



# The Storm SH Range

Vertical Machining Centers



Advanced Machining Technology

## Storm SH Range

The Storm SH Range supplies the higher performance required for all production environments worldwide. The 12,000 rpm spindle coupled with the 1472" per minute rapid traverse rates dramatically reduces cycle times while maintaining rugged cutting performance. The 24 position Dual arm tool changer and chip removal system completes the standard features of this superb performance package.

# ST



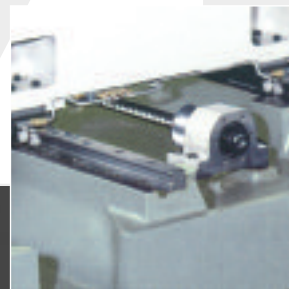
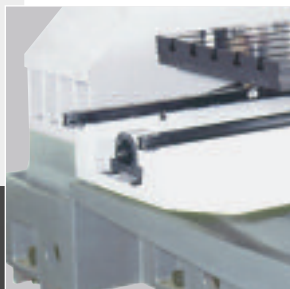
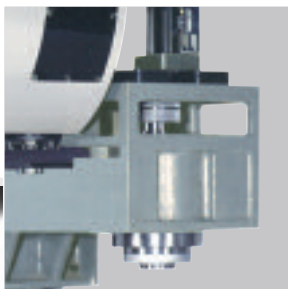
- 12,000 rpm spindle (10,000/15,000 rpm optional).
- 1472"/min (36m/min) rapid traverse.
- Fast 24 position Dual Arm Toolchanger to reduce cycle times and improve your productivity.
- Simple Chip removal system for quick and easy cleaning and maintenance.
- Available with Fanuc 0iMC or the Anilam 6000i control.
- Extra heavy duty 'Meehanite' cast iron base and saddle ensures proven thermal and mechanical rigidity, plus vibration absorption which are extremely important characteristics necessary for heavy loads and high speed traverses.
- Tool racking on the side of the machine.

The 12,000 rpm belt driven spindle (10,000/15,000 rpm optional) provides the high speeds required to enable superior part finish combined with the ability to maintain excellent cutting performance.

The massive cast iron and heavily ribbed column provides greater damping capacity than steel. Our extra deep column provides maximum lateral stiffness, for consistent accuracy while withstanding the tremendous forces required during heavy cutting.

Standard 24 position Dual Arm Toolchanger with an extremely quick 2.5 second tool-to-tool change time, which will reduce your cycle times and improve your work throughput.

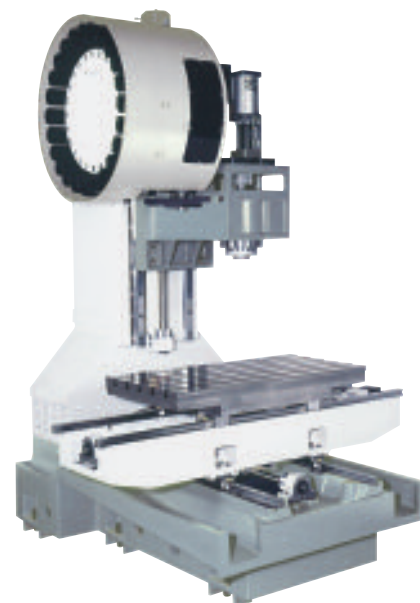
The roller linear rail system is designed to allow fast traverse rates up to 1417" (36m) per minute. The integral pressurized forced lubrication system provides trouble free long life and higher accuracy levels.



