

## THE “IL” STANDS FOR “INLINE SPINDLE”,

since this series of vertical machining centers is equipped with a 40-taper, BIG-PLUS®, dual-contact, inline spindle. Inline spindles run smooth and quiet with minimal heat and reduced vibration, providing better surface finish and longer tool life. The 12,000-RPM, inline spindles have dual-wound spindle motors for faster acceleration/deceleration and more torque. The IL machines also have bigger castings, faster rapids, and more standard features.

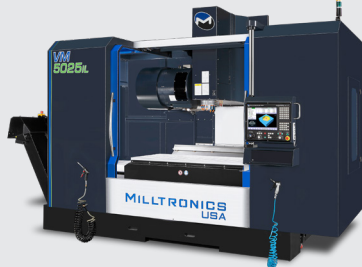
**VM3020IL**



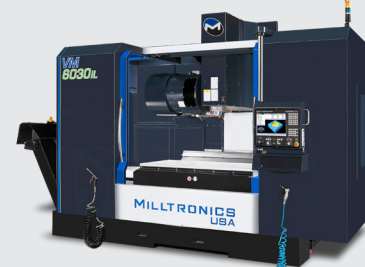
**VM4224IL**



**VM5025IL**



**VM6030IL**



## STANDARD FEATURES

- Heavily ribbed one piece fine grain cast iron casting
- Fully enclosed machine guard with side doors
- 35/45 mm roller linear way technology
- Precision ground ballscrews supported at both ends
- Precision ground table surface
- Telescopic metal way covers
- 30 pocket arm type ATC
- BIG-PLUS® ISO No. 40
- 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 button
- Single 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 chip removal system
- Remote handwheel
- Air gun
- Coolant wash down gun
- One year warranty
- INSPIRE v11 Software\*

\* Some machines may ship with 9000 Series Control. Specifications subject to change without notice. Some machines shown with options.



**SCAN HERE** to learn more about the IL Series and other Milltronics machines.



**MILLTRONICS®**  
Beyond Expectations.

# IL SERIES

SPECIFICATIONS	VM3020IL	VM4224IL	VM5025IL	VM6030IL
<b>TABLE</b>				
TABLE WORKING SURFACE	34 x 20 in (864 x 508 mm)	50 x 24 in (1,270 x 610 mm)	54 x 25 in (1,372 x 635 mm)	66 x 30 in (1,680 x 762 mm)
TABLE T-SLOTS	.71 in (18 mm)	.71 in (18 mm)	.71 in (18 mm)	.71 in (18 mm)
MAXIMUM WEIGHT ON TABLE	3,140 lbs (1,420 kg)	3,660 lbs (1,660 kg)	4,190 lbs (1,900 kg)	4,190 lbs (1,900 kg)
<b>TRAVELS</b>				
X-AXIS	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)	24 in (610 mm)	25 in (635 mm)	30 in (762 mm)
Z-AXIS	22 in (559 mm)	24 in (610 mm)	24 in (610 mm)	24 in (610 mm)
<b>SPINDLE MOTOR</b>				
SPINDLE POWER (MAXIMUM)	32/10 HP (24/7.5 kW)	32/10 HP (24/7.5 kW)	35/20 HP (26/15 kW)	35/20 HP (26/15 kW)
SPINDLE TORQUE (MAXIMUM)	89 ft.-lbs (121 Nm)	89 ft.-lbs (121 Nm)	124 ft.-lbs (168 Nm)	124 ft.-lbs (168 Nm)
<b>SPINDLE</b>				
SPINDLE TAPER	BIG-PLUS® ISO. No. 40	BIG-PLUS® ISO. No. 40	BIG-PLUS® ISO. No. 40	BIG-PLUS® ISO. No. 40
SPINDLE NOSE TO TABLE	6-28 in (152-712 mm)	6-30 in (152-762 mm)	4-28 in (101.5-711.5 mm)	4-28 in (101.5-711.5 mm)
SPINDLE SPEED (MAXIMUM)	12,000 RPM	12,000 RPM	12,000 RPM	12,000 RPM
<b>TOOL CHANGER</b>				
TOOL CAPACITY / TYPE	30 / DOUBLE ARM	30 / DOUBLE ARM	30 / DOUBLE ARM	30 / DOUBLE ARM
TOOL SHANK	CT40	CT40	CT40	CT40
RETENTION KNOB	MAS 60	MAS 60	MAS 60	MAS 60
MAXIMUM TOOL DIAMETER	3.15 in (80 mm)	3.15 in (80 mm)	3.15 in (80 mm)	3.15 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)
MAXIMUM TOOL WEIGHT	15.4 lbs (7 kg)	15.4 lbs (7 kg)	15.4 lbs (7 kg)	15.4 lbs (7 kg)
<b>FURTHER DETAILS</b>				
X/Y/Z RAPID TRAVERSE RATE	1,200/1,000 IPM (30.5/25.4 m/min)	1,200/1,000 IPM (30/25 m/min)	1,000/787 IPM (25.4/20 m/min)	1,000/787 IPM (25.4/20 m/min)
MACHINE HEIGHT	119 in (3,025 mm)	121 in (3,060 mm)	122 in (3,100 mm)	126.4 in (3,210 mm)
FOOTPRINT: MAXIMUM SERVICE SPACE – (WIDTH x DEPTH)	161 x 146.8 in (4,089 x 3,729 mm)	179.8 x 133.8 in (4,566 x 3,399 mm)	198.9 x 165.6 in (5,052 x 4,207 mm)	220.6 x 152 in (5,602 x 3,864 mm)
FOOTPRINT: NOMINAL OPERATING – (WIDTH x DEPTH)	85.8 x 124.1 in (2,180 x 3,152 mm) 123.3 in (3,131 mm) with conveyor	110.2 x 133.8 in (2,798 x 3,399 mm) 138.1 in (3,508 mm) with conveyor	128 x 143 in (3,252 x 3,630 mm) 173.3 in (4,403 mm) with conveyor	149.8 x 149.4 in (3,804 x 3,794 mm) 184.4 in (4,685 mm) with conveyor
MACHINE WEIGHT	10,700 lbs (4,850 kg)	14,775 lbs (6,702 kg)	17,900 lbs (8,136 kg)	21,800 lbs (9,900 kg)
POWER REQUIRED	26 KVA/31 Amps	26 KVA/31 Amps	36 KVA/44 Amps	36 KVA/44 Amps
VOLTAGE REQUIRED	480 Volts/3 Phase	480 Volts/3 Phase	480 Volts/3 Phase	480 Volts/3 Phase