umbrella type	
Capacity	12 pcs	
Maximum tool diameter/length/weight	Φ75mm/300mm/8 kg	
Tool-to-tool time	2 sec	
OPERATING SYSTEM	SIEMENS	
AXIS FEED RATES	**3 axis screw**	**rack and pinion**
Rapid on X	42 m/min	60 m/min
Rapid on Y/Z	48/48 m/min	60/48 m/min
X/Y/Z Programmable cutting feed	20000 mm/min	15000 mm/min
MOTOR POWER		
Spindle driven motor	20/22.3 kW	20/22.3 kW
X/Y/Z-Axis Drive motor	5.4+5.4/5.4/4.3 kW	3.1+3.1/3.1/4.3 kW
LUBRICATION AND COOLING SYSTEM		
Lubrication system	Automatic	
Coolant system	Water base	
ACCURACY		
X-Axis Positioning accuracy	0.025 mm	0.03 mm
Y/Z-Axis Positioning accuracy	0.02/0.015 mm	0.03/0.015 mm
X/Y/Z-Axis Repeat positioning accuracy	0.01 mm	0.01 mm
MECHANICAL SPECIFICATION		
Required pneumatic pressure	6 kg/cm²	
Machine height	3200 mm	
Machine footprint (L x W)	7100x4100 mm	
Machine weight	14000 kg	

* Parameters above are for reference only

PL SERIES

3 Axis Vertical Machining Centers





※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

Product Description

- The whole machine adopts A-shaped span structure, and the structure is optimized by three-dimensional reducing, which reduces the vibration during strong cutting and makes the machine more rigid.
- The three-axis adopts Taiwan / Japan C3 4016/4012 ball screw, combined with bearings imported from Japan and high-precision lock nuts to ensure the operation accuracy of the machine.
- The three-axis adopts Taiwan / Japan P-grade 45# precision roller guide rail to ensure the machining rigidity of the machine;
- The vertical machining center can be used in the fields of aerospace, auto parts, machinery and mold manufacturing, suitable for high-precision and efficient automatic machining of milling, drilling, tapping and boring of small and medium-sized parts.

