

# 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

<b>510 mm</b> Swing Over Bed	<b>320 mm</b> Max Turning Diameter	<b>439 mm</b> 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