

CNC Mills Built for Performance Machining. >>

Our signature line of VMX machining centers takes CNC machining to the next level. These machines deliver high-precision capabilities, rigidity, accuracy, and repeatability. Whether you are doing batch production, one-offs, or die/mold work, the VMX CNC mills will make you more productive and your machine shop more profitable.

VMX24i



VMX30i



VMX42i



VMX50i/50T



SERIES OVERVIEW

- » Wider machine tables extend beyond the X-axis travels to provide manufacturing flexibility that promotes high-mix manufacturing.
- » Direct-coupled ballscrews and motors.
- » Large front door opening. Large, hinged side doors.
- » Larger, heavy-duty roller ways on all three axes.
- » BIG-PLUS® dual-contact spindle system / CAT 40 tooling (standard, not an option).
- » Ceramic hybrid spindle bearings with lifetime grease.
- » One-piece, solid, cast-iron machine base.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » Robust control specifications (standard, not an option) – 4GB RAM Memory, 10,000 block lookahead, 128GB Solid State Hard Drive, 2.7GHz Dual Core Processor.
- » Ergonomically-designed control console with two 19" LCD touch-screens.
- » Adjustable height control arm.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard, not an option.



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SPECIFICATIONS		VMX24i	VMX30i	VMX42i	VMX50i	VMX50i-50T
CAPACITY	TABLE SIZE	30 x 20 in / 760 x 508 mm	40 x 20 in / 1,020 x 508 mm	50 x 24 in / 1,270 x 610 mm	59 x 26 in / 1,500 x 660 mm	59 x 26 in / 1,500 x 660 mm
	TABLE T-SLOTS	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm	5 x .71 in / 5 x 18 mm	6 x .71 in / 6 x 18 mm	6 x .71 in / 6 x 18 mm
	MAXIMUM WEIGHT ON TABLE	3,300 lbs / 1,500 kg	3,300 lb / 1,500 kg	3,850 lbs / 1,750 kg	4,410 lb / 2,000 kg	4,410 lb / 2,000 kg
	SPINDLE NOSE TO TABLE	6.0 in / 152 mm	6.0 in / 152 mm	6.0 in / 152 mm	4.0 in / 101 mm	4.0 in / 101 mm
TRAVEL	X-AXIS	24 in / 610 mm	30 in / 762 mm	42 in / 1,067 mm	50 in / 1,270 mm	50 in / 1,270 mm
	Y-AXIS	20 in / 508 mm	20 in / 508 mm	24 in / 610 mm	26 in / 660 mm	26 in / 660 mm
	Z-AXIS	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm	24 in / 610 mm
SPINDLE	MAXIMUM SPINDLE SPEED	12,000 rpm	12,000 rpm	12,000 rpm	12,000 rpm	8,000 rpm
	SPINDLE POWER	(30 MIN) 20 hp (15 kW) / 14.8 hp (11 kW) @ 1450 rpm	(30 MIN) 14.8 hp (11 kW) / 10 hp (7.5 kW) @ 600 rpm	(30 MIN) 20 hp (15 kW) / 14.8 hp (11 kW) @ 1450 rpm	(15 MIN) 20 hp (15 kW) / 14.8 hp (11 kW) @ 720 rpm	(15 MIN) 18.5 hp (24.8 kW) / 14.8 hp (11 kW) @ 600 rpm
	SPINDLE TORQUE	(30 MIN) 72.9 ft. lbs (98.8 Nm) / 53.4 ft. lbs (72.4 Nm) @ 1450 rpm	(30 MIN) 129.1 ft. lbs (175.1 Nm) / 88 ft. lbs (119.4 Nm) @ 600 rpm	(30 MIN) 72.9 ft. lbs (98.8 Nm) / 53.4 ft. lbs (72.4 Nm) @ 1450 rpm	(15 MIN) 146.7 ft. lbs (198.9 Nm) / 86.1 ft. lbs (116.7 Nm) @ 720 rpm	(15 MIN) 294.4 ft. lbs (217.2 Nm) / 140.1 ft. lbs (103.3 Nm) @ 600 rpm
ATC	TOOL TYPE	CAT 40 / BIG-PLUS®	CAT 40 / BIG-PLUS®	CAT 40 / BIG-PLUS®	CAT 40 / BIG-PLUS®	CAT 50
	TOOL CAPACITY	30	40	40	40	30
	MAXIMUM TOOL DIAMETER	3.1 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 mm	4.92 in / 125 mm
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	MAXIMUM TOOL WEIGHT	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	15.4 lb / 7 kg	33 lb / 15 kg
	TOOL-TO-TOOL ATC TIME	2 sec	2 sec	2 sec	2 sec	4 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	X= 1,469 in / 38 m	X= 1,469 in / 38 m	X= 1,469 in / 38 m	X= 1,260 in / 32 m	X= 1,260 in / 32 m
		Y= 1,469 in / 38 m	Y= 1,469 in / 38 m	Y= 1,469 in / 38 m	Y= 1,260 in / 32 m	Y= 1,260 in / 32 m
		Z= 1,260 in / 32 m	Z= 1,260 in / 32 m	Z= 1,260 in / 32 m	Z= 944 in / 24 m	Z= 944 in / 24 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,260 in / 32 m	1,260 in / 32 m	1,260 in / 32 m	944 in / 24 m	944 in / 24 m
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H) (WITH SIDE DOORS OPEN)	150.3 x 158.7 x 106.6 in / 3,816 x 4,030 x 2,708 mm	155.1 x 159.8 x 107.2 in / 3,939 x 4,049 x 2,724 mm	152.1 x 146.4 x 114.8 in / 3,864 x 3,719 x 2,917 mm	199.0 x 153.3 x 127.5 in / 5,055 x 3,844 x 3,240 mm	199.4 x 176.6 x 128.1 in / 5,066 x 4,485 x 3,254 mm
	MACHINE WEIGHT	10,384 lbs / 4,710 kg	11,111 lbs / 5,260 kg	14,904 lb / 6,760 kg	19,536 lb / 8,880 kg	20,680 lb / 9,380 kg