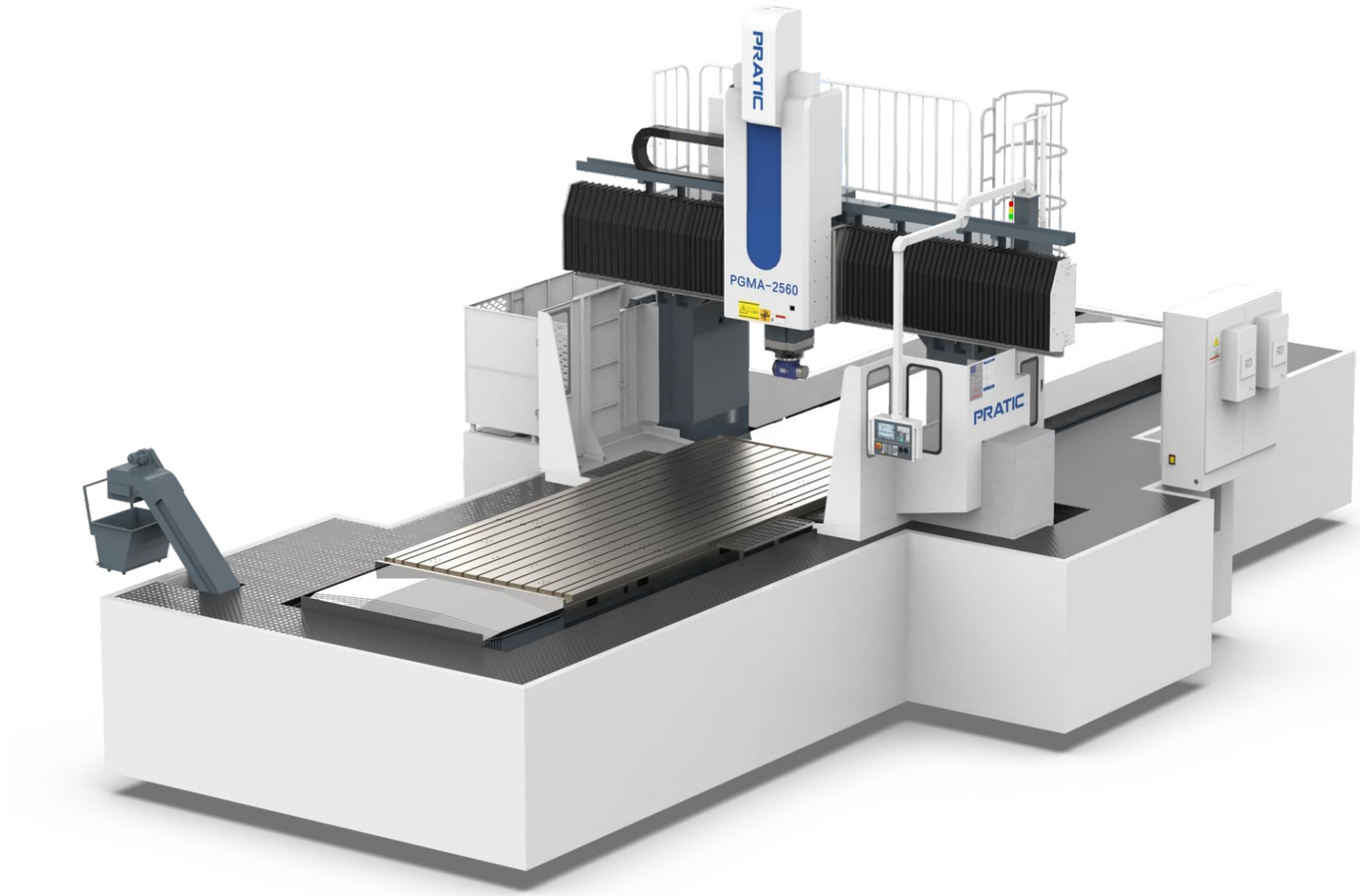
Machine Parameters

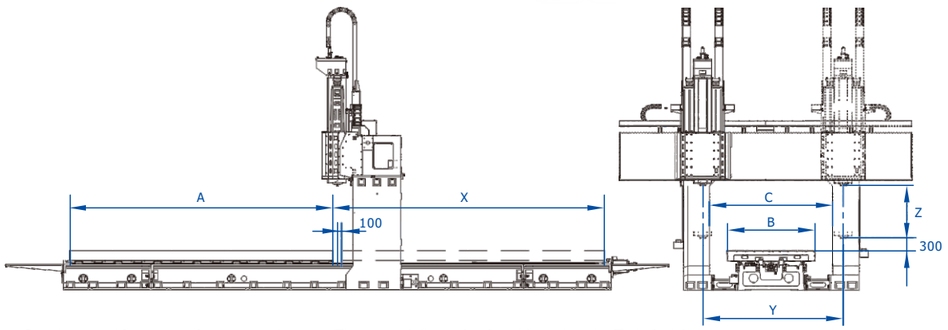
TRAVELS	PL855	PL1165	PL1375
X-Axis	800 mm	1100 mm	1300 mm
Y-Axis	550 mm	650 mm	750 mm
Z-Axis	550 mm	600 mm	600 mm
SPINDLE			
Maximum speed	12000 rpm	12000 rpm	12000 rpm
Taper	BBT40/SK40/CAT40	BBT40/SK40/CAT40	BBT40/SK40/CAT40
TOOL MAGAZINE			
Type	Disc type	Disc type	Disc type
Capacity	24 pcs	24 pcs	24 pcs
Maximum tool diameter/length/weight	Φ75mm/300mm/8 kg	Φ75mm/300mm/8 kg	Φ75mm/300mm/8 kg
Tool-to-tool time	2 sec	2 sec	2 sec
AXIS FEED RATES			
Rapid on X	48 m/min	36 m/min	36 m/min
Rapid on Y/Z	48/48 m/min	36/36 m/min	36/36 m/min
X/Y/Z Programmable cutting feed	10000 mm/min	10000 mm/min	10000 mm/min
OPERATING SYSTEM	FANUC	FANUC	FANUC
MOTOR POWER			
Spindle driven motor	7.5/15 kW	11/18.5 kW	11/18.5 kW
X/Y/Z-Axis Drive motor	1.8/1.8/3.0 kW	3.0/3.0/3.0 kW	3.0/3.0/3.0 kW
LUBRICATION AND COOLING SYSTEM			
Lubrication system	Automatic	Automatic	Automatic
Coolant system	Water base	Water base	Water base
ACCURACY			
X-Axis Positioning accuracy	0.005 mm	0.005 mm	0.005 mm
Y/Z-Axis Positioning accuracy	0.005 mm	0.005 mm	0.005 mm
X/Y/Z-Axis Repeat positioning accuracy	0.005 mm	0.005 mm	0.005 mm
MECHANICAL SPECIFICATION			
Required pneumatic pressure	6 kg/cm^2	6 kg/cm^2	6 kg/cm^2
Machine height	2600 mm	2700 mm	2700 mm
Machine footprint (L x W)	2550x2500 mm	2690x3050 mm	2560x4300 mm
Machine weight	5500 kg	7000 kg	7500 kg

* Parameters above are for reference only

PGMA SERIES

Heavy-duty Portal CNC Machine





※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

Model	A	B	C	X	Y	Z
PGMA-2040	4000	2000	2800	4200	3200	1200
PGMA-2060	6000			6200		
PGMA-2540	4000	2500	3200	4200	3650	1200
PGMA-2560	6000			6200		
PGMA-2580	8000			8200		
PGMA-3060	6000	3000	3700	6200	4200	1200
PGMA-3080	8000			8200		
PGMA-30100	10000			10200		

* Parameters above are for reference only

Product Description

- The machine integrates functions of milling, boring, drilling (drilling, expanding, reaming), tapping.
- The international CNC numerical control system is adopted.
- It is suitable for processing of large parts, plate parts, disc parts, shell parts, molds and other precision parts.
- Features of high precision, high speed, high flexibility and environmental protection.
- The X-axis is supported by four rolling guide rails, and the Z-axis adopts a square ram structure constrained by four sides, with excellent machining rigidity.
- Z-axis feed is driven by double motors and double screws, with better inertia matching and dynamic response.
- It is widely used in the industries of shipbuilding, power generation, heavy machinery, locomotive, textile machinery, printing machinery, mold manufacturing, etc.

