



## Model SB1024 Mill 9 x 42 1PH Var.

**Product Dimensions**

Weight..... 2000 lbs  
 Width (side-to-side) x Depth (front-to-back) x Height..... 63 x 58 x 87 in.  
 Footprint (Length x Width)..... 36 x 24 in.

**Shipping Dimensions**

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

**Electrical**

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

**Motors**

**Main**

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

## Main Specifications

### Operation Info

Spindle Travel.....	5 in.
Longitudinal Table Travel.....	24-1/2 (w/Power Fd), 29-1/2 (w/o Pwr Fd)
Cross Table Travel.....	13 in.
Vertical Table Travel.....	16 in.
Ram Travel.....	13 in.
Ram Swivel Angle.....	180 deg.
Head Tilt (Left-to-Right).....	90 Right, 90 Left deg.
Head Tilt (Front-to-Back).....	45 Forward, 45 Back deg.
Distance Spindle to Column.....	6-19 in.
Distance Spindle to Table.....	0-19 in.
Drilling Capacity for Cast Iron.....	1 in.
Drilling Capacity for Steel.....	3/4 in.
Number of Vertical Spindle Speeds.....	Variable
Range of Vertical Spindle Speeds.....	60-500 (Low), 500-4200 (High) RPM
Number of Longitudinal Feeds.....	Variable
Feed Rate.....	0 - 3-1/3 FPM (Longitudinal)
Quill Diameter.....	3.375 in.
Quill Feed Rates.....	0.0015, 0.003, 0.006 in./rev. (Auto)

### Table Info

Table Length.....	42 in.
Table Width.....	9 in.
Table Thickness.....	3 in.
Number of T-Slots.....	3
T-Slots Width.....	5/8 in.
T-Slots Height.....	1 in.
T-Slots Centers.....	2-1/2 in.
Stud Size.....	1/2 in.

### Spindle Info

Spindle Taper.....	R8
Spindle Sleeve Diameter.....	1-13/16 in.
End Milling Capacity.....	1 in.
Face Milling Capacity.....	4 in.
Drawbar Diameter.....	7/16 in.
Drawbar TPI.....	20
Drawbar Length.....	TPI 18-1/2
Spindle Bearings.....	Angular Contact P4 (ABEC7)

### Construction

Spindle Housing/Quill.....	Chromed Steel
Table.....	Hardened & Precision-Ground Cast Iron
Head.....	Meehanite Cast Iron
Column.....	Meehanite Cast Iron
Base.....	Meehanite Cast Iron
Paint.....	Urethane

### Other

Country Of Origin .....	Taiwan
Warranty .....	1 Year
Serial Number Location .....	Machine ID Label On Column Right Side
Customer Assembly & Setup Time .....	1-2 Hours
Sound Rating .....	55 dB No Load @3500 RPM

## **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  
Allen-Bradley Electrical Controls  
Japanese NSK/NTN Bearings  
Table, Knee and Ram are Equipped with Dual Locking Mechanisms  
Turcite Coated Ways  
Meehanite Castings  
Typical South Bend "No Compromises" Fashion