EP Series

PRECISION MICRO FINE
HIGH SPEED MACHINING CENTER

EP-4200 / EP-6200

WMENT
World Industry Ment

EP Series

PRECISION MICRO FINE HIGH SPEED MACHINING CENTER

High Productivity and Stable Precision

- LM Guide Rail is used for stable precision maintenance and high-speed operation.
- Improved quality and productivity with the built-in high-speed spindle
- Increased productivity with automatic tool changer
- Linear scale applied to all axes

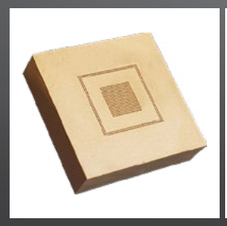
Improved User Convenience and Eco-friendliness

- Convenient work setting with rotating control panel (the control panel rotates by 90 degrees)
- Greater operator convenience with wider door opening
- Improved operator efficiency with optimal table height
- Eco-friendly grease lubrication applied to all feed axes

Mamufacturing **Innovation**

Optimal Production System with High Productivity, Stable Precision, and Reasonable Economy

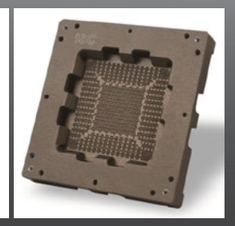
Wiment's Precision Micro Fine HIGH SPEED MACHINING CENTER EP Series can bring innovation to
your production activities with best-in-class speed, various machining capabilities, and optimal user convenience.


Ceramic


Quartz


Silicon(Si,Sic)


Aluminium



Highly Stable Box-Type Bed

- Box type bed structure, stable high rigidity, reliability for high speed acceleration and deceleration, and continuous high precision maintenance
- By integrating the gate-type column and X-axis rail, the dense Lib arrangement of the frame absorbs vibration and maintains rigidity against twisting and bending.

520x440x200 mm EP-4200

650x620x200 mm EP-6200

PRECISION MICRO FINE HIGH SPEED MACHINING CENTER

High Speed Built-in Spindle

The high-speed, high-precision built-in spindle provides improved quality and productivity. The design employs ultra-precision, high-speed angular ball bearings to achieve a maximum spindle speed of 40,000 to 60,000 rpm to meet a wide range of machining needs.

Short Pitch Feed Shaft Screw

The short-pitch feed shaft screw provides improved feed thrust and quick response to motion commands, leading to the maintenance of high precision.

Standard LM Guide Rail Installation

LM Guide Rail (standard) is used to maintain high-speed operation and high precision to improve productivity and product quality. (rail & ball screw NSK standard)

Minimal Slide Cover Frictional Resistance

By minimizing the frictional resistance of the slide cover, the quality of the workpiece is improved through smooth transfer.

Forced Water Cooling for Spindle

Forced water cooling method for the spindle ensures stable spindle precision.

Linear Scale on All Axes

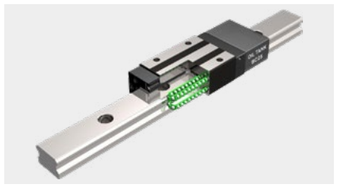
By installing scales (standard) on all axes (X, Y, Z), stable positional accuracy can be maintained.

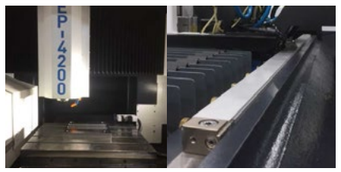
Equipped with Z-axis Balance Cylinder

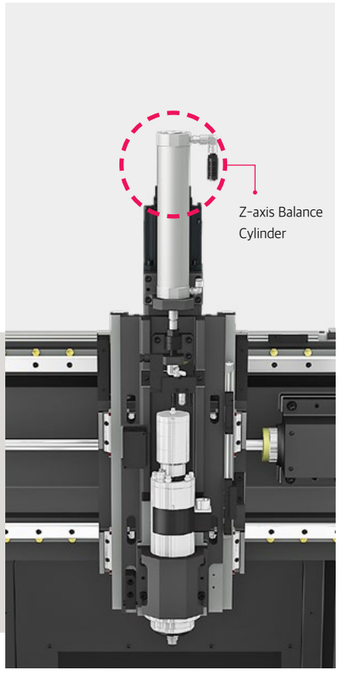
The Z-axis balance cylinder helps reduce the load on the Z-axis servo motor and ball screw, thereby improving the durability of the Z-axis ball screw along with excellent precision.

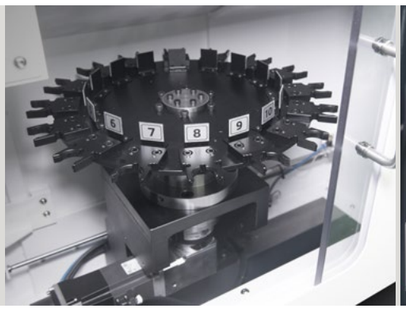
Automatic Grease Lubricating Device

Grease lubricating device is applied as standard to prevent corruption of cutting oil and product contamination. Along with quality improvement, maintenance costs are reduced compared to oil lubricants.









Option

Additional Optional Features for All Your Needs

Work Measuring System

Touch Sensor Tool

The touch sensor tool measures the processing standard of the workpiece through the contact signal between the measuring device and the workpiece, and automatically sets the coordinate values of the basic coordinate system.

Cutting Oil Cooling Device (Tank Integrated)

The cutting oil cooling device minimizes the increase in the cutting oil temperature that may occur during long-term machining in the machining center, minimizing displacement by heat of tools and workpieces to maintain accurate and consistent quality workpieces.

