



Product Specifications

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Model SB1025F

9" x 42" 2 HP 3-Phase Mill with DRO

Product Dimensions

Weight..... 1937 lbs.
 Width (side-to-side) x Depth (front-to-back) x Height..... 63 x 58 x 81 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..... 2140 lbs.
 Length x Width x Height..... 54 x 54 x 73 in.

Electrical

Power Requirement..... 220V, 3-Phase, 60 Hz
 Prewired Voltage..... 220V
 Full-Load Current Rating..... 6A
 Minimum Circuit Size..... 15A
 Connection Type..... Cord & Plug
 Power Cord Included..... No
 Recommended Power Cord..... "S"-Type, 4-Wire, 14 AWG, 300 VAC
 Plug Included..... No
 Recommended Plug Type..... NEMA L15-20
 Switch Type..... Control Panel w/Magnetic Switch Protection
 Recommended Phase Converter..... G5844

Motors

Main

Horsepower..... 2 HP
 Phase..... 3-Phase
 Amps..... 6A/5.6A
 Speed..... 3440 / 1720 RPM
 Type..... AEVF Induction
 Power Transfer Belt Drive
 Bearings..... Sealed & Permanently Lubricated
 Centrifugal Switch/Contacts Type..... N/A

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).....	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.....	16
Range of Vertical Spindle Speeds.....	80 – 5600 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

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