



# HTM / VM SERIES



## Small footprint. Large work cube. One-piece machine base. Absolutely the best value on the market today.

The Hurco VM CNC mills are the perfect combination of size and functionality with an efficient design that conserves space and results in a compact CNC mill that has both a small footprint and a large work cube. With machine weights ranging from 5,800 lbs to 9,500 lbs, the VM Series is absolutely the most economical price-per-pound machine you can buy.

## HTM / VM Specifications

	<b>HTM30i</b>	<b>VM5i</b>	<b>VM10i</b>	<b>VM20i</b>	<b>VM30i</b>
<b>X, Y, Z axis travel</b>	30 x 16 x 18 in (760 x 406 x 457 mm)	18 x 14 x 14 in (457 x 356 x 356 mm)	26 x 16 x 20 in (660 x 406 x 508 mm)	40 x 20 x 20 in (1016 x 508 x 508)	50 x 20 x 20 in (1270 x 508 x 508)
<b>Table size</b>	35.4 x 16.1 in (900 x 410 mm)	18 x 14 in (457 x 356 mm)	30 x 16 in (762 x 406 mm)	46 x 20 in (1168 x 508 mm)	52 x 20 in (1321 x 508 mm)
<b>Max weight on table</b>	992 lbs (450 kg)	500 lbs (227 kg)	1500 lbs (680 kg)	2000 lbs (907 kg)	2000 lbs (907 kg)
<b>Max spindle speed</b>	8000 rpm	8000 rpm	10000 rpm	10000 rpm	10000 rpm
<b>Peak spindle power</b>	12 hp (9 kW) @ 1500 rpm	10 hp (7.5 kW) @ 1450 rpm	15 hp (11 kW) @ 1450 rpm	20 hp (15 kW) @ 1450 rpm	20 hp (15 kW) @ 1450 rpm
<b>Max spindle motor torque</b>	42 ft-lbs (57 Nm)	36 ft-lbs (48.8 Nm)	54 ft-lbs (73.6 Nm)	75 ft-lbs (102 Nm)	75 ft-lbs (102 Nm)
<b>Max tool diameter / length / weight</b>	4 in / 11 in / 10 lbs (100 mm / 280 mm / 4.5 kg)	3.5 in / 7.9 in / 15.4 lbs (90 mm / 200 mm / 7 kg)	3.5 in / 9.8 in / 15.4 lbs (90 mm / 250 mm / 7 kg)	3.5 in / 9.8 in / 15.4 lbs (90 mm / 250 mm / 7 kg)	3.5 in / 9.8 in / 15.4 lbs (90 mm / 250 mm / 7 kg)
<b>Max prog. feedrate</b>	300 in / min (7.6 m / min)	748 in / min (19 m / min)	945 in / min (24 m / min)	945 in / min (24 m / min)	945 in / min (24 m / min)
<b>Rapid traverse XYZ</b>	500, 500, 300 in / min (12, 12, 7.6 m / min)	748 in / min (19 m / min)	945 in / min (24 m / min)	945 in / min (24 m / min)	945 in / min (24 m / min)
<b>Tool capacity / type</b>	16 / CAT, BT, or DIN 40		20 / CAT, BT, or DIN 40		20 / CAT, BT, or DIN 40
<b>Required floor space (w x d)</b>	142.7 x 137.6 in (3624 x 3495 mm)	64.3 x 114.3 in (1633.2 x 2903.2 mm)	118.1 x 113.8 in (3000 x 2891 mm)	145.8 x 118.4 in (3703 x 3007 mm)	160.7 x 108 in (4083 x 2743 mm)

## BX SERIES



### High Speed Double Column Machines.

The BXi mills are designed for high speeds, tight tolerances, exceptional accuracies, and outstanding surface finish capabilities. The ladder design of the Z-axis provides rigid support of the saddle and head while preventing deformation in the vertical axis, which promotes faster speeds and highly accurate 3D surfacing. The double column design provides increased rigidity and superior vibration damping.