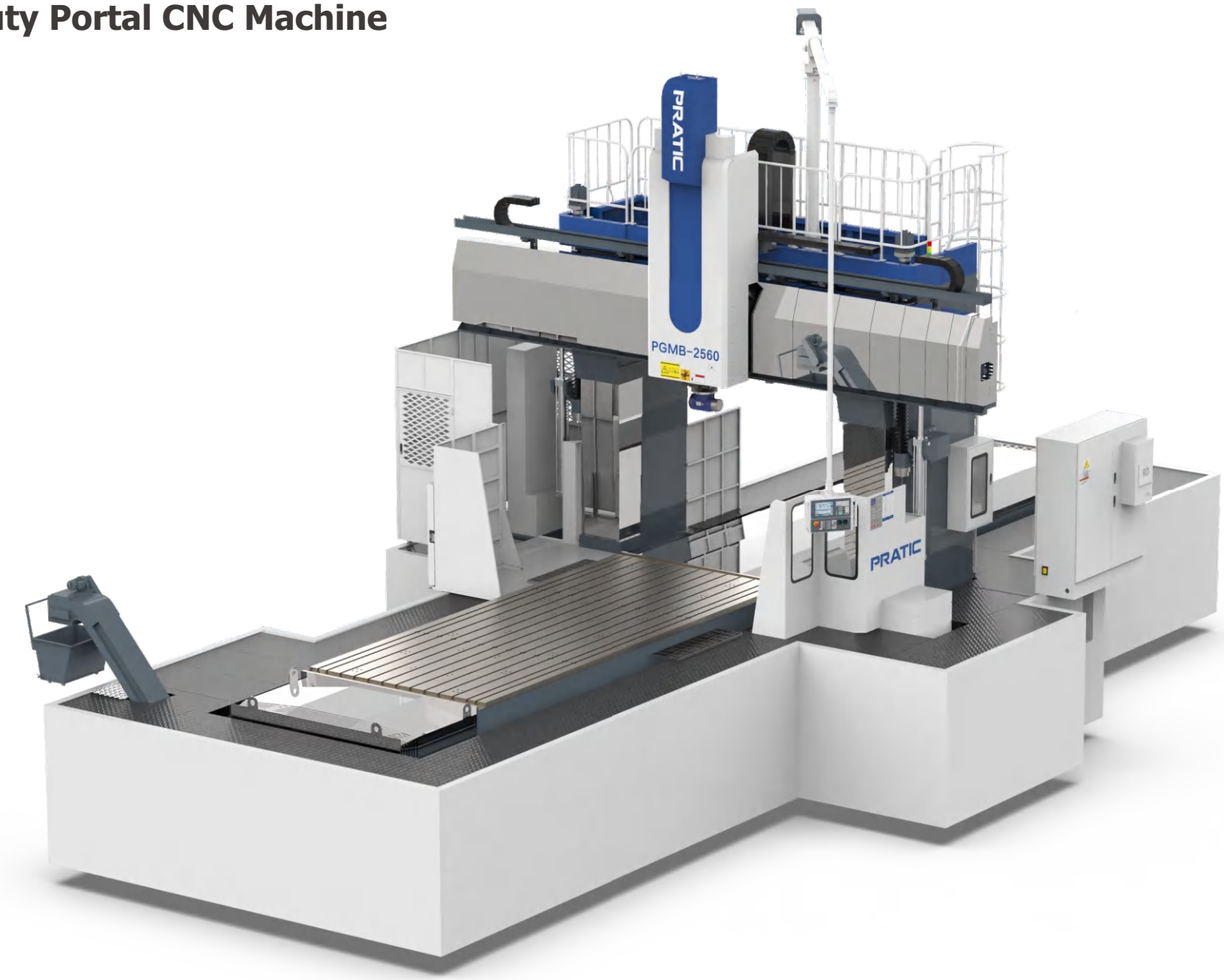
Machine Parameters

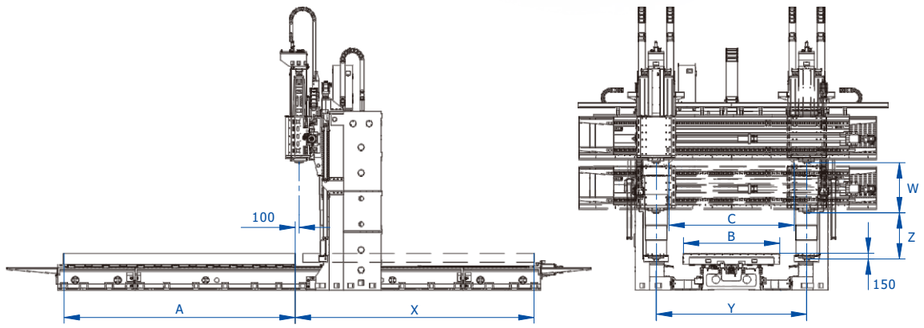
TRAVELS	PGMA-2040/60	PGMA-2540/60/80	PGMA-3040/60/80/100
X-Axis	4200/6200 mm	4200/6200/8200 mm	4200/6200/8500/10500 mm
Y-Axis	3200 mm	3650 mm	4500 mm
Z-Axis	1200 mm	1200 mm	1600 mm
Spindle nose to worktable	300-1500 mm	300-1500 mm	300-1900 mm
Distance between columns	2800 mm	3200 mm	3700 mm
WORKTABLE			
Size of worktable	2000x4000/6000 mm	2500x4000/6000/8000 mm	3000x4000/6000/8000/10000 mm
Maximum loading	20/25 t	20/30/40 t	20/30/40/45 t
T-slots specification	28x200x9	28x200x11	28x200x13
SPINDLE			
Spindle speed	10-4500 rpm	10-4500 rpm	10-2500 rpm
Spindle driven motor(S1/S6-40%)	22/33 kW	22/33 kW	37/55.5 kW
Torque(S1/S6-40%)	1076/1614 N·m	1076/1614 N·m	1873/2810 N·m
Taper	BT 50/SK50/CAT50	BT 50/SK50/CAT50	BT 50/SK50/CAT50
Ram section	400x400 mm	400x400 mm	450x450 mm
TOOL MAGAZINE (OPTIONAL)			
Capacity	24/32 pcs	24/32/40 pcs	24/32/40/60 pcs
Maximum tool diameter	Φ125/Φ250 mm	Φ125/Φ250 mm	Φ125/Φ250 mm
Maximum tool length	400 mm	400 mm	400 mm
Maximum tool weight	25 kg	25 kg	25 kg
AXIS FEED RATES			
Rapid on X/Y/Z	15/15/10 m/min	12/15/10 m/min	10/15/10 m/min
X/Y/Z Programmable cutting feed	6/6/6 m/min	6/6/6 m/min	6/6/6 m/min
PRECISION			
X-Axis Positioning accuracy	0.025/0.035 mm	0.025/0.035/0.045 mm	0.025/0.035/0.045/0.055 mm
X-Axis Repositioning accuracy	0.015/0.025 mm	0.015/0.025/0.035 mm	0.015/0.025/0.035/0.045 mm
Y/Z-Axis Positioning accuracy	0.02/0.015 mm	0.025/0.015 mm	0.04/0.018 mm
Y/Z-Axis Repositioning accuracy	0.012/0.01 mm	0.015/0.01 mm	0.03/0.012 mm
LUBRICATION AND COOLING SYSTEM			
Lubrication system	Automatic		
Coolant system	Headstock & Spindle oil cooling, Tool water cooling		
MECHANICAL SPECIFICATION			
Operation system	SIEMENS/FANUC		
Required pneumatic pressure	6 kg/cm²	6 kg/cm²	6 kg/cm²
Machine height	6700 mm	6700 mm	8000 mm
Machine footprint (L x W)	12000/16000x7000 mm	12000/16000/20000x7000 mm	12000/16000/20000/25000x9000 mm
Machine weight	50/59 t	52/62/72 t	80/90/100/110 t

