



52-CS Y2

8-Axis CNC Swiss Machine with 2" Bar Capacity

- + 2" Bar Capacity with 6,000 RPM Spindle
- + Full "C" Axis on Main Spindle and Sub Spindle
- + Full "Y" Axis on Main Spindle and Sub Spindle
- + 33 Total Tool Positions with 13 Live Tools
- + Simultaneous Main and Sub-Spindle Machining
- + Parts Catcher and Chip Conveyor

Main Spindle	Maximum rpm / spindle bearing	6,000 rpm	
	Spindle Motor	15-HP	11.0 kW
	Collet Nose / Spindle Bore	Traub TRB-52 / 51 mm	(uses TRB-52 collet)
	Maximum Barstock Diameter	2"	51 mm
	Maximum Cut Length	14"	
	Spindle Center Height	43.3"	1,100 mm
Sub Spindle	Sub spindle rpm / spindle bearing	6,000 rpm / 4-bearing Quad-Duplex pair configuration	
	Sub spindle Motor	15-HP	11.0 kW
	Collet Nose / Spindle Bore	Traub TRB-42 / 43 mm	(uses TRB-42 collet)
	External Air Blast Nozzle	Included for both main & sub spindle	
	Finished Parts Ejector & air blast	Max 7.5" part front eject	Included for sub spindle
Axis Travels	X ¹ -axis Travel	8.66"	220 mm
	Y ¹ -axis Travel (true Y-axis, not compound Y)	24.41"	620 mm
	Z ¹ -axis Travel	16.0"	406 mm
	X ² -axis Travel	14.9"	380 mm
	Y ² -axis Travel (true Y-axis, not compound Y)	5.11"	130 mm
	Z ² -axis Travel	18.1"	460 mm
	Rapid Traverse Rate – X ¹ , X ² , Y ¹ , Z ¹ , Z ²	1,181 IPM	30 m / min
	Rapid Traverse Rate – Y ²	196 IPM	5 m / min
	Axis Drive Servo Horsepower: X ¹ / Y ¹ / Z ¹	1-3/4 / 1-3/4 / 1-1/8 HP	{1.3 kW / 1.3 kW / .85 kW}
	Axis Drive Servo Horsepower: X ² / Y ² / Z ²	1-1/8 / 1.0 / 1-1/8 HP	{.85 kW / .75 kW / .85 kW}
	Minimum input unit	0.0001"	{0.001 mm = 40 millionths inch}
Tooling	33-Tool Positions Standard	All live tools are gear driven w/ ø42 mm bearings – no belts!	
	Main Spindle Cross Slide Radial live tools	6-ER-20 cross slide live tools, 4,000 rpm, 2.0 HP (1.5 kW)	
	Main Spindle Front Slide Axial live tools	3-ER-20 front slide live tools, 4,000 rpm, 1.0 HP (0.75 kW)	
	Main Spindle OD Turning Tool Positions	6 (5 x 5/8" + 1 x 3/4")	{5 x 16 mm} + {1 x 20 mm}
	Main Spindle ID Turning Tool Positions	5 ID Tool Bores	25 mm
	Sub Spindle ID Turning Tool Positions	5 ID Tool Bores	25 mm (back of main tool bores)
	Sub Spindle ID Turning Tool Positions	4 ID Tool Bores	{Static holders in sub spindle tool block}
	Sub Spindle Back Slide Axial Live Tools	4-ER-20 (can add 4 more) 4,000 rpm, 4.0 HP (3 kW) {1 radial live tool can be substituted on Sub Spindle tool block}	
Specifications	Machine Weight	13,880 lbs.	6,300 kgs
	Coolant Pump	Dual 50psi 1-HP Coolant Pumps for Main and Sub Spindle	
	Coolant Tank Capacity	74-gallon coolant tank, with Coolant Flow Confirmation Sensor	
	Lubrication distribution	Way lube distributed at 3-6 cc / 15-minute cycle	
	Hydraulic System – power / capacity	1-HP / 12-gallons	{0.75 kW / 46 L}
	Machine Power Requirements	220 vac ±5%, 35 kva, 3-phase, 60 Hz, 92 amps	
	Air Requirements	85-PSI at 10-CFM for parts catcher, parts ejector, & air blast	