

VERTICAL MACHINING CENTERS

40 TAPER INLINE | IL SERIES

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 10,000 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.



ONLINE PRICING AT
MILLTRONICS.COM/
GETPRICING

INCLUDED AT NO EXTRA COST

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
- ✓ 9000 Series Control

OPTIONS

- Coolant through spindle system
- Work offset probing
- 4th axis options
- 5th axis options
- Auxiliary industrial grade keyboard
- Electronic spindle chiller
- BT style tooling
- 40 pocket ATC (available on the VM4222IL, VM5025IL, and VM6030IL)
- 15,000 RPM spindle
- Thermal head mapping
- ChipBoss™ Trochoidal Milling Software
- Milltronics Shop View
- Digital Setup Assistant
- Programmable spray-mist and air-blast

SPECIFICATIONS	VM3018IL	VM4222IL	VM5025IL	VM6030IL
TABLE				
TABLE WORKING SURFACE	34 x 18 in (864 x 457 mm)	46 x 22 in (1,168 x 559 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)
TRAVELS				
X-AXIS	30 in (762 mm)	42 in (1,067 mm)	50 in (1,270 mm)	60 in (1,524 mm)
Y-AXIS	18 in (457 mm)	22 in (559 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)
SPINDLE MOTOR				
SPINDLE POWER (MAXIMUM)	24/15 HP (18/11 kW)	24/15 HP (18/11 kW)	35/25 HP (26/18 kW)	35/25 HP (26/18 kW)
SPINDLE TORQUE (MAXIMUM)	84 ft-lbs (114 Nm)	84 ft-lbs (114 Nm)	122 ft-lbs (165 Nm)	122 ft-lbs (165 Nm)
SPINDLE				
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)	5-29 in (125-735 mm)	6-30 in (152-762 mm)	4-28 in (100-710 mm)
SPINDLE SPEED (MAXIMUM)	10,000 RPM	10,000 RPM	10,000 RPM	10,000 RPM
TOOL CHANGER				
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)
FURTHER DETAILS				
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	118.5 in (3,009 mm)	120 in (3,048 mm)	126.6 in (3,215 mm)	127.6 in (3,241 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	27 KVA/67 Amps	28 KVA/70 Amps	33 KVA/81 Amps	34 KVA/84 Amps
VOLTAGE REQUIRED	208-240 Volts/3 Phase	208-240 Volts/3 Phase	208-240 Volts/3 Phase	208-240 Volts/3 Phase