



9-Axis Mill/Turn Lathe with 12-Angle Tools

- + 52mm 2" Bar Capacity
- + Twin 15-HP 6,000 RPM Opposed Spindles
- + 36-Tool Positions - 18-Driven Tools
- + Machine at Any Angle with 12-Tool "B"-Axis
- + "B" Axis and Dual "Y" Axis for Front & Back Work
- + Simultaneous Main & Sub-Spindle Machining



Main Spindle

Maximum Bar Diameter	A2-5 Spindle with 2.008" (51 mm) Bar Capacity
Collet Size / Spindle Bearings	Traub TRB-52 / 5x90mm Ball Bearings, 3-Front, 2-Rear
Maximum Spindle Speed	6,000 RPM (Integral Motor Spindle)
Servo Spindle Motor Horsepower	15-HP (11kw) Peak, 10-HP (7.5kw) 30-min. Rated

X1, Y1, Z1 Axis

X1, Y1, Z1 Axis Servo Motor	X1= 1.3 HP. (1.0kw) Y1/Z1= 2.0 HP. (1.5kw)
X1 Axis Travel	10.63" (270mm)
Y1 Axis Travel	18.11" (460mm)
Z1 Axis Travel	9.84" (250mm)
Minimum Programmable Input	0.00004" resolution (0.001mm)
X1, Y1, Z1 Rapid Travel Rate	1181 IPM (30m/min) / 0.0001 mm resolution

Main Spindle Tooling

Number of Driven Tools	6 axial & 6 radial driven and "Any-Angle" tools
Driven Tool Motor Power	5-HP (3.5kw)
Driven Tool Spindle Speed	2,500 RPM Maximum Driven Tool Spindle Speed
Driven Tool Collet Size	ER-20 Collet Spindles (up to 1/2" Tool Shank)
O.D. Turning Tools	5 - 20mm O.D. Turning Tool Holders Available
I.D. Boring Tools	5 - 25mm I.D. Bores Available for Tool Bushings

Sub-Spindle

Maximum Bar Diameter	2.008" (51 mm)
Collet Size	Traub TRB-52
Maximum Spindle Speed	6,000 RPM (Integral Motor Spindle)
Servo Spindle Motor Horsepower	15-HP (11kw) Peak, 10-HP (7.5kw) 30-min. rated

X2, Y2, Z2 Axis

X2, Y2, Z2 Axis Servo Motor	X2/Z2 = 1.3 HP. (1.0kw) Y2 = 2.0 HP. (1.5kw)
X2 Axis Travel	18.89" (480mm)
Y2 Axis Travel	18.11" (460mm)
Z2 Axis Travel	10.63" (270mm)
X2, Y2, Z2 Rapid Travel Rate	1181 IPM (30m/min)
Minimum Programmable Input	0.0001" (0.001mm = 40 millionths of an inch)
Ball screw Diameter	25mm Diameter with 10mm Pitch for All Axes

System Requirements

Number of Axial Driven Tools	3 Axial Driven Tools, Uses ER-20 Collets
Number of Radial Driven Tools	3 Radial Driven Tools, Uses ER-20 Collets
Driven Tool Motor Power	2.7-HP (2.0kw)
Driven Tool Spindle Speed	3,000 RPM Maximum Driven Tool Spindle Speed
Driven Tool Collet Size	ER-20 Collet Spindles (up to 1/2" Tool Shank)
O.D. Turning Tools	4 - 20mm O.D. Turning Tool Holders Available
I.D. Boring Tools	4 - 25mm I.D. Bores Available for Tool Bushings

Specifications

Coolant System	80 Gallon Tank, 4-Coolant Pumps with Flow Control
Electrical Requirement	110-Amps, 42kva, 220 vac ±5%, 3-Phase,
Air Requirements	85 psi, 20-cfm, for Parts Catcher, Ejector, Oil Mist Unit
Machine Weight	12,345 pounds (5,600 kgs)
Machine Dimensions	110"* x 85" x 82" (WxDxH) (* = 38" for Chip Conveyor)
Shipping Dimensions	150" x 90" x 87" (WxDxH)