



Clausing Standard Bed Mills Models: 4BVS40, 6BVS40 Specifications:

Model	4BVS40	6BVS40
Table Size	10" x 54" (254x1371mm)	15" x 60" (380x1524mm)
Table Load Capacity	1,500 lbs. (680kg)	1,800 lbs. (817kg)
Number of T-Slots	3	3
T-Slot Width	.63" (16mm)	.709" (18mm)
T-Slot Center Distance	2.48" (63mm)	3.15" (80mm)
Table Ways (X Axis) Turcite B Coated	Dovetail	Dovetail
Bed Ways (Y Axis) Turcite B Coated	Square	Square
Column Ways (Z Axis)	Square	Square
Travels		
Longitudinal (X Axis)	30.51" (775mm)	41.34" (1050mm)
Cross (Y Axis)	17.52" (445mm)	19.69" (500mm)
Vertical (Z Axis)	19.69" (500mm)	23.62" (600mm)
Quill Diameter	4.13" (105mm)	4.13" (105mm)
Quill Travel	5" (127mm)	5" (127mm)
Head Tilt (Left or Right)	90°	90°
Feedrate X & Y Axes	.71-31 (in/min) (18-788mm/min)	1.1-43.3 (in/min) (88-1100mm/min)
Feedrate Z Axis	.71-31 (in/min) (18-788mm/min)	.71-31 (in/min) (18-788mm/min)
X & Y Axes AC Motor with Brake	1/2 hp (.37kw)	1 hp (.75kw)
Z Axis AC Motor with Brake	1/2 hp (.37Kw)	1/2 hp (.37Kw)
Spindle		
Motor (mechanical V.S.)	5 Hp (3.7kw)	5 Hp (3.7kw)
Spindle Speeds (Infinitely Variable)	70-4300 rpm	70-4300 rpm
No. of Speed Ranges	2	2
Low Gear Range	70-500 rpm	70-500 rpm
High Gear Range	570-4300 rpm	570-4300 rpm
Spindle Taper	NT 40	NT 40
Quill feed	.0016/.003/.006in/rev(0.04/0.08/0.15mm/rev)	
Construction		
Height	78.74" (2000mm)	85.43" (2170mm)
Working Width	71.46" (1815mm)	92.91" (2360mm)
Working Depth	66.14" (1680mm)	76.77" (1950mm)
Width Across Column Ways	11.73" (298mm)	11.73" (298mm)
Length of Saddle on Bed	25.98" (660mm)	47.24" (1200mm)
Width Across Bed Ways	16.53" (420mm)	20.47" (520mm)
Spindle Nose to Table	3.15"-22.83" (80-580mm)	3.93"-27.55" (100-700mm)
Center of Spindle to Column ways	17.32" (440mm)	20.47" (520mm)
Floor to Table Surface	36.2" (920mm)	37" (940mm)
Table to Column Ways	3.15"-20.87" (80-530mm)	2.05"-21.73" (52-552mm)
Ball Screw Dia./Pitch	1.26"/.2" (32/5mm)	1.26"/.2" (32/5mm)
Ball Screw Class	C7	C7
Gross Weight (Approximately)	4,400 lbs. (2000kg)	6,600 lbs. (3000kg)

Standard Features...

- Powerful 5 hp (3.7kw) spindle drive motor
- Mechanical variable speed drive with 2 speed ranges
- Hardened and ground spindle with NT 40 taper
- Hardened and chromed quill with 5"(127mm) travel
- CP4 ABEC7 angular contact spindle bearings
- C7 double nut X/Y/Z axes 1.26"(32mm) diameter ballscrew
- Hardened and ground table surface
- Ground T-slots to provide accurate reference edge
- Hardened and ground, square X/Y ways
- Turcite B coating on saddle X/Y axes ways
- Meehanite castings for superior rigidity and wear resistance
- Stainless steel front Y axis way cover
- Rubber Z axis and rear Y/Z axes way covers
- Automatic lubrication with alarm
- Transformer
- Long arm halogen work light
- Coolant system with pump
- Tools, toolbox and parts

Machine Control, Design and Specifications are subject to change without notice.