

SPECIFICATIONS:

Model	unit	SVX-300F
Control		
Fanuc		Model 31i-B5
Screen Size	Inch	10.4" LCD
Travel		
X Axis Travel	inch (mm)	29.92" (760)
Y Axis Travel	inch (mm)	23.62" (600)
Z Axis Travel	inch (mm)	19.69" (500)
Spindle Nose to Table	inch (mm)	3.94"~23.62" (100~600)
Spindle Center to Column	inch (mm)	26.77" (680)
Guideway Design		Roller Linear Guideway (Heavy Duty)
Guideway Width	inch (mm)	X / Y / Z : 1.38" (35) / 1.77" (45) / 1.77" (45)
Ballscrew Diameter	inch (mm)	X / Y / Z : 1.57" (40) / 1.57" (40) / 1.57" (40)
Table		
A Axes	Degree	+30° ~120°
A Axes Diameter	inch (mm)	9.84" (250)
C Axes	Degree	360°
C Axes Diameter	inch (mm)	11.81" (300)
Max. Work Piece Weight	lb. (kg)	330 (150)
Spindle		
Speed	rpm	12,000
Taper (w/o CTS)		CAT 40 Big Plus
Type		Direct coupling
Feed rate		
Rapid Traverse X Axis	ipm (mm/min)	1417" (36,000) α i F12 / 4000 3Kw
Rapid Traverse Y Axis	ipm (mm/min)	1417" (36,000) α i F22 / 3000 4Kw
Rapid Traverse Z Axis	ipm (mm/min)	1417" (36,000) α 22i FB / 3000 4Kw
Cutting Feed Rate	ipm (mm/min)	0.04"~393.7" (1~10,000)
Motor		
Spindle Motor	hp (kw)	10/15 HP (7.5/11 kw)
A Axis (Rotary Table)	rpm	α i F8 / 3000 1.6Kw
C Axis (Rotary Table)	rpm	α i F4 / 4000 1.4Kw
Automatic tool changer		
ATC Type		Swing Arm
Magazine Capacity		24
Method of Tool Selection		Random
Max. Tool Diameter	inch (mm)	2.95" (75)
Without Adjacent Tool	inch (mm)	5.9" (150)
Max. Tool Length	inch (mm)	11.8" (300)
Max. Tool Weight	lb. (kg)	15.4" (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	±inch (mm)	±0.00012" (±0.003)
A / C Axes Position Accuracy	sec	15
A / C Axes Repeatability	sec	6
Machine size		
Width (w/o Chip Conveyor)	inch (mm)	119" (3,000)
Depth (w/o Chip Conveyor)	inch (mm)	91.73" (2,330)
Height	inch (mm)	124.41" (2,960)
Weight	lb. (kg)	16500 (7,500)
Door Opening	inch (mm)	43.3" (1,100)
Coolant system		
Number of Flood Coolant Nozzles		2
Coolant Tank Capacity	gal(L)	53.79" (240)
Air Blower Nozzle (for Cutting Dry)		1
Power requirements		
Electrical	Voltage/Hz	220V 3 Phase / 35KVA / 60Hz
Air		6 CFM @88psi

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

SHARP MODEL SVX-300F

5-axes Simultaneous Vertical Machining Center with FANUC 31i-B5 CNC Control



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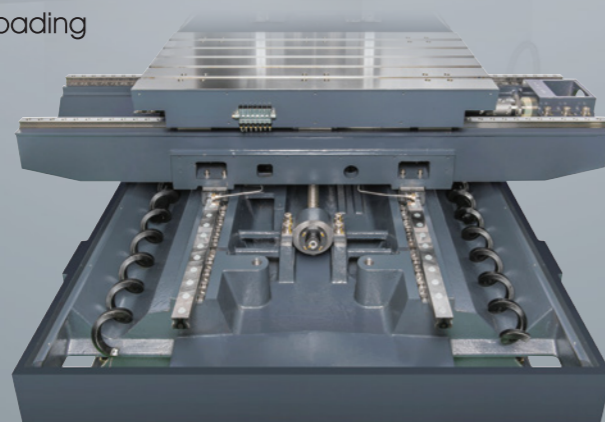


Actual Machine Trunnion Sits Directly on Saddle, Without Table, To Increase Head Travel