Automatic Tool Changer

- 16 tools (standard)

Oil Skimmer

The oil skimmer improves the purity of cutting oil by purifying moisture, cutting oil, and floating substances mixed in the cutting oil tank for machine tools, and improves the cutting power and precision of machine tools by separating moisture and suspended substances.

Laser Tool Setter

- NC4F115 Kit (Renishaw) (optional)

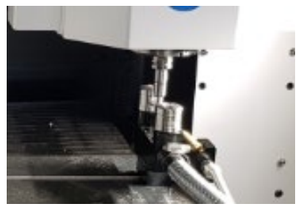
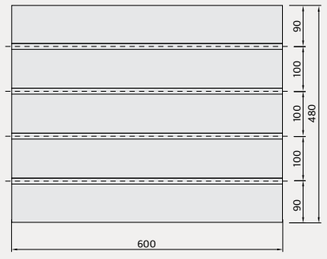
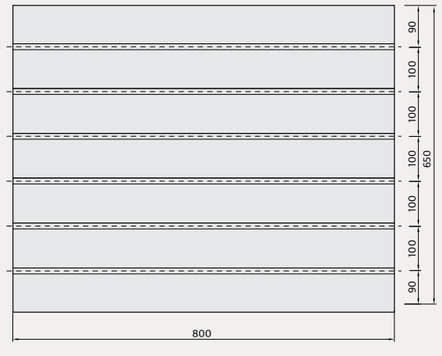


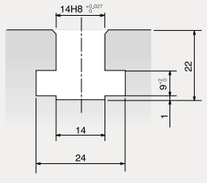
Table unit : mm

EP-4200



EP-6200

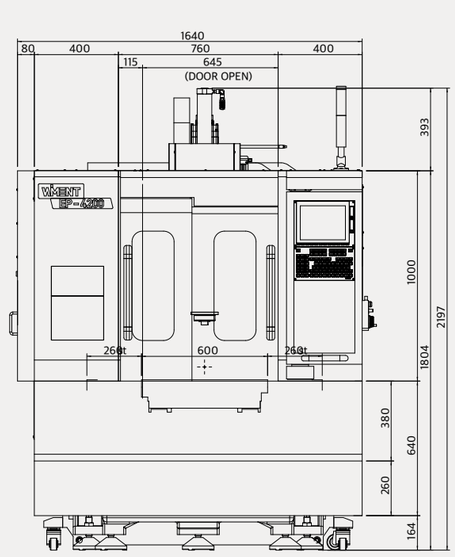


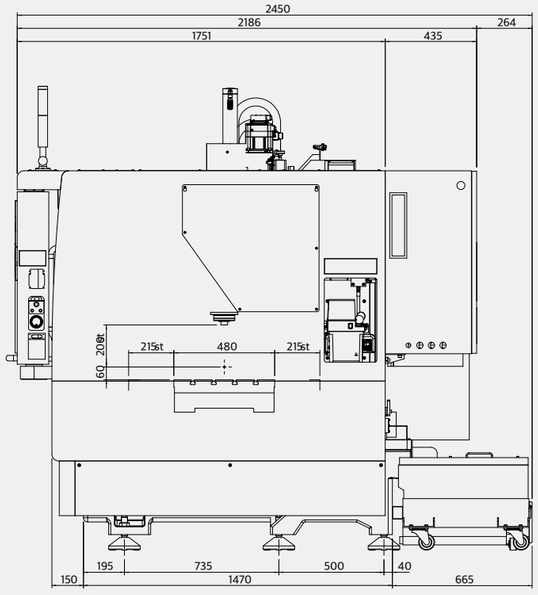


Specifications

Outline Drawing unit: mm

EP-4200





Machine Specifications

[Option]

Description		Unit	EP-4200		EP-6200	
Travel	X-Axis	mm	520		650	
	Y-Axis	mm	440		620	
	Z-Axis	mm	200		200	
Spindle Nose to Table top		mm	60 ~ 260		60 ~ 260	
Rapid Traverse (X/Y/Z)		m/min	20 / 20 / 20		20 / 20 / 20	
Table	Table Size	mm	600 x 480		800 x 650	
Spindle	Spindle Taper	-	HSK-E25	HSK-E32	HSK-E25	HSK-E32
	Motor Power	Kw	3.7	5.5	3.7	5.5
	Spindle Speed	r/min	46,000	38,000	46,000	38,000
	Power Trans	-	Built-in		Built-in	
	Spindle Cooling	-	Chiller cooling (water)		Chiller cooling (water)	
Machine	Flood Space (L x W)	mm	1,640 x 2,450			
	Height (H)	mm	2,270			
	Weight (std. M/C)	kg	3,250			
Controller	NC Unit	-	Mitsubishi (M80) [Siemens (808)]		Mitsubishi (M80) [Siemens (808)]	
	NC Display	-	10.4" Color LCD		10.4" Color LCD	
M/C Dimension (std. M/C)		mm	W 1,640 x L 2,200 x H 2,190			

*Remark.
Machine specifications and other features are subject to change without notice

CNC Specifications

[Option]

Item	Spec.
Control Axis	3-Axis (X, Y, Z)
Least input increment	0.0001 mm
Feed rate override	0 to 200% (10% unit)
Program storage capacity	2m Byte
Number of Registered programs	400 EA
Tool offset amount	400 EA
Optional block skip	
Mirror image	
Alarm history display	
Display	10.4" LCD (color)
Language	Kor, Eng, Chn, Jpn
Program data input	G10
Program edit	
Background edit	

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