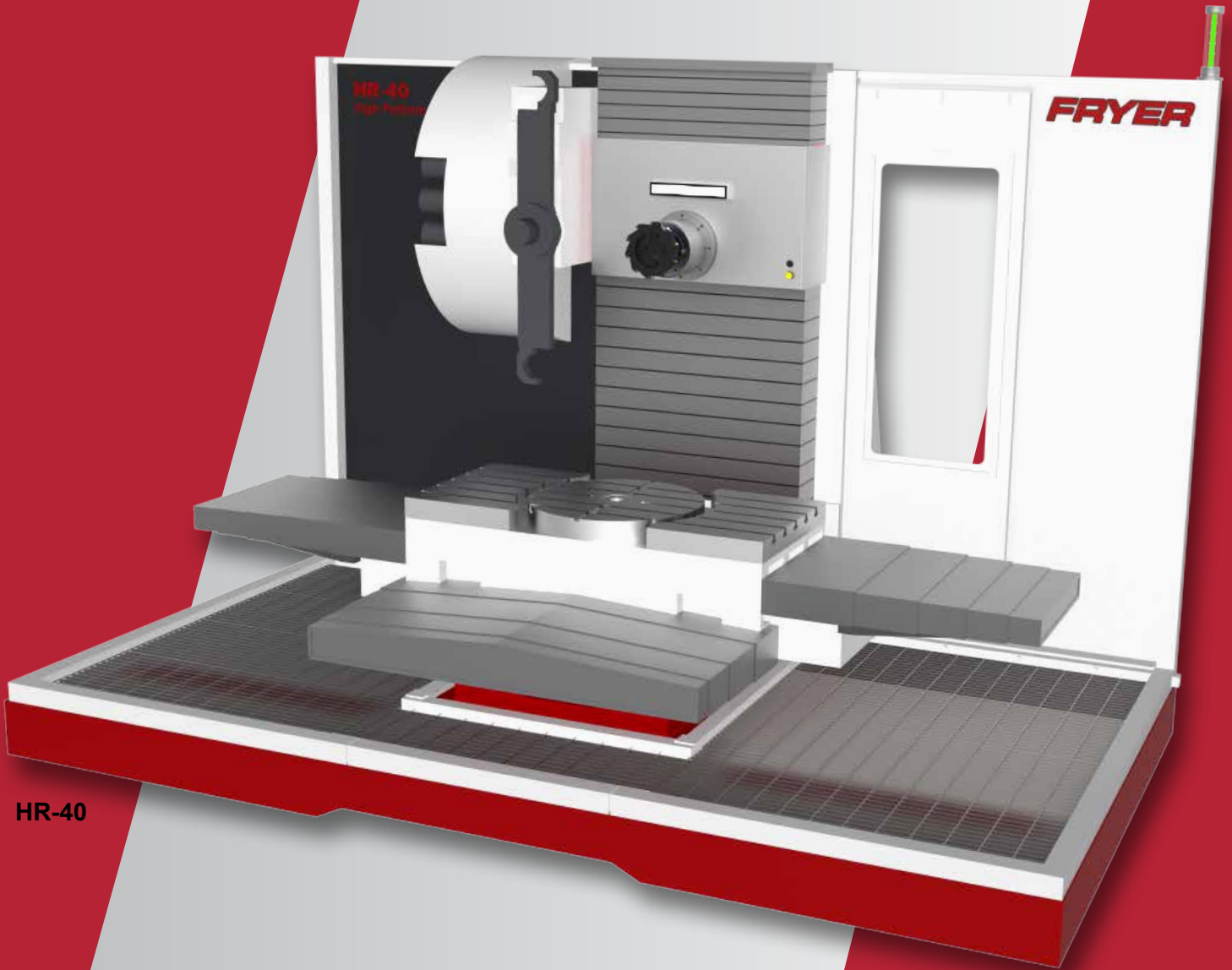


HR Series

High Performance HMC



HR-40

FRYER
MACHINE SYSTEMS[®]

Precision Built Solutions[™]

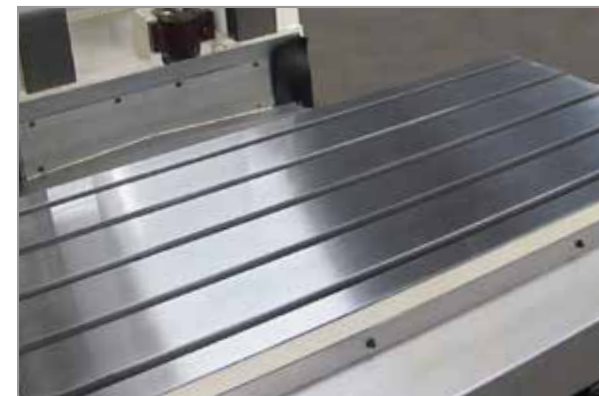
The Fryer HR Series are high performance box way horizontal machining centers designed for your most demanding applications. The high-torque 40 HP spindle motor and standard 6,000 RPM 50 taper spindle provide the rigidity and torque needed. Extra large castings, ballscrews and bearings provide accuracy and vibration dampening. The user friendly 2200 CNC allows simple shop floor programing or G-Code programs to be run with ease.

Flexibility



HR-70

- Rigid box way construction
- Compact footprint
- Standard semi guarding
- Optional full guarding
- Flood coolant system with 100 gallon tank
- 24, 30, 40 or 60 tool ATC
- 50 taper performance



Fixed Table:

The standard HR Series features a cast iron precision ground table. Table size and Tee slots vary per model.



Built-in Rotary Table:

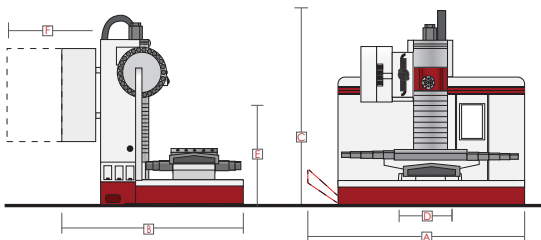
Optional feature is a full interpolated contouring and positioning 4th axis rotary table flush mounted inside the standard table. 12 arc/sec accuracy.

- HR-40 is available with a 24" table
- HR-70 is available with a 36" table
- HR-120/160 is available with a 40" table



HR-120

HR SERIES SPECIFICATIONS		HR-40	HR-70	HR-120	HR-160
MACHINE CAPACITY	X Travel	40"	70"	120"	160"
	Y Travel	29"	55"	55"	55"
	Z Travel	25"	36" (46")	50"	50"
	Table Load (Evenly Distributed)	5,000 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)			
	Speed 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	3,000 lbs.	5,000 lbs.	6,000 lbs.	6,000 lbs.
	Positioning Accuracy	12 arc seconds			
	Positioning Repeatability	5 arc seconds			
ATC OPTION	Spindle Center to Table Top	1" to 30"	0" to 53"	2" to 57"	2" to 57"
	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"			
PERFORMANCE	Max. Tool Weight	33.0 lbs.			
	Max. Tool Length	16"			
	Positioning Accuracy	+/- 0.0002"			
	Position Repeatability	+/- 0.0001"			
	Ballscrew Diameter	1.57"	2.18"	3.14"	3.14"
GENERAL INFO	Rapid Transverse	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.
	Air Pressure Requirements	90 PSI; 5 CFM			
GENERAL INFO	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 Machine 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"



Precision Built Solutions™

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

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Specifications subject to change without prior notice.