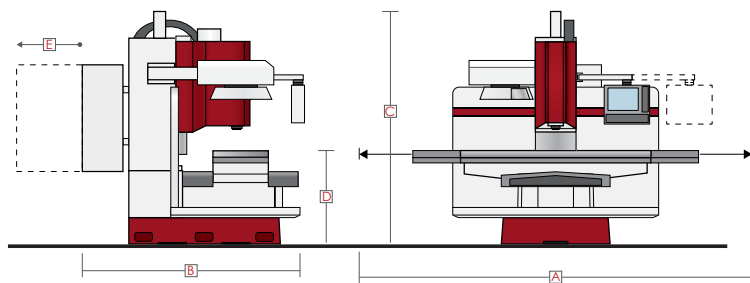


VB SERIES SPECIFICATIONS		VB-60	VB-80	VB-100	VB-120	VB-160
MACHINE CAPACITY	X Travel	60"	80"	100"	120"	160"
	Y Travel	30"	35" (40")	35" (40")	40" (50")	40" (50")
	Z Travel	28"	26" (34")	26" (34")	40"	40"
	Table Load (Evenly Distributed)	4,000 lbs.	5,000 lbs.	5,000 lbs.	6,500 lbs.	6,500 lbs.
	Table Size	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"
SPINDLE	Motor HP (Peak)	30.0 HP (40.0 HP Optional)				
	Spindle Speed (RPM)	60 - 8,000 RPM (10K,12K,15K Refrigerated Optional)				
	Spindle Torque (max)	155 ft/lbs @ 350 RPM (204 ft/lbs w/ 40 HP motor; 800 ft/lbs w/ 40 HP motor & 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" (41")	36" (41")	42" (51")	42" (51")
ATC	Tool Storage Capacity	20 Carousel (24, 40, 60 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" (5.5")				
	Max. Tool Weight	16.5 lbs. (15.4)				
	Max. Tool Length	15" (13")				
PERFORMANCE	Positioning Accuracy	+/- 0.0003"				
	Positioning Repeatability	+/- 0.0002"				
	Resolution	0.0001"				
	Rapid Traverse (IPM)	1,000 X, Y - 700 Z	600	400	400	400
	Cutting Feed Rate (IPM)	.001 - 600 IPM	.001 - 600 IPM	.001 - 400 IPM	.001 - 400 IPM	.001 - 400 IPM
	Servo Type	AC Digital Brushless				
GENERAL INFO	Axis Thrust (Peak)	3,500 lbs.	4,400 lbs.	4,400 lbs.	10,800 lbs.	10,800 lbs.
	Air Pressure Requirements	90 PSI 5 CFM				
	Coolant Capacity	20 Gallons (90 Gallons)				
	Coolant Flow	9 GPM				
	Operating Temperatures	Min. 50° - Max. 100°				
	Power Requirements	40 AMP 380-500 VAC 3 PHASE (208-250 VAC Optional)				
	Optional Power	80 AMP 380-500 VAC 3 PHASE (208-250 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 120"	300" x 120" x 120"
	Machine Weight	15,000 lbs.	18,500 lbs.	20,500 lbs.	32,000 lbs.	37,000 lbs.



	VB-60	VB-80	VB-100	VB-120	VB-160
Overall Width (A)	170"	220"	240"	260"	300"
Overall Depth (B)	100"	110"	110"	120"	120"
Maximum Height (C)	110"	110"	110"	120"	120"
Floor to Table Height (D)	32"	35"	35"	35"	35"
Electrical Cabinet Swing (E)	37.5"	37.5"	37.5"	31"	31"
Appropriate Machine Weight	15,000 lbs.	18,500 lbs.	20,500 lbs.	32,000 lbs.	37,000 lbs.

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

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Specifications subject to change without prior notice.