



## Model SB1027 Mill 9" x 48" EVS

### Product Dimensions

Weight..... 2156 lbs.  
 Width (side-to-side) x Depth (front-to-back) x Height..... 57 x 71 x 87-1/2 in.  
 Footprint (Length x Width)..... 36 x 24 in.

### Shipping Dimensions

Type..... Wood Crate  
 Content..... Machine  
 Weight..... 2420 lbs.  
 Length x Width x Height..... 58 x 54 x 73 in.

### Electrical

Power Requirement..... 220V, Single-Phase, 60 Hz  
 Full-Load Current Rating..... 8.95A  
 Minimum Circuit Size..... 15A  
 Inverter Type..... Yaskawa V1000  
 Switch..... Magnetic Switch w/Thermal Overload Protection  
 Switch Voltage..... 220V  
 Plug Included..... No  
 Recommended Plug/Outlet Type..... NEMA 6-15

### Motors

#### Spindle

Type..... AEVF Induction  
 Horsepower..... 3 HP  
 Voltage..... 220V  
 Phase..... 3-Phase  
 Amps..... 8.5 A  
 Speed..... 1725 RPM  
 Cycle..... 60 Hz  
 Number of Speeds..... 1  
 Power Transfer ..... Belt Drive  
 Bearings..... Lubricated and Permanently Sealed

## Coolant Pump

Type.....	TE Induction Class F
Horsepower.....	1/8 HP
Voltage.....	220V
Phase.....	Single-Phase
Amps.....	0.45 A
Speed.....	3450 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.....	30 in.
Cross Table Travel.....	12 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.....	0-18 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.....	60-5000 RPM
Number of Longitudinal Feeds.....	Variable
Feed Rate.....	0 - 3-1/3 FPM
Quill Diameter.....	3.375 in.
Quill Feed Rates.....	0.0015, 0.003, 0.006 in./rev.

### Table Info

Table Length.....	48 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.....	1/2-20 in.
Drawbar Length.....	18-1/2 in.
Spindle Bearings.....	Angular Contact P4 (ABEC-7) & Double-Shielded Ball Bearing

**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 ..... 54 db no load @5000 RPM

**Features**

High-Quality, Low-Vibration AEVF Spindle Motor  
P4 (ABEC-7) High-Quality Angular Contact Spindle Bearings  
Powered Recycling Coolant System  
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  
Allen-Bradley Electrical Controls  
Japanese NSK/NTN Bearings  
Table, Knee and Ram are Equipped with Dual Locking Mechanisms  
Serpentine Poly V-Belt  
Turcite Coated Ways  
Meehanite Castings  
Typical South Bend "No Compromises" Fashion