

High speed, high accuracy 5-axis machining center for micro precision machining "UD-400/5X"

YAMAZAKI MAZAK CORPORATION has introduced the ultra-high precision, simultaneous 5-axis machining center the "UD-400/5X" for the micro precision machining of dies and components such as those found in the medical industry.

Production equipment used for micro precision machining require high accuracy and high machining stability to produce high quality machined surfaces. Yamazaki Mazak has developed the "UD-400/5X" to meet these requirements based on MAZAK's extensive precision machining technology and expertise accumulated over many years.

The UD-400/5X is an ultra high precision simultaneous 5-axis machining center provides the highest accuracy and exceptional surface finishes thanks to the exceptional design rigidity and the thermal displacement stability ensured in all machine units.

Vibration is minimized during high speed operation by the rigid base and column and their high damping capability. The symmetrical design of the double column construction minimizes heat displacement. The high speed main spindle motor (45000rpm) with its integral spindle/motor design the direct drive motors used for the rotary axes do not use any gears or belts for the drive systems to minimize vibration and to realize high speed response. Additionally, the spindle and ball screw core cooling systems minimize heat generation during operation and the thermal shield accurately and automatically compensates for changes in the room temperature. With these functions and design, the UD-400/5X realizes stable, high accuracy machining over extended periods of high speed operation and ensures exceptional surface finishes together with high productivity.

Domestic and international sales of this new machine will start during its exhibition at the European International Machine Tool Exhibition (EMO Hannover 2017) held in Hannover, Germany from September 18th to the 23rd.



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This information is subject to change without notice.