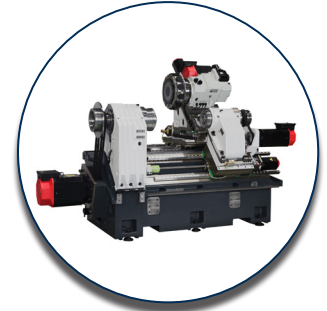


# Tornado SL20/25 MSY Sub-Spindle CNC Turning Centre



Built to last, with outstanding machining efficiency.



Heavy Duty  
Construction

The Tornado SL20/25 MSY is designed to deliver unparalleled productivity and versatility with its integrated sub-spindle and Y-axis capabilities. This advanced CNC turning centre supports 5-axis single-hit machining, allowing manufacturers to efficiently produce complex components with exceptional precision and speed.

By automatically transferring workpieces from the main spindle to the sub-spindle, the Tornado SL20/25 MSY facilitates seamless turning, milling, and drilling on both sides of the component. This eliminates the need for multiple setups, drastically reducing cycle times and improving overall throughput.

The addition of the Y-axis expands the machine's functionality, enabling precise off-centre milling for keyways, flats, and contoured surfaces, further enhancing its capability to produce intricate parts with superior accuracy.

With its advanced technology and multi-tasking capabilities, the Tornado SL20/25 MSY is an essential asset in any production environment, providing a powerful solution for achieving both superior accuracy and extraordinary efficiency.

## Benefits

- Integrated sub-spindle for seamless workpiece transfer and dual-side machining
- Single-hit machining for reduced cycle times and increased productivity
- Y-axis machining for precise off-centre milling of complex geometries
- Advanced milling and drilling capabilities for greater part complexity and flexibility
- Perfect for industries requiring high precision and efficiency

## Standard Features

- Swarf (Chip) Conveyor
- 20 bar coolant system
- Parts catcher
- Tool setting probe

[Full specification >](#)

# Tornado SL20/25 MSY Sub-Spindle CNC Turning Centre - Specification

	TORNADO SL20 MSY	TORNADO SL25 MSY
<b>CONTROL SYSTEM</b>	<b>Fanuc Oi-TF Plus with Manual Guide i 15" Screen (Siemens 828D Option)</b>	
<b>CAPACITY</b>		
Guideway	Roller Linear guideways	
Swing Over Bed	550mm	
Max Turning Diameter	290mm	
Max Working Length	522mm	
Bar Capacity	42mm	52mm
Chuck Size (Main Spindle)	150mm (6")	200mm (8")
Chuck Size (Sub Spindle)	150mm (6")	
<b>FEEDRATE</b>		
Rapid Traverse X/Z	30m/min	
Cutting Feed X/Z	10m/min	
<b>SPINDLE (MAIN)</b>		
Spindle Speed	6000rpm	5000rpm
Spindle Nose	A2-5	A2-6
Spindle Power	15Kw	
Motor	Fanuc Alpha i12	
<b>SPINDLE (SUB)</b>		
Spindle Speed	6000rpm	
Spindle Nose	A2-5	
Spindle Power	11Kw	
Motor	Fanuc Alpha i3	
<b>C-AXIS</b>		
Minimum Programmable Increment	0.001deg	
Positional Measurement	Fanuc BZ encoder	
<b>TURRET</b>		
Type (12 Station)	VDI 30 (BMT45 option)	
Tool Dimension	20x20mm	
Boring Bar	32mm	
Live Tool Power	3.7 / 5.5Kw	
Speed	5000rpm Din 1809 tool drive	
Y-Axis	+/- 40mm	
<b>POSITIONING</b>		
Positioning	0.01mm	
Repeatability	+/- 0.003mm	
<b>MACHINE</b>		
Power Requirements	25Kva	
Machine Size Including Swarf Conveyor	L3540 x W1500	
Weight	4000Kgs	

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