

Cincinnati U5 Series Universal Machining Centers



The Cincinnati U5 brings lean part processing capability to large, complex parts

- Five-sided, large part manufacturing
- Full 5-axis processing capability
- Superior structural rigidity for aggressive machining
- Large selection of spindle-head configurations permit a variety of processing operations
- Fully automatic head and tool changing increases productivity
- Rail-type configuration provides extended X-travels
- Large diameter rotary table options allow additional processing flexibility for mill-turning and single-point turning

The Cincinnati U5 universal machining centers feature a fixed crossrail, vertical-type gantry design with superior structural rigidity to aggressively machine a variety of materials: steel, cast iron, titanium, and aluminum. The versatile U5 produces accurate parts at higher throughput rates, resulting in the lowest cost per part.

Configuration options

Ready-for-anything configurability—select from a range of features and options to match your processing needs.

- Expandable X-axis travel for virtually unlimited range
- Adaptable for multiple work zones
- Wide variety of spindle-head configurations
- Automatic head changer and head storage
- Automatic tool changer with expandable tool storage
- Choice of coolant and chip conveyor systems
- Large diameter rotary table options

Spindle head options

- Vertical spindle
- Horizontal spindle
- 2-axis, A/C gimballed type
- Specialty heads



Automatic head changing



Automatic tool changing



Vertical spindle



Horizontal spindle



Gimballed head



Specialty heads

Technical specifications	U5 1000R	U5 1500R	U5 2000R / 2500R
Machine range			
X-axis basic		4260 mm (168 in)	
X-axis optional increments		3658 mm (144 in)	
Y-axis	2500 mm (100 in) 3650 mm (144 in)	3650 mm (144 in) 5000 mm (197 in) > 5000 mm available	3650 mm (144 in) 5000 mm (197 in) > 5000 mm available
Z-axis	1000 mm (40 in)	1500 mm (60 in)	2000 mm (80 in) 2500 mm (100 in)
C-axis (if applicable)		360 degrees	
A-axis (if applicable)		+100 / -90 degrees	
Feed / traverse rates			
X-axis / Y-axis		Up to 20 m/min (787 ipm)	
Z-axis	20 m/min (787 ipm)	12.7 m/min (500 ipm)	
C-axis (if applicable)		2880 dpm	
A-axis (if applicable)		2880 dpm	



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