## BX Specifications

	<b>BX40i</b>	<b>BX50i</b>	<b>BX60i</b>
<b>X, Y, Z axis travel</b>	40.2 x 27.6 x 19.7 in (1020 x 700 x 500 mm)	53.2 x 37.4 x 23.6 in (1350 x 950 x 600 mm)	63 x 51.2 x 27.6 in (1600 x 1300 x 700 mm)
<b>Table size</b>	41.3 x 27.6 in (1,050 x 700 mm)	59.1 x 37.8 in (1500 x 960 mm)	74.8 x 51.2 in (1900 x 1300 mm)
<b>Max weight on table</b>	2204 lbs (1000 Kg)	5512 lbs (2500 kg)	13200 lbs (6000 kg)
<b>Max spindle speed</b>		18000 rpm	
<b>Peak spindle power</b>		47 hp (35 kW) @ 2800 rpm	
<b>Max spindle motor torque*</b>		88 ft-lbs (119 Nm)	
<b>Max tool diameter / length / weight</b>		3 in / 11.8 in / 15.4 lbs (76 mm / 300 mm / 7 kg)	
<b>Max prog. feedrate</b>		1535 in / min (39 m / min)	
<b>Rapid traverse XY, Z</b>		1535 in / min (39 m / min)	
<b>Tool capacity / type</b>		30 HSK 63	
<b>Required floor space (w x d)</b>	188.3 x 138.5 in (4782 x 3518 mm)	182.2 x 175.7 in (4627 x 4463 mm)	206.4 x 205 in (5243 x 5205)

## VMX SERIES



### Rigid. Reliable. Built to last. Designed for high-mix manufacturing.

Our flagship VMX mills are packed with premium components and engineered for rigidity, reliability, and longevity. For example, the VMX mills have larger linear rails, pre-tensioned double-nut ball screws, a 12k dual-wound spindle, and high accuracy encoders. We wedge lock the linear rails to a machined shoulder to increase rigidity and hand-scrape the frame mounting points. With an extra wide table that moves completely forward in the work cube, a generous Y-axis, and larger doors that give you more room to load/unload in addition to easy overhead crane access, the VMX mills support high-mix manufacturing.

### Premium components. Unparalleled technology. More features standard.

The VMX mills include high accuracy components from partners who are experts in their field, such as Yaskawa, and they also include more features as standard instead of add-ons, such as the comprehensive washdown and chip management system that includes the coolant ring with adjustable nozzles, a dedicated pump system, adjustable washdown nozzles strategically placed for optimum effectiveness, and a chip conveyor. Hurco mills include unparalleled technology to make your business more productive and more profitable, such as our integrated control powered by WinMax and our patented motion system that simultaneously reduces cycle time and improves surface finish quality. Learn more at [hurco.com/ultimotion](http://hurco.com/ultimotion).

