

Trunnion Table 5-Axis. >>

The efficient design of the Hurco 5-axis trunnion table machining centers (U Series) is a key benefit to consider—we use an integrated trunnion table instead of simply sticking a trunnion table on a 3-axis machining center and passing it off as a 5-axis CNC machine. The integrated trunnion table design provides more clearance in Z compared to the add-on table configuration.

BX40Ui



VM10Ui



VM10UHSi



VMX30Ui



VMX30UDi



VMX30UHSi



VMX42Ui



SERIES OVERVIEW

- » Integrated trunnion table design provides more clearance in Z-axis and ability to machine heavier parts compared to 3-axis mills with trunnion table added.
- » +30°/-110° A-axis motion delivers better undercut capability.*
- » Solid, one piece, cast-iron frame.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » 2 or 4 passage rotary unions for hydraulics and/or air.
- » 5-axis/5-sided software features – Tool Path Linearization, Tool Center Point Management, Transform Plane, 3D Tool Compensation, Tool Vector Input & Retract, Shortest Angular Traverse, 3D Import.
- » 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.

* The BX40Ui has -30° / + 110° motion in its B-axis.

**The VM10Ui has a single-screen 19" LCD touch-screen. Note: All the VM and VMX U-Series Machines are C-frame CNC machines. The BX 5-axis machine configuration is a double-column bridge machine. To learn about benefits of BX machine configuration, go to page 14.



