



Chester Turning Milling Machine • TM500

A Revolutionary Machine

- Integrated production centre
- Smart & integrated design
- Superb cost performance ratio
- One process loading
- Multi-face machining
- Intensive & Composite machining
- High precision & High efficiency



Standard Accessories:

- ✓ SIEMENS 840D (5 axes simultaneous)
- ✓ 1st Turning Spindle Max. Speed 4500RPM
- ✓ 2nd Turning Spindle Max. Speed 4500RPM
- ✓ Milling Spindle Max. Speed 12000RPM
- ✓ Chuck 8"
- ✓ X/Y/Z Axis Guideway Hollow Cooling
- ✓ C-Axis Encoder
- ✓ Spindle Oil Cooling System
- ✓ High-Pressure Coolant System (18Bar)
- ✓ Chip Collection Cart
- ✓ Storage Number 36T for Tool Magazine System
- ✓ HSK 63T for Tool Specifications

Optional Accessories:

- ☐ FANUC 31i-B (4+1)
- ☐ FANUC 31i-B5 (5 Axes Simultaneous)
- ☐ Milling Spindle Max. Speed 18000RPM
- ☐ Chuck 10"
- ☐ Sleeve Chuck(Ø60)
- ☐ X/Y/Z Axis Optical Linear Scale
- ☐ B-Axis Optical Linear Scale
- ☐ Turning / Milling Tool Measuring System (BLUM)
- ☐ Workpiece Measuring System
- ☐ Oil Mist Collector Device
- ☐ High-Pressure Coolant System (70Bar)
- ☐ Rod Automatic Feeder
- ☐ Workpiece Arrestor
- ☐ Automatic Front Door
- ☐ Storage Number 72T for Tool Magazine System
- ☐ CAPTO C6 for Tool Specifications
- ☐ Tooth Milling Function
- ☐ CE Specification
- ☐ Dual-link Pedal Switch

* The above specifications are subject to change without prior notice, no liability for mistakes. Machines may be shown with optional equipment.





Technical Specifications

Technical Specifications	TM500
Capacity	
Max. swing dia.	530mm
Max. Machining Diameter	500mm
Max. Machining Length	1000mm
Max. Bar Diameter	65mm
Travel	
X-Axis Travel	560mm
Y-Axis Travel	±125mm
Z1-Axis Travel	1060+93mm
Z2-Axis Travel	1090mm
B-Axis Rotating Angle	'-20°~200° degree
C-Axis Rotating Angle	360° degree
Feedrate	
X-Axis Rapid Feedrate	36m/min
Y-Axis Rapid Feedrate	36m/min
Z1-Axis Rapid Feedrate	36m/min
Z2-Axis Rapid Feedrate	24m/min
B-Axis Max. RPM	25rpm
C-Axis Max. RPM	250rpm
Turning Spindle	
Chuck Dimensions S1	8"
Chuck Nose Type S1	A2-6
Hole Diameter S1	75mm
Spindle Max. RPM S1	4500rpm
Motor Output Power S1	15/22kw(20.4/29.92hp)
Chuck Dimensions S2	8"
Chuck Nose Type S2	A2-6
Hole Diameter S2	75mm
Spindle Max. RPM S2	4500rpm
Motor Output Power S1	15/22kw(20.4/29.92hp)
Milling Spindle	
Spindle Max. RPM	12000rpm
Motor Output Power	11/22kw(14.96/29.92hp)
B-Axis Min Indexing Angle	'0.001° degree
Tool Change	
Tool Indexing Angle/Position	90°/4 positions
Tool Type	HSK-63T
Tool Magazine Capacity	36 one of a pair
Max. Tool Diameter (no adjacent tool)	Ø90mm(120mm)
Max. Tool Length	250mm
Max. Tool Weight	8kg
Controller	
Model	SIEMENS840D
Machine Dimensions	
Machine Height	2715mm
Occupancy(Without Chip Conveyor)	4007x2838mm
Machine Weight	11000kg
Energy Requirement	
Power Capacity	42KVA
Compressed Air Requirement	6KG/cm ²

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