

## Maximum 5-Axis Versatility. >>

The SRT 5-axis CNC machines offer multiple advantages, starting with the machine's design configuration that utilizes a swivel head and a C-axis rotary torque table that is embedded in the machine table and flush with the surface. The generous size of the machine table provides maximum versatility because you can use the extra table space for secondary operations.

The SW machines utilize the swivel head spindle but have a traditional machine table, allowing you to add an A-axis rotary table that is sized to fit your needs.

### VMX42SRTi



### VMX42SWi



### VMX42HSRTi



### VMX60SRTi



### VMX60SWi



### VMX84SWi



## SERIES OVERVIEW

### SRT Models Only

- » Direct drive, embedded, C-axis, rotary torque table.
  - » Embedded rotary table design increases working surface of machine table to support secondary operations, plate work, and/or 3-axis work.
  - » Unlimited angular movement of C-axis reduces cycle time.
- » 12K Swivel-Head Spindle.
- » Thick machine table supports heavier parts.
- » 2 or 4 passage rotary unions for hydraulics and/or air.
- » 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.
- » 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		VMX42SRTi	VMX42SWi	VMX42HSRTi	VMX60SRTi	VMX60SWi	VMX84SWi
CAPACITY	TABLE SIZE	50 x 24 in / 1,270 x 610 mm	50 x 24 in / 1,270 x 610 mm	50 x 24 in / 1,270 x 610 mm	66 x 26 in / 1,676 x 660 mm	66 x 26 in / 1,676 x 660 mm	86 x 34 in / 2,184 x 865 mm
	ROTARY TABLE DIAMETER	23.6 in / 599 mm	—	23.6 in / 599 mm	23.6 in / 599 mm	—	—
	MAXIMUM WEIGHT ON MACHINE TABLE	3,000 lb / 1,360 kg	3,850 lb / 1,750 kg	3,000 lb / 1,360 kg	3,000 lb / 1,360 kg	4,410 lb / 2,000 kg	5,000 lb / 2,268 kg
	MAXIMUM WEIGHT ON ROTARY / TRUNNION TABLE	1,100 lb / 500 kg	—	1,100 lb / 500 kg	1,100 lb / 500 kg	—	—
	SPINDLE NOSE TO TABLE MINIMUM / MAXIMUM	.4 in (10 mm) / 24.4 in (620 mm)	6 in (152 mm) / 30 in (762 mm)	.1 in (25 mm) / 24.1 in (612 mm)	.5 in (13 mm) / 24.5 in (622 mm)	4 in (102 mm) / 28 in (711 mm)	5 in (127 mm) / 35 in (889 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	5 x .71 in / 5 x 18 mm	6 x .71 in / 6 x 18 mm	7 x .71 in / 7 x 18 mm	
TRAVEL	X-AXIS	42 in / 1,067 mm	42.01 in / 1,067 mm	42.01 in / 1,067 mm	60 in / 1,524 mm	60 in / 1,524 mm	84 in / 2,134 mm
	Y-AXIS	24 in / 610 mm	24.02 in / 610 mm	24.02 in / 610 mm	26 in / 660 mm	26 in / 660 mm	34 in / 865 mm
	Z-AXIS	24 in / 610 mm	24.02 in / 610 mm	24.02 in / 610 mm	24 in / 610 mm	24 in / 610 mm	30 in / 762 mm
	B-AXIS	+/-92°	+/-92°	+/-92°	+/-92°	+/-92°	+/-92°
	C-AXIS	360°	—	360°	360°	—	—
SPINDLE	MAXIMUM SPINDLE SPEED / TOOL TYPE	12,000 rpm / CAT, BT, DIN 40	12,000 rpm / CAT, BT, DIN 40	24,000 rpm / HSK63	12,000 rpm / CAT, BT, DIN 40	12,000 rpm / CAT, BT, DIN 40	12,000 rpm / CAT, BT, DIN 40
	SPINDLE POWER (30 MIN / CONTINUOUS)	40 hp (30 kW) / 32 hp (24 kW) @ 2900 rpm	40 hp (30 kW) / 32 hp (24 kW) @ 2900 rpm	49.6 hp (37 kW) / 37.5 hp (28 kW) @ 4260 rpm	40 hp (30 kW) / 32 hp (24 kW) @ 2900 rpm	40 hp (30 kW) / 32 hp (24 kW) @ 2900 rpm	40 hp (30 kW) / 32 hp (24 kW) @ 2900 rpm
	SPINDLE TORQUE (30 MIN / CONTINUOUS)	72.9 ft. lbs (98.9 Nm) / 58.3 lb (79 Nm) @ 2900 rpm	72.9 ft. lbs (98.9 Nm) / 58.3 lb (79 Nm) @ 2900 rpm	61.2 ft. lbs (82.9 Nm) / 45.1 ft. lbs (61.1 Nm) @ 4260 rpm	72.9 ft. lbs (98.9 Nm) / 58.3 lb (79 Nm) @ 2900 rpm	72.9 ft. lbs (98.9 Nm) / 58.3 lb (79 Nm) @ 2900 rpm	72.9 ft. lbs (98.9 Nm) / 58.3 lb (79 Nm) @ 2900 rpm
ATC	TOOL CAPACITY	40	40	40	40	40	40
	MAXIMUM TOOL DIAMETER	3.0 in / 76 mm	3.0 in / 76 mm	3.0 in / 76 mm	2.95 in / 75 mm	3.0 in / 76 mm	3.0 in / 76 mm
	MAXIMUM TOOL LENGTH	9.8 in / 249 mm	9.8 in / 249 mm	9.8 in / 249 mm	9.8 in / 249 mm	9.8 in / 249 mm	11.8 in / 300 mm
	TOOL-TO-TOOL ATC TIME	4 sec	2 sec	2 sec	4 sec	2 sec	2.5 sec
	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	15.4 lb / 7 kg
FEEDRATE	RAPID TRAVERSE XYZ PER MINUTE	XY=1,496 in / 38 m Z=1,260 in / 32 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=1,259 in / 32 m Z=945 in / 24 m	XY=1,259 in / 32 m Z=945 in / 24 m	XY=709 in / 18 m Z=530 in / 13.5 m
	PROGRAMMABLE FEEDRATE / MINUTE	1,260 in / 32 m	1,260 in / 32 m	1,575 in / 40 m	945 in / 24 m	945 in / 24 m	530 in / 13.5 m
	B-AXIS MAXIMUM RPM	50 rpm	50 rpm	50 rpm	90 rpm	50 rpm	33.3 rpm
	C-AXIS MAXIMUM RPM	100 rpm	—	100 rpm	100 rpm	—	—
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H)	195.0 x 148.5 x 125.5 in / 4,954 x 3,772 x 3,187 mm	181.0 x 146.4 x 124.0 in / 4,598 x 3,718 x 3,149 mm	195.0 x 148.5 x 125.2 in / 4,954 x 3,772 x 3,181 mm	222.9 x 154.4 x 129.8 in / 5,662 x 3,921 x 3,298 mm	220.7 x 154.7 x 133.0 in / 5,606 x 3,930 x 3,378 mm	297.5 x 177.3 x 133.1 in / 7,557 x 4,502 x 3,382 mm
	MACHINE WEIGHT	18,520 lb / 8,400 kg	15,686 lb / 7,130 kg	18,520 lb / 8,400 kg	23,980 lb / 10,900 kg	21,780 lb / 9,900 kg	36,806 lb / 16,730 kg