* Parameters above are for reference only

PGMB SERIES

Heavy-duty Portal CNC Machine





※ Standard machine processing range reference. The above information is subjected to the Technical Agreement.

Model	A	B	C	X	Y	Z	W
PGMB–2560	6000	2500	3200	6200	3900	1200	1300
PGMB–2580	8000			8200			
PGMB–3060	6000	3000	3700	6200	4400	1200	1300
PGMB–3080	8000			8200			
PGMB–30100	10000			10200			

* Parameters above are for reference only

Product Description

- The machine integrates functions of milling, boring, drilling (drilling, expanding, reaming), tapping.
- The international CNC numerical control system is adopted.
- It is suitable for processing of large parts, plate parts, disc parts, shell parts, molds and other precision parts.
- Features of high precision, high speed, high flexibility and environmental protection.
- Compared with the fixed-beam machine, the height range of the workpiece is larger, and the W-axis stroke and Z-axis stroke can be superimposed, which can effectively prevent the ram from extending too long and affect the machining rigidity.
- It is widely used in the industries of shipbuilding, power generation, heavy machinery, locomotive, aerospace, textile machinery, printing machinery, mold manufacturing, etc.

Machine Parameters

TRAVELS	PGMB2560/80	PGMB3040/60/80/100
X-Axis	6200/8200 mm	4200/6200/8500/10500 mm
Y-Axis	3900 mm	4500 mm
Z-Axis	1200 mm	1200 mm
W-Axis	1300 mm	1300 mm
Spindle nose to worktable	0-2350 mm	0-2350 mm
Distance between columns	3200 mm	3700 mm
WORKTABLE		
Size of worktable	2500x6000/8000 mm	3000x4000/6000/8000/10000 mm
Maximum loading	30/40 t	20/30/40/45 t
T-slots specification	28x200x11	28x200x13
SPINDLE		
Spindle speed	10-4500 rpm	10-4500 rpm
Spindle driven motor(S1/S6-40%)	22/33 kW	22/33 kW
Torque(S1/S6-40%)	1076/1614 N·m	1076/1614 N·m
Taper	BT 50/SK50/CAT50	BT 50/SK50/CAT50
Ram section	400x400 mm	400x400 mm
TOOL MAGAZINE (OPTIONAL)		
Capacity	40/60 pcs	40/60 pcs
Maximum tool diameter	Φ125/Φ250 mm	Φ125/Φ250 mm
Maximum tool length	400 mm	400 mm
Maximum tool weight	25 kg	25 kg
AXIS FEED RATES		
Rapid on X/Y/Z/W	12/15/10/3 m/min	10/15/10/3 m/min
X/Y/Z Programmable cutting feed	6/6/6 m/min	6/6/6 m/min
PRECISION		
X-Axis Positioning accuracy	0.035/0.045 mm	0.025/0.035/0.045/0.055 mm
X-Axis Repositioning accuracy	0.025/0.035 mm	0.015/0.025/0.035/0.045 mm
Y/Z/W-Axis Positioning accuracy	0.03/0.015/0.015 mm	0.04/0.015/0.015 mm
Y/Z/W-Axis Repositioning accuracy	0.02/0.01/0.01 mm	0.03/0.01/0.01 mm
LUBRICATION AND COOLING SYSTEM		
Lubrication system	Automatic	
Coolant system	Headstock & Spindle oil cooling, Tool water cooling	
MECHANICAL SPECIFICATION		
Operation system	SIEMENS/FANUC	
Required pneumatic pressure	6 kg/cm²	6 kg/cm²
Machine height	8000 mm	8000 mm
Machine footprint (L x W)	16000/20000x7800 mm	12000/16000/20000/25000x8500 mm
Machine weight	75/85 t	75/85/95/105 t

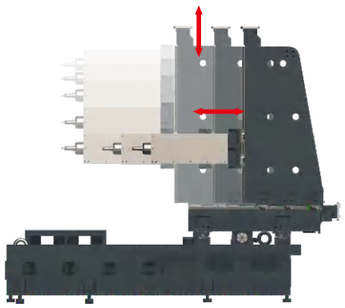
* Parameters above are for reference only

