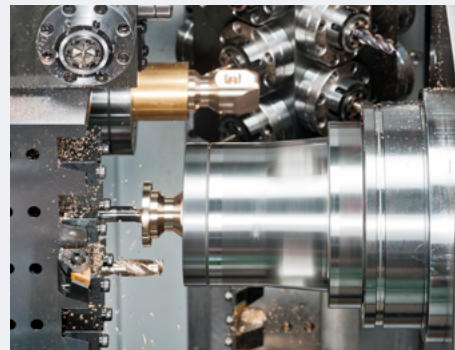




52-BY2

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

- + 52 mm 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 / 5 x 90 mm Ball Bearings, 3-Front, 2-Rear
Maximum Spindle Speed	6,000 RPM (Integral Motor Spindle)
Servo Spindle Motor Horsepower	15-HP (11 Kw) Peak, 10-HP (7.5 Kw) 30-min. Rated

X1, Y1, Z1 Axis

X1, Y1, Z1 Axis Servo Motor	X1 = 1.3 HP. (1.0 Kw) Y1 / Z1 = 2.0 HP. (1.5 Kw)
X1 Axis Travel	10.63" (270 mm)
Y1 Axis Travel	18.11" (460 mm)
Z1 Axis Travel	9.84" (250 mm)
Minimum Programmable Input	0.00004" resolution (0.001 mm)
X1, Y1, Z1 Rapid Travel Rate	1,181 IPM (30 m / 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 (3.5 Kw)
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)
OD Tools	5 - 20 mm OD Tool Holders Available
ID Boring Tools	5 - 25 mm ID 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 (11 Kw) Peak, 10-HP (7.5 Kw) 30-min. rated

X2, Y2, Z2 Axis

X2, Y2, Z2 Axis Servo Motor	X2 / Z2 = 1.3 HP (1.0 Kw) Y2 = 2.0 HP (1.5 Kw)
X2 Axis Travel	18.89" (480 mm)
Y2 Axis Travel	18.11" (460 mm)
Z2 Axis Travel	10.63" (270 mm)
X2, Y2, Z2 Rapid Travel Rate	1,181 IPM (30 m / min)
Minimum Programmable Input	0.0001" (0.001 mm = 40 millionths of an inch)
Ball screw Diameter	25 mm Diameter with 10 mm 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 (2.0 Kw)
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)
OD Tools	4 - 20 mm OD Tool Holders Available
ID Boring Tools	4 - 25 mm ID Bores Available for Tool Bushings

Specifications

Coolant System	80-Gallon Tank, 4-Coolant Pumps with Flow Control
Electrical Requirement	110-Amps, 42 Kva, 220 vac ±5%, 3-Phase
Air Requirements	85 PSI, 20-cfm, for Parts Catcher, Ejector, Oil Mist Unit
Machine Weight	12,345 lbs (5,600 kg)
Machine Dimensions	110"* x 85" x 82" (W x D x H) [* + 38" for Chip Conveyor]