



# MACHINE DATA SHEET

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

## MODEL G0616 12" X 51" 3-PHASE HORIZONTAL / VERTICAL MILLING MACHINE

### Product Dimensions:

Weight..... 4410 lbs.  
Width (side-to-side) x Depth (front-to-back) x Height..... 67-3/8 x 67-3/4 x 91-3/4 in.  
Footprint (Length x Width)..... 45 x 27-1/2 in.

### Shipping Dimensions:

Type..... Wood Crate  
Content..... Machine  
Weight..... 4719 lbs.  
Length x Width x Height..... 72 x 71 x 89 in.  
Must Ship Upright..... Yes

### Electrical:

Power Requirement..... 220V, 3-Phase, 60 Hz  
Prewired Voltage..... 220V  
Full-Load Current Rating..... 14A  
Minimum Circuit Size..... 20A  
Connection Type..... Cord & Plug  
Power Cord Included..... Yes  
Power Cord Length..... 6 ft.  
Power Cord Gauge..... 10 AWG  
Plug Included..... No  
Switch Type..... Rotary ON/OFF  
Recommended Phase Converter..... G5845

### Motors:

#### Horizontal Spindle

Horsepower..... 3 HP  
Phase..... 3-Phase  
Amps..... 9A  
Speed..... 1725 RPM  
Type..... TEFC Induction  
Power Transfer ..... Belt Drive  
Bearings..... Shielded & Permanently Lubricated  
Centrifugal Switch/Contacts Type..... N/A

#### Vertical Spindle

Horsepower..... 3 HP  
Phase..... 3-Phase  
Amps..... 9A  
Speed..... 1725 RPM  
Type..... TEFC Induction  
Power Transfer ..... Gear Drive  
Bearings..... Shielded & Permanently Lubricated  
Centrifugal Switch/Contacts Type..... N/A

**Feed**

Horsepower.....	135 in./lb.
Phase.....	Single-Phase
Amps.....	2A
Speed.....	0.2 – 36 in. / min.
Type.....	Universal
Power Transfer .....	Gear Drive
Bearings.....	Shielded & Permanently Lubricated
Centrifugal Switch/Contacts Type.....	N/A

**Table Elevation**

Horsepower.....	1 HP
Phase.....	3-Phase
Amps.....	4A
Speed.....	875 RPM
Type.....	TEFC Induction
Power Transfer .....	Gear Drive
Bearings.....	Shielded & Permanently Lubricated
Centrifugal Switch/Contacts Type.....	N/A

**Coolant Pump**

Horsepower.....	0.12 HP
Phase.....	3-Phase
Amps.....	1A
Speed.....	12 liters / min.
Type.....	TEFC Induction
Power Transfer .....	Gear Drive
Bearings.....	Shielded & Permanently Lubricated
Centrifugal Switch/Contacts Type.....	N/A

**Main Specifications:**

**Operation Info**

Spindle Travel.....	4-7/8 in.
Max Distance Spindle to Column.....	30-5/8 in.
Max Distance Spindle to Table.....	22-3/4 in.
Maximum Distance Horizontal Spindle Center to Table.....	18-1/2 in.
Longitudinal Table Travel (X-Axis).....	26-3/8 in.
Cross Table Travel (Y-Axis).....	10-1/16 in.
Vertical Table Travel (Z-Axis).....	15-3/4 in.
Vertical Head Travel (Z-Axis).....	5 in.
Ram Travel.....	30-5/8 in.
Turret or Column Swivel (Left/Right).....	360 deg.
Head Tilt (Left/Right).....	90 deg.
Drilling Capacity for Cast Iron.....	1-1/8 in.
Drilling Capacity for Steel.....	3/4 in.
End Milling Capacity.....	1 in.
Face Milling Capacity.....	3-1/8 in.

**Table Info**

Table Length.....	51-5/8 in.
Table Width.....	12-5/8 in.
Table Thickness.....	4-3/4 in.
Table Weight Capacity.....	440 lbs.
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.....	0.2 – 3 FPM
X/Y-Axis Travel per Handwheel Revolution.....	0.200 in.
Z-Axis Travel per Handwheel Revolution.....	0.100 in.

**Spindle Info**

Spindle Taper.....	R8
Number of Vertical Spindle Speeds.....	8
Range of Vertical Spindle Speeds.....	108 – 2400 RPM
Quill Diameter.....	3.540 in.
Quill Feed Rates.....	0.003, 0.006, 0.010 in./rev.
Drawbar Thread Size.....	3/8
Drawbar Length.....	19-5/8 in.
Spindle Bearings.....	Tapered Roller Bearings
Horizontal Spindle Taper.....	R-8
Horizontal Spindle Sizes.....	1, 1-1/4 in.
Number of Horizontal Spindle Speeds.....	12
Range of Horizontal Spindle Speeds.....	48 – 1560 RPM
Horizontal Spindle Bearing Type.....	Tapered Roller Bearings

**Construction**

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

**Other Specifications:**

Country of Origin .....	China
Warranty .....	1 Year
Approximate Assembly & Setup Time .....	30 Minutes
Serial Number Location .....	ID Label on Head Casting
ISO 9001 Factory .....	No
Certified by a Nationally Recognized Testing Laboratory (NRTL) .....	No

**Features:**

- Centralized Control Panel
- Auxiliary Forward/Reverse/Stop for Vertical Spindles
- Job Button for Horizontal Spindle
- 3-Axis Powerfeed Including Knee
- Adjustable Limit Switches for All 3 Axis
- Power Down Feed on Quill with 3 Feed Rates
- Quill Auto-Stop and Return
- Power Tapping Feature with Auto-Reverse

**Accessories Included:**

- 1 in. Horizontal Arbor with Spacers
- 1-1/4 in. Horizontal Arbor with Spacers
- 5/8 in. Drill Chuck with Arbor
- 6 in. Machine Vise
- R-8 to MT#2 Adapter Sleeve
- R-8 to MT#3 Adapter Sleeve
- Set of 13 R-8 Collets, 1/8 - 7/8" by 1/16"
- Two Draw Bars
- Wrenches