

GENTURN 52-MSY

6-Axis Mill/Turn Lathe with 16-Tool Turret

Features

- + 52mm 2" Bar Capacity (65mm optional)
- + Twin 4,500 RPM Opposed Spindles
- + 16-Driven Tool Positions – each station can mount multiple tools
- + "Y" Axis with 4.3" Travel
- + Full "C"-Axis on Main and Sub-Spindle
- + Complete Front & Back Work Done in One-Operation



Capacity & Dimensions

Spindle

Sub-Spindle

Axis

Tool Turret

Specifications

Swing Over Bed	24.4" (620mm)
Maximum Cutting Diameter – Main & Subspindle	10.6" (270mm)
Maximum Cutting Length	20.1" (510mm)
Minimum Distance Between Main & Sub Chuck Faces	1.4" (36mm)
Spindle Motor Horsepower – Dual Wound FANUC 11/15kw	25-HP Peak, 20-HP 15-min./hr. duty-rating
Spindle Speed	4,500 RPM (with NSK spindle bearings)
Spindle Torque Maximum	94 ft. lbs. (127Nm)
Spindle Nose	A2-6 / 4-bearing spindle
Spindle Bearing Diameter	4.0" (100mm)
Spindle Through Hole	2.4" (61mm)
Bar Capacity (56mm in Draw Tube)	2.047" (52mm) (2.51", 65mm optional)
Chuck Diameter (with 2.04" (52mm) through-hole)	8.26" Auto Strong N-208
Spindle Center Height	46"
Spindle Motor Horsepower – FANUC 5.5/7.5kw	15-HP Peak, 10-HP 15-minute duty-rating
Spindle Torque Maximum	56 ft. lbs. (76Nm)
Spindle Speed	4,500 RPM
Spindle Nose	110mm Flat Nose Spindle
Spindle Bearing Diameter	3" (80mm)
Bar Capacity (in Draw Tube)	1.77" (45 mm)
Chuck Diameter (with1.77" (45mm) through-hole)	6.65" Auto Strong N-206
Axis Travel – X-Axis	8.7 " (220mm)
Axis Travel – Y-Axis (Largest Travel in This Machine Class)	4.3" ± 2.2" (110 ±55mm)
Axis Travel – Z-Axis	22" (560mm)
Axis Travel – B-Axis	22" (560mm)
C-Axis Resolution – Main & Subspindle	0.001°, 36,000 Radial Positions
C-Axis Accuracy / Repeatability / Speed	0.01° / 0.008° / 33 RPM
Ballscrew Diameter / Pitch Rate – X, Y, Z, B Axis	Ø32mm / 10mm pitch
Axis Drive Motors - X & Z	2.4-Horsepower (1.8kw)
Axis Thrust – Maximum - X & Z Axis	3690 lbs. Thrust
Rapid Traverse Feedrate X, Z, B Axis	1181 IPM (30m/min)
Rapid Traverse Feedrate Y	394 IPM (10m/min)
Minimum Input Unit	0.0001" (0.001mm = 40 millionths of a inch)
Guide Ways / Slant Bed Angle (Y-Axis Angle 45°)	Rexroth 35mm Roller Bearing Ways / 30°
Tool Stations – Any Combination of ID/OD Tooling/Index Time	12-Stations (Tang-Drive for Driven Tools)
Tool Index Time – Adjacent Tool Station / 180° Index	0.15 sec. / 0.5 sec. - Tool-to-Tool
O.D. Tooling (20mm When Specified for Metric Users)	3/4" Square Shank Tools
I.D. Tooling (32mm When Specified for Metric Users)	1.25"
Driven Tool System / Power (Sauter BMT-45)	BMT-45 / 7.5-Horsepower (5.5kw)
Driven Tool Rotary Speed/Rotary Torque	6,000 rpm / 28 ft. lbs., (35 Nm)
Power Requirements 40kVa	220vac ±5%, 26kw, 83-full-load amps
Floor Space Requirements - LxWxH	128' x 78" x 84" (+ 30" for chip conveyor)
Machine Weight	8,820 lbs. (4000kg.)
Hydraulic Motor Power / Pressure / Oil	2-H.P. / 600 PSI / Mobil #24 Oil
Coolant Pump Power / Pressure / Capacity	1.5-HP / 45 PSI (3 Bar) / 50-Gallons