

HORIZONTAL CENTER UNIVERSAL SERIES

Simple But Innovative Machining Centers

The new HORIZONTAL CENTER UNIVERSAL (HCU) Series, which currently consists of the 4000 and 5000 models, has a price-performance ratio that's unmatched in high-precision parts manufacturing.

In fact, these 4-axis machines offer the perfect balance of innovative technology, increased productivity and maximum value which is ideal for shops of all production volumes that want to increase business without making a huge capital investment.



HORIZONTAL CENTER UNIVERSAL 5000



Production-On-Demand

Mazak designs and builds its HORIZONTAL CENTER UNIVERSAL machines at its North American Manufacturing Plant in Florence, Kentucky. The facility uses a Production-On-Demand approach that allows the company to shorten its overall lead times and minimize inventory levels to ensure every machine coming off the line features the latest technology.

Series Characteristics

- Highly robust spindle design delivers unbeatable performance in all common materials
- Cam-driven automatic tool changer significantly reduces non-cut times
- Reliable tool monitoring maximizes production efficiency
- Expandable tool storage ensures part production versatility
- Standard equipped NC-positioning table provides precise 4-axis machining
- Optional NC-rotary table offers accurate simultaneous 4-axis contouring
- Mazak MX Hybrid Roller Guide System provides unmatched rigidity, speed and accuracy
- Coolant-cored ball screws help maintain a constant machine temperature
- One-piece X-axis way cover offers easy maintenance and prevents chip contamination
- Heavy-duty machine base and column with three-point leveling creates high stability
- SMART CNC offers easy programming and fast job set up
- Easily pairs with hydraulic fixtures to further increase productivity

	HCU 4000	HCU 5000
Square Pallet Size	15.75"	19.69"
Spindle Taper	CAT 40	CAT 40
Spindle Speeds (rpm)	12,000 (standard) 20,000 (optional)	12,000 (standard) 20,000 (optional)
Tool Storage	40 (standard) 60, 80 and 120 (optional)	40 (standard) 60, 80 and 120 (optional)
Axis Travels (X/Y/Z)	22"/25.2"/25.2"	28.74"/28.74"/31.49"



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