



# Product Specifications



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## Model SB1024F 9" x 42" 2 HP Mill with DRO

### Product Dimensions

Weight..... 1984 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.  
Space Required for Full Range of Movement (Width x Depth)..... 81-1/2 x 66 in.

### Shipping Dimensions

Type..... Wood Crate  
Content..... Machine  
Weight..... 2130 lbs.  
Length x Width x Height..... 54 x 54 x 73 in.

### Electrical

Power Requirement..... 220V, Single-Phase, 60 Hz  
Prewired Voltage..... 220V  
Full-Load Current Rating..... 14A  
Minimum Circuit Size..... 20A  
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..... 6-20  
Switch Type..... Control Panel w/Magnetic Switch Protection

### Motors

#### Main

Horsepower..... 2 HP  
Phase..... Single-Phase  
Amps..... 14A  
Speed..... 1720 RPM  
Type..... AEVF Capacitor-Start Induction  
Power Transfer ..... Belt Drive  
Bearings..... Sealed & Permanently Lubricated  
Centrifugal Switch/Contacts Type..... External

## Main Specifications

### Operation Info

Spindle Travel.....	5 in.
Max Distance Spindle to Column.....	19 in.
Max Distance Spindle to Table.....	19 in.
Longitudinal Table Travel (X-Axis).....	23-1/2 in. (29-1/2 in. w/o Power Feed)
Cross Table Travel (Y-Axis).....	13 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.....	42 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 – 4200 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 .....	2 Years
Approximate Assembly & Setup Time .....	1 Hour
Serial Number Location .....	ID Label on Column Right Side
Sound Rating .....	55 dB
ISO 9001 Factory .....	No
Certified by a Nationally Recognized Testing Laboratory (NRTL) .....	No

## **Features**

Fagor DRO  
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  
South Bend Brass Nameplate  
Meehanite Castings  
Typical South Bend "No Compromises" Fashion