

# GENTURN 52-MSY

## Capacity & Dimensions

|   |               |
|---|---------------|
| 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

|   |   |
|---|---|
| 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"                                       |

## Sub-Spindle

|   |   |
|---|---|
| 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 (with 1.77" (45mm) through-hole) | 6.65" Auto Strong N-206                 |

## Axis

|   |  |
|---|--|
| 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 an inch) |
| Guide Ways / Slant Bed Angle (Y-Axis Angle 45°)             | Rexroth 35mm Roller Bearing Ways / 30°       |

## Tool Turret

|   |   |
|---|---|
| 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)          |

## Specifications

|  |  |
|--|--|
| 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       |