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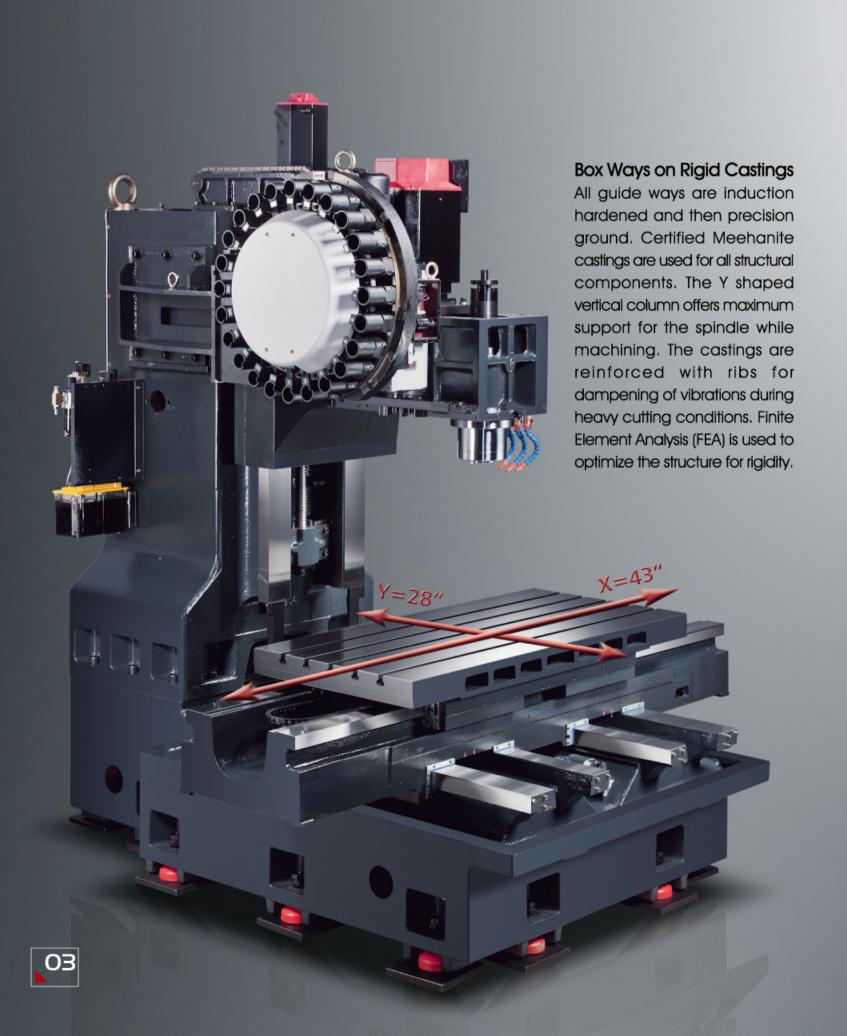
SHARP MODEL SV-4328ST BOX WAY VERTICAL MACHINING CENTER



