

MACHINE SPECIFICATIONS

SwissTurn Diamont

Description	Item	42 SY2-B
Working Range	Max Turning Diameter	46 mm (1.80")
	Max. Machining Length per chucking	280mm (11.02")
	Max Drilling Diameter	30mm
	Max Tapping Diameter	M16
OD Tooling (Slide 1)	Number of Tools	5
	Dimension	20mm x 20mm x 120mm
Cross Working Driven Tooling (Slide 1)	Number of Tools	4
	Dimension	16 mm (ER25)
	Speed	6,000 RPM
Patented 12 Position Mill-Turn Servo Turret	Number of Stations (driven)	12
	Max. number of live tools	24
	Number of potential cutting tools (using Y-axis)	48
	Dimension	ER25, 25mm ID, 20mm OD
360° Working Driven Tooling (4 of 12 turret stations hold 2 tools ea)	Number of Potential Tools	8
	Dimension	16 mm (ER25)
	Speed	6,000 RPM
Main Spindle	Spindle Hole Diameter	46 mm
	Spindle Speed	6,000 RPM
	Angular movement	Full C axis
	Horsepower	10.0 HP
Back Working Spindle	Spindle Hole Diameter	46 mm
	Spindle Speed	6,000 RPM
	Max Length for front eject	250 mm
	Angular movement	Full C axis
	Horsepower	10.0 HP
Rapid Traverse	X1, Y1, Z1, X2, Z2	1,181 IPM
Machine Dimensions (incl. Chip Conveyor)	Length x Width x Height	118 in x 71 in x 78 in
	Weight	14,730 lbs
OPTION – 11 Axis 42 2Y-B XI	Backworking Tools #	4
	Driven or stationary	ER25

Specifications contained herein are approximate and subject to change without notice

ver. EUR-6-1-11

"With B-axis and pinch turning or milling on both main and sub-spindle, and C-axis on the main and sub we drop off extremely complex parts in one Op... real fast."

Jeff Roth - Owner - Chasco Machine Co. (FL)

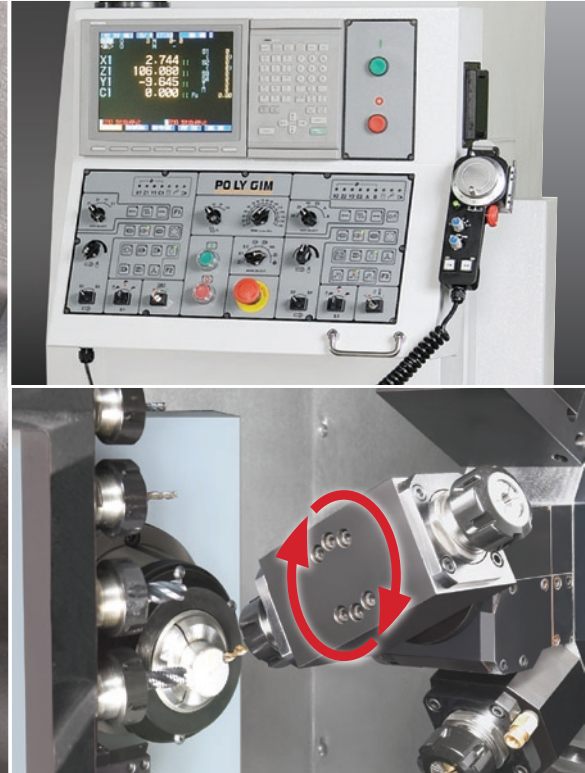


EUROTECH
1150 Ponce de Leon Blvd.
Brooksville, Florida 34601

tele: 352.799.5223
fax: 352.799.4662
email: sales@eurotechelite.com
web: www.eurotechelite.com

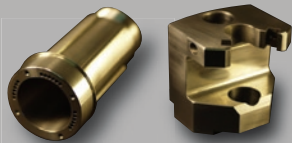
WIN WITH TECHNOLOGY

11-Axis Swiss Type Auto Lathe New SWISS⁺TURN Diamont 42 SY2-B Series



Fully programmable B-axis on main and sub spindle

- B-Axis on Main and Sub
- Dual Y-Axis is Capable of Pinch Turning or Milling on Main or Sub
- VDI Quick Change Turret
- 10 HP on Main and Sub
- Up to 64 Cutting Tools, of which 28 can be Live
- C-Axis on Main and Sub
- Quick change from Guide to Non-guide bushing



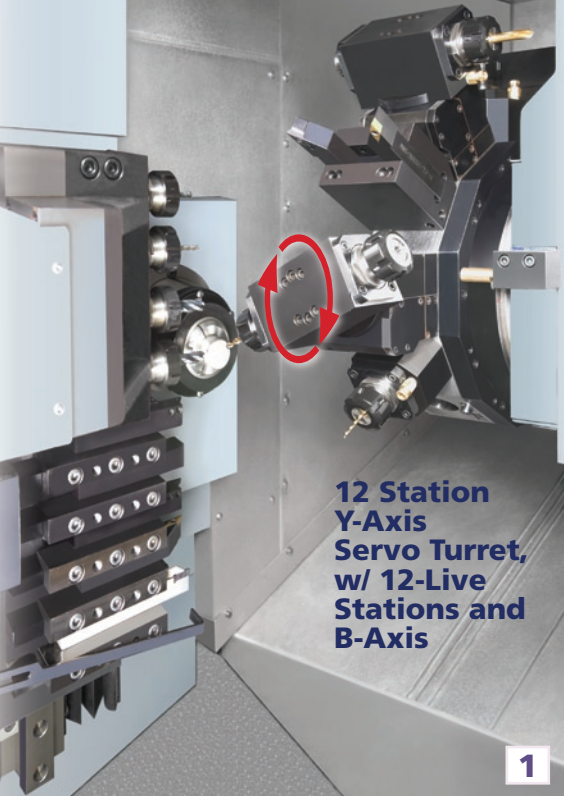
"We were looking at another Citizen (own Citizen now) and we saw the SWISS⁺TURN. The machine can do so much more than any other Swiss machine and we love the B-axis. We are holding tolerances of 0.0002."

