

FRYER

MACHINE SYSTEMS

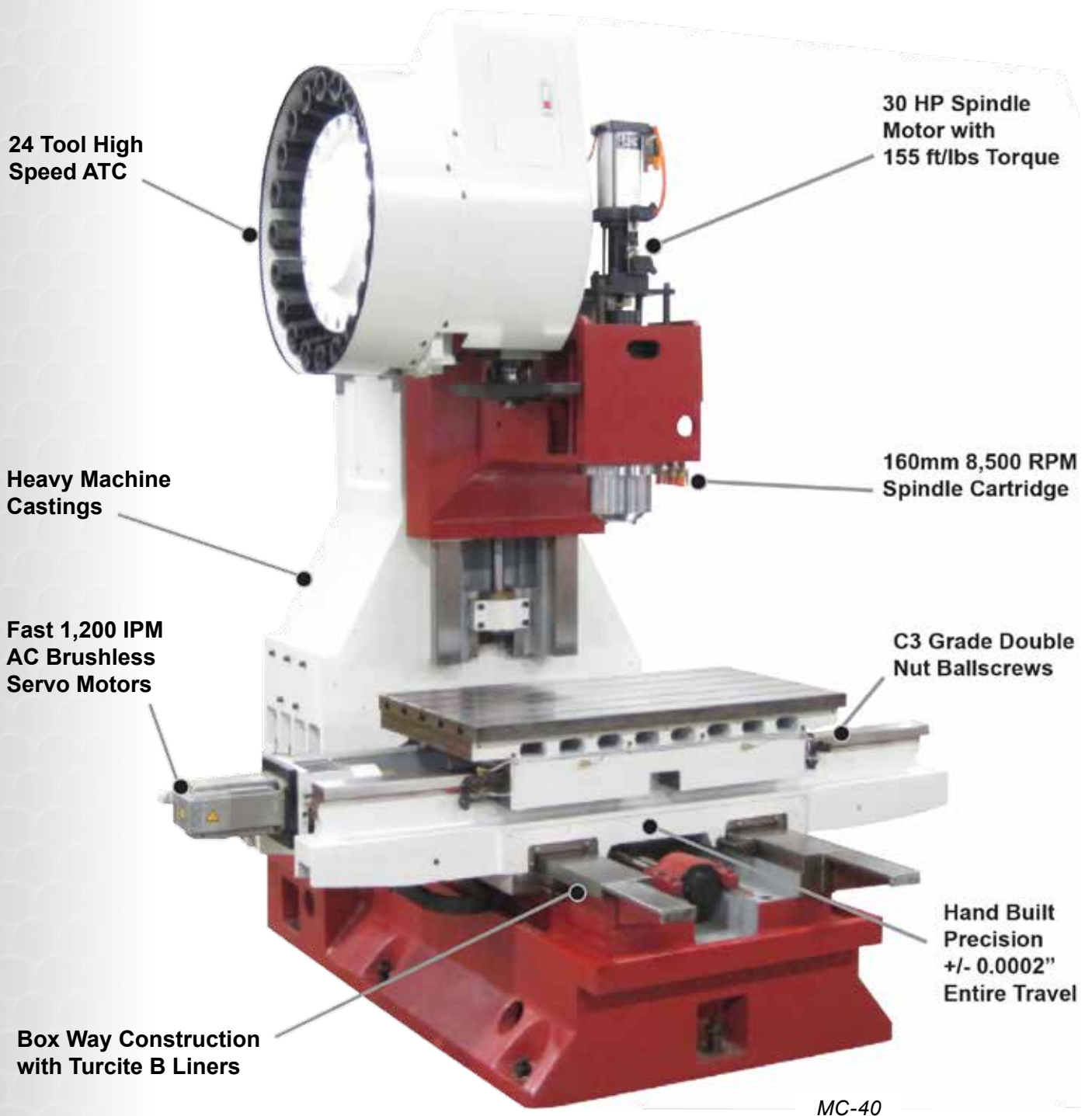
The Toolroom Company



MC Series

High Performance VMC

Fryer's MC Series offers exceptional performance by featuring heavyweight castings with box way construction. The standard 24 tool arm type ATC and 1,200 IPM rapids produce more parts per hour. Fully digital control and drives combined with fast set-up and programming maximize performance and reliability.



