



Model SB1024

9" x 42" Variable Speed Milling Machine w/Power Feed

Product Dimensions:

Weight 2000 lbs.
 Length/Width/Height 63" x 58" x 87"
 Foot Print (Length/Width) 36" x 24"

Shipping Dimensions:

Type..... Wood Crate
 Content..... Machine
 Weight 2230 lbs.
 Length/Width/Height 55" x 55" x 74"

Electrical:

Required Power Source 220V, Single-Phase, 60 Hz
 Switch..... Forward/Reverse
 Switch Voltage 220V
 Minimum Circuit Size 20 Amp
 Plug Included..... No
 Recommended Plug NEMA 6-20

Motor:

Type..... AEFV Capacitor Start Induction
 Horsepower 2 HP
 Voltage 220V
 Phase Single-Phase
 Amps..... 14 Amps
 Speed 1725 RPM
 Cycle 60 Hz
 Number Of Speeds..... 1
 Power Transfer Belt Drive
 Bearings Lubricated and Permanently Sealed

Main Specifications:

Operation Information

Spindle Travel..... 5"
 Longitudinal Table Travel w/Power Feed 24½"
 Longitudinal Table Travel w/o Power Feed 29½"
 Cross Table Travel..... 13"
 Vertical Table Travel..... 16"
 Ram Travel..... 13"
 Ram Swivel..... 180°
 Head Tilt..... 45° Forward, 45° Back
 Head Swivel..... 90° Right, 90° Left

Operation Information (continued)

Distance Range Spindle to Column	6"–19"
Distance Range Spindle to Table	0"–18"
Drilling Capacity for Cast Iron	1"
Drilling Capacity for Steel	$\frac{3}{4}$ "
Number of Spindle Speeds	Variable
Low Range of Spindle Speeds	60–500 RPM
High Range of Spindle Speeds	500–4200 RPM
Number of Longitudinal Feed Rates	Variable
Longitudinal Feed Rate Range	0– $3\frac{1}{3}$ FPM
Quill Diameter	3.375"
Number of Quill Auto-Feed Rates	3
Quill Auto-Feed Rates	0.0015, 0.003, 0.006 in./rev.

Table Information

Length/Width/Thickness	42" x 9" x 3"
Number of T-Slots	3
T-Slot Width/Height	$\frac{5}{8}$ " x 1"
T-Slot Distance Center-to-Center	2 $\frac{1}{2}$ "
Stud Size	$\frac{1}{2}$ "

Spindle Information

Spindle Taper	R8
End Milling Capacity	1"
Face Milling Capacity	4"
Draw Bar Diameter/TPI	$\frac{1}{2}$ "-20
Draw Bar Length	18 $\frac{1}{2}$ "
Spindle Bearing Type	Angular Contact P4 (ABEC7) & Double-Shielded Ball Bearing
Spindle Diameter	1 $\frac{13}{16}$ "

Construction

Quill	Chromed Steel
Table	Hardened & Precision-Ground Cast Iron
Headstock	Meehanite Cast Iron
Column & Base	Meehanite Cast Iron
Knee & Saddle	Meehanite Cast Iron
Paint	Urethane

Other Specifications

Machine No-Load Sound Level @ 3500 RPM	55 dB
Country of Origin	Taiwan
Warranty	1 Year
Serial Number Location	Machine ID Label On Column Right Side
Customer Setup & Cleaning Time	1–2 Hours

Features

High-Quality, Low-Vibration AEVF Spindle Motor
P4 (ABEC-7) High-Quality Angular Contact Spindle Bearings
X & Y Leadscrew Nuts Double-Bronzed for Ultra-Smooth Movement w/Minimal Backlash
Lever-Action, One-Shot Pump Lubrication System
Auto-Downfeed Stop with Micro-Adjustable Stop
Variable Speed Longitudinal Power Feed
Hardened and Precision-Ground Table Surface
Chromed Steel Quill
Heavy-Duty Spindle Brake
Halogen Work Light