



Model SB1025

9" x 42" Milling Machine w/Power Feed

Product Dimensions:

Weight 1920 lbs.
 Length/Width/Height 63" x 58" x 81"
 Foot Print (Length/Width) 36" x 24"

Shipping Dimensions:

Type..... Wood Crate
 Content..... Machine
 Weight 2160 lbs.
 Length/Width/Height 55" x 55" x 74"

Electrical:

Required Power Source 220V, 3-Phase, 60 Hz
 Switch Two-Speed Forward/Reverse
 Switch Voltage 220V
 Minimum Circuit Size 15 Amp
 Plug Included No
 Recommended Plug NEMA 15-15

Motor:

Type..... AEVF Induction
 Horsepower 2 HP
 Voltage 220V
 Phase 3-Phase
 Amps..... 6/5.6 Amps
 Number Of Speeds..... 2
 Speeds 3450/1725 RPM
 Cycle 60 Hz
 Power Transfer Belt Drive
 Bearings Lubricated and Permanently Sealed

Main Specifications:

Operation Information

Spindle Travel..... 5"
 Longitudinal Table Travel w/Power Feed 24½"
 Longitudinal Table Travel w/o Power Feed 29½"
 Cross Table Travel..... 13"
 Vertical Table Travel..... 16"
 Ram Travel..... 13"
 Ram Swivel..... 180°
 Head Tilt..... 45° Forward, 45° Back
 Head Swivel..... 90° Right, 90° Left

Operation Information (continued)

| | |
|---|-------------------------------|
| Distance Range Spindle to Column | 6"–19" |
| Distance Range Spindle to Table | 0"–18" |
| Drilling Capacity for Cast Iron | 1" |
| Drilling Capacity for Steel | $\frac{3}{4}$ " |
| Number of Spindle Speeds | 16 |
| Low Range of Spindle Speeds w/Motor @ 1725 RPM | 80, 140, 220, 325 RPM |
| Low Range of Spindle Speeds w/Motor @ 3450 RPM | 160, 280, 440, 650 RPM |
| High Range of Spindle Speeds w/Motor @ 1725 RPM | 710, 1170, 1860, 2800 RPM |
| High Range of Spindle Speeds w/Motor @ 3450 RPM | 1420, 2340, 3720, 5600 RPM |
| Number of Longitudinal Feed Rates | Variable |
| Longitudinal Feed Rate Range | 0– $3\frac{1}{2}$ FPM |
| Quill Diameter | 3.375" |
| Number of Quill Auto-Feed Rates | 3 |
| Quill Auto-Feed Rates | 0.0015, 0.003, 0.006 in./rev. |

Table Information

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|--|----------------------|
| Length/Width/Thickness | 42" x 9" x 3" |
| Number of T-Slots | 3 |
| T-Slot Width/Height | $\frac{5}{8}$ " x 1" |
| T-Slot Distance Center-to-Center | 2 $\frac{1}{2}$ " |
| Stud Size | $\frac{1}{2}$ " |

Spindle Information

| | |
|-----------------------------|--|
| Spindle Taper | R8 |
| End Milling Capacity | 1" |
| Face Milling Capacity | 4" |
| Draw Bar Diameter/TPI | $\frac{1}{2}$ "-20 |
| Draw Bar Length | 18 $\frac{1}{2}$ " |
| Spindle Bearing Type | Angular Contact P4 (ABEC-7) & Double-Shielded Ball Bearing |
| Spindle Diameter | 1 $\frac{13}{16}$ " |

Construction

| | |
|---------------------|---------------------------------------|
| Quill | Chromed Steel |
| Table | Hardened & Precision-Ground Cast Iron |
| Headstock | Meehanite Cast Iron |
| Column & Base | Meehanite Cast Iron |
| Knee & Saddle | Meehanite Cast Iron |
| Paint | Urethane |

Other Specifications

| | |
|--|---------------------------------------|
| Machine No-Load Sound Level @ 3500 RPM | 55 dB |
| Country of Origin | Taiwan |
| Warranty | 1 Year |
| Serial Number Location | Machine ID Label On Column Right Side |
| Customer Setup & Cleaning Time | 1–2 Hours |

Features

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