

"HCR-5000S"

Simultaneous 5-axis horizontal machining center

YAMAZAKI MAZAK CORPORATION has introduced the simultaneous 5-axis horizontal machining center the "HCR-5000S" for high speed, high precision machining of components such as those found in the aerospace industry.

Yamazaki Mazak has developed the HCR-5000S to perform high speed, high precision machining based on Mazak's extensive technology and expertise of horizontal machining centers and simultaneous 5-axis processing machines accumulated over many years. This machine is designed with high speed response to complex simultaneous 5-axis processing thanks to the exceptional design rigidity and is able to shorten cycle times significantly. A newly-developed cantilever-type tilting rotary table and a center trough conveyer immediately under the machining area provides exceptionally smooth chip flow. Additionally, the standard equipment coolant tank has a large-capacity of 800L allowing a large volume of coolant to be discharged from nozzles to prevent machine chips from accumulating in the machining area. The main spindle is available with 4 specifications - from the standard 12000 rpm to the optional high speed, high output 30,000 rpm 80 kW specification. This wide variety of main spindle specifications makes it possible to meet a wide range of production requirements. Continuous stable machining accuracy is ensured by ball screw core cooling, spindle temperature control and the covering of the machine base so that it will not be affected by hot chips or coolant.

The machine is designed to provide unsurpassed ease of operation and maintenance with features such as the excellent accessibility to the table for loading and unloading parts, the large window for convenient machining monitoring by the operator and units requiring frequent access in one central location.

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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