



Chester 3 Axis Turning Centre • HAWK TC-300M - TC-300ML-B



Standard Accessories:

- ✓ Siemens 828D
- ✓ Shopturn
- ✓ MPG
- ✓ 4000rpm belt drive spindle (Siemens 828D) (TC-300M & TC-300ML only)
- ✓ 3000rpm belt drive spindle (Siemens 828D) (TC-300M-B & TC-300ML-B only)
- ✓ 12 position BMT55 living turret
- ✓ 12" hollow chuck and cylinder + 15/18.5kw motor + 74mm bar capacity
- ✓ Hollow hydraulic cylinder
- ✓ Hydraulic Tailstock
- ✓ Hydraulic System
- ✓ Heat exchanger
- ✓ Auto chip conveyer & chip chart
- ✓ Auto Oil Lubrication System
- ✓ Tri-Color Light
- ✓ Air Gun
- ✓ Door Lock Switch
- ✓ Lighting Lamp
- ✓ Full Enclosure Splash Guard
- ✓ Telescopic Covers

Optional Accessories:

- ☐ FANUC Oi TF(5) CNC system
- ☐ Auto Parts Catcher
- ☐ Bar feeder Interface
- ☐ M30 Auto Power Off
- ☐ Hydraulic tailstock (only quill)
- ☐ Full Hydraulic Tailstock
- ☐ Bar feeder DH65
- ☐ Renishaw tools measure HPMA
- ☐ Air conditioner for cabinet



Technical Specifications

Technical Specifications	TC-300M	TC-300ML	TC-300M-B	TC-300ML-B
Processing Range				
Max Swing over Bed	Φ650mm	Φ650mm	Φ600mm	Φ600mm
Max Swing over Saddle	Φ480mm	Φ480mm	Φ450mm	Φ450mm
Max Turning Diameter	Φ400mm	Φ400mm	Φ430mm	Φ430mm
Max Turning Length	460mm	940mm	500mm	1000mm
Max Bar Capacity	Φ74mm	Φ74mm	Φ74mm	Φ74mm
Spindle				
Max Spindle Speed	2800rpm	2800rpm	2800rpm	2800rpm
Spindle Nose	A2-8	A2-8	A2-8	A2-8
Spindle Bore	Φ92mm	Φ92mm	Φ92mm	Φ92mm
Spindle Taper	Metric 80	Metric 80	Metric 80	Metric 80
Height from spindle centre to ground	1000mm	1000mm	1000mm	1000mm
Hydraulic Tailstock				
Tailstock Quill Diameter	Φ100mm	Φ100mm	Φ100mm	Φ100mm
Tailstock Quill Travel	100mm	100mm	100mm	100mm
Quill Centre	Morse 5#(Live center)	Morse 5#(Live center)	Morse 5#(Live center)	Morse 5#(Live center)
Axis X/Z				
Travel X/Z	275/530mm	275/1050mm	295/550mm	295/1050mm
Rapid Travel Speed X/Z	24/30m/min	24/30m/min	12/16m/min	12/16m/min
X Axis ball screw dia/pitch	Φ32/8mm	Φ32/8mm	Φ32/8mm	Φ32/8mm
Z Axis ball screw dia/pitch	Φ40/12mm	Φ40/12mm	Φ40/10mm	Φ40/10mm
Hydraulic Turret				
Tool Position	12mm (BMT55)[VDI 40]	12mm (BMT55)[VDI 40]	12mm (BMT55)[VDI 40]	12mm (BMT55)[VDI 40]
Max. live tool speed	6000rpm	6000rpm	4000rpm	4000rpm
Turning tool shank size	25 x 25mm	25 x 25mm	25 x 25mm	25 x 25mm
Max. boring tool holder	Φ32mm	Φ32mm	Φ32mm	Φ32mm
Max. drilling capacity	Φ14x0.16mm	Φ14x0.16mm	Φ16x0.2mm	Φ16x0.2mm
Max. tapping capacity	M10x1.5/M24x1mm	M10x1.5/M24x1mm	M14x2/M20x1.5mm	M14x2/M20x1.5mm
Max. milling capacity	Φ16x12x40mm	Φ16x12x40mm	Φ20x12x40mm	Φ20x12x40mm
Machining Accuracy				
Positioning Accuracy X/Z/C	0.010/0.010/51"mm	0.010/0.010/51"mm	0.010/0.012/51"mm	0.010/0.012/51"mm
Repeatability Accuracy X/Z/C	0.004/0.004/20"mm	0.004/0.004/20"mm	0.005/0.007/20"mm	0.005/0.007/20"mm
Other				
Power capacity	40kVa	40kVa	40kVa	40kVa
Spindle motor power	15/18.5kW	15/18.5kW	11/15kW	11/15kW
Machine dimensions (L x W x H)	4570x1885x1955mm	5070x1885x1955mm	4250x1880x1950mm	4750x1880x1875mm
Weight	4400kg	4600kg	4300kg	4800kg