

COMMERCIAL TECHNICAL DATA SHEET

5-Axis Simultaneous Vertical Machining Center | Mazak VARIAXIS C-600

 Overview

The **Mazak VARIAXIS C-600 (Year 2022)** is a premium machining center engineered to deliver exceptional performance in continuous 5-axis simultaneous milling. Equipped with the advanced *Mazatrol Smooth X* control technology, a high-speed 18,000 RPM spindle, and an expanded 60-tool magazine, this machine is perfect for complex workpieces requiring high precision and superior surface finishes.

 Technical Specifications and Machine Configuration

Category	Parameter / Feature	Value / Details
Identification	Manufacturer, Model & Year	Mazak VARIAXIS C-600 / Year 2022
Status & Logistics	Availability Location	Italy (ready for inspection and shipment)
Machining Mode	Axis Capability	Continuous simultaneous 5-axis machining
Axis Capacities	X / Y / Z Axis Travel	650 x 550 x 530 mm
Table Dimensions	Table Surface Size	730 x 450 mm
Table Dimensions	Table Type / Configuration	Rigid T-slot table
Table Dimensions	Max. Table Load Capacity	500 kg
Pallet System	Number of Pallets	1
Spindle Performance	Max. Spindle Speed	18,000 RPM
Spindle Performance	Spindle Motor Power	15 kW
Spindle Performance	Tool Taper Size	ISO 40
Tool System	Tool Magazine Capacity	60 stations (Automatic Tool Changer)
Cooling System	Through-Spindle Coolant	20 BAR
Cooling System	Air Blast Option	Air blast on spindle face / flange
Probing System	Measurement Probe	Renishaw probe included
CNC Control	Control System	Mazak Smooth X
Manual Operation	Operator Accessories	Remote handwheel
Machine Dimensions	Total Machine Weight	10,000 kg

Commercial Advantages for the Client

- **Elite Japanese engineering:** The Smooth X controller ensures ultra-fast computing times and unmatched operator ergonomics.
 - **True 5-axis continuous milling:** Enhances component quality by removing multiple setups and reducing manual error risks.
 - **Ready-to-run automation:** The integrated Renishaw probe allows swift part setup and tool measurements, optimizing production cycles.
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