

Practical Horizontal with Contouring 4th Axis for Increased Productivity and Chip Control. >>

The HBMX Series is comprised of 4-axis boring mills with a small footprint and large work envelope. HBMX machines are heavy and rigid and feature 2-speed geared-head spindles, hardened box ways, and a programmable quill.

HBMX55i



HBMX80i



HBMX120i



SERIES OVERVIEW

- » Heavily ribbed fine-grade cast iron frame optimized with Finite Element Analysis (FEA).
- » Box ways for X, Y, Z axes.
- » 2-speed geared-head spindle design.
- » Direct drive for X, Y, Z axes.
- » Standard 2,500-rpm spindle.
- » Programmable W-axis quill.
- » Electric swing-arm 60-station ATC – random access.
- » Metal telescopic way covers.
- » Double-nut ballscrews (standard).
- » Lift-up chip conveyor (standard).
- » Spindle thermal chiller (standard).
- » Automatic central lubrication system (standard).
- » Power cabinet heat exchanger (standard).
- » Flood coolant system (standard).
- » 218 psi Through Spindle Coolant (standard).
- » Contouring 4th axis rotary table (not just positional).
- » Oil skimmer assembly.
- » Modular one-piece ITX control rack.
- » Rigid tapping.
- » 2.7GHz Dual-Core Processor.
- » 4 GB RAM Memory.
- » 128-GB Solid State Hard Drive.



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SPECIFICATIONS

HBMX55i

HBMX80i

HBMX120i

CAPACITY	TABLE SIZE	44.1 x 49.2 in / 1,120 x 1,250 mm	56.7 x 63 in / 1,440 x 1,600 mm	56.7 x 63 in / 1,440 x 1,600 mm
	TABLE T-SLOTS	7 x 0.9 in / 177 x 22 mm	9 x 0.9 in / 228 x 22 mm	9 x 0.9 in / 9 x 24 mm
	MAXIMUM WEIGHT ON TABLE	8,819 lb / 4,000 kg	13,889 lb / 6,299 kg	13,889 lb / 6,299 kg
	SPINDLE NOSE TO PALLET CENTER	28.3 (720 mm) / 71.7 in (1,820 mm)	22.8 in (579 mm) / 89.8 in (2,280 mm)	5.1 in (129 mm) / 89.8 in (2,280 mm)
TRAVEL	X-AXIS	55.1 in / 1,400 mm	78.7 in / 2,000 mm	118.1 in / 3,000 mm
	Y-AXIS	54.7 in / 1,389 mm	70.1 in / 1,780 mm	70.1 in / 1,780 mm
	Z-AXIS	43.3 in / 1,099 mm	64.9 in / 1,650 mm	64.9 in / 1,650 mm
	B-AXIS	360° Continuous	360° Continuous	360° Continuous
	W-AXIS	4.3 in (109 mm) diameter / 19.7 in (500 mm) stroke	4.3 in (109 mm) diameter / 19.7 in (500 mm) stroke	19.7 in / 500 mm
SPINDLE	MAXIMUM SPINDLE SPEED	8-454 rpm low gear / 8-2,500 rpm high gear	8-454 rpm low gear / 8-2,500 rpm high gear	8-454 rpm low gear / 8-2,500 rpm high gear
	SPINDLE POWER (PEAK)	(10 MIN) 40.2 hp (30 kW) / 29.5 (22 kW) @ 695.5 rpm	(10 MIN) 40.2 hp (30 kW) / 29.5 (22 kW) @ 695.5 rpm	(10 MIN) 40.2 hp (30 kW) / 29.5 (22 kW) @ 695.5 rpm
	SPINDLE TORQUE (PEAK)	(10 MIN-HIGH GEAR) 303.9 ft. lbs (412 Nm) @ 695.5 rpm (CONT. LOW GEAR) 1,106.3 ft. lbs (1,500 Nm) @ 695.5 rpm (CONT. HIGH GEAR) 222.8 ft. lbs (302) Nm @ 695.5 rpm	(10 MIN-HIGH GEAR) 303.9 ft. lbs (412 Nm) @ 695.5 rpm (CONT. LOW GEAR) 1,106.3 ft. lbs (1,500 Nm) @ 695.5 rpm (CONT. HIGH GEAR) 22.8 ft. lbs (302) Nm @ 695.5 rpm	(10 MIN-HIGH GEAR) 303.9 ft. lbs (412 Nm) @ 695.5 rpm (CONT. LOW GEAR) 1,106.3 ft. lbs (1,500 Nm) @ 695.5 rpm (CONT. HIGH GEAR) 22.8 ft. lbs (302) Nm @ 695.5 rpm
	TOOL TYPE	CAT 50	CAT 50	CAT 50
ATC	TOOL CAPACITY	60	60 (90 Optional)	60 (90 Optional)
	MAXIMUM TOOL DIAMETER	4.7 in / 120 mm	4.7 in / 120 mm	4.7 in / 120 m
	MAXIMUM TOOL LENGTH	11.8 in / 300 mm	15.7 in / 400 mm	15.7 in / 400 mm
	MAXIMUM TOOL WEIGHT	55.1 lb / 25 kg	55.1 lb / 25 kg	55.1 lb / 25 kg
	TOOL-TO-TOOL ATC TIME	15 sec	15 sec	15 sec
FEEDRATE	RAPID TRAVERSE XYZ / W PER MINUTE	XYZ = 393.7 in / 10 m W = 157.5 in / 4 m	XYZ = 393.7 in / 10 m W = 157.5 in / 4 m	XYZ = 393.7 in / 10 m W = 157.5 in / 4 m
	PROGRAMMABLE FEEDRATE / MINUTE	393.7 in / 10 m	393.7 in / 10 m	393.7 in / 10 m
	B-AXIS MAXIMUM RPM	1 rpm	1 rpm	1 rpm
	W-AXIS MAXIMUM RAPIDS	157.5 in / 4 m	157.5 in / 4 m	157.5 in / 4 m
SIZE	MAXIMUM OPERATING FLOOR SPACE (W x D x H) (WITH SIDE DOORS OPEN)	218.4 x 207.3 x 132.7 in / 5,598 x 5,272 x 3,370 mm	212.97 x 254.22 x 148.23 in / 6,711 x 5,781 x 3,765 mm	264.7 x 287.6 x 150.0 in / 6,725 x 7,304 x 3,800 mm
	MACHINE WEIGHT	42,328 lb / 19,200 kg	51,808 lb / 23,500 kg	56,218 lb / 25,500 kg