

5-Axis Dual-Spindle Turning Center

This 5-axis dual-spindle turning center is designed for complex machining operations. Its dual-spindle configuration allows for simultaneous machining, reducing cycle times and increasing productivity.



Product Overview



Technical diagram showing the 5-axis dual-spindle configuration.

High-Performance 5-Axis Dual-Spindle Turning Center

The TC500 is a versatile dual-spindle turning center designed for complex machining operations, featuring a Y-axis power-driven turret at a 45-degree angle. With simultaneous part docking capabilities between the main and sub spindles, this machine optimizes cycle times and increases manufacturing productivity. Its robust construction with linear guide ways across X, Y, Z, and E axes ensures high precision and reliability for demanding industries such as aerospace, automotive, and medical manufacturing.

Machining Capacity

Workpiece Specifications

510 mm Swing Over Bed	320 mm Max Turning Diameter	439 mm Max Turning Length
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Axis Travel (X/Y/Z)	190 / 495 / ±52 mm
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Spindle Performance

Main Spindle Details

Feature	Specification
Speed	4500 rpm
Spindle Nose	A2-6
Bore	61 mm
Chuck Size	8 inch

Sub-Spindle Details

Feature	Specification
Speed	6000 rpm
Spindle Nose	A2-5
Bore	42.5 mm
Chuck Size	6 inch

Tooling and Turret

Turret Specifications

- Type: Power Driven Turret
- Number of Tool Stations: 12
- Tool Size: 25x25 / 132mm

Features

Standard Equipment	Hydraulic 3-Jaw Chuck, 12 Power Driven Station Turret, Automatic Lubrication System, Automatic Coolant System, Main and Sub Spindle
Optional Equipment	CNC Control Systems, Chip Conveyor, Tool Setter, Alternative Chucks and Collets

General

Physical Characteristics

4200 kg Machine Weight	2950 mm Length	1850 mm Width	2050 mm Height
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