

GENMILL 5X-8

5-Axis High Speed VMC with built-in 8" Trunnion

Features

- + Glass Scale Feedback on All 5-Axis
- + Roller Bearing Ways (twice as rigid as ball ways)
- + 24-Tool Double Arm ATC
- + 1,417 Inch per Minute Rapid Rates
- + 12,000 RPM Double-Ground "Big-Plus" Spindle
- + Spindle Chiller for Consistent Thermal Stability
- + 300-PSI Through-the-Tool Coolant System
- + Available as 4 + 1 or 5-Axis simultaneous



Axis Travel

Rotary Table

Spindle

Axis Feeds

Tool Changer

Specifications

X-Travel	12.6" 320mm
Y-Travel	17.7" 450mm
Z-Travel	14.9" 380mm
Spindle Nose to Rotary Table Surface	2.11" - 15.62" 60 - 375mm
Spindle Center to Z-axis way covers	17.71" 450mm (throat dimension)
Platter Diameter	Ø 8.34" Ø 210mm
Center Bore Diameter	Ø 40 H7
T-slot width / Number	12 H7 / 4, Hardened & ground table & T-slots
Guide block width	18mm
Maximum Work table Load	165 lbs 75kgs for rated accuracy
Maximum Part Swing	Ø12.5"
Spindle Motor - S1/S2/S3	7.5/11/15kw
Spindle Speed - Mitsubishi Inline Direct-Drive	20-HP S3 power (15-HP 30-min. duty rated)
Spindle Torque	12,000 rpm (15,000 & 24,000 rpm optional)
Tool Type	50 ft-lb @ 1,500 rpm
Spindle Taper Material / Hardness	CAT #40 Taper, BT #40 optional
Retention System / Holding Capability	SCM415 / HRC 58-62
Spindle Runout	Bellville Spring Stack 1650-1760 lbs
Spindle Bearings - Front	≤ 0.000040" T.I.R
Spindle Bearings - Rear	95mm NSK 70BNR, 2-P4 class-7 bearings
Rapid Traverse - X, Y	1,417 ipm 36m/minute
Rapid Traverse - Z	944 ipm 24m/minute
Cutting Feedrate	0.04 - 394 ipm 10,000 mm/min
Axis Drive Motor Power - X, Y	2.7-HP (2.0kw nominal)
Axis Drive Motor Power - Z	4.0-HP (3.0kw nominal)
Ballscrews - X, Y, Z	32mm 12mm pitch
Least Input Command Increment	0.0001" / 0.000040" 0.001mm / (40-millionths in metric)
Tool Capacity (24+1)	24-Tool Twin-Arm, Hi-Speed Tool Changer
Tool Shank	CAT#40 Taper BT#40 optional
Tool Change Time	1.7-sec. tool-to-tool, Inverter Motor Driven
Maximum Tool Diameter / w/adjacent tool	5.90" / 3.15" 150mm / 80mm
Maximum Tool Length (from gage line)	11.81" 300mm
Maximum Tool Weight	15 lbs. 7kg
Tool Selection / Tool Access	Random access Bi-directional shortest path
Retention Knob (pull stud)	C40-4502H (coolant), Japanese Standard
Air Service Requirements	85 psi @ 14-scfm 20 Kg/cm ²
Connected Load Electrical Requirements	50 Amps 220vac ±5%, 60-Hz
Coolant Capacity	68-gallons, 256 liters
Floor space requirements (W x D x H)	87" x 81" x 113" 221x206x288cm (add 48" for conveyor)
Shipping dimensions (W x D x H)	97" x 91" x 101" 246x229x256cm
Machine Weight	11,245 pounds 5,100 kg
Warranty - 1-year machine warranty	3-year Mitsubishi control, motors, & drive warranty