



SL-42Y2

Hybrid 42 mm 8-Axis CNC Swiss Machine

- + Bar Capacity to \varnothing 1-5/8"
- + Double "Y" Axis and Double "C" Axis
- + Simultaneous Main & Sub-Spindle Machining
- + 33-Tools with 9-Driven Tools Standard
- + Optional Rotary Synchronous Guide-Bushing
- + High-Performance Mitsubishi M-830 Control

Main Spindle	<p>Maximum rpm/ Spindle Bearing Main Spindle Servo Motor (5.5 / 7.5 kW) Collet Style for main & subspindle Collet Closer Style Guide-Bushing Type Bar Diameter – Without Guide Bushing Maximum Turning Length – Rotary Bushing Maximum Turning Length – Without Bushing Spindle Bore</p>	<p>6,000 rpm/ 5-Bearing Spindle, 3-front, 2-Rear Ball Bearings 10-Horsepower 15-minute duty-rated (7.5-HP constant duty-rated) Traub-42 / 173E Lever action collet closer – driven by hydraulic piston Optional Rotary Guide-Bushing uses Hardinge STM38 bushings Ø1/4" - 1-5/8" (Ø5-42 mm) without Guide-Bushing 12.20" Single Stroke 310 mm 4.13" 105 mm Ø1.732" (Ø44 mm)</p>
Main Spindle Tooling	<p>O.D. Turning Tool Holders – S1 I.D. Internal Tool Holders – S1 I.D. Deep Hole Drill Positions – S1 Cross slide live tools – S1 Axial front slide live tool option – S1 Maximum Drilling / Tapping Capacity Cross Drilling / Tapping Capacity (option)</p>	<p>6 - 16 mm (5/8") square shank tool holders 5 - 25 mm shank round tool sleeve bores 2 - 25 mm shank round tool sleeve bores 6 - ER-20 collet chuck spindles, 4,000 rpm, 2-HP (1.6 kW) 3 - ER-20 front axial live tools - optional in lieu of 1 cross tool 13 mm drilling capacity / M10 tapping 10 mm drilling capacity / M6 tapping</p>
Sub Spindle	<p>Sub spindle rpm / spindle bearing Sub Spindle Servo Motor (5.5 / 7.5 kW) Collet Style for main & subspindle Maximum Barstock Diameter Spindle Bore Finished Parts Ejector & Air Blast Maximum workpiece length for front ejection</p>	<p>6,000 rpm / 4-bearing - Quad-Duplex pair configuration 10-Horsepower 15-minute duty-rated (7.5-HP constant duty-rated) Traub-42 / 173E 1-5/8" 42 mm Ø1.732" (Ø44 mm) (uses hydraulic piston lever action collet closer) Standard (optional long parts through the sub spindle) 110 mm maximum part length for front ejection from subspindle</p>
Sub Spindle 13 Back-Working Tooling	<p>O.D. Turning Tool Holders – S2 I.D. Internal Tool Holders – S2 I.D. Internal Tool Holders – S2 (8 possible) Subspindle axial live tools – S2 (8 possible) <i>(8-subspindle tool block can mix live & fixed tools, or 2 radial live tools can be substituted for 2 axial tools on subspindle tool block)</i> Maximum Drilling / Tapping Capacity Maximum Cross Drilling / Tapping Capacity</p>	<p>3 - 16 mm square shank turning tool holders 5 - 25 mm shank round tool bores (shared with main spindle) 3 - ER -16 fixed tools – Ø3/8" max. 3 - ER -16 axial live tools, 4,000 rpm, 1.0 HP (0.75 kW) 13 mm drilling capacity / M10 tapping on sub-spindle 8 mm drilling capacity / M6 tapping</p>
Axis Travels	<p>Main Spindle Stroke X¹, Y¹, Z¹, X², Y², Z² Rapid Traverse Rate X¹, Z¹ Axis Motor Power X², Y¹, Y², Z² Axis Motor Power Linear Ways – X¹, Y² Linear Ways – X², Y¹, Z¹, Z² Minimum input unit</p>	<p>12.20" 310 mm 944 IPM 24 m / minute 2-Horsepower 1.4 kW 1-Horsepower .75 kW Ball-Bearing Linear Ways (point contact) Roller-Bearing Linear Ways (line contact - twice as rigid) 0.0001" 0.001 mm = 40 millionths / inch</p>
Specifications	<p>Machine Weight Coolant Pump Power Coolant Tank Capacity Lubrication distribution – 2-liter capacity Machine Power Requirements Air Requirements</p>	<p>11,024 lbs. 5,000 kgs 1.75-Horsepower (1.3 kW) with flow confirmation monitor 65-gallon coolant tank (250 L) (cutting oil only, no coolant) Way lube distributed at 3-6 cc / 15-minute cycle 220 vac ±5%, 80-amps, 30 kVA, 3-phase, 60Hz 85-PSI at 6-CFM for parts catcher, parts ejector, & air blast</p>