



Product Specifications

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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