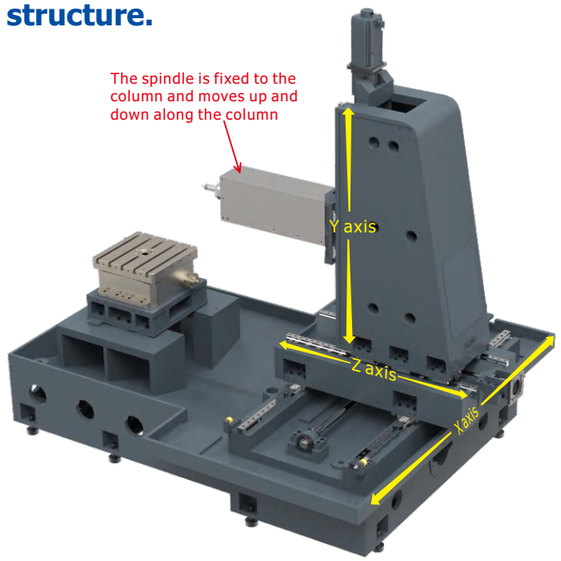
PW SERIES

Multi-Function Horizontal Machining Center

PW Series spindle assembly casting structure.

- The spindle structure for the PW Series is fixed to a movable structure (saddle) on the X-Axis.
- The saddle along the X-Axis moves for an X^+ and an X^- move.
- The column that sits on the saddle moves forward and backward for a Z-Axis move.
- The Z-Axis that is fixed to the column moves up and down for a Y-Axis move.





Product Description

- Integrated with the functions of milling, boring, drilling, reaming and tapping.
- This machine is a horizontal machining center, and the headstock adopts fixed-distance structure.
- Clamping options: Double working-zone horizontal four-axis, Double working-zone horizontal five-axis, Double working-zone horizontal trunnion type.
- Applied for making: 5G radiator cover, big antenna, automobile engine, gearbox bottom case, new energy vehicle control box, battery pack, LED display box.

Machine Parameters

TRAVELS	PW-CNC8050A	PW-CNC1160A	PW-CNC1360A
X-Axis	800 mm	1100 mm	1300 mm
Y-Axis	800 mm	1100 mm	1300 mm
Z-Axis	500 mm	600 mm	600 mm
SPINDLE			
Maximum speed	20000 rpm	20000 rpm	20000 rpm
Taper	BT40/SK40/CAT40	BT40/SK40/CAT40	BT40/SK40/CAT40
TOOL MAGAZINE			
Type	Disc type	Disc type	Disc type
Capacity	32 pcs	32 pcs	32 pcs
Tool-to-tool time	3 sec	3 sec	3 sec
AXIS FEED RATES			
Rapid on X/Y/Z	48/48/48 m/min	48/48/48 m/min	48/48/48 m/min
X/Y/Z Programmable cutting feed	15000 mm/min	15000 mm/min	15000 mm/min
MOTOR POWER			
Spindle driven motor	20 kW	20 kW	20 kW
X/Y/Z-Axis Drive motor	5.4/3.6/2.9 kW	5.4/3.6/2.9 kW	5.4/3.6/2.9 kW
LUBRICATION AND COOLING SYSTEM			
Lubrication system		Automatic	
Coolant system		Water base	
ACCURACY			
X-Axis Positioning accuracy	0.01 mm	0.01 mm	0.01 mm
Y/Z-Axis Positioning accuracy	0.01 mm	0.01 mm	0.01 mm
Repeat positioning accuracy	±0.005/300 mm	±0.005/300 mm	±0.005/300 mm
MECHANICAL SPECIFICATION			
Required pneumatic pressure	6 kg/cm^2	6 kg/cm^2	6 kg/cm^2
Operating system	SIEMENS	SIEMENS	SIEMENS
Machine height	2750 mm	3100 mm	3350 mm
Machine footprint (L x W)	3000x4200 mm	3400x4250 mm	3400x4250 mm
Machine weight (turntable not included)	8000 kg	10000 kg	11000 kg

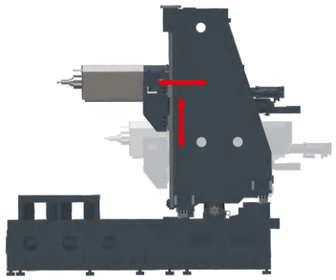
* Parameters above are for reference only

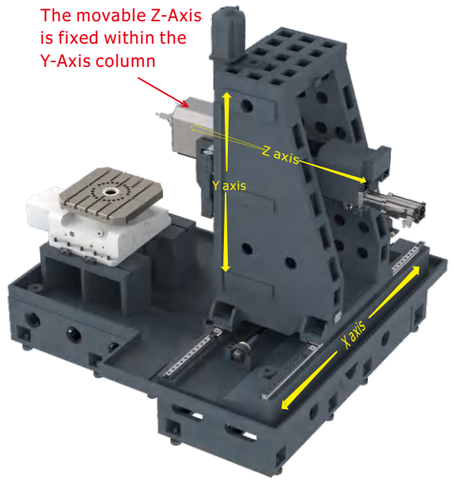
PWA SERIES

Multi-Function Horizontal Machining Center

PWA Series spindle has a moving structure.

- The spindle structure for the PWA Series is a movable structure on the column that travels along the X-Axis linear guides.
- The column moves along the X-Axis for an X+ and an X- move with the help of a ball screw.
- The Z-Axis move moves in and out of the column while the Y-Axis movement is done up and down.





