

Engineered for efficiency Storm Vertical Machining Centres Combining a high-speed spindle with precise linear guideways ensures that the STORM series gives outstanding efficiency, accuracy and value throughout its lifetime. Outstanding versatility and rigidity are offered as standard with superior component finish, performed smoothly and easily. Introducing a **new** generation of CNC machining quality with extra value, efficiency and accuracy. 2 | Storm VMC Series | Vertical Machining Centre





Combining a high-speed spindle with precise linear guideways ensures that the STORM series gives outstanding efficiency, accuracy and value throughout its lifetime.

Outstanding versatility and rigidity are offered as standard with superior component finish, performed smoothly and easily.

A completely new, well-balanced, high-speed, high production machine, ideally suited for the moulding and metal cutting industries.

The STORM VMC range is manufactured with a highly-rigid cast iron trapezoidal base and column structure, adopting premium quality structural components throughout - ensuring the highest possible cutting strength and surface finish.

The STORM VMC range is built with power and precision for fast cycle times, with professionally mounted high-quality linear guideways, to guarantee superior feed accuracy and long service life.

STORM VMC have optional high speed (12,000 rpm / 15,000 rpm) ratings with high resolution accuracy. Low noise, minimum vibration and low thermal displacement are also outstanding features of the STORM range.

Models shown: Storm 600 Storm 1050

Storm VMC's Vertical Machining Centres

All Storm Vertical Machining Centres have a larger Z-axis linear block design and a maximum span length compared to other competitive machining centres, which vastly enhances Z-axis machining stability.

	Storm 500
Table Size (mm)	660 x 400
Max Table Load (kgs)	250
Tool Storage Capacity	16 turret
Spindle Power (kW)	5.5
Spindle Speed (rpm)	20,000



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Storm 600	Storm 850	Storm 1050	Storm 1260	Storm 1480	Storm 1680
710 x 410	950 x 500	1,150 x 500	1,500 x 700	1,550 x 700	1,750 x 700
300	500	700	880	1,000	1,200
20 arm	24 arm	24 arm	24 arm	24 arm	24 arm
7.5	7.5	11	11	BT40: 15 (BT50: 18.5)	BT40: 15 (BT50: 18.5)
12,000	10,000	10,000	10,000	Std: 10,000 (8,000)	Std: 10,000 (8,000)

Side Mounted ATC

Arm type ATC with 20 or 24 tool capacity provides reliable and fast tool changing times, maintaning shop-floor efficiency at all times.

Highly rigid roller type linear guideways

All axes are fitted with large diameter roller type linear guideways, ensuring rigidity, accuracy and high speed cutting.

Large capacity working area

The STORM VMC's large working space ensures plenty of movement and enables easy part loading and unloading.

Spindle

12,000 or 15,000 rpm high speed spindles available.



The Meehanite cast machine base gives high stability and accuracy, preventing vibration, which ensures maximum accuracy every time.

