

FRYER



The Fryer CM Series is the perfect tool for toolroom, job shop and secondary operations. Built on a solid cast iron platform and using high precision ballscrews, spindle and ATC, the CM can hold the demanding tolerances that industry requires. Programming is accomplished with industry standard G code or Siemens advanced 'Shop Mill' programming. Equipped with an impressive list of standard features the CM Series is by far the best compact milling machine available today.

Specifications

■ 15" x 10" x 15" travels

■ 7.5 HP – 8,000 RPM







Specifications

- 20" x 13" x 20" travels
- **■** 7.5 HP 8,000 RPM
- 10 tool ATC



The CM series is ideal for many industries. Toolrooms like the small size and simple conversational programming. Job shops like the easy set-up keys and the ability to move the machine easily to where it is needed. Mold shops like the 30,000 RPM spindle option and graphite protection package. See how the CM series can be customized to your application.



Rugged Construction

- Precision ground ballscrews
- Cast iron construction
- Steel cutting capacity
- Precision linear ways





40 Taper Spindle

- 8,000, 10,000, 12,000 or 15,000 RPM
- Built-in coolant nozzles
- 7.5 HP or 15 HP spindle motors
- CAT or BT-40
- Thin spindle coolant





Pallet Jack

- Move easily to where a spindle is needed
- Park next to larger machine as 2nd Op
- Easy to level and set-up

Automatic Tool Changer

- 8 or 10 Tool 40 taper
- 20 tool arm type available
- Fast 5 second change time
- Large 3.5" maximum tool diameter







5 Axis Rotary Table

- 6" compact trunnion table
- Full 5 Axis or 3+2 operation
- Perfect for multi-sided machining or complex 5 Axis parts

High Speed Spindle

- Liquid cooled with refrigeration
- 30 taper, 21,000, 30,000 RPM continuous duty
- Air/ oil lubrication







Siemens 828 CNC

The advanced Siemens CNC is the perfect control for toolroom and production alike. It includes G code and conversational programming as well as advanced graphics. Animated set-up screens, USB, high speed machining and tool life management make it the most versatile CNC available.

- Conversational programming
- G code programming
- Solid model 3D graphics
- High speed machining
- Fast set-up cycles
- USB file transfer
- PC control simulator (available)

Fanuc Oi CNC

The industry standard Fanuc 0i CNC is the perfect control for production use. The Fanuc CNC control system is used on millions of machines worldwide. Featuring USB file transfer, high speed machining and tool life management. It also features available full 4th axis contouring and electronic probing making it the most versatile CNC available.

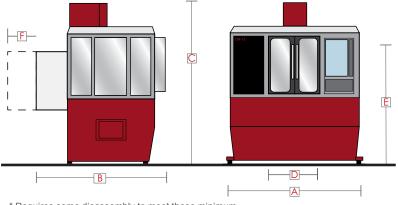
- Fanuc reliability
- G code programming
- High speed machining
- Fast set-up cycles
- USB file transfer
- Tool life management







	CM SERIES SPECIFICATIONS	CM-15	CM-20	
MACHINE CAPACITY	X Travel	15"	20"	
	Y Travel	10"	13"	
	Z Travel	15"	20"	
	Ballscrew Size	0.630"	1.00"	
	Table Load (Evenly Distributed)	350 lbs.	450 lbs.	
	Table Size	10" x 32"	12" x 24"	
	T-Slots (No./Width)	3 / 0.630"	3 / 0.630"	
	Table Top to Floor	32"	30"	
SPINDLE	Motor HP (Peak)	7	7.5 HP	
	Spindle Speed (RPM)	60 - 8,000 RPM (10K, 1	60 - 8,000 RPM (10K, 12K, 15K, 21K, 30K optional)	
	Spindle Torque (max)	35 ft/lbs.	35 ft/lbs. @ 350 RPM	
	Tool Type/Taper	CAT 40	CAT 40 (BT option)	
	Spindle Nose to Table (Max to Min)	4" - 19"	3" - 23"	
	Spindle Center to Column	11"	15"	
ATC	Tool Storage Capacity	8 Station	10 Station (20 optional)	
	Tool Change Time	5 S	5 Seconds	
	Max. Tool Diameter (full)		3.5"	
	Max. Tool Weight	10	10.4 lbs.	
	Max. Tool Length		8"	
	Positioning Accuracy	+/-	+/- 0.0002"	
S S	Positioning Repeatability	+/-	+/- 0.0001"	
¥	Resolution	0.	0.0001"	
S. S.	Rapid Traverse	,	500 IPM (1,200 optional)	
PERFORMANCE	Cutting Feed Rate		0.001 - 400 IPM (1,200 optional)	
F	Servo Type	AC Digital Brushless		
	Axis Thrust (Peak)	2,200	2,200 lbs. X, Y, Z	
	Air Pressure Requirements	90 PSI; 3 CFM		
0	Coolant Capacity		10 Gallons	
GENERAL INFO	Coolant Flow		2 Gal/Min	
	Power Requirements		40 AMP; 200-250 VAC 3 PHASE (380-500 optional)	
	Door Open Width	23"	30"	
	Shipping Dimensions* (WxDxH)	55" x 52" x 71"	65" x 80" x 80"	
	Operating Dimensions (WxDxH)	55" x 52" x 80"	65" x 80" x 80"	
	Machine Weight	2,350 lbs.	4,300 lbs.	



	CM-15	CM-20
Overall Width (A)	55"	65''
Overall Depth (B)	52"	80"
Maximum Machine Height (C)	80"	80"
Door Width (D)	23"	30"
Console Height (E)	63"	63"
Electrical Cabinet Swing (F)	30.5"	30.5"
•		

© 2019 Fryer Machine Systems, Inc. rev 032819 Specifications subject to change without prior notice.

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