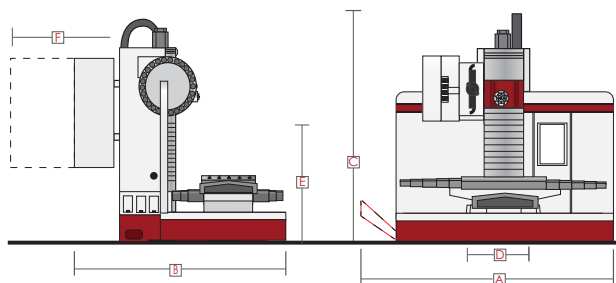


HR Series Specifications		HR-14	HR-40	HR-70	HR-120	HR-160
Machine Capacity	X Travel	40"	40"	70"	120"	160"
	Y Travel	20"	29"	55"	55"	55"
	Z Travel	20"	25"	36" (46")	40" (50")	40" (50")
	Table Load (Evenly Distributed)	3,500 lbs.	6,000 lbs.	10,000 lbs.	10,000 lbs.	10,000 lbs.
	Table Size	16" x 54"	24" x 51"	36" x 80"	40" x 126"	40" x 165"
	T-Slots (No./Width)	5 / 0.63"	5 / 0.709"	5 / 0.866"	7 / 0.709"	7 / 0.709"
	Table Top to Floor	33.8"	35"	40"	38"	38"
Spindle	Motor HP (Peak)	20 HP	40.0 HP (55 HP)			
	Spindle Speed (RPM)	60 - 8,000 RPM	60 - 6,000 RPM (8,000 and 10,000 RPM)			
	Spindle Torque	80 ft/lbs 350 RPM	306 ft/lbs. @ 350 RPM (1,224 ft/lbs. with 2-speed gearbox)			
	Speed Ranges	1 range	1 range (2-speed ZF gearbox optional)			
	Tool Type / Taper	CAT 40 or BT-40	CAT 50 or BT-50			
	Spindle Nose to Table Center	29" - 9"	2" - 27"	7" - 43"	10" - 60"	10" - 60"
	Spindle Center to Table Top	22" - 2"	7.5" - 36.5"	6" - 61"	10" - 65"	10" - 65"
Built-in Rotary Option	Platter Size	16"	24"	36"	40"	40"
	Max. Rotation Speed	33 RPM	12 RPM	12 RPM	12 RPM	12 RPM
	Max. Table Load	3,000 lbs.	6,000 lbs.	10,000 lbs.	10,000 lbs.	10,000 lbs.
	Positioning Accuracy	12 arc sec	12 arc sec	12 arc sec	12 arc sec	12 arc sec
	Positioning Repeatability	5 arc sec	5 arc sec	5 arc sec	5 arc sec	5 arc sec
	Spindle Center to Table Top	16" - 0	1" - 30"	0" - 53"	2" - 57"	2" - 57"
ATC	Tool Storage Capacity	16 Station Arm Type		24 Station Arm Type (40-60 tool)		
	Tool Change Time	4 Seconds				
	Max. Tool Diameter (full)	5.90"				
	Max. Tool Dia. (adjacent empty)	9.85"				
	Max. Tool Weight	15.0 lbs	33.0 lbs.	33.0 lbs.	33.0 lbs.	33.0 lbs.
	Max. Tool Length	11"	16"	16"	16"	16"
Performance	Positioning Accuracy	+/- 0.0002"				
	Positioning Repeatability	+/- 0.0001"				
	Ballscrew Diameter	1.57"	1.57"	2.18"	3.14"	3.14"
	Rapid Traverse	600 IPM X, Y, Z	1,000 IPM X, Y, Z	750 IPM X, Y, Z	600 IPM X, Y, Z	600 IPM X, Y, Z
	Cutting Feed Rate	.001 - 400 IPM 0.001 - 600 IPM				
	Servo Type	AC Digital Brushless				
	Axis Thrust (Peak)	3,000 lbs.	5,000 lbs.	7,500 lbs	7,500 lbs	7,500 lbs
General Info	Air Pressure Requirements	90 PSI 3 CFM	90 PSI; 5 CFM			
	Coolant Capacity	12 gallons	100 Gallons			
	Coolant Flow	3 GPM	5 Gal/Min			
	Power Requirements	40 AMP 380-500 VAC (208-250 VAC)	80 AMP @ 480 VAC			
	Shipping Dimensions* (WxDxH)	54" x 80" x 78"	73" x 92" x 92"	120" x 94" x 96"	140" x 105" x 105"	180" x 105" x 105"
	Operating Dimensions (WxDxH)	113" x 80" x 106"	150" x 100" x 100"	180" x 150" x 145"	260" x 150" x 145"	300" x 150" x 145"
	Machine Weight	9,000 lbs	18,000 lbs.	36,000 lbs.	42,000 lbs.	46,000 lbs.



	HR-14	HR-40	HR-70	HR-120	HR-160
Overall Width (A)	113"	150"	180"	260"	300"
Overall Depth (B)	80"	100"	150"	150"	150"
Maximum Height (C)	106"	100"	145"	145"	145"
Door Width (D)	48"	50"	77"	125"	170"
Console Height (E)	59"	63"	63"	63"	63"
Electrical Cabinet Swing (F)	36"	36"	36"	36"	36"

* Requires some disassembly to meet minimum shipping dimensions. Diagram reflects HR-40, HR-70, HR-120 & HR-160 models. Contact factory for more information.

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Specifications subject to change without prior notice.