Product Description

- Integrated with the functions of milling, boring, drilling, reaming and tapping.
- This machine is a horizontal machining center, and the headstock adopts hanging structure to enhance the machine rigidity.
- Clamping options: Double working-zone horizontal four-axis, Double working-zone horizontal five-axis.
- Applied for making:5G radiator cover, big antenna, automobile engine, gearbox bottom case, new energy vehicle control box, battery pack, LED display box and so on.

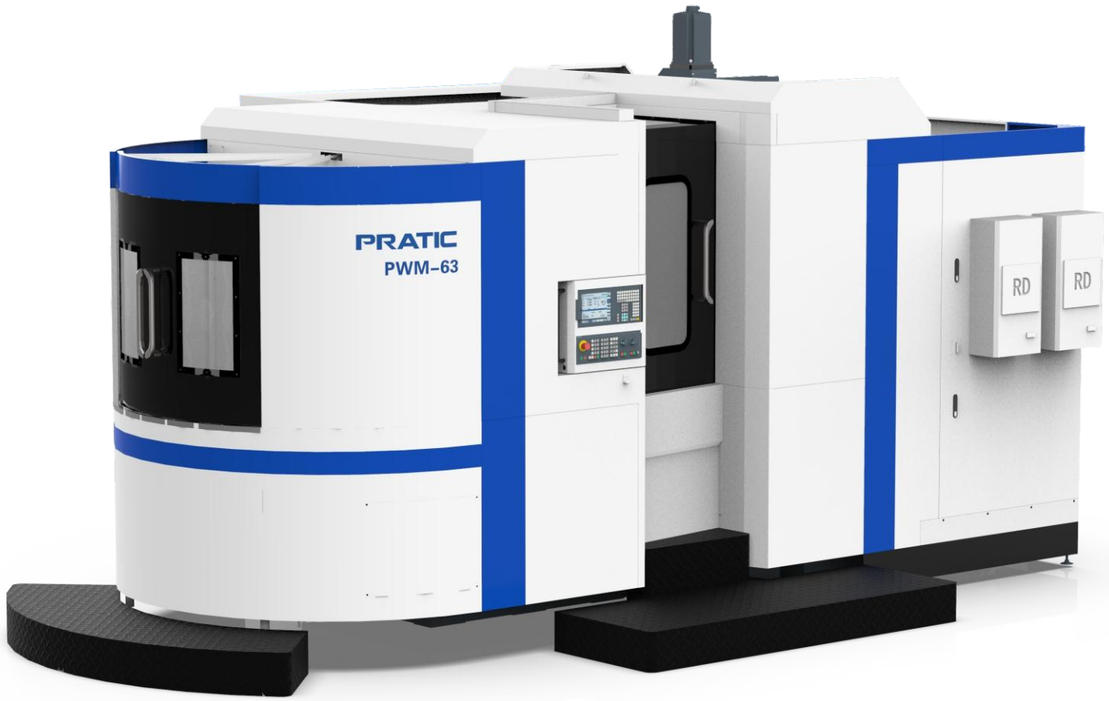
Machine Parameters

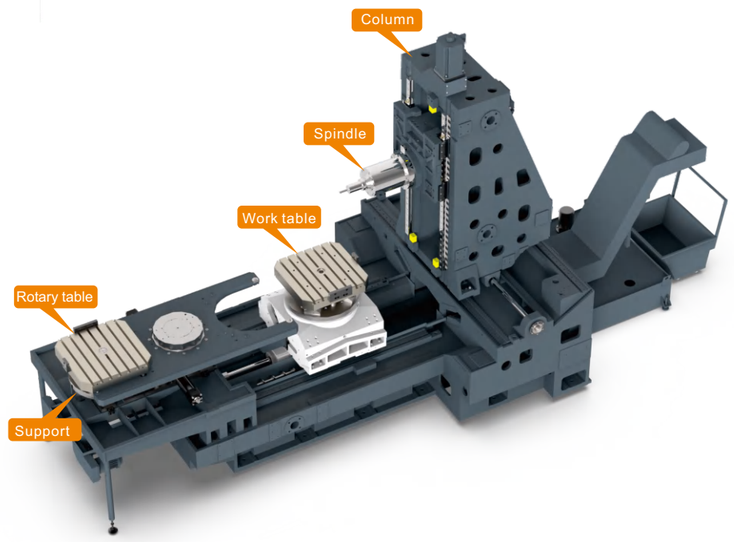
TRAVELS	PWA-CNC8050	PWA-CNC1160	PWA-CNC1514
X-Axis	800 mm	1100 mm	1500 mm
Y-Axis	800 mm	1100 mm	1400 mm
Z-Axis	500 mm	600 mm	600 mm
SPINDLE			
Maximum speed	12000 rpm	12000 rpm	12000 rpm
Taper	BT40/SK40/CAT40	BT40/SK40/CAT40	BT40/SK40/CAT40
TOOL MAGAZINE			
Type	Disc type	Disc type	Disc type
Capacity	32/36 pcs	32/36 pcs	32/36 pcs
Tool-to-tool time	3 sec	3 sec	3 sec
AXIS FEED RATES			
Rapid on X/Y/Z	40 m/min	40/40/48 m/min	30/30/48 m/min
X/Y/Z Programmable cutting feed	15000 mm/min	15000 mm/min	15000 mm/min
MOTOR POWER			
Spindle driven motor	14 kW	14 kW	14 kW
X/Y/Z-Axis Drive motor	4.4/4.4/2.3 kW	5.2/7.7/2.3 kW	5.2/7.7/2.3 kW
LUBRICATION AND COOLING SYSTEM			
Lubrication system		Automatic	
Coolant system		Water base	
ACCURACY			
X-Axis Positioning accuracy	0.01 mm	0.01 mm	0.01 mm
Y/Z-Axis Positioning accuracy	0.01 mm	0.01 mm	0.01 mm
Repeat positioning accuracy	±0.005/300 mm	±0.005/300 mm	±0.005/300 mm
MECHANICAL SPECIFICATION			
Required pneumatic pressure	6 kg/cm^2	6 kg/cm^2	6 kg/cm^2
Operating system	SIEMENS	SIEMENS	SIEMENS
Machine height	2850 mm	3200 mm	3600 mm
Machine footprint (L x W)	3100x6050 mm	3500x6350 mm	5450x6800 mm
Machine weight (turntable not included)	12500 kg	12800 kg	18500 kg