## VMX Specifications

	<b>VMX24i</b>	<b>VMX30i</b>	<b>VMX42i</b>	<b>VMX50i</b>
<b>X, Y, Z axis travel</b>	24 x 20 x 24 in (610 x 508 x 610 mm)	30 x 20 x 24 in (762 x 508 x 610 mm)	42 x 24 x 24 in (1067 x 610 x 610 mm)	50 x 26 x 24 in (1270 x 660 x 610 mm)
<b>Table size</b>	30 x 20 in (760 x 510 mm)	40 x 20 in (1020 x 510 mm)	50 x 24 in (1270 x 610 mm)	59 x 26 in (1500 x 660 mm)
<b>Max weight on table</b>			3000 lbs (1360 kg)	
<b>Max spindle speed</b>	12000 rpm	12000 rpm	12000 rpm	40 T 50 T 12000 rpm 8000 rpm
<b>Peak spindle power</b>	12 hp (9 kW) @ 600 rpm	18 hp (13.4 kW) @ 600 rpm	24 hp (18 kW) @ 720 rpm	40 T 50 T 24 hp / (18 kW) @ 720 rpm 29.7 hp / (22.2 kW) @ 600 rpm
<b>Max spindle motor torque*</b>	105 ft-lbs (143 Nm)	158 ft-lbs (214 Nm)	175 ft-lbs (237 Nm)	40 T 50 T 175 ft-lbs (237 Nm) 260 ft-lbs (353 Nm)
<b>Max tool diameter / length / weight</b>		3.1 in / 11.8 in / 15.4 lbs (80 mm / 300 mm / 7 kg)		40 T 50 T 3.1 in / 11.8 in / 15.4 lbs (80 mm / 300 mm / 7 kg) 4.92 in / 11.8 in / 33 lbs (125mm / 300 mm / 15 kg)
<b>Max prog. feedrate</b>		1260 in / min (32 m / min)		40/50 944 in / min (24 m / min)
<b>Rapid traverse XY, Z</b>		1496, 1260 in / min (38, 32 m / min)		1260, 944 in / min (32, 24 m / min)
<b>Tool capacity / type</b>	30 / CAT 40	30 / CAT 40	30 std. / 40 opt. CAT 40	40 T 50 T 30 std. / 40 opt. / CAT, BT, DIN 30 std. / CAT, BT, DIN
<b>Required floor space (w x d)</b>	154.7 x 159.3 in (3929 x 4046 mm)	151.1 x 156.5 in (3838 x 3975 mm)	180 x 144.9 in (4572 x 3680 mm)	198.8 x 172.4 in (5049 x 4378 mm)

	<b>VMX6030i</b>	<b>VMX64i</b>	<b>VMX84i</b>
<b>X, Y, Z axis travel</b>	60 x 30 x 24 in (1524 x 762 x 610 mm)	64 x 34 x 30 in (1625 x 864 x 762 mm)	84 x 34 x 30 in (2134 x 864 x 762 mm)
<b>Table size</b>	66.1 x 30 in (1680 x 762 mm)	66 x 35 in (1676 x 889 mm)	86 x 34 in (2184 x 865 mm)
<b>Max weight on table</b>	3000 lbs (1364 kg)	6000 lbs (2722 kg)	5000 lbs (2268 kg)
<b>Max spindle speed</b>	40 T 50 T 12000 rpm 8000 rpm		
<b>Peak spindle power</b>	40 T 50 T 24 hp (18 kW) @ 720 rpm 30 hp (22.2 kW) @ 600 rpm		
<b>Max spindle motor torque*</b>	40 T 50 T 175 ft-lbs (237 Nm) 260 ft-lbs (353 Nm)		
<b>Max tool diameter / length / weight</b>	3.1 in / 11.8 in / 15.4 lbs (78.7 mm / 300 mm / 7 kg)		
<b>Max prog. feedrate</b>	40/50 945 in / min (24 m / min)	40/50 530 in / min (13.5 m / min)	
<b>Rapid traverse XY, Z</b>	1260, 945 in / min (32, 24 m / min)	709, 530 in / min (18, 13.5 m / min)	
<b>Tool capacity / type</b>	40 T 50 T 40 / CAT 40 30 / CAT 50	40 T 50 T 30 / CAT 40 32 / CAT 50	40 / CAT 40 32 / CAT 50
<b>Required floor space (w x d)</b>	222.6 x 185.5 in (5654 x 4712 mm)	249.5 x 179.7 in (6338 x 4564 mm)	298.2 x 175.2 in (7574 x 4450 mm)

**Bonus:** Only Hurco mills are equipped with our newest invention that simultaneously reduces cycle time and improves surface finish quality. To learn more, go to [hurco.com/ultimotion](http://hurco.com/ultimotion).

\*High speed and high torque spindle options available.

Some machines shown with options. Information may change without notice.

Optimum machine performance is reliant upon installation conditions at the facility, such as power supply, air supply, and ambient air conditions.

50 YEARS of INNOVATION  
1968-2018  
**HURCO**