



## Model SB1027 Mill 9" x 48" EVS

### Product Dimensions

Weight..... 2117 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.  
 Space Required for Full Range of Movement (Width x Depth)..... 83-1/2 x 63 in.

### Shipping Dimensions

Type..... Wood Crate  
 Content..... Machine  
 Weight..... 2282 lbs.  
 Length x Width x Height..... 57 x 60 x 79 in.

### Electrical

Power Requirement..... 220V, Single-Phase, 60 Hz  
 Prewired Voltage..... 220V  
 Full-Load Current Rating..... 8.95A  
 Minimum Circuit Size..... 15A  
 Connection Type..... Cord & Plug  
 Power Cord Included..... No  
 Recommended Power Cord..... "S"-Type, 3-Wire, 14 AWG, 300 VAC  
 Plug Included..... No  
 Recommended Plug Type..... 6-15  
 Switch Type..... Control Panel w/Magnetic Switch Protection  
 Inverter (VFD) Type..... Yaskawa V1000  
 Inverter (VFD) Size..... 5 HP

### Motors

#### Main

Horsepower..... 3 HP  
 Phase..... 3-Phase  
 Amps..... 8.5A  
 Speed..... 1725 RPM  
 Type..... AEVF Induction  
 Power Transfer ..... Belt Drive  
 Bearings..... Sealed & Permanently Lubricated  
 Centrifugal Switch/Contacts Type..... N/A

## Coolant Pump

Horsepower.....	1/8 HP
Phase.....	Single-Phase
Amps.....	0.45A
Speed.....	3450 RPM
Type.....	TEFC Capacitor-Start Induction (Class F)
Power Transfer .....	Belt Drive
Bearings.....	Sealed & Permanently Lubricated

## Main Specifications

### Operation Info

Spindle Travel.....	5 in.
Max Distance Spindle to Column.....	19 in.
Max Distance Spindle to Table.....	18 in.
Longitudinal Table Travel (X-Axis).....	30 in.
Cross Table Travel (Y-Axis).....	12 in.
Vertical Table Travel (Z-Axis).....	16 in.
Ram Travel.....	13 in.
Turret or Column Swivel (Left /Right).....	360 deg.
Head Tilt (Left/Right).....	90 deg.
Head Tilt (Front/Back).....	45 deg.
Drilling Capacity for Cast Iron.....	1 in.
Drilling Capacity for Steel.....	3/4 in.
End Milling Capacity.....	1 in.
Face Milling Capacity.....	4 in.

### Table Info

Table Length.....	48 in.
Table Width.....	9 in.
Table Thickness.....	3 in.
Number of T-Slots.....	3
T-Slot Size.....	5/8 in.
T-Slots Centers.....	2-1/2 in.
Number of Longitudinal Feeds.....	Variable
X-Axis Table Power Feed Rate.....	0 – 3.34 FPM
X/Y-Axis Travel per Handwheel Revolution.....	0.200 in.
Z-Axis Travel per Handwheel Revolution.....	0.100 in.

### Spindle Info

Spindle Taper.....	R-8
Number of Vertical Spindle Speeds.....	Variable
Range of Vertical Spindle Speeds.....	60 – 5000 RPM
Quill Diameter.....	3.375 in.
Quill Feed Rates.....	0.0015, 0.003, 0.006 in./rev.
Drawbar Thread Size.....	7/16-20
Drawbar Length.....	18-1/2 in.
Spindle Bearings.....	Angular Contact P4 (ABEC-7) & Double-Shielded Ball Bearing

### Construction

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

**Other**

Country of Origin ..... Taiwan  
Warranty ..... 1 Year  
Approximate Assembly & Setup Time ..... 2 Hours  
Serial Number Location ..... ID Label on Column Right Side  
Sound Rating ..... 54 dB  
ISO 9001 Factory ..... No  
Certified by a Nationally Recognized Testing Laboratory (NRTL) ..... No

**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