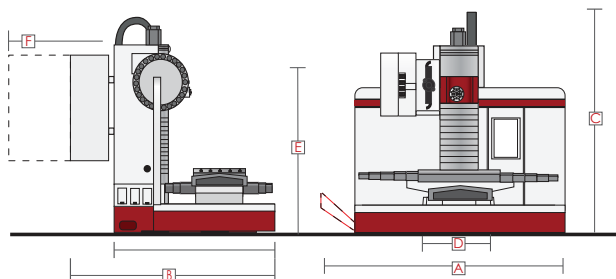


HB SERIES SPECIFICATIONS		HB-70	HB-120	HB-160
MACHINE CAPACITY	X Travel	70"	120"	160"
	Y Travel	55" (72")	55" (72")	55" (72")
	Z Travel	36" (46")	50"	50"
	W Travel	20"	20"	20"
	Table Size	36" x 80"	40" x 126"	40" x 165"
	Table Load (Evenly Distributed)	10,000 lbs.	10,000 lbs.	10,000 lbs.
	T-Slots (No./Width)	5 / 0.866"	7 / 0.709"	7 / 0.709"
	Table Top to Floor	40"	38"	38"
SPINDLE	Bar Diameter (Quill Size)	4.330"	4.330"	4.330"
	Bar Travel (W Axis)	20.0" Fully Programmable "W" axis		
	Spindle Motor HP (Peak)	40.0 HP (55 HP)		
	Spindle Speed (RPM)	30 - 3,000 RPM		
	Spindle Torque (Max)	360 ft/lbs. @ 350 RPM (1,400 ft/lbs with 2-speed gearbox)		
	Speed Ranges	1 Range (2-speed ZF gearbox optional)		
	Tool Type/Taper	CAT 50 or BT-50		
	Spindle Nose to Table Center	2" - 27"	7" - 43"	16" - 66"
	Spindle Center to Table Top	5" - 60"	5" - 60"	5" - 60"
BUILT-IN ROTARY OPTION	Platter Size	36"	40"	40"
	Maximum Rotation Speed	12 RPM		
	Maximum Table Load	10,000 lbs.		
	Positioning Accuracy	12 arc seconds		
	Position Repeatability	5 arc seconds		
	Spindle Center to Table Top	0" - 53"		
ATC OPTION	Tool Storage Capacity	24 Station Arm Type (30-40-60 tool)		
	Tool Change Time	4 seconds		
	Max. Tool Diameter (full)	5.90"		
	Max. Tool Diameter (adjacent empty)	9.85"		
	Max. Tool Weight	33.0 lbs.		
	Max. Tool Length	16"		
PERFORMANCE	Positioning Accuracy	+/- 0.0002"		
	Positioning Repeatability	+/- 0.0001"		
	Ballscrew Diameter	1.96"	3.14"	3.14"
	Rapid Traverse	750 IPM X, Y, Z	600 IPM X, Y, Z	600 IPM X, Y, Z
	Cutting Feed Rate	0.001 - 600 IPM		
	Servo Type	AC Digital Brushless		
	Axis Thrust (Peak)	7,500 lbs.		
GENERAL INFO	Air Pressure Requirements	90 PSI; 5 CFM		
	Coolant Capacity	100 Gallons		
	Coolant Flow	5 Gal/Min		
	Power Requirements	80 AMP; 400-500 VAC (220 VAC optional)		
	Shipping Dimensions* (WxDxH)	120" x 94" x 96"	140" x 105" x 105"	180" x 105" x 105"
	Operating Dimensions (WxDxH)	195" x 185" x 145"	260" x 185" x 145"	300" x 185" x 145"
	Machine Weight	38,000 lbs.	44,000 lbs.	48,000 lbs.



	HB-70	HB-120	HB-160
Overall Width (A)	195"	260"	300"
Overall Depth (B)	185"	185"	185"
Maximum Machine Height (C)	145"	145"	145"
Door Width (D)	78"	78"	78"
Console Height (E)	63"	63"	63"
Electrical Cabinet Swing (F)	36"	36"	36"
Approximate Machine Weight	38,000 lb	44,000 lb	48,000 lb

* Requires some disassembly to meet these minimum dimensions. Contact factory for more information.

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Specifications subject to change without prior notice.