



## 7-Axis CNC Swiss Machine without guide bushing

- + 36mm 1-3/8" Bar Capacity
- + Dual "C" Axis and "Y" Axis with 19" Travel
- + 27-Tools with 11-Driven Tools
- + Simultaneous Main & Sub-Spindle Machining
- + Parts Catcher and Chip Conveyor Included
- + 1,181 Inch per Minute Rapid Rates



**Main Spindle**

Maximum RPM/Spindle Bearing	6,000 RPM / 5-Bearing Spindle, 3-Front, 2-Rear ø110mm
Spindle Motor	10-HP 3,000 rpm spindle Motor, 2:1 Pulley Ratio
Collet Nose	Brown & Sharpe #22 or Traub A-32
Drawtube Bore	1.456" (37mm)
Maximum Barstock Diameter	1.25" (32mm) Standard 1.375" (36mm) with Adapter
X-Axis Travel	7.28" (185mm)
Y-Axis Travel (true Y-Axis, not compound Y)	19.29" (490mm)
Z-Axis Travel	6.50" (165mm)
Rapid Travel Speed: X, Y, Z	1,181 IPM (30m/minute)
Minimum Input Unit	40 millionths (0.00004") (0.01mm)
OD Turning Tool Positions	6 OD Tools (1/2" or 12mm) (5-5/8" Tool Plate Available)
ID Turning Tool Positions	5 ID Tools
OD Turning Tool Size	1/2" or 12mm (5/8" or 16mm Optional)
ID Turning Tool Bore Size	25 mm
Spindle Center Height	40" (1015mm)

**Sub Spindle**

Sub Spindle RPM/Spindle Bearing	6,000 RPM / 4-Bearing / Quad-Duplex Pair Configuration
Sub Spindle Motor	5-HP 3,000 rpm Spindle motor, 2:1 pulley ratio
Collet Nose	Brown & Sharpe #22 or Traub A-32
Maximum Barstock Diameter	1.250" in Collet Chuck (1.080" (27.5mm) Pass Thru)
X-Axis Travel	11.53" (293mm)
Z-Axis Travel	11.61" (295mm)
Minimum Input Unit	0.0001" (0.001mm = 40 millionths inch)
ID Turning Tool Bore Size	25mm
Air Blast Nozzle	Included
Finished Parts Ejector	Included, Along with Parts Catcher & Parts Conveyor Belt

**Live Tooling**

Cross Slide Live Tools	4-ER-20 Cross Slide Live Tools, 4,000 rpm, 2.0 HP (1.5kw)
Front Slide Live Tools	3-ER-20 Front Slide Live Tools, 4,000 rpm, 1.0 HP (0.75kw)
Live Tool Collet Size	ER-20 Collet, Ø1/2" (0.5-13mm) Tool Shank Capacity
Max RPM for Live Tools	4,000 RPM (1 cross live tool can be substituted on subspindle tool block)

**Machine Dimentions**

Machine Length	101" (2420mm) { *+ 36" for Chip Conveyor}
Machine Depth	68" (1500mm)
Machine Height	80" (1985mm)
Machine Weight	8,000lbs (3,628kgs)
Coolant Pump	Dual 50psi 3/4-HP Coolant Pumps for Main and Subspindle
Coolant Tank Capacity	80-gallon Coolant Tank, with Coolant Flow Confirmation Sensor
Lubrication Distribution	Way Lube Distributed at 3-6 cc / 15-minute Cycle
Machine Power Requirements	220vac ±5%, 63-amps, 3-phase, 60Hz
Air Requirements	85-PSI at 10-CFM for Parts Catcher, Parts Ejector, & Air Blast