



Model SB1027F

9" x 48" Electronic Variable-Speed 3 HP Turret Mill with DRO

Product Dimensions

Weight..... 2173 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..... 2365 lbs.
Length x Width x Height..... 57 x 60 x 77 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 GA500
Inverter (VFD) Size..... 5 HP

Motors

Main

Horsepower..... 3 HP
Phase..... 3-Phase
Amps..... 8.5A
Speed..... 1720 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.....	3440 RPM
Type.....	TEFC Capacitor-Start Induction (Class F)
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.....	6 – 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 2 Years
Approximate Assembly & Setup Time 1 Hour
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

Fagor DRO
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