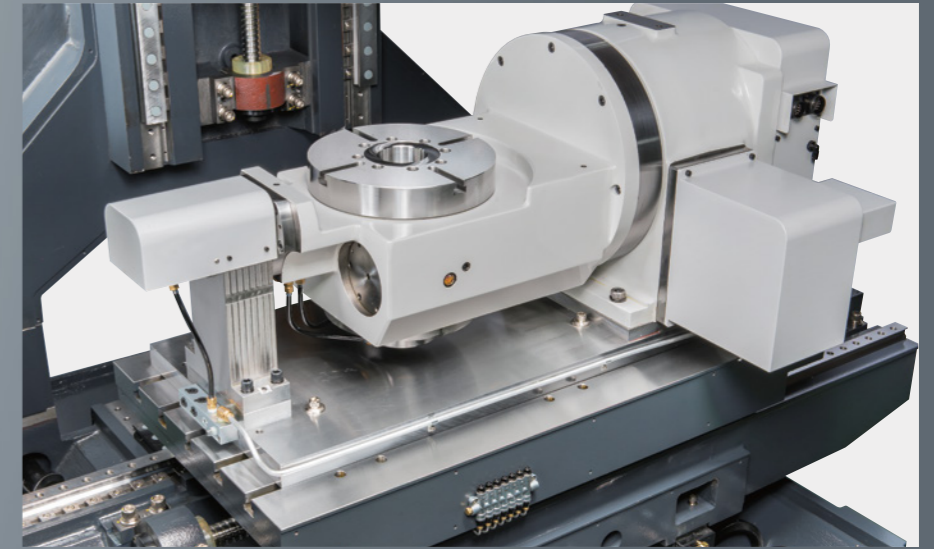
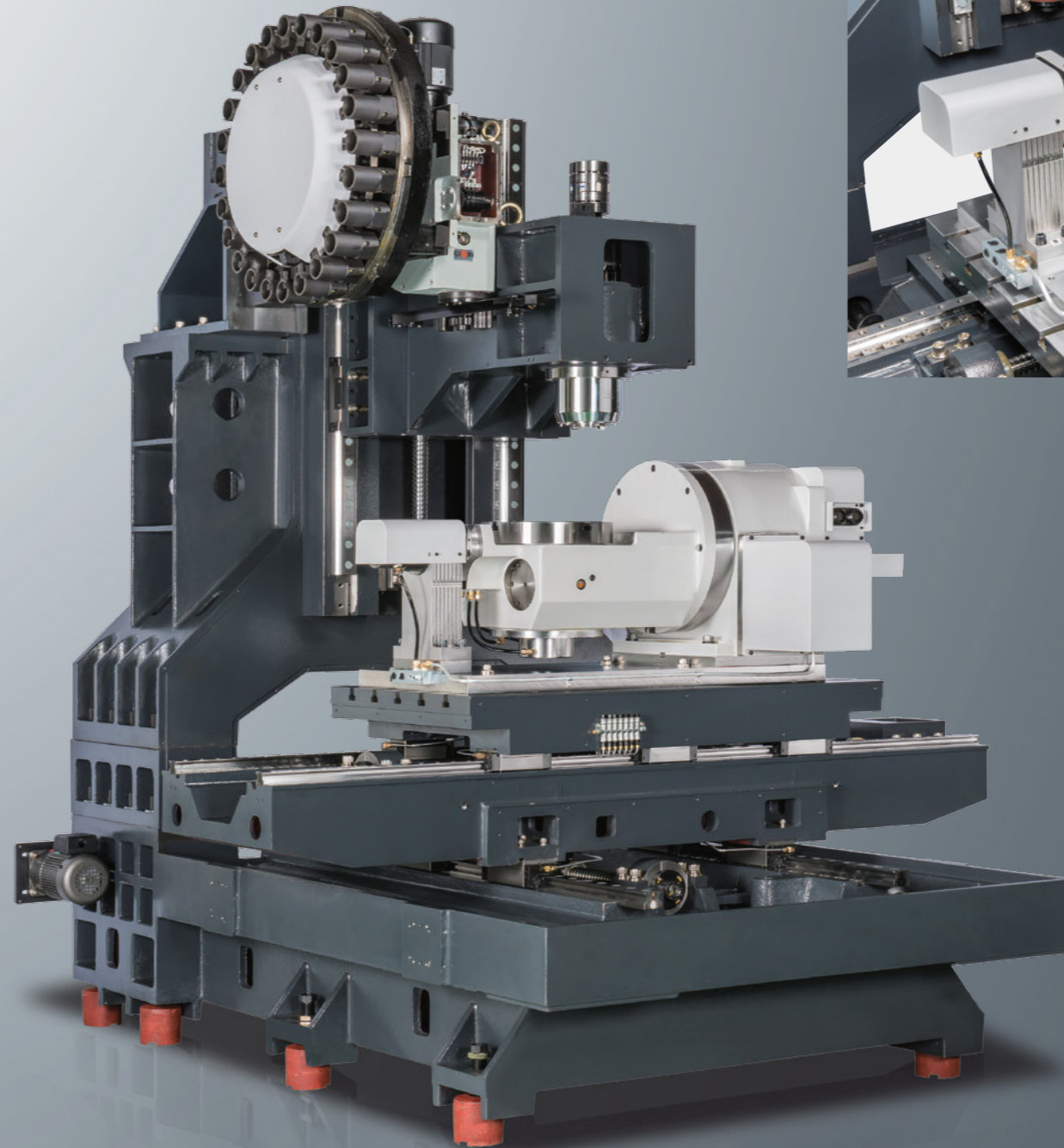


Extra Wide Single Door Design

- The opening of door at 43 ins wide allow easy loading and unloading of workpiece and fixtures.



Double Screw Type Augers for efficient removal of chips



High Rigidity, High Precision, Zero Backlash Trunnion Table

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

Heavily ribbed, oversized vertical column

- Extra wide precision roller rail linear guideways
- Fanuc high level Alpha Drive Systems and Motors are used on axial drives
- Fast Tool Change System integrated with interface support block



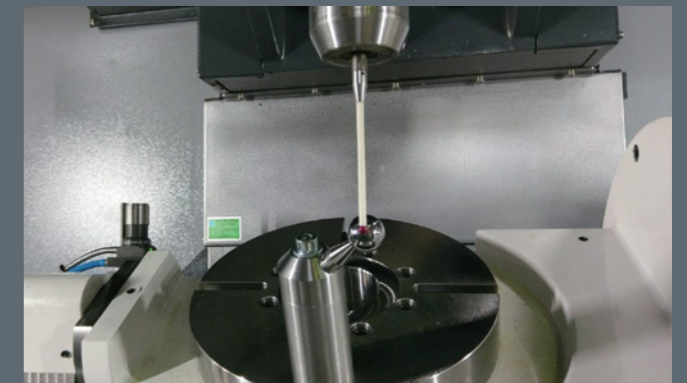
High Rigidity Direct Coupling Spindle 12,000 rpm



Roller Cam Bearing components used in Trunnion Table



Work Piece Probe is Standard Accessory (BLUM Model T-60 shown)



Tool Setting Probe is Standard Accessory (BLUM Model Z-nano shown)