

## Small Footprint. Large Work Cube. Big Value. >>>

The VM series of 3-axis CNC machining centers features a small footprint with a large work cube. No other CNC mill packs as much productivity into such an efficiently designed package. The VM machining centers are absolutely the best value on the market for small CNC mills.

### VM ONE



### VM10i



### VM10HSi



### VM15Di



### VM20i



### VM30i



## SERIES OVERVIEW

- » One-piece, solid, cast-iron machine base.
- » One of the heaviest machine weights in its class.
- » BIG-PLUS® dual-contact spindle system / CAT 40 tooling (standard, not an option).
- » Robust control specifications (standard, not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Larger, heavy-duty linear rails on all three axes:
  - » The rails are mounted and wedge-locked to a machined shoulder for increased rigidity and reduced vibration, just like all other Hurco machining centers.
  - » The Y-axis rails are strategically spaced for increased strength and rigidity.
- » Wider machine tables extend beyond the X-axis travels to provide manufacturing flexibility that promotes high-mix manufacturing.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » Ergonomically-designed control console with 19" LCD touch-screen.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard, not an option.



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SPECIFICATIONS		VM ONE	VM10i	VM10HSi	VM15Di	VM20i	VM30i
CAPACITY	TABLE SIZE	30 x 16 in / 762 x 406 mm	30 x 16 in / 762 x 406 mm	30 x 16 in / 762 x 406 mm	35.4 x 16 in / 900 x 406 mm	46 x 20 in / 1,168 x 508 mm	52 x 20 in / 1,321 x 508 mm
	TABLE T-SLOTS	3 x .71 in / 3 x 18 mm	3 x .71 in / 3 x 18 mm	3 x .71 in / 3 x 18 mm	3 x .71 in / 3 x 18 mm	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm
	MAXIMUM WEIGHT ON TABLE	3,300 lb / 1,500 kg	3,300 lb / 1,500 kg	3,300 lb / 1,500 kg	3,300 lb / 1,500 kg	3,970 lb / 1,800 kg	3,970 lb / 1,800 kg
	SPINDLE NOSE TO TABLE	3.0 in / 76 mm	4.0 in / 102 mm	4.0 in / 102 mm	4.0 in / 102 mm	4.0 in / 102 mm	4.0 in / 102 mm
TRAVEL	X-AXIS	26 in / 660 mm	26.02 in / 660 mm	26.02 in / 660 mm	30 in / 762 mm	40 in / 1,106 mm	50 in / 1,270 mm
	Y-AXIS	16 in / 406 mm	16.02 in / 406 mm	16.02 in / 406 mm	16 in / 407 mm	20 in / 508 mm	20 in / 508 mm
	Z-AXIS	14 in / 356 mm	20 in / 508 mm	20 in / 508 mm	20 in / 508 mm	20 in / 508 mm	20 in / 508 mm
SPINDLE	MAXIMUM SPINDLE SPEED	8,000 rpm	12,000 rpm	20,000 rpm	12,000 rpm	12,000 rpm	12,000 rpm
	SPINDLE POWER (30 MIN/CONTINUOUS)	7.4 hp (5.5 kW) / 5 hp (3.7 kW) @ 1450 rpm	14.8 hp (11 kW) / 10 hp (7.5 kW) @ 1450 rpm	11.4 hp (8.5 kW) / 10 hp (7.5 kW) @ 1500 rpm	20.1 hp (15 kW) / 14.8 hp (11 kW) @ 1500 rpm	20 hp (15 kW) / 14.8 hp (11 kW) @ 1450 rpm	20 hp (15 kW) / 14.8 hp (11 kW) @ 1450 rpm
	SPINDLE TORQUE (30 MIN/CONTINUOUS)	26.7 ft. lbs (36.2 Nm) / 18.0 ft. lbs (24.4 Nm) @ 1450 rpm	53.4 ft. lbs (72.4 Nm) / 36.4 ft. lbs (49.4 Nm) @ 1450 rpm	4.0 ft. lbs (5.4 Nm) / 3.5 ft. lbs (4.8 Nm) @ 1500 rpm	69.8 ft. lbs (94.6 Nm) / 51.2 ft. lbs (69.4 Nm) @ 1500 rpm	72.9 ft. lbs (98.8 Nm) / 53.4 ft. lbs (72.4 Nm) @ 1450 rpm	72.9 ft. lbs (98.8 Nm) / 53.4 ft. lbs (72.4 Nm) @ 1450 rpm
ATC	TOOL TYPE	CAT 40 / Big Plus®	CAT 40 / Big Plus®	BT30	CAT 40 / Big Plus®	CAT 40 / Big Plus®	CAT 40 / Big Plus®
	TOOL CAPACITY	16	24	20	24	24	24
	MAXIMUM TOOL DIAMETER	3.5 in / 90 mm	3.1 in / 80 mm	3.15 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 mm
	MAXIMUM TOOL LENGTH	7.9 in / 200 mm	9.8 in / 250 mm	9.8 in / 250 mm	9.8 in / 250 mm	9.8 in / 250 mm	9.8 in / 250 mm
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	15.4 lb / 7 kg	6.6 lb / 3 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg
	TOOL-TO-TOOL ATC TIME	3.5 sec	2 sec	1.5 sec	2.5 sec	2.5 sec	2.5 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	X= 1,102 in / 28 m	X= 1,102 in / 28 m	X= 1,102 in / 28 m	X= 1,417 in / 36 m	X= 1,102 in / 28 m	X= 1,102 in / 28 m
		Y= 1,102 in / 28 m	Y= 1,102 in / 28 m	Y= 1,102 in / 28 m	Y= 1,417 in / 36 m	Y= 1,102 in / 28 m	Y= 1,102 in / 28 m
		Z= 1,102 in / 28 m	Z= 1,102 in / 28 m	Z= 1,102 in / 28 m	Z= 1,181 in / 30 m	Z= 1,102 in / 28 m	Z= 1,102 in / 28 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,102 in / 28 m	1,102 in / 28 m	1,102 in / 28 m	1,181 in / 30 m	1,102 in / 28 m	1,102 in / 28 m
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	126.1 x 131.9 x 94.3 in / 3,204 x 3,351 x 2,396 mm	128.5 x 133.2 x 101.0 in / 3,264 x 3,384 x 2,562 mm	126.1 x 133.7 x 101.0 in / 3,204 x 3,395 x 2,564 mm	137.8 x 139.4 x 112.9 in / 3,501 x 3,541 x 2,868 mm	146.5 x 130.4 x 100.0 in / 3,722 x 3,312 x 2,541 mm	160.9 x 130.4 x 100.1 in / 4,086 x 3,312 x 2,543 mm
	MACHINE WEIGHT	6,512 lb / 2,960 kg	7,121 lb / 3,230 kg	6,746 lb / 3,060 kg	7,408 lb / 3,360 kg	9,127 lb / 4,140 kg	9,524 lb / 4,320 kg