

STORM

Family of CNC Vertical Machining Centers

Best Valued VMC in the Market Today...



VMC450L

- Linear Ways
- 23.6" x 12.6" Table
- 20"x16"x18" X/Y/Z Travel
- 10/7.5 hp Spindle Motor
- 10,000 rpm Spindle

VMC610L/S

- Linear or Square Ways
- 31.5" x 17.7" Table
- 24"x18"x20" X/Y/Z Travel
- 10/7.5 hp Spindle Motor
- 10,000 rpm Spindle

VMC850L/S

- Linear or Square Ways
- 39.37" x 19.68" Table
- 33.5"x20"x22" X/Y/Z Travel
- 15/10 hp Spindle Motor
- 10,000 rpm Spindle



VMC1020L/S

- Linear or Square Ways
- 47.24" x 19.68" Table
- 40"x20"x22" X/Y/Z Travel
- 20/15 hp Spindle Motor
- 10,000 rpm Spindle

VMC1300S

- Square Ways
- 55.23" x 23.62" Table
- 51"x25.5"x28" X/Y/Z Travel
- 20/15 hp Spindle Motor
- 10,000 rpm Spindle



Shown with
optional guarding

VMC1600S

- Square Ways
- 66.93" x 32.08" Table
- 67"x31"x27" X/Y/Z Travel
- 20/15 hp Spindle Motor
- 5,000 rpm Spindle



Take a Minute and Compare

Machine Specifications

Model	VMC500L	VMC610L/S	VMC850L/S	VMC1020L/S	VMC1300S	VMC1600S
Table						
Dimensions	23.6" x 12.6"	31.5" x 17.7"	39.37" x 19.68"	47.24" x 19.68"	55.23" x 23.62"	66.93" x 32.08"
Number of T-slots	3	3	5	5	5	5
T-slot width	.55"	.7"	.71"	.71"	.71"	.71"
T-slots center	3.94"	3.94"	3.94"	3.94"	3.94"	5.9"
Table load	800 lbs.	990 lbs.	2,200 lbs.	2,200 lbs.	3,300lbs.	4840 lbs.
Work Travels						
X axis (long.) Linear Ways	20.07"	24"	33.46"	40.15"	-	-
X axis (long.) Square Ways	-	24"	33.46"	40.15"	51.18"	62.99"
Y axis (cross)	16.14"	18.1"	20"	20"	25.59"	31.49"
Z axis (vertical)	18.11"	20.08"	22"	22"	27.95"	27.56"
Spindle nose to table						
Linear Ways	5" - 23.1"	4.92" - 25"	5.9" - 27.94"	5.9" - 27.94"	-	-
Square Ways	-	4.92" - 25"	5.7" - 27.74"	5.7" - 27.74"	5.9" - 33.86"	7.87" - 35.43"
Spindle center to column						
Linear Ways	16.9"	21.77"	24.1"	24.1"	-	-
Square Ways	-	21.06"	22.6"	22.6"	27.56"	33.46"
Table center to column						
Linear Ways	9.53" - 23.31"	12.72" - 30.83"	13.89" - 33.98"	13.89" - 33.98"	-	-
Square Ways	-	12.01" - 30.12"	12.6" - 32.7"	12.6" - 32.7"	14.76" - 40.35"	17.71" - 47.24"
Ballscrew dia./pitch	1.26"/.47"	1.57"/.47"	1.57"/.47"	1.57"/.47"	1.57"/.39"	1.57"/.39"
Spindle						
Spindle Motor (30 min./Cont.)	10/7.5 hp	10/7.5 hp	15/10 hp	20/15 hp	20/15 hp	20/15 hp
Spindle taper	CAT #40	CAT #40	CAT #40	CAT #40	CAT #40	CAT #50
Spindle speed	8,000 rpm	10,000 rpm	10,000 rpm	10,000 rpm	10,000 rpm	5000 rpm
Option #1 spindle speed	12,000 rpm	12,000 rpm	12,000 rpm	12,000 rpm	12,000 rpm	6000 rpm
Option #2 spindle speed	10,000 rpm	8000 rpm	8000 rpm	8000 rpm	8000 rpm	-
Option #3 spindle speed	6000 rpm	6000 rpm	6000 rpm	6000 rpm	-	-
Feed Rates						
Rapid traverse Linear Ways	1417 in/min	1417 in/min	1417 in/min	1417 in/min	-	-
Rapid traverse Square Ways	-	945 in/min	945 in/min	945 in/min	X/Y-590 Z-472in/min	X/Y-590 Z-472in/min
Cutting feed rate	.4 - 787 in/min	.4 - 590 in/min	.4 - 590 in/min	.4 - 590 in/min	.4 - 590 in/min	.4 - 590 in/min
Auto Tool Changer						
Number of tools	12 Genova	24 Twin Arm	24 Twin Arm	24 Twin Arm	24 Twin Arm	24 Twin Arm
Chip to chip	10 sec.	4 sec.	4 sec.	4 sec.	4 sec.	4 sec.
Max. tool dia.	5.9"	7.08"	7.08"	7.08"	7.08"/9.8"	9.8"
Max. tool length	7.87"	11.81"	11.81"	11.81"	11.81"	11.81"
Max. tool weight	13.2 lbs.	17.6 lbs.	17.6 lbs.	17.6 lbs.	17.6 lbs.	33 lbs.
Tool shank	CAT #40	CAT #40	CAT #40	CAT #40	CAT #40/50	CAT #50
Miscellaneous						
Coolant pump	.5 hp	.5 hp	.5 hp	.5 hp	.5 hp	.5 hp
Air pressure	85 psi	85 psi	85 psi	85 psi	85 psi	99.5 psi
Lubrication	Auto Oil	Auto Oil	Auto Oil	Auto Oil	Auto Oil	Auto Oil
Total KVA (3 axes/4 axes)	15/20 KVA	20/25 KVA	25/30 KVA	25/30 KVA	30/30 KVA	35/40 KVA
Machine Accuracy						
Positioning	±.0002"	±.0002"	±.0002"	±.0002"	±.0002"	±.0002"
Repeatability	±.0001"	±.0001"	±.0001"	±.0001"	±.0001"	±.0001"
Dimensions & Weight						
L x W x H	79" x 95" x 87"	87" x 109" x 91"	111" x 99" x 103"	122" x 99" x 103"	128" x 110" x 109"	173" x 132" x 127"
Weight Linear Ways	4,850 lbs	8,800 lbs	10,582 lbs	11,023 lbs	-	-
Weight Square Ways	-	8,800 lbs	11,023 lbs	11,464 lbs	15,873 lbs	30,864

**All Storm VMC Models come with • Rigid Tapping
• Pull Studs • Transformer, as standard equipment.**



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Model	Guideways Type	Model	Guideways Type
VMC500L	Linear Ways	VMC1020L	Linear Ways
VMC610L	Linear Ways	VMC1020S	Square Ways
VMC610S	Square Ways	VMC1300S	Square Ways
VMC850L	Linear Ways	VMC1600S	Square Ways
VMC850S	Square Ways		

Specifications subject to change without notice.