

VMX Performance with Direct Drive Spindles. >>>

Hurco has added the VMXD models of CNC machines, featuring an inline 15,000 rpm direct-drive spindle.

- Faster chip-to-chip time due to faster acceleration and deceleration.
- Less heat that results in enhanced repeatability.
- Improved surface finish due to the inline direct-drive configuration of the spindle.

VMX24Di



VMX30Di



VMX42Di



VMX50Di



VMX6030Di



SERIES OVERVIEW

- » 15K Direct-Drive Spindle.
- » Improved surface finish. Faster chip-to-chip time. Enhanced repeatability.
- » Generous Y-axis travel.
- » 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		VMX24Di	VMX30Di	VMX42Di	VMX50Di	VMX6030Di
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	66 x 30 in / 1,680 x 762 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	7 x .71 in / 7 x 18 mm
	MAXIMUM WEIGHT ON TABLE	3,300 lb / 1,497 kg	3,300 lb / 1,497 kg	3,850 lb / 1,746 kg	4,000 lb / 1,814 kg	4,000 lb / 1,814 kg
	SPINDLE NOSE TO TABLE	6.0 in / 152 mm	4.9 in / 125 mm	4.9 in / 125 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	60 in / 1,524 mm
	Y-AXIS	20 in / 508 mm	20 in / 508 mm	24 in / 610 mm	26 in / 660 mm	30 in / 762 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	15,000 rpm	15,000 rpm	15,000 rpm	15,000 rpm	15,000 rpm
	SPINDLE POWER	{30 MIN} 10 hp (7.5 kW) / 7.4 hp (5.5 kW) @ 1500 rpm	{30 MIN} 14.8 hp (11 kW) / 10 hp (7.5 kW) @ 1500 rpm	{30 MIN} 14.8 hp (11 kW) / 10 hp (7.5 kW) @ 1500 rpm	{15 MIN} 24.8 hp (18.5 kW) / 20 hp (15 kW) @ 1500 rpm	{30 MIN} 24.8 hp (18.5 kW) / 20 hp (15 kW) @ 1500 rpm
	SPINDLE TORQUE	{30 MIN} 35.2 ft. lbs (47.7 Nm) / 25.8 ft. lbs (35 Nm) @ 1500 rpm	{30 MIN} 51.7 ft. lbs (70 Nm) / 35.2 ft. lbs (47.7 Nm) @ 1500 rpm	{30 MIN} 51.7 ft. lbs (70 Nm) / 35.2 ft. lbs (47.7 Nm) @ 1500 rpm	{15 MIN} 86.8 ft. lbs (117.7 Nm) / 70 ft. lbs (95 Nm) @ 1500 rpm	{30 MIN} 86.8 ft. lbs (117.7 Nm) / 70 ft. lbs (95 Nm) @ 1500 rpm
ATC	TOOL TYPE	CAT 40 / BIG-PLUS®	CAT 40 / BIG-PLUS®	CAT 40 / BIG-PLUS®	CAT 40 / BIG-PLUS®	CAT 40 / BIG-PLUS®
	TOOL CAPACITY	30	40	40	40	40
	MAXIMUM TOOL DIAMETER	3.1 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 mm	3.1 in / 80 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	15.4 lb / 7 kg
	TOOL-TO-TOOL ATC TIME	1.5 sec	1.5 sec	1.5 sec	1.5 sec	1.5 sec
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	X= 1,771 in / 45 m	X= 1,771 in / 45 m	X= 1,771 in / 45 m	X= 1,771 in / 45 m	X= 1,771 in / 45 m
		Y= 1,771 in / 45 m	Y= 1,771 in / 45 m	Y= 1,771 in / 45 m	Y= 1,771 in / 45 m	Y= 1,771 in / 45 m
		Z= 1,575 in / 40 m	Z= 1,575 in / 40 m	Z= 1,575 in / 40 m	Z= 1,575 in / 40 m	Z= 1,575 in / 40 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,575 in / 40 m	1,575 in / 40 m	1,575 in / 40 m	1,575 in / 40 m	1,575 in / 40 m
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H) (WITH SIDE DOORS OPEN)	154.7 x 159.5 x 117.9 in / 3,930 x 4,051 x 2,994 mm	155.1 x 159.4 x 118.5 in / 3,940 x 4,049 x 3,011 mm	180.0 x 146.3 x 116.5 in / 4,572 x 3,717 x 2,958 mm	199.4 x 176.6 x 126.6 in / 5,066 x 4,485 x 3,216 mm	222.1 x 192.6 x 128.4 in / 5,641 x 4,893 x 3,261 mm
	MACHINE WEIGHT	11,222 lb / 5,090 kg	12,743 lb / 5,780 kg	15,292 lb / 6,936 kg	20,018 lb / 9,080 kg	26,087 lb / 11,833 kg