* Parameters above are for reference only

PWM SERIES

Multi-Function Horizontal Machining Center





Product Description

- The machine integrates functions of milling, boring, drilling (drilling, reaming, expanding), tapping, etc.
- The international CNC numerical control system is adopted.
- The main machine adopts the advanced T-shaped body structure, gantry column, hanging-structured spindle box, with high rigidity, high precision retention, suitable for rough machining and finish machining of precise box parts.
- It is widely used in the automotive, rail transit, aerospace, valves, mining machinery and other machinery industries.

Machine Parameters

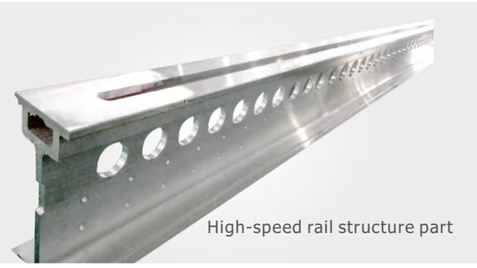
TRAVELS	PWM-63	PWM-80
X-Axis	1000 mm	1300 mm
Y-Axis	900 mm	1100 mm
Z-Axis	1000 mm	1200 mm
SPINDLE		
Maximum speed	6000 rpm	6000 rpm
Spindle driven motor	17/20.4 (S1/S6-60%) kW	17/20.4 (S1/S6-60%) kW
Spindle taper	BT50/SK50/CAT50	BT50/SK50/CAT50
FEED		
Moving speed	24 m/mim	24 m/mim
Cutting programmable feed	15000 mm/mim	15000 mm/mim
Positioning accuracy	0.012 mm	0.012 mm
Repeat positioning accuracy	0.008 mm	0.01 mm
Acceleration	0.2 G	0.2 G
TOOL MAGAZINE		
Type	Chain type	Chain type
Capacity	40 pcs	40 pcs
Maximum tool diameter	Φ220 mm	Φ220 mm
Tool-to-tool time	5.5 sec	5.5 sec
COVER		
Machine protection	Full enclosure	Full enclosure
Guideway protection	Full enclosure	Full enclosure
MECHANICAL SPECIFICATION		
Required pneumatic pressure	6 kg/cm^2	6 kg/cm^2
Machine height	3450 mm	4000 mm
Machine width	3950 mm	4800 mm
Machine length	7150 mm	9300 mm
Machine weight	19 t	25 t