### MACHINE SPECIFICATIONS

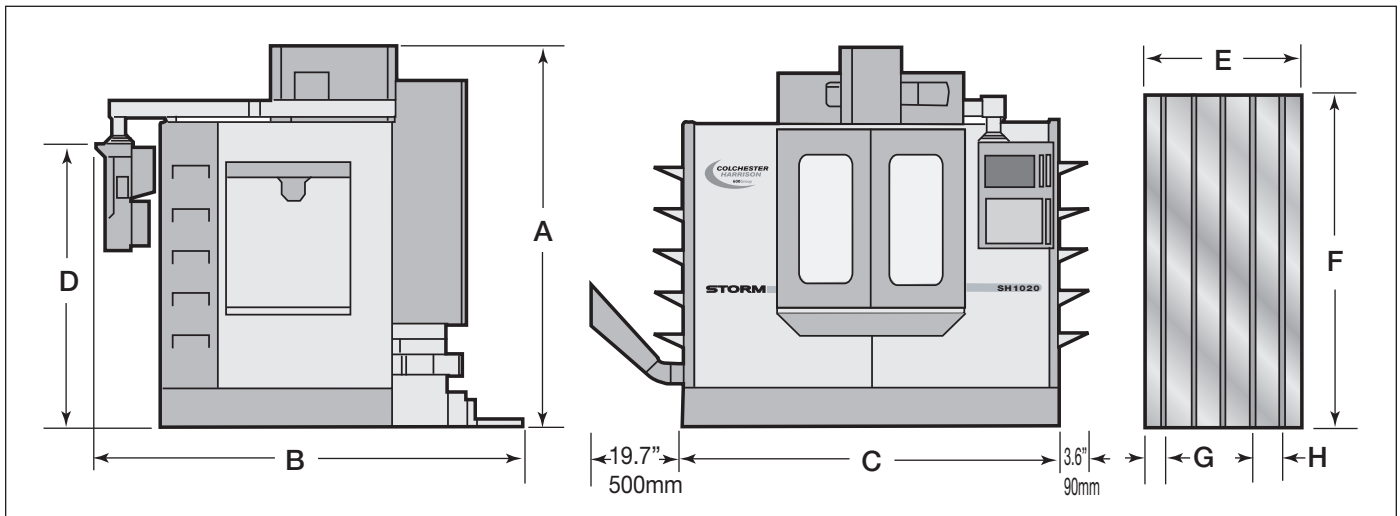
Model	SH610	SH1020	SH1200	SH1400
<b>Table</b>				
Dimensions	27.5" x 17.7" (700 x 450mm)	43.3" x 22" (1100 x 560mm)	49.6" x 23.6" (1260 x 600mm)	56.7" x 23.6" (1440 x 600mm)
Number of T-slots	3	5	5	5
T-slot width	.71" (18mm)	.71" (18mm)	.71" (18mm)	.71" (18mm)
T-slots centre	4.92" (125mm)	3.94" (100mm)	3.94" (100mm)	3.94" (100mm)
Table load	660 lbs. (300 kg)	2205 lbs. (1000 kg)	3968 lbs (1800 kg)	3968 lbs (1800 kg)
<b>Work Travels</b>				
X axis	24" (610mm)	40" (1020mm)	47.24" (1200mm)	55.12" (1400mm)
Y axis	18" (460mm)	22" (560mm)	24.8" (630mm)	24.8" (630mm)
Z axis	18.9" (480mm)	23.6" (600mm)	24.8" (630mm)	24.8" (630mm)
Spindle nose to table	5.9" - 23.4" (150 - 645mm)	5.9" - 29.5" (150 - 750mm)	4.92" - 28.54" (125 - 725mm)	4.92" - 28.54" (125 - 725mm)
Spindle center to column	19.7" (500mm)	24.6" (625mm)	26.45" (672mm)	26.45" (672mm)
<b>Spindle</b>				
Spindle Motor	7.5/10 hp (5.5/7.5kw)	10/15 hp (7.5/11kw)	11/15	11/15
Spindle Motor (option)	10/15 hp (7.5/11kw)	15/20 hp (11/15kw)	15/20	15/20
Spindle Taper	40	40	40	40
Spindle Speed (rpm)	12,000	12,000	12,000	12,000
Optional Spindle Speeds (rpm)	10,000/15,000	10,000/15,000	10,000/15,000	10,000/15,000
<b>Feed Rates</b>				
Rapid traverse X/Y	1472"/min (36m/min)	1472"/min (36m/min)	945"/min (24m/min)	945"/min (24m/min)
Rapid traverse Z	945"/min (24m/min)	945"/min (24m/min)	787"/min (20m/min)	787"/min (20m/min)
Cutting Feed Rate	.04" - 394"/min (1-10,000mm/min)	.04" - 394"/min (1-10,000mm/min)	.04" - 394"/min (1-10,000mm/min)	.04" - 394"/min (1-10,000mm/min)
<b>Tool Changer</b>				
Capacity	24	24	24	24
Type	Dual Arm	Dual Arm	Dual Arm	Dual Arm
Tool Diameter	4.72" (120mm)	4.72" (120mm)	4.72" (120mm)	4.72" (120mm)
Tool Length	7.8" (200mm)	11.81" (300mm)	11.81" (300mm)	11.81" (300mm)
Tool Weight	13 lbs (6 kg)	13 lbs (6 kg)	13 lbs (6 kg)	13 lbs (6 kg)
<b>Dimensions &amp; Weight</b>				
Floor Space (LxWxH)	106" x 95.5" x 85.5" (2690 x 2425 x 2173mm)	125.6" x 104" x 102.5" (3190 x 2639 x 2600mm)	141.4" x 139.1" x 113" (3590 x 3533 x 2870mm)	157.1" x 139" x 113" (3990 x 3533 x 2870mm)
Weight	8,818 lbs (4,000 kg)	13,889 lbs (6,300 kg)	18,959 lbs (8,600 kg)	19,400 lbs (8,800 kg)

Specifications and design are subject to change without notice or obligation.



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## Storm SH Range Dimensions



Model	Height A	Width B	Length C	D	E	F	G	H
SH610	85.5" (2173mm)	95.5" (2425mm)	83" (2100mm)	64" (1622mm)	17.7" (450mm)	27.6" (700mm)	3.94" (100mm)	4.9" (125mm)
SH1020	102.5" (2600mm)	104" (2639mm)	102.5" (2600mm)	73" (1850mm)	22" (560mm)	43.3" (1100mm)	3.15" (80mm)	3.94" (100mm)
SH1200	113" (2870mm)	139" (3533mm)	118" (3000mm)	72.5" (1843mm)	23.6" (600mm)	50" (1260mm)	2" (50mm)	3.94" (100mm)
SH1400	113" (2870mm)	139" (3533mm)	134" (3400mm)	72.5" (1843mm)	23.6" (600mm)	56.7" (1440mm)	2" (50mm)	3.94" (100mm)

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