Paul Ott - owner
OTT Brothers Machine Co.

E EUROTECH

Technology - Runs Faster Sleeps Less

Complete parts in one-op...eliminate handling, fixturing, inspections, wasted time and floor space!



**12 Station
Y-Axis
Servo Turret,
w/ 12-Live
Stations and
B-Axis**

1



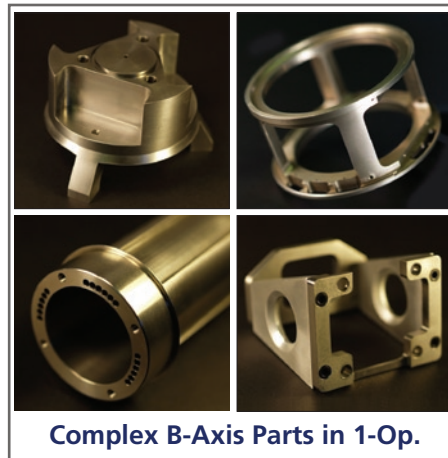
**B-Axis being
used on
Sub-spindle**

2

The SwissTurn Y-axis turret dual-spindle Swiss type CNC auto lathe - the ultimate for bar machining and auto loaded components. The main performance benefits offered:

- Reduction of cycle times
- Great rigidity to allow machining of tough materials
- Load up to 64 cutting tools for machining of complex parts and reduce set-up times
- Ergonomics for quick and easy access for retooling operations
- Up to 18 live tools for milling ops.
- The first and best B-axis Swiss machine in the world.
- Programmable parts handling and conveyor system.

The superior design delivers extremely efficient and fast production of complex parts using live tools, B-axis and Y-axis.



Complex B-Axis Parts in 1-Op.



1. The patented twelve position mill/turn servo turret can be setup for twelve live tools, four of which are capable of 360 degree B-axis rotation for both main and sub-spindle.

2. Main and sub-spindles are both built-in with MP Scale C Axes construction that helps in obtaining higher spindle rotation accuracy and better surface finish during the cutting operation.

"I can't say enough about Eurotech. Their engineering and service support is bar none"

Less Richards - Custom Mold

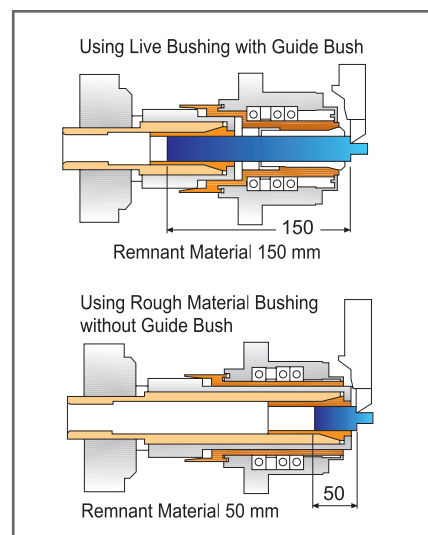
Over \$20,000 in Options - plus many productive Machine features & equipment INCLUDED!

STANDARD FEATURES:

- Mitsubishi 65 Control. Completely loaded with many options.
- Graphics parts cutting display.
- High-speed microprocessor CNC system.
- 2 Tools in cut (3 optional)
- 11-axis simultaneous machining (SY2-B)
- Main spindle for first operation work.
- Pick-off spindle for secondary operation work (with sub spindle models)
- C-axis on main & sub spindles
- Disk brakes on main spindle.
- Live guide bushing
- Sub spindle provides the capability to finish both sides of a work piece in a single operation.

- Automatic part transfer from the main spindle to the pick-off spindle, round stock or irregular shapes.
- Generous number of driven and static tool holders standard
- Automatic part off detection
- Rigid tapping on main spindle, sub spindle, and live-tool spindles.
- Pick-off spindle Ejector (opt. coolant thru)
- 10 horsepower wide range constant output main spindle motor (integral with spindle)
- 10 horsepower synchronized sub spindle motor (integral with spindle)
- 12 Station Turret with 4 stations having 360° B-axis (with up to 4 cutting tools each station)
- 6,000 RPM on turret driven tooling (12 stations)
- 3 horsepower driven tooling
- Tool monitoring system
- 1,180 IPM rapids on all X, Y, Z axes
- Parts catcher • Parts bucket
- Auto-power on/off for unattended machining

- Work light
- 6,000 RPM on main spindle and sub-spindle
- 6,000 RPM on front slide driven tooling
- Optional - Pressure sensor/alarm for hydraulic system
- Optional - Flow sensor for coolant.
- 1-year warranty on machine.



DIAMONT 42SY2-B sliding headstock CNC machine is the flagship SWISSTURN model offered by EUROTECH. It provides exclusive, up to 11 axis complex manufacturing productivity using the most advanced Multi-axis control system.