Rugged & Reliable

- Heavy duty box ways
- Fast 1,200 IPM rapids
- Standard arm type ATC
- All digital CNC
- Absolute encoders
- Regenerative drive technology



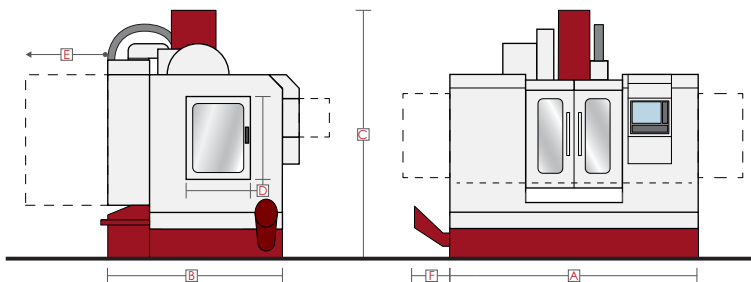
MC-60



5 Axis Trunnion

- Easy to upgrade machine
- 6", 8", 10" and 12" platter sizes
- 5 axis simultaneous
- Removable for standard 3 Axis operation

MC SERIES SPECIFICATIONS		MC-30	MC-40	MC-45	MC-60	MC-80	MC-100
MACHINE CAPACITY	X Travel	30"	40"	45"	60"	80"	100"
	Y Travel	18"	20"	25"	30"	35" (40")	35" (40")
	Z Travel	22"	28"	25"	28" (38")	30" (34")	30" (34")
	Balscrew size	1.57"	1.57"	1.57"	1.57"	1.97"	1.97"
	Table Load (Evenly Distributed)	2,500 lbs.	3,000 lbs.	3,500 lbs.	4,500 lbs.	5,500 lbs.	5,500 lbs.
	Table Size	16.5" x 31.5"	20" x 40"	24" x 51"	24" x 67"	30" x 93"	30" x 112"
	T-Slots (No./Width)	3 / .708"	5 / .708"	5 / .709"	5 / .709"	5 / .709"	5 / .709"
	Table Top to Floor	30"	35"	35"	32"	35"	35"
SPINDLE	Motor HP (Peak)	30.0 HP (40.0 HP Optional)					
	Spindle Speed (RPM)	60 - 8,500 RPM (10,000 and 12,000 Optional)					
	Spindle Torque (max)	155 ft/lbs @ 350 RPM (204 ft/lbs w/opt 40 HP motor; 800 ft/lbs w/opt 40 HP motor and gearbox)					
	Tool Type/Taper	CAT 40 (CAT 50 Optional) (BT Option)					
	Spindle Nose to Table (Max - Min)	25" - 3"	32" - 4"	29" - 4"	32" - 4"	34" - 4"	34" - 4"
	Spindle Center to Column	18"	21"	26"	30"	36"	36"
ATC	Tool Storage Capacity	24 Station Arm Type (40Tool)					
	Tool Change Time	3 Seconds					
	Max. Tool Diameter (full)	3.2"					
	Max. Tool Dia. (adjacent empty)	5.9"					
	Max. Tool Weight	15.4 lbs.					
	Max. Tool Length	13"					
PERFORMANCE	Positioning Accuracy X, Y, Z	+/- 0.0002"					
	Positioning Repeatability X, Y, Z	+/- 0.0001"					
	Resolution	0.0001"					
	Rapid Traverse	1,200 X, Y - 900 Z			600 X, Y, Z		400 X, Y, Z
	Cutting Feed Rate	.001 - 900 IPM			.001 - 400 IPM		
	Servo Type	AC Digital Brushless					
	Axis Thrust (Peak)	4,400 lbs. X, Y, Z					
GENERAL INFO	Air Pressure Requirements	90 PSI - 5 CFM					
	Coolant Capacity	90 Gallons					
	Coolant Flow	9 Gal/Min					
	Door Open Width	34"	37"	45"	62"	81"	105"
	Power Requirements	40 AMP 430-500 VAC 3 Phase (220 VAC Optional)					
	Optional Power	80 AMP 208-245 VAC 3 Phase					
	Shipping Dimensions* (WxDxH)	93"x86"x76"	99"x86"x88"	127"x87"x87"	161"x89"x93"	210"x94"x95"	240"x94"x96"
	Operating Dimensions (WxDxH)	93"x86"x89"	111"x86"x110"	127"x104"x110"	161"x112"x112"	211"x122"x114"	240"x122"x114"
	Machine Weight	9,900 lbs.	12,100 lbs.	14,500 lbs.	20,000 lbs.	23,000 lbs.	26,000 lbs.



	MC-30	MC-40	MC-45	MC-60	MC-80	MC-100
Floor Width (A)	93"	111"	127"	161"	211"	240"
Floor Depth (B)	86"	86"	104"	112"	122"	122"
Maximum Height (C)	89"	110"	110"	112"	114"	114"
Side Door - Width x Height (D)	28.5 x 36.5"	27 x 34"	30 x 30"	30 x 30"	47 x 32"	47 x 32"
Electrical Cabinet Swing (E)	34"	34"	38"	38"	38"	38"
Protrusion (Auger/Conveyor) (F)	20"	20"	16"	16"	20"/48"	20"/48"
Appropriate Machine Weight	9,900 lbs.	12,100 lbs.	14,500 lbs.	20,000 lbs.	23,000 lbs.	26,000 lbs.

*MC-100 uses a dual auger/conveyor system that travels from the front to the back of machine.

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

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Specifications subject to change without prior notice.