* Parameters above are for reference only

Samples

Profile machine application

Aircraft wing structure part



High-speed rail structure part

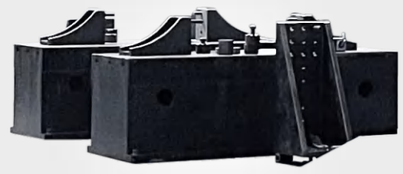
Aircraft wing accessory

Beam

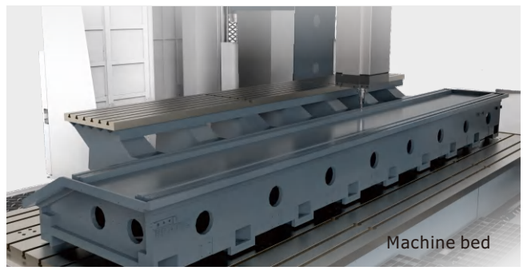
Heavy-duty gantry application

Ship fairlead

Machine bed

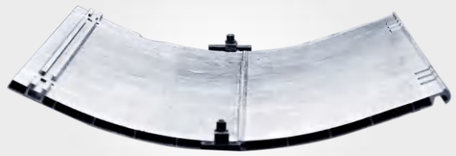


Machine bed

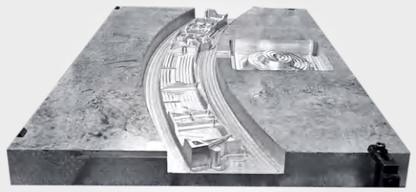


Machine bed

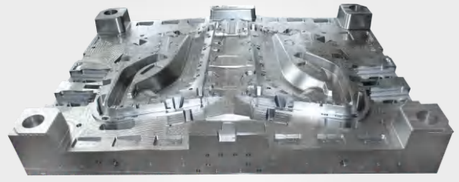
Bridge gantry machine application



Aerospace part



Aerospace part



Mold

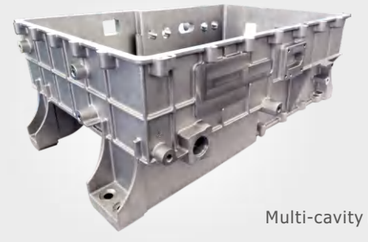
Rear floor

Horizontal machine application

Subframe

LED backplane

Auto part

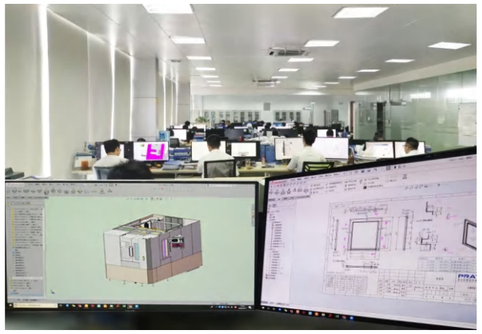


Multi-cavity box

Research And Development

Our R&D Team

- Pratic has a very dedicated intelligent team that focuses on building equipment that will have a long life span. Our R&D team makes up 20% of the total amount of employees at Pratic.
- The annual budget is 6% of our total annual revenue.
- The R&D team are professionals with a Bachelor's or Master's degree in Scientific and Research Development who are committed to strengthening our company.
- This team is made up of talents from various areas, such as Mechanical/Electrical/Computer Integration Engineer, Mechanical Design, Mold Design, CNC Programming, Industrial Design, Equipment Optimization, Implementation of new Technology, and Robotics.
- Pratic is confident that they have a strong R&D team who are committed to meeting or exceeding expectations within the company. We continue to look for talents in various areas so we can further strengthen our team who in turn strengthens our product line.



20% of total employees

6% of annual revenue

2 Technical Centers

237 Patents

Research and Technology

- Currently, Pratic has more than 284 patents which include 140 inventions patents, 88 utility model patents, 7 appearance patents, and 6 software copyrights patents.
- Pratic ensures that the hard work of our employees is well protected. Therefore, we have a dedicated Intellectual Property Rights Department that helps us to protect our innovative ideas.
- Pratic rewards its employees for their innovation and encourages them to continue to be innovative. Even the smallest idea can be of significant value to our company.
- Pratic was awarded as an "Advantage Enterprise on National Intellectual Property."

Quality Control

Quality Inspection

- Pratic strongly emphasizes quality within the manufacturing/assembly department. Our employees are trained on a regular basis and are tested at the end of the training. We implemented 6S and Lean Manufacturing platforms within the entire company. All production processes are strictly controlled and meet the requirement of our ISO 9001 Standard and Certification. We have frequent quality audits within all manufacturing areas in the company.
- Pratic received its ISO 9001 Certification in 2015.
- All Pratic machines are CE Certified.

Manufacturing floor inspection and certification for all machines.


Laser Interferometer Inspecting


Ballbar Inspecting

Flatness Inspecting

Three-coordinate Inspecting

- Measurement instruments used are from high-end manufacturers (Mitutoyo, Starrett, Fowler, Fluke, etc.)
- All measuring tools are frequently calibrated according to the manufacturer's standard specifications.
- Pratic has highly trained professionals within the Quality Department.
- Continuous quality training is provided to the team.
- The Quality Department has quality tools that are set up to identify failure at each step in the process.
- Pratic invests in this department because we want to ensure that quality is built into each machine shipped to our customers.
- Feedback from our customers regarding the quality of our machines has a "thumbs-up."

Manufacturing

- Pratic has extremely talented machining personnel that machine casting for our machines and other various parts.
- Machining is done to the highest quality standards. This is extremely important for us so we can reduce our defect rate to stay competitive in this industry.
- We use imported brands of machines from Japan and Germany together with our own brand (PRATIC) for machining castings and other structures of these machines.
- Pratic department leaders are fully trained and have years of manufacturing experience. They are required to train their employees and perform audits on work being done.
- New employees go through a probation period before they are allowed to work on their own or with teams.

Global Cooperation

Global Partners

Served Brands

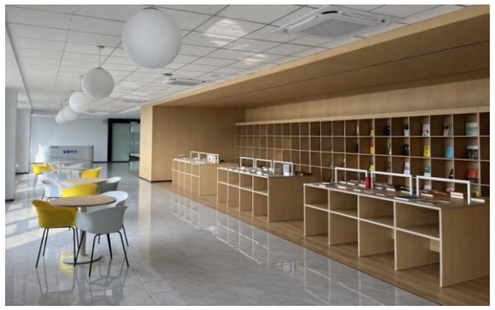
Corporate Environment

Fitness Facilities

Pratic has a gym for its employees to use to help them maintain good mental and physical health. We strongly encourage all our employees to take full advantage of this wellness program. Everyone knows the benefit of exercising.

leisure and Entertainment

Pratic provide a r entertainment space for all their employees. Our Tea and coffee Bar, all employees can enjoy coffee and tea anytime.



Book Corner

Pratic provide a book corner for its employees to read during their spare time, books are of different categories.

Celebration/Function

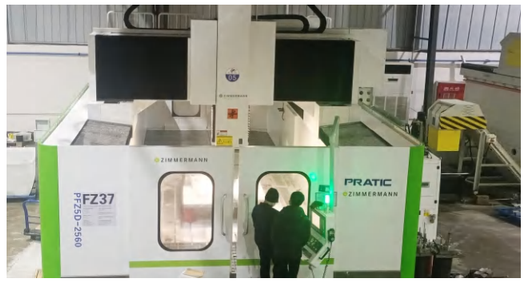
Each month Pratic celebrates employees' birthdays for that month. We also celebrate anniversaries and employee awards.

Customer Site

In the past period of time, Pratic has focused on the manufacture of high-performance CNC machining centers, and has developed a mature CNC machining center manufacturing industry. Our products cover vertical, horizontal and gantry machining centers, successfully served customers from different industries and became good partners with them.

Machine processing industry customer site 5+ machines

Shipbuilding industry customer site 3+ machines



Aerospace industry customer site 2+ machines

EV industry 40+ machines

EV industry 60+ machines

EV industry 100+ machines

Rail transportation industry 100+ machines

Rail transportation industry 40+ machines

Household electrical appliances industry 60+ machines

Household electrical appliances industry 30+ machines

Automation module industry 40+ machines

Automation module industry 10+ machines

Automobile industry 10+ machines

Automobile industry 30+ machines