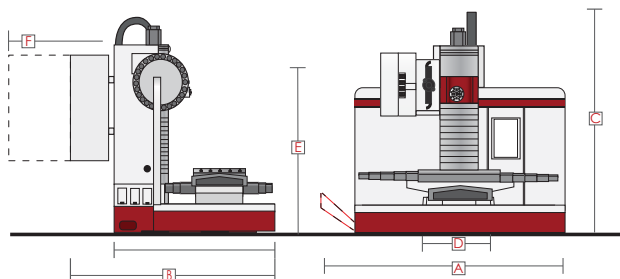


	HB SERIES SPECIFICATIONS	HB-70	HB-120	HB-160
MACHINE CAPACITY	X Travel	70"	120"	160"
	Y Travel	50"	50"	50"
	Z Travel	36" (46")	40" (50")	40" (50")
	W Travel	20"	20"	20"
	Table Size	36" x 80"	40" x 126"	40" x 165"
	Table Load (Evenly Distributed)	10,000 lbs.	10,000 lbs.	10,000 lbs.
	T-Slots (No./Width)	5 / 0.866"	7 / 0.709"	7 / 0.709"
SPINDLE	Table Top to Floor	40"	38"	38"
	Bar Diameter (Quill Size)		4.330"	
	Bar Travel (W Axis)		20.0" Fully Programmable "W" axis	
	Spindle Motor HP (Peak)		40.0 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 gearbox optional)	
	Tool Type/Taper		CAT 50 or BT-50	
	Spindle Nose to Table Center	7" - 43"	10" - 50"	10" - 50"
	Spindle Center to Table Top	8" - 61"	15" - 65"	15" - 65"
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"	7.5" - 57.5"	7.5" - 57.5"
ATC OPTION	Tool Storage Capacity		24 Station Arm Type (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		+/- 0.0003"	
	Positioning Repeatability		+/- 0.0002"	
	Ballscrew Diameter	1.96"	3.14"	3.14"
	Rapid Traverse	750 IPM X, Y, Z	500 IPM X, Y, Z	500 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 AMPS @ 480 VAC	
	Shipping Dimensions* (WxDxH)	120" x 94" x 96"	140" x 105" x 105"	180" x 105" x 105"
	Operating Dimensions (WxDxH)	195" x 159" x 155"	325" x 160" x 155"	365" x 160" x 155"
	Machine Weight	38,000 lbs.	44,000 lbs.	48,000 lbs.



	HB-70	HB-120	HB-160
Overall Width (A)	195"	325"	365"
Overall Depth (B)	159"	160"	160"
Maximum Machine Height (C)	155"	155"	155"
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.