



# MACHINE DATA SHEET

Customer Service #: (570) 546-9663 · To Order Call: (800) 523-4777 · Fax #: (800) 438-5901

## MODEL G3103 VERTICAL MILL W/ TABLE POWER FEED

### Product Dimensions:

Weight..... 900 lbs.  
 Width (side-to-side) x Depth (front-to-back) x Height..... 45-1/2 x 41 x 66-5/8 in.  
 Footprint (Length x Width)..... 27-1/2 x 21 in.  
 Space Required for Full Range of Movement (Width x Depth)..... 60 x 42 in.

### Shipping Dimensions:

Type..... Wood Crate  
 Content..... Machine  
 Weight..... 926 lbs.  
 Length x Width x Height..... 37 x 41 x 75 in.  
 Must Ship Upright..... Yes

### Electrical:

Power Requirement..... 110V or 220V, Single-Phase, 60 Hz  
 Prewired Voltage..... 110V  
 Full-Load Current Rating..... 16A at 110V, 8A at 220V  
 Minimum Circuit Size..... 20A at 110V, 15A at 220V  
 Connection Type..... Cord & Plug  
 Power Cord Included..... Yes  
 Power Cord Length..... 6 ft.  
 Power Cord Gauge..... 14 AWG  
 Plug Included..... Yes  
 Included Plug Type..... 5-15 for 110V  
 Recommended Plug Type..... 6-15 for 220V  
 Switch Type..... ON/OFF Push Button Switch w/Safety Cover

### Motors:

#### Main

Horsepower..... 1.5 HP  
 Phase..... Single-Phase  
 Amps..... 16A/8A  
 Speed..... 1720 RPM  
 Type..... TEFC Capacitor-Start Induction  
 Power Transfer ..... V-Belt Drive  
 Bearings..... Shielded & Permanently Lubricated  
 Centrifugal Switch/Contacts Type..... Internal

**Main Specifications:**

**Operation Info**

Spindle Travel.....	3 in.
Max Distance Spindle to Column.....	5-1/2 in.
Max Distance Spindle to Table.....	12-1/2 in.
Longitudinal Table Travel (X-Axis).....	15-5/8 in.
Cross Table Travel (Y-Axis).....	6 in.
Vertical Table Travel (Z-Axis).....	14 in.
Vertical Head Travel (Z-Axis).....	2-1/2 in.
Turret or Column Swivel (Left/Right).....	45 deg.
Head Tilt (Left/Right).....	45 deg.
Drilling Capacity for Cast Iron.....	1 in.
Drilling Capacity for Steel.....	3/4 in.
End Milling Capacity.....	3/4 in.
Face Milling Capacity.....	3 in.

**Table Info**

Table Length.....	26 in.
Table Width.....	6-1/8 in.
Table Thickness.....	1-3/4 in.
Number of T-Slots.....	3
T-Slot Size.....	0.56 in.
T-Slots Centers.....	1-9/16 in.
Number of Longitudinal Feeds.....	Variable
X-Axis Table Power Feed Rate.....	0 – 11.67 FPM
X/Y-Axis Travel per Handwheel Revolution.....	0.125 in.
Z-Axis Travel per Handwheel Revolution.....	0.062 in.

**Spindle Info**

Spindle Taper.....	R-8
Number of Vertical Spindle Speeds.....	9
Range of Vertical Spindle Speeds.....	240 – 2760 RPM
Quill Diameter.....	2.950 in.
Drawbar Thread Size.....	7/16-20
Drawbar Length.....	12-1/4 in.
Spindle Bearings.....	Tapered Roller Bearings

**Construction**

Spindle Housing/Quill.....	Cast Iron
Table.....	Surface Ground Cast Iron
Head.....	Cast Iron
Column/Base.....	Cast Iron
Base.....	Cast Iron
Stand.....	Steel
Paint Type/Finish.....	Enamel

**Other**

Recommended Mobile Base.....	D2058A
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**Other Specifications:**

Country of Origin .....	China
Warranty .....	1 Year
Approximate Assembly & Setup Time .....	1 Hour
ISO 9001 Factory .....	No
Certified by a Nationally Recognized Testing Laboratory (NRTL) .....	No

**Features:**

- High-Precision Ground Vertical and Cross Ways
- Milling Head Micro-Feed
- Lower Noise and Convenient Operation
- Built-In Work Light
- Servo-Type Variable Speed Power Feed Unit with Limit Switches
- Extended Lead Screw on the X-Axis

**Accessories Included:**

- Arbor
- Drawbar
- End Mill
- Inner Hexagon Spanner
- Oil Gun
- Tool Box
- Two Head Wrench