

VERTICAL MACHINING CENTERS

50 TAPER | XP SERIES

The “XP” stands for “extra power” since these CNC machines are built with a 50 taper spindle and linear cross roller guides for rigidity, direct-coupled ballscrews for faster response, and dual wound spindle motors for faster acceleration/deceleration and more torque. Standard with up to 35 HP for maximum metal removal, the XP Series features a heavy duty belt drive spindle and also includes more standard features, such as a coolant ring and washdown system, lift-up chip conveyor, and height adjustment on the control.



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STANDARD FEATURES

- ✓ Heavily ribbed one piece fine grain cast iron casting
- ✓ Fully enclosed machine guard with side doors
- ✓ 45 mm roller linear way technology
- ✓ Precision ground ballscrews supported at both ends
- ✓ Precision ground table surface
- ✓ Telescopic metal way covers
- ✓ 30 pocket double arm ATC
- ✓ BIG-PLUS[®] ISO No. 50
- ✓ Automatic positive displacement lubrication system
- ✓ High torque AC digital servo drives
- ✓ High torque closed loop vector spindle drive system
- ✓ Dual work lights
- ✓ LCD hour meter
- ✓ Spindle taper blow-out and tool release
- ✓ Spare “M” function with CNC “wait” channel
- ✓ Programmable on/off flood coolant system
- ✓ Rigid tap
- ✓ Edit key lockout switch
- ✓ Spindle load meter
- ✓ Feedrate and spindle speed overrides
- ✓ Spindle air purge
- ✓ End of cycle light
- ✓ Chip conveyor and washdown chip removal system
- ✓ Remote handwheel
- ✓ Air gun
- ✓ Coolant wash down gun
- ✓ One year warranty
- ✓ 9000 Series Control

OPTIONS

- Coolant through spindle system
- Programmable spray mist coolant
- Tool and part probes
- 4th axis options
- Auxiliary industrial grade keyboard
- Electronic spindle chiller
- BT style tooling
- ChipBoss™ Trochoidal Milling Software
- Milltronics Shop View
- Digital Setup Assistant

SPECIFICATIONS	VM5025XP	VM6030XP	VM8434XP
TABLE			
TABLE WORKING SURFACE	54 x 25 in (1,372 x 635 mm)	66 x 30 in (1,680 x 762 mm)	86 x 34 in (2,184 x 865 mm)
TABLE T-SLOTS	.71 in (18 mm)	.71 in (18 mm)	.71 in (18 mm)
MAXIMUM WEIGHT ON TABLE	3,000 lbs (1,360 kg)	4,190 lbs (1,900 kg)	4,750 lbs (2,150 kg)
TRAVELS			
X-AXIS	50 in (1,270 mm)	60 in (1,524 mm)	84 in (2,134 mm)
Y-AXIS	25 in (635 mm)	30 in (762 mm)	34 in (864 mm)
Z-AXIS	24 in (610 mm)	24 in (610 mm)	30 in (762 mm)
SPINDLE MOTOR			
SPINDLE POWER (MAXIMUM)	35/25 HP (26/18 kW)	35/25 HP (26/18 kW)	35/25 HP (26/18 kW)
SPINDLE TORQUE (MAXIMUM)	365 ft-lbs (495 Nm)	365 ft-lbs (495 Nm)	365 ft-lbs (495 Nm)
SPINDLE			
SPINDLE TAPER	BIG-PLUS® ISO. No. 50	BIG-PLUS® ISO. No. 50	BIG-PLUS® ISO. No. 50
SPINDLE NOSE TO TABLE	6-30 in (152-762 mm)	4-28 in (101-710 mm)	4.5-34.5 in (114-876 mm)
SPINDLE SPEED (MAXIMUM)	8,000 RPM	8,000 RPM	8,000 RPM
TOOL CHANGER			
TOOL CAPACITY / TYPE	30 / DOUBLE ARM	30 / DOUBLE ARM	32 / DOUBLE ARM
TOOL SHANK	CT50	CT50	CT50
RETENTION KNOB	MAS 60	MAS 60	MAS 60
MAXIMUM TOOL DIAMETER	4.88 in (124 mm)	4.88 in (124 mm)	4.88 in (124 mm)
MAXIMUM TOOL LENGTH	11.8 in (300 mm)	11.8 in (300 mm)	11.8 in (300 mm)
MAXIMUM TOOL WEIGHT	33 lbs (15 kg)	33 lbs (15 kg)	33 lbs (15 kg)
FURTHER DETAILS			
X/Y/Z RAPID TRAVERSE RATE	1,000/787 IPM (25.4/20 m/min)	1,000/787 IPM (25.4/20 m/min)	709/530 IPM (18/13.5 m/min)
MACHINE HEIGHT	121.8 in (3,582 mm)	128 in (3,251 mm)	146.4 in (3,718 mm)
FOOTPRINT: MAXIMUM SERVICE SPACE - (WIDTH x DEPTH)	198.7 x 141 in (5,048 x 3,582 mm)	220.6 x 149.4 in (5,602 x 3,794 mm)	411.7 x 165.4 in (10,458 x 4,202 mm)
FOOTPRINT: NOMINAL OPERATING - (WIDTH x DEPTH)	127.8 x 125.7 in (3,245 x 3,193 mm) 165.2 in (4,195 mm) with conveyor	149.7 x 149.4 in (3,802 x 3,794 mm) 184.4 in (4,685 mm) with conveyor	203.1 x 165.4 in (5,160 x 4,202 mm) 230.1 in (5,845 mm) with conveyor
MACHINE WEIGHT	20,100 lbs (9,136 kg)	22,267 lbs (10,100 kg)	37,260 lbs (19,936 kg)
POWER REQUIRED	41 KVA/102 Amps	42 KVA/105 Amps	43 KVA/107 Amps
VOLTAGE REQUIRED	208-240 Volts/3 Phase	208-240 Volts/3 Phase	208-240 Volts/3 Phase