

VB Series

High Performance VMC



FRYER
MACHINE SYSTEMS[®]

Precision Built Solutions™

Designed as a high performance machining center without an enclosure, the Fryer VB Series offers versatility and value. Ideal for production and job shop applications, the VB open design and rugged construction allow for easy loading of large parts. Extremely simple set-up and programming make this machine highly efficient for even short run parts. The VB is also equipped with an impressive set of standard features unmatched by any machine in its class.



VB-60

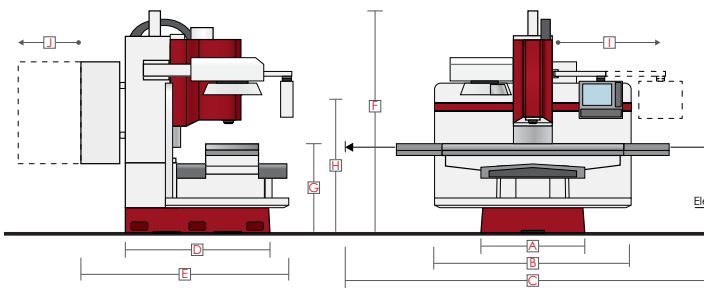


VB-120

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- Box way construction with Turcite B liners
 - C3 grade double-nut ball screws with Class 7 bearings
 - Massive 6" 8,000 RPM spindle cartridge
 - All axes laser calibrated & ballbar verified
 - Hand built precision +/- .0002" entire travel
 - X travel 60" to 160"
 - Simple conversational or G code programming
 - High speed all digital control system
 - Absolute encoders - no homing required
 - Siemens or Fanuc CNC

VB SERIES SPECIFICATIONS	VB-60	VB-80	VB-100	VB-120	VB-160
X Travel	60"	80"	100"	120"	160"
Y Travel	30"	35"	35"	40" (50")	40" (50")
Z Travel	28"	26" (34")	26" (34")	40"	40"
Table Load (Evenly Distributed)	4,000 lbs.	5,000 lbs.	5,000 lbs.	6,500 lbs.	6,500 lbs.
Table Size	24" x 73"	30" x 93"	30" x 112"	40" x 126"	40" x 165"
T-Slots (No./Width)	5 / .709"	5 / .709"	5 / .709"	5 / .709"	5 / .709"
Table Top to Floor	32"	35"	35"	35"	35"
Motor (Peak)	30.0 HP (40.0 HP Optional)				
Spindle Speed (RPM)	60 - 8,000 RPM (10,000 and 12,000 RPM Refrigerated Optional)				
Spindle Torque	155 ft / lbs. @ 350 RPM (204 ft / lbs. w/Opt 40 HP Motor; 800 ft / lbs. w/Opt 40 HP Motor and Gearbox)				
Speed Ranges	1 Range (2-Speed Gear Box Optional)				
Tool Type /Taper	CAT - 40 or BT - 40 (Optional 50 Taper)				
Spindle Nose to Table (Max-Min)	31" - 3"	30" - 4"	30" - 4"	44" - 4"	44" - 4"
Spindle Center to Column	30.5"	36"	36"	42" (51")	42" (51")
Tool Storage Capacity	20 (24 Arm Type Optional)				
Tool Change Time	7 Seconds (3 Seconds Optional)				
Max. Tool Diameter (Full)	4.10" (3.2")				
Max. Tool Dia. (Adjacent Empty)	7.9" (5.9")				
Max. Tool Weight	16.5 lbs. (15.4)				
Max. Tool Length	15" (13")				
Positioning Accuracy	+ / - 0.0003"				
Position Repeatability	+ / - 0.0002"				
Resolution	+ / - 0.0001"				
Rapid Traverse	1,000 X, Y 700 Z	600	400	400	400
Cutting Feed Rate	.001 - 600 IPM (400 IPM Max VB-80, 100, 120, 160)				
Servo Type	AC Digital Brushless				
Axis Thrust (Peak)	3,500 lbs.		4,400 lbs.		10,800 lbs.
Air Pressure Requirements	90 PSI 5 CFM				
Coolant Capacity	20 Gallons (90 Gallons)				
Operating Temperatures	Min. 50° - Max. 100°				
Power Requirements	40 AMP 430 -500 VAC 3 Phase (205 - 245 VAC Optional)				
Shipping Dimensions* (WxDxH)	83" x 92" x 92"	100" x 94" x 96"	120" x 94" x 96"	140" x 105" x 105"	180" x 105" x 105"
Operating Dimensions (WxDxH)	170" x 100" x 110"	220" x 110" x 110"	240" x 110" x 110"	260" x 120" x 115"	300" x 120" x 115"
Machine Weight	15,000 lbs.	18,500 lbs.	20,500 lbs.	32,000 lbs.	37,000 lbs.

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	VB-60	VB-80	VB-100	VB-120	VB-160
Floor Width (A)	42"	42"	42"	285"	365"
Table Width (B)	114"	143"	170"	124"	165"
Overall Width (C)	174"	223"	270"	285"	365"
Floor Depth (D)	77"	86.5"	86.5"	118"	118"
Overall Depth (E)	102"	93"	93"	138"	138"
Maximum Height (F)	110"	110"	110"	140"	140"
Floor to Table Height (G)	32"	35"	35"	35"	35"
Floor to Console Height (H)	63"	63"	63"	63"	63"
Console Swing Radius (I)	76"	85"	85"	*43"	*43"
Electrical Cabinet Swing Radius (J)	37.5"	37.5"	37.5"	31"	31"
Approximate Machine Weight	15,000 lbs.	18,500 lbs.	20,500 lbs.	32,000 lbs.	37,000 lbs.

*Console is front base mounted



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