

SPECIFICATIONS:

| Model | unit | SVX-160-F |
|---------------------------------------|--------------|---|
| Control | | |
| Fanuc | | Model 31i-B5 |
| Screen Size | inch | 10.4" LCD |
| Travel | | |
| X Axis Travel | inch (mm) | 25.19" (640) |
| Y Axis Travel | inch (mm) | 16.92"(430) |
| Z Axis Travel | inch (mm) | 18.70"(475) |
| Spindle Nose to Table | inch (mm) | 2.17" ~ 19.09" (55~485) |
| Spindle Center to Column | inch (mm) | 19.23" (488.5) |
| Guideway Design | | Roller Linear Guideway (Heavy Duty) |
| Guideway Width | inch (mm) | X / Y / Z:1.10" (28) / 1.10" (28) / 1.34" (34) |
| Ballscrew Diameter | inch (mm) | 1.34" (34) |
| Table | | |
| A Axes | Degree | +20° ~ -120° |
| A Axes Diameter | inch (mm) | 12.20" (310) |
| C Axes | Degree | 360° |
| C Axes Diameter | inch (mm) | 6.30" (160) |
| Max. Work Piece Weight | lb (kg) | 132.28 (60) |
| Spindle | | |
| Speed | rpm | 12000 |
| Taper (w/o CTS) | | CAT 40 Big Plus |
| Type | | Direct coupling |
| Feed rate | | |
| Rapid Traverse X Axis | ipm (mm/min) | 1417" (36000) α 12i / 4000 3kw |
| Rapid Traverse Y Axis | ipm (mm/min) | 1417" (36000) α 12i / 4000 3kw |
| Rapid Traverse Z Axis | ipm (mm/min) | 1417" (36000) α 22i B / 3000 4kw |
| Cutting Feed Rate | ipm (mm/min) | 0.04"~393.70" (1~10,000) |
| Motor | | |
| Spindle Motor | hp (kw) | 10/15 HP (7.5/11 kw) |
| A Axis (Rotary Table) | rpm | α 8i / 3000 1.6kw |
| C Axis (Rotary Table) | rpm | α 4i /4000 1.4kw |
| Automatic tool changer | | |
| ATC Type | | Arm-type |
| Magazine Capacity | | 24 |
| Method of Tool Selection | | Random |
| Max. Tool Diameter | inch (mm) | 2.95" (75) |
| Without Adjacent Tool | inch (mm) | 5.91" (150) |
| Max. Tool Length | inch (mm) | 11.81" (300) |
| Max. Tool Weight | lb (kg) | 15.43 (7) |
| Air blast when making tool change | | Yes |
| Pull Stud / Retention Knob Type | | CAT 40 45-A |
| Accuracy | | |
| X / Y / Z Axes Position Accuracy | ±inch (mm) | ±0.0002 (±0.005) |
| X / Y / Z Axes Repeatability Accuracy | ±inch (mm) | ±0.00016 (±0.004) |
| A / C Axes Position Accuracy | sec | ±5 |
| A / C Axes Repeatability | sec | ±3 |
| Machine size | | |
| Width (w/o Chip Conveyor) | inch (mm) | 78.74" (2000) |
| Depth (w/o Chip Conveyor) | inch (mm) | 98.70" (2507) |
| Height | inch (mm) | 115.59" (2936) |
| Weight | lb (kg) | 8377.57" (3800) |
| Door Opening | inch (mm) | 28.35" (720) |
| Coolant system | | |
| Number of Flood Coolant Nozzles | | 2 |
| Coolant Tank Capacity | gal(L) | 42 (160) |
| Chip pan | | Standard |
| Air Blower Nozzle (for Cutting Dry) | | 1 |
| Power requirements | | |
| Electrical | Voltage/ Hz | 220V 3Phase/20KVA/60Hz |
| Air | | 6CFM@88psi |

* Power Foundation and environmental controls are required.
 **Specification is subject to change without further notice.



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SHARP

PRECISION MACHINE TOOLS



SVX-160-F

5-axes Simultaneous
 Vertical Machining Center
 Cross-roller Type Linear Ways



**High Rigidity, High Precision,
Zero Backlash Trunnion Table**

- Trunnion table designed with Roller Cam Bearing components, offers Zero Backlash movements and superior wear resistance.

SVX-160F

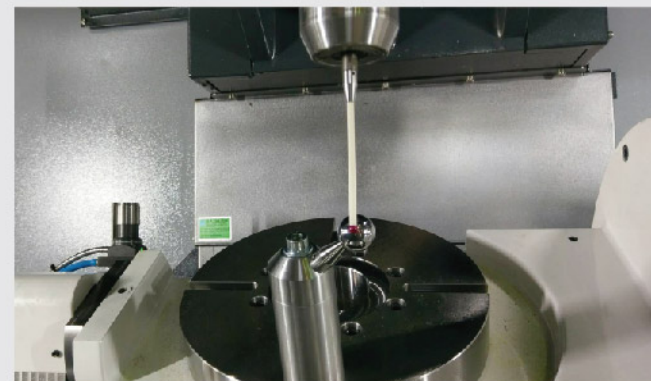
Standard Features

- Cross-roller Type Linear Ways on 3 axes
- 24 Tool Arm-type ATC
- Rapid traverse rates - 1417 ipm (36 M/min)
- BIG PLUS dual contact spindle system
- 12,000 rpm direct drive spindle
- CAT 40 spindle taper
- Fanuc 31i-B5 with 10.4" color LCD
- Rigid tapping
- USB Port, embedded ethernet
- RS232 interface
- Spindle with oil chiller
- Tool setting probe
- Air Gun/ Coolant Gun
- 70 Bar CTS prepped



High Precision Spindle

- The rigid spindle is mounted on two matched pairs of high precision (ABEC 7) angular contact bearings and one ball bearing at the rear. These angular contact bearings are able to withstand both axial and radial loads.



Tool Setting Probe is Standard Accessory



Roller Cam Bearing components used in Trunnion Table