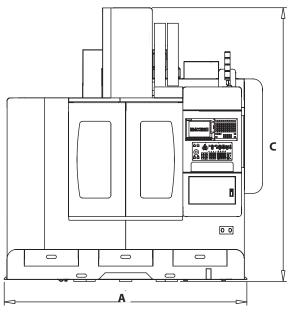
Precision, Performance & Reliablity

STORM VMC Floorplans & Dimensions Enhanced Performance

STORM VMC Specifications

		Storm 500	Storm 600	Storm 850	Storm 1050	Storm 1260
Controller		Fanuc 0i-MF				
Travel						
X x Y x Z axis	mm	510 x 400 x 320	610 x 410 x 530	850 x 550 x 560	1050 x 550 x 560	1200 x 650 x 630
Spindle nose to table	mm	150-470	100-630	120-680	120-680	100-730
Spindle centre to solid column surface	mm	474	495	600	600	700
Table						
Working Area	mm	660 x 400	710 x 410	950 x 500	1150 x 500	1350 x 600
Max. loading	kg	250	300	500	700	880
T-Slots (No. x Width x Pitch)	mm	3 x 14 x 125	3 x 18 x 125	4 x 18 x 125	4 x 18 x 125	4 x 18 x 130
Spindle						
Speed	rpm	20000	12000	10000	10000	10000
Transmission	-	Direct Drive	Direct Drive	Belt Drive	Belt Drive	Belt Drive
Bearing lubrication	-	Grease	Grease	Grease	Grease	Grease
Cooling system	-	Oil cooled				
Spindle motor max. rating	kW	5.5	7.5	7.5	11	11
Axis motor max. rating	kW	1.8 / 1.8 / 2.5	1.8 / 1.8 / 2.5	2.5 / 2.5 / 2.5	2.5 / 2.5 / 2.5	2.0 / 3.5 / 3.5
Feed Rates						
Rapids (X / Y / Z)	m/min	48 / 48 / 48	48 / 48 / 48	36 / 36 / 25	36 / 36 / 25	40 / 40 / 30
Max. cutting feedrates	m/min	10	10	10	10	15
Tool Magazine						
Tool storage capacity	pcs	16 Turret	20 arm	24 arm	24 arm	24 arm
Гуре of tool (optional)	type	BT30 Turret Type	BT40	BT40	BT40	BT40
Max. tool diameter (adjacent pockets empty)	mm	60	76 (150)	76 (150)	76 (150)	76 (150)
Max. tool weight	kg	3	5	7	7	7
Max. tool length	mm	200 arm	250 arm	300 arm	300 arm	300 arm
Average Changing Time (ARM)						
Tool to tool	sec.		2.5	2.7	2.7	2.7
Chip to chip (50% Z axis)	sec.		3.6	6.7	6.7	6.7
Air source required	bar		6	6	6	6
Accuracy						
Positioning accuracy (VDI) 3341)	mm	0.01	0.01	0.01	0.01	0.01
Repeatability accuracy (VDI) 341)	mm	0.006	0.006	0.006	0.006	0.006
Other						
Power requirements	KVA	15	15	15	15	20
Machine size (L x W x H)	mm	1700 x 2400 x 2400	1900 x 2240 x 2600	2700 x 3000 x 2870	2850 x 3000 x 2870	3640 x 3160 x 2800
VIACITITIE SIZE (L X VV X I I)						

STORM VMC Floorplans & Dimensions

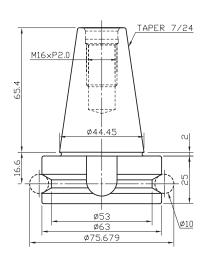


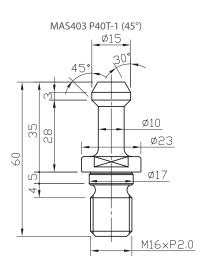
Model	Α	В	С
Storm 600	1900mm	2260mm	2600mm
Storm 850	2700mm	3000mm	2870mm
Storm 1050	2850mm	3000mm	2870mm
Storm 500	1700mm	2400mm	2400mm
Storm 1260	3640mm	3100mm	2850mm
Storm 1480	3930mm	3200mm	3050mm
Storm 1680	4330mm	3200mm	3050mm

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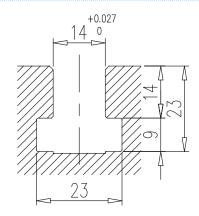
Toolholder & Pull Stud Specification (BT40)

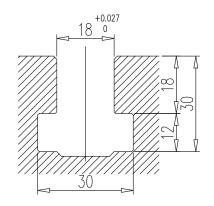
Storm 1480	Storm 1680
Fanuc 0i-MF	Fanuc 0i-MF
1400 x 800 x 750	1600 x 800 x 750
75-825	75-825
863	863
1550 x 700	1750 x 700
1000	1200
5 x 18 x 125	5 x 18 x 125
10000	10000
Belt Drive	Belt Drive
Grease	Grease
Oil cooled	Oil cooled
15	15
3.5 / 3.5 / 3.5	3.5 / 3.5 / 3.5
30 / 30 / 25	30 / 30 / 25
10	10
10	10
24 arm	24 arm
BT40	BT40
76 (150)	76 (150)
7	7
300 arm	300 arm
2.7	2.7
6.7	6.7
6	6
0.01	0.01
0.01	0.01
0.000	0.000
30	30
3930 x 3200 x 3050	4330 x 3200 x 3050
11600	12100





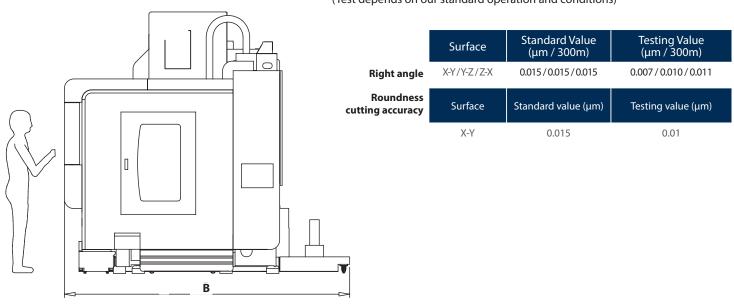
Size of T-Slots





Static accuracy inspection:

(Test depends on our standard operation and conditions)



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