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SPECIFICATIONS		VM10Ui	VM10UHSi	VMX30Ui	VMX30UDi	VMX30UHSi	VMX42Ui	BX40Ui
CAPACITY	TABLE SIZE	7.8 in / 198 mm	7.8 in / 198 mm	9.8 in / 248 mm	9.8 in / 248 mm	9.8 in / 248 mm	15.7 in / 399 mm	15.7 in / 398 mm
	MAXIMUM WEIGHT ON ROTARY / TRUNNION TABLE	330 lb / 150 kg	330 lb / 150 kg	440 lb / 200 kg	440 lb / 200 kg	440 lb / 200 kg	550 lb / 250 kg	550 lb / 250 kg
	SPINDLE NOSE TO TABLE MINIMUM / MAXIMUM	1.4 in (36 mm) / 20.4 in (519 mm)	1.4 in (36 mm) / 20.4 in (519 mm)	3.5 in (90 mm) / 24 in (610 mm)	3.5 in (90 mm) / 25 in (635 mm)	3.5 in (90 mm) / 24 in (610 mm)	3.5 in (90 mm) / 24 in (610 mm)	3.5 in (90 mm) / 25.7 in (653 mm)
	TABLE T-SLOTS	6 x .39 in / 6 x 10 mm	6 x .39 in / 6 x 10 mm	6 x .48 in / 6 x 12 mm	6 x .48 in / 6 x 12 mm	6 x .48 in / 6 x 12 mm	6 x .48 in / 6 x 12 mm	6 x 0.55 in / 6 x 14 mm
TRAVEL	X-AXIS	21 in / 533 mm	21 in / 533 mm	30 in / 762 mm	30 in / 762 mm	30 in / 762 mm	42 in / 1,067 mm	37.4 in / 950 mm
	Y-AXIS	16 in / 406 mm	16 in / 406 mm	20 in / 508 mm	20 in / 508 mm	20 in / 508 mm	24 in / 610 mm	21.6 in / 549 mm
	Z-AXIS	19 in / 483 mm	19 in / 483 mm	20.5 in / 520 mm	20.5 in / 520 mm	20.5 in / 520 mm	20.5 in / 520 mm	19.7 in / 500 mm
	A-AXIS	+30° / -110°	+30° / -110°	+30° / -110°	+30° / -110°	+30° / -110°	+30° / -110°	—
	B-AXIS	—	—	—	—	—	—	-30° / +110°
	C-AXIS	360°	360°	360°	360°	360°	360°	360°
SPINDLE	MAXIMUM SPINDLE SPEED / TOOL TYPE	12,000 rpm / CAT 40 / BIG-PLUS®	20,000 rpm / BT30	12,000 rpm / CAT 40	15,000 rpm / CAT 40	20,000 rpm / HSK63	12,000 rpm / CAT 40	20,000 rpm / HSK63A
	SPINDLE POWER	{30 MIN} 10 hp (7.5 kW) / 7.4 hp (5.5 kW) @ 1500 rpm	{30 MIN} 11.4 hp (8.5 kW) / 10 hp (7.5 kW) @ 600 rpm	{30 MIN} 14.8 hp (11 kW) / 10 hp (7.5 kW) @ 600 rpm	{30 MIN} 14.8 hp (11 kW) / 10 hp (7.5 kW) @ 1500 rpm	{30 MIN} 38.9 hp (29 kW) / 33.5 hp (25 kW) @ 1500 rpm	{30 MIN} 20 hp (15 kW) / 14.8 hp (11 kW) @ 720 rpm	{30 MIN} 38.9 hp (29 kW) / 33.5 hp (25 kW) @ 2870 rpm
	SPINDLE TORQUE	{30 MIN} 35.2 ft. lbs (47.7 Nm) / 25.8 ft. lbs (35 Nm) @ 1500 rpm	{30 MIN} 4.0 ft. lbs (5.4 Nm) / 3.5 ft. lbs (4.8 Nm) @ 600 rpm	{30 MIN} 129.1 ft. lbs (175.1 Nm) / 88 ft. lbs (199.4 Nm) @ 600 rpm	{30 MIN} 51.7 ft. lbs (70 Nm) / 35.2 ft. lbs (47.7 Nm) @ 1500 rpm	{30 MIN} 73.2 ft. lbs (99.3 Nm) / 61.4 ft. lbs (83.2 Nm) @ 1500 rpm	{30 MIN} 146.7 ft. lbs (198.9 Nm) / 86.1 ft. lbs (116.7 Nm) @ 720 rpm	{30 MIN} 73.2 ft. lbs (99.3 Nm) / 58.3 ft. lbs (79 Nm) @ 2790 rpm
ATC	TOOL CAPACITY	24	20	40	40	40	40	30
	MAXIMUM TOOL DIAMETER	3.1 in / 79 mm	3.15 in / 80 mm	3.0 in / 76 mm	3.0 in / 76 mm	3.0 in / 76mm	3.0 in / 76 mm	3.15 in / 80 mm
	MAXIMUM TOOL LENGTH	9.8 in / 250 mm	9.8 in / 250 mm	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
	TOOL-TO-TOOL ATC TIME	2 sec	1.5 sec	2 sec	2 sec	1.5 sec	2 sec	1.5 sec
	MAXIMUM TOOL WEIGHT	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	15.4 lb / 7 kg	15.4 lb / 7 kg
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	XYZ= 1,102 in / 28 m	XYZ= 1,102 in / 28 m	XY= 1,496 in / 38 m Z= 1,260 in / 32 m	XY= 1,771 in / 45 m Z= 1,575 in / 40 m	XY= 1,771 in / 45 m Z= 1,575 in / 40 m	XY= 1,496 in / 38 m Z= 1,260 in / 32 m	XYZ= 1,417 in / 36 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,102 in / 28 m	1,102 in / 28 m	1,260 in / 32 m	1,575 in / 40 m	1,575 in / 40 m	1,260 in / 32 m	1,417 in / 36 m
	A-AXIS MAXIMUM RPM	25 rpm	25 rpm	25 rpm	25 rpm	25 rpm	25 rpm	25 rpm
	B-AXIS MAXIMUM RPM	—	—	—	—	—	—	25 rpm
	C-AXIS MAXIMUM RPM	25 rpm	25 rpm	25 rpm	25 rpm	25 rpm	25 rpm	—
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H) (WITH SIDE DOORS OPEN)	128.5 x 133 x 106.9 in / 3,264 x 3,379 x 2,716mm	126.1 x 133.2 x 106.9 in / 3,203 x 3,384 x 2,716mm	155.1 x 159.8 x 113.3 in / 3,940 x 4,059 x 2,878 mm	155.1 x 159.9 x 124.1 in / 3,940 x 4,062 x 3,153 mm	155.1 x 159.6 x 115.3 in / 3,940 x 4,054 x 2,929 mm	181.1 x 146.4 x 122.5 in / 4,600 x 3,718 x 3,111 mm	164.8 x 145.9 x 113.6 in / 4,185.9 x 3,705.9 x 2,886 mm
	MACHINE WEIGHT	7,392 lb / 3,360 kg	6,825 lb / 3,102 kg	10,891 lb / 4,940 kg	13,068 lb / 5,940 kg	13,178 lb / 5,990 kg	15,752 lb / 7,145 kg	20,723 lb / 9,400 kg