

Universal 5-Axis Design Supports a Wide Range of Parts. >>

The B-axis of the universal design provides superb undercutting ability with a full 110° in both positive and negative directions and lets you use shorter tools when cutting smaller parts. On a traditional A-axis trunnion, the tools approach the part from behind the A-axis trunnion, which means you're forced to use longer tools for clearance. Since the B-axis trunnion of the VC/VCX machines tilts around the Y-axis, the tool is always approaching the part from a safe direction, which minimizes the possibility for interference.

VC500i



VC600i



VCX600i



SERIES OVERVIEW

- » Universal design results in a small footprint with large work cube and easy part access.
- » Hydraulic tilt/rotary axis braking, instead of pneumatic, provides more clamping power.
- » +110° / -110° B-axis motion delivers better undercut capability.
- » Optimal table height.
- » 2 or 4 passage rotary unions for hydraulics and/or air.
- » Simultaneous 5-Axis (not just 3+2).
- » One-piece, solid, cast-iron machine base.
- » The integrated trunnion table with a lower mounted B-axis table surface provides a larger work envelope.
- » 12,000 rpm direct drive spindle.
- » Best-In-Class Yaskawa Sigma V Drives.
- » LED lighting shines brighter and saves energy.
- » WinMax® Mill Conversational and NC Programming.
- » 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.
- » WinMax® Mill Conversational and Industry Standard NC programming.
- » Patented Motion Control System (UltiMotion®) is standard, not an option.

*VC models have one 19" touch-screen control console standard.



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SPECIFICATIONS		VC500i	VC600i	VCX600i
CAPACITY	TABLE SIZE	19.7 in / 500 mm	23.6 in / 600 mm	23.6 in / 600 mm
	MAXIMUM WEIGHT ON ROTARY / TRUNNION TABLE	550 lb / 250 kg	770 lb / 350 kg	770 lb / 350 kg
	SPINDLE NOSE TO TABLE MINIMUM / MAXIMUM	5.9 in (150 mm) / 21.7 in (550 mm)	5.9 in (150 mm) / 25.6 in (650 mm)	5.9 in (150 mm) / 25.6 in (650 mm)
	TABLE T-SLOTS	3.9 in / 100 mm	3.9 in / 100 mm	3.9 in / 100 mm
TRAVEL	X-AXIS	20.5 in / 520 mm	32.3 in / 820 mm	32.3 in / 820
	Y-AXIS	17.7 in / 450 mm	21.7 in / 550 mm	21.7 in / 550 mm
	Z-AXIS	15.8 in / 400 mm	19.7 in / 500 mm	19.7 in / 500 mm
	B-AXIS	+/-110°	+/-110°	+/-110°
	C-AXIS	360°	360°	360°
SPINDLE	MAX. SPINDLE SPEED / TOOL TYPE	12,000 rpm / CAT 40	12,000 rpm / CAT 40	12,000 rpm / CAT 40
	SPINDLE POWER	(30 MIN) 15.4 hp (11.5 kW) / 10 hp (7.5 kW) @ 1500 rpm	(30 MIN) 20.1 hp (15 kW) / 14.8 hp (11 kW) @ 1500 rpm	(30 MIN) 21.4 hp (16 kW) / 16.8 hp (12.5 kW) @ 1504 rpm
	SPINDLE TORQUE	(30 MIN) 54 ft. lbs (73.2 Nm) / 35.2 ft. lbs (47.7 Nm) @ 1500 rpm	(30 MIN) 69.8 ft. lbs (94.6 Nm) / 51.2 ft. lbs (69.4 Nm) @ 1500 rpm	(30 MIN) 74.9 ft. lbs (101.6 Nm) / 58.5 lb (79.4 Nm) @ 1504 rpm
ATC	TOOL CAPACITY	40	40	40
	MAXIMUM TOOL DIAMETER	3.0 in / 80 mm	3.0 in / 80 mm	3.0 in / 80 mm
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm	11.8 in / 300 mm	11.8 in / 300 mm
	TOOL-TO-TOOL ATC TIME	2.5 sec	2.5 sec	2 sec
	MAXIMUM TOOL WEIGHT	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	XYZ = 1,417 in / 36 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,102 in / 28 m	1,102 in / 28 m	1,417 in / 36 m
	B-AXIS MAXIMUM RPM	25 rpm	25 rpm	25 rpm
	C-AXIS MAXIMUM RPM	25 rpm	25 rpm	25 rpm
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H) (WITH SIDE DOORS OPEN)	162.9 x 141.9 x 116.3 in / 4,950 x 3,604 x 2,955 mm	176.7 x 182.6 x 126.7 in / 4,487 x 4,639 x 3,217 mm	176.5 x 182.5 x 126.7 in / 4,482 x 4,635 x 3,217 mm
	MACHINE WEIGHT	15,807 lb / 7,170 kg	21,826 lb / 9,900 kg	22,046 lb / 10,000 kg