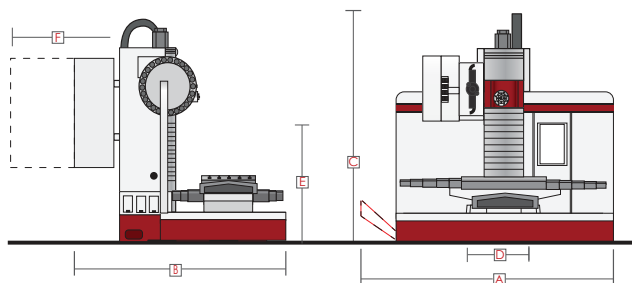


HR SERIES SPECIFICATIONS		HR-40	HR-70	HR-120	HR-160
MACHINE CAPACITY	X Travel	40"	70"	120"	160"
	Y Travel	29"	55" (72")	55" (72")	55" (72")
	Z Travel	25"	36" (46")	50"	50"
	Table Load (Evenly Distributed)	6,000 lbs.	10,000 lbs.	10,000 lbs.	10,000 lbs.
	Table Size	24" x 51"	36" x 80"	40" x 126"	40" x 165"
	T-Slots (No./Width)	5 / 0.709"	5 / 0.866"	7 / 0.709"	7 / 0.709"
	Table Top to Floor	35"	40"	38"	38"
SPINDLE	Motor HP (Peak)	40.0 HP (55 HP)			
	Spindle Speed (RPM)	60 to 6,000 RPM (8,000 and 10,000 RPM)			
	Spindle Torque	306 ft/lbs. @ 350 RPM (1,224 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" to 27"	7" to 43"	10" to 60"	10" to 60"
	Spindle Center to Table Top	7.5" to 36.5"	5" to 60"	10" to 65"	10" to 65"
BUILT-IN ROTARY OPTION	Platter Size	24"	36"	40"	40"
	Max. Rotation Speed	12 RPM			
	Max. Table Load	6,000 lbs.	10,000 lbs.	10,000 lbs.	10,000 lbs.
	Positioning Accuracy	12 arc seconds			
	Positioning Repeatability	5 arc seconds			
	Spindle Center to Table Top	1" to 30"	0" to 53"	2" to 57"	2" to 57"
ATC	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	1.57"	2.18"	3.14"	3.14"
	Rapid Traverse	1,000 IPM X, Y, Z	750 IPM X, Y, Z	600 IPM X, Y, Z	600 IPM X, Y, Z
	Cutting Feed Rate	0.001 to 600 IPM			
	Servo Type	AC Digital Brushless			
	Axis Thrust (Peak)	5,000 lbs.	7,500 lbs	7,500 lbs	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 430-500 VAC (220 VAC optional)			
	Shipping Dimensions* (WxDxH)	73" x 92" x 92"	120" x 94" x 96"	140" x 105" x 105"	180" x 105" x 105"
	Operating Dimensions (WxDxH)	150" x 100" x 100"	180" x 150" x 145"	260" x 150" x 145"	300" x 150" x 145"
	Machine Weight	18,000 lbs.	36,000 lbs.	42,000 lbs.	46,000 lbs.



	HR-40	HR-70	HR-120	HR-160
Overall Width (A)	150"	180"	260"	300"
Overall Depth (B)	100"	150"	150"	150"
Maximum Height (C)	100"	145"	145"	145"
Door Width (D)	50"	77"	125"	170"
Console Height (E)	63"	63"	63"	63"
Electrical Cabinet Swing (F)	36"	36"	36"	36"

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

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Specifications subject to change without prior notice.