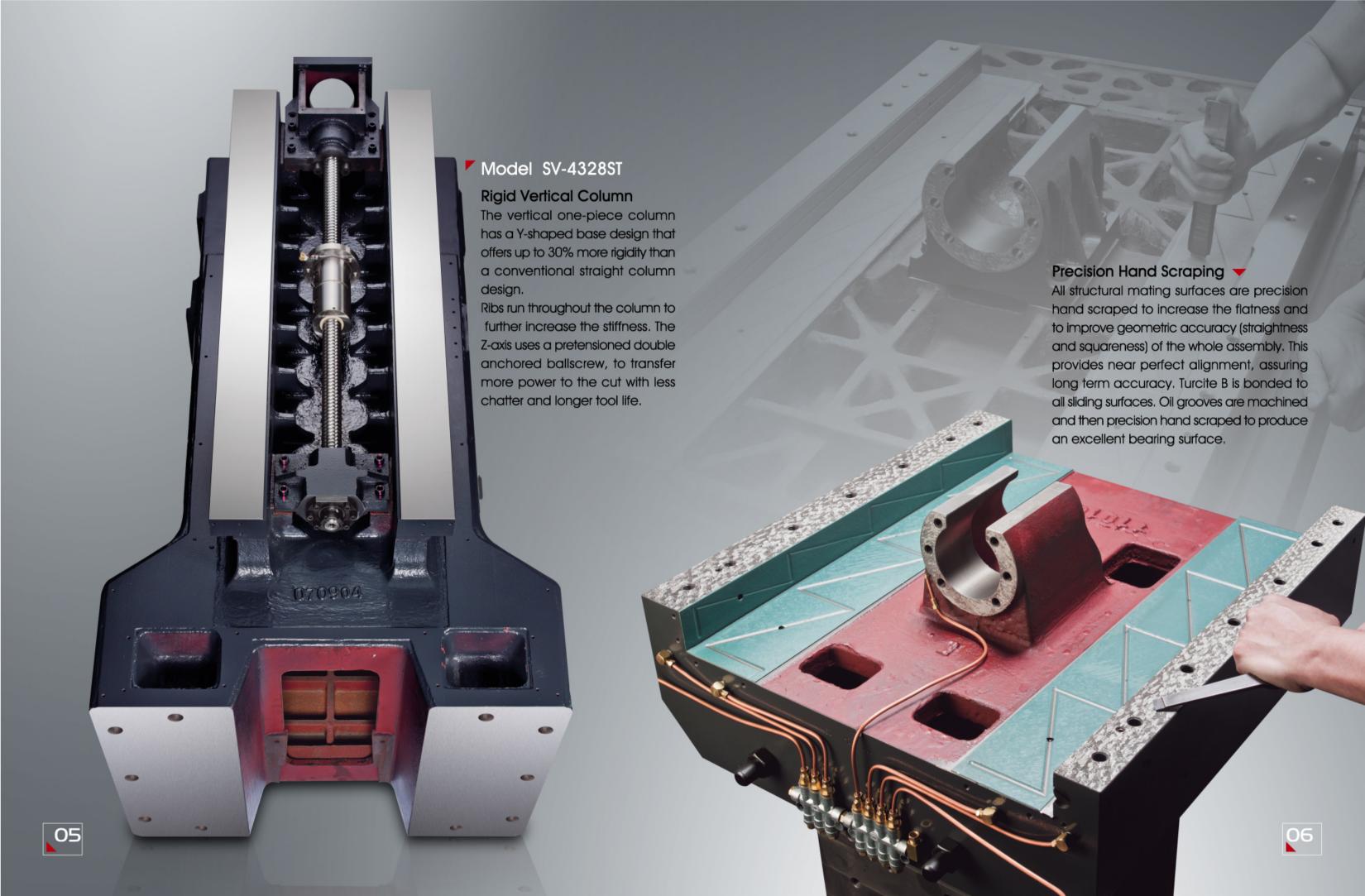


The SHARP SV-4328ST Vertical Machining Center is built on proven technology with a reliable and user-friendly CNC control. The machine offers a large working area for a wide range of applications. The 43" X travel, and 28" Y travel, is unique in the industry. It allows large work piece machining in one set up. The hardened and ground box ways ensure maximum rigidity.





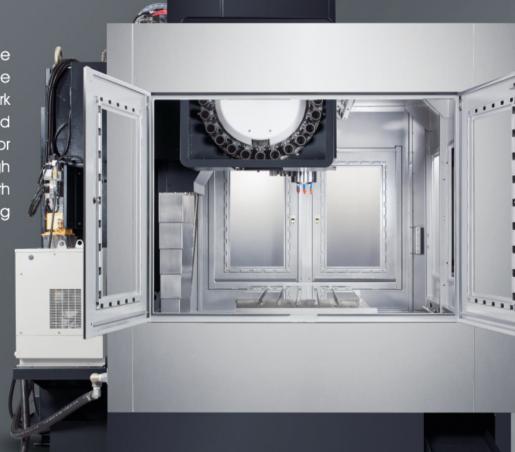






Large Side Door

Both sides of the machine enclosure have large removable doors. Long work pieces can be loaded through the sides. The door openings are large enough to allow full "Y" axis travel with long work pieces extending through the sides.





Oil Skimmer

Tramp oils are continuously skimmed from the coolant tank. This reduces bacteria growth and greatly extends coolant life.



Refrigerated oil is circulated around the spindle to draw heat away from it. This helps control thermal expansion that may effect accuracy.



Specifications		SV-4328ST	SV-4328SX
Work Capacity			
X axis travel	inch (mm)	43.3 (1100)	
Y axis travel	inch (mm)	27.56 (700)	
Z axis travel	inch (mm)	24 (610)	
Spindle nose to table	inch (mm)	5.1~29.1 (130~740)	
Spindle center to column	inch (mm)	28.7 (730)	
Worktable			
Table area	inch (mm)	51.2 x 25.6 (1300 x 650)	
Floor to table	inch (mm)	33.5 (850)	
Max. workpiece weight	lb. (kg)	2200 (1000)	
T-Slot (Number x Width x Pitch)		5 x 0.7 x 3.9 (5 x 18 x 100)	
Spindle			
Spindle taper		CA	NT-40
Spindle speed (max)	rpm	10,000 (steel bearings)	12,000 (ceramic bearings)
Spindle motor: cont. / 30 min	hp (kw)	20 / 25 (15 / 18.5)	
Spindle torque: 30 minute rating	ft-lb. (nm)	86.8 (117.7) @1500 rpm	
Transmission		Belt	
Automatic Tool Changer			
ATC type		Arm Type	
Tool capacity		24	
Max. tool diameter	inch (mm)	2.99 (76)	
Without adjacent tool	inch (mm)	5.9 (150)	
Max. tool length	inch (mm)	11.8 (300)	
Max. tool weight	lb. (kg)	15.4 (7)	
Tool change time (tool to tool)		4.6 sec	
Tool change time (chip to chip)		6 sec	
Method of tool selection		Random	
Motion			
Rapid traverse	ipm (mm/min)	X/Y: 945 (24,000	0), Z: 590 (15,000)
Cutting feed rate	ipm (mm/min)	0.04~393.7 (1~10,000)	
Transmission		Direct Drive	
Ball screw diameter / pitch	inch (mm)	1.57 / 0.4 (40 / 10)	1.8 / 0.4 (45 / 10)
Feed motor (Fanuc)	lb. (kgf)		2), Z: 16 (22)
Positioning accuracy*	inch (mm)		(+/-0.005)
Repeatability accuracy*	inch (mm)	0.0001 ((+/-0.003)
Coolant System			
Coolant tank capacity	gal (L)		(500)
Flood coolant flow volume	gal/min (L/min)	28 (105)	
Number of flood coolant nozzles		3	
Machine Size		111 22 1 122 -	D 114 (0000)
Floor space (w/o chip conveyor)	inch (mm)	· · ·	x D: 114 (2895)
Height	inch (mm)	122 (3100)	
Weight	lb. (kg)	15,840 (7,200)	
Door opening	inch (mm)	47.64	(1210)
Power Requirements	000///40 !!=	0 Db	V 20 IV/V
Electrical Air	220V / 60 Hz		e / 20 KVA
Air 6 CFM @ 88 psi * Proper foundation and environmental controls are required.			

^{*} Proper foundation and environmental controls are required.