

SPECIFICATIONS

HR SERIES

		HR-60	HR-70	HR-120	HR-160
MACHINE CAPACITY	X Travel	60"	72"	120"	160"
	Y Travel	38"	55"	55"	55"
	Z Travel	30"	36"	50"	50"
	Table Load (Evenly Distributed)	4,000 lbs.	10,000 lbs.	10,000 lbs	10,000 lbs
	Table Size	24" x 73"	36" x 80"	40" x 126"	40" x 165"
	T-Slots (No./Width)	5 / .709"	5 / .866"	5 / .709"	5 / .709"
	Table Top to Floor	32"	40"	35"	35"
SPINDLE	Motor HP (peak)	40.0 HP (55 HP)			
	Spindle Speed (RPM)	60 - 6,000 RPM (8K and 10K RPM)			
	Spindle Torque	204 ft/lbs @ 350 RPM (800 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	3" - 33"	7" - 43"	16" - 66"	16" - 66"
	Spindle Center to Table Top	2" - 40"	5" - 60"	7" - 62"	7" - 62"
ATC OPTION	Tool Storage Capacity	24 Station Arm Type (40 tool optional)			
	Tool Change Time	4 seconds			
	Max. Tool Diameter(full)	5.90"			
	Max. Tool Dia (adjacent empty)	9.85"			
	Max. Tool Weight	33.0 lbs			
	Max. Tool Length	16"			
PERFORMANCE	Positioning Accuracy	+/-0.0002"			
	Position 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	.001-600 IPM			
	Servo Type	AC Digital Brushless			
	Axis Thrust (Peak)	5,000 lbs.	7,500 lbs.	7,500 lbs.	7,500 lbs.
GENERAL INFORMATION	Air Pressure Requirements	90 PSI 5 CFM			
	Coolant Capacity	90 gallons			
	Coolant Flow	5 GPM			
	Power Requirements	80 AMP 430-500 VAC			
	Shipping Dimensions* (WxDxH)	83"x92"x92"	120"x94"x96"	140"x105"x105"	180"x105"x105"
	Operating Dimensions (WxDxH)	170"x100"x110"	180"x150"x145"	260"x150"x145"	300"x150"x145"
	Machine Weight	15,000 lbs.	38,000 lbs	40,000 lbs	45,000 lbs