

# GENTURN SL-20Y2

## Main Spindle

|                                     |   |
|-------------------------------------|---|
| Maximum RPM/Spindle Bearing         | 10,000 RPM / 5-Bearing Spindle, 3-Front, 2-Rear Ball Bearings |
| Main Spindle Servo Moto (2.2/3.7Kw) | 5-Horsepower 15-minute Duty-Rated (3-HP Constant Duty-Rated)  |
| Collet Style for Main & Subspindle  | Hardinge TF-25S / Southwick & Meister TS-25 / Star SR-20      |
| Collet Actuation System             | Pneumatic Piston-Driven Toggle Clamp Feed-Finger Style        |
| Synchronous Rotary Guide-Bushing    | TD25S (20mm Round, 16mm Hex, 12mm Square)                     |
| Maximum Barstock Diameter           | 23mm (Collet Range - 1/16" - 13/16" / 0.0200" - 0.813")       |
| Maximum Distance Between Spindles   | 23.6" (600mm)   |
| Spindle Centerline Height           | 42" (1060mm)  |

## Main Spindle Tooling

|   |   |
|---|---|
| O.D. Turning Tool Holders - S1          | 6 - 12mm Square Shank Turning Tool Holders                          |
| I.D. Internal Tool Holders - S1         | 4 - 22mm Shank Round Tool Sleeve Bores                              |
| I.D. Deep Hole Drill Positions - S1     | 2 - 22mm Shank Round Tool Sleeve Bores                              |
| Cross Slide Live Tools - S1             | 5 - ER-16 Cross Slide Live Tools, 8,000 rpm, 1.6 HP (1.2kw)         |
| Axial Front Slide Live Tool Option - S1 | 3 - ER-16 Front Slide Live Tools - Optional in lieu of 1 Cross Tool |
| Maximum Drilling / Tapping Capacity     | 10mm Drilling Capacity / M8 Tap - Main Spindle                      |
| Cross Drilling / Tapping Capacity       | 8mm Drilling Capacity / M6 Tap - Driven Cross Tools                 |

## Sub-Spindle

|   |  |
|---|--|
| Sub-Spindle RPM / Spindle Bearing           | 8,000 RPM / 4-Bearing - Quad-Duplex Pair Configuration       |
| Sub-Spindle Servo Moto (2.2/3.7Kw)          | 5-Horsepower 15-Minute Duty-Rated (3-HP Constant Duty-Rated) |
| Collet Style for Main & Sub-Spindle         | Hardinge TF-25S / Southwick & Meister TS-25 / Star-SR20      |
| Collet Actuation System                     | Pneumatic Piston-Driven Toggle Clamp Feed-Finger Style       |
| Maximum Barstock Diameter                   | 23mm (Collet Range - 1/16" - 13/16" / 0.0200" - 0.813")      |
| Finished Parts Ejector & Air Blast          | Included (Can Pass Long 20mm Parts Through the Subspindle)   |
| Maximum Workpiece Length for Front Ejection | 110mm Maximum Part Length for Front Ejection from Subspindle |

## Sub-Spindle Tooling

|  |   |
|--|---|
| O.D. Turning Tool Holders - S2                 | 3 - 10mm Square Shank Turning Tool Holders                |
| I.D. Internal Tool Holders - S2                | 4 - 22mm Shank Round Tool Sleeve Bores                    |
| I.D. Internal Tool Holders - S2 (8 possible)   | 3 - ER-16 Fixed Tools - Ø3/8" Max.                        |
| Sub-Spindle Axial Live Tools - S2 (8 possible) | 3 - ER-16 Axial Live Tools, 4,000 rpm, 1.0 HP (0.75kw)    |
| Backworking Machining Length                   | 6.1" Maximum Turning Length / 3.14" Maximum Boring Length |
| Maximum Drilling / Tapping Capacity            | 10mm Drilling Capacity / M8 Tap - Sub-Spindle             |
| Maximum Cross Drilling / Tapping Capacity      | 8mm Drilling Capacity / M6 Tap - Driven Cross Tools       |

## Axis

|  |  |
|--|--|
| Main Spindle Stroke                        | 9.840" Single Stroke (250mm)           |
| Maximum Turning Length - Rotary Bushing    | 7.48" (190mm)                          |
| Maximum Turning Length - Without Bushing   | 2.36" (60mm)                           |
| X1, Y1, Z1, X2, Y2, Z2 Rapid Traverse Rate | 944 IPM (24m/minute)                   |
| X1, Y1, Z1 Axis Motor Power                | 1-Horsepower (.75kw)                   |
| X2, Y2, Z2 Axis Motor Power                | .67-Horsepower (.5kw)                  |
| Minimum Input Unit                         | 0.0001" (0.001mm = 40 millionths/inch) |

## Specifications

|   |   |
|---|---|
| Machine Dimensions (L x W x H)              | 118" x 55" x 78" (2846x1284x2024) +31" for Conveyor)          |
| Machine Weight (Heaviest in Class)          | 5,954 lbs. (2700kgs)  |
| Coolant Pump Power                          | 1.5-Horsepower (1.2kw)  |
| Coolant Tank Capacity                       | 58-gallon Coolant Tank (220 L) (Cutting Oil Only, No Coolant) |
| Lubrication Distribution (2-liter Capacity) | Way Lube Distributed at 3-6 cc / 15-Minute Cycle              |
| Machine Power Requirements                  | 220vac ±5%, 53-amps, 20kva, 3-phase, 60Hz                     |
| Air Requirements                            | 85-PSI at 6-CFM for Parts Catcher, Parts Ejector, & Air bBast |