



# 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.  
Length/Width/Height..... 67-3/8 x 67-3/4 x 91-3/4 in.  
Foot Print (Length/Width)..... 45 x 27-1/2 in.

### Shipping Dimensions:

Type..... Wood Crate  
Content..... Machine  
Weight..... 4730 lbs.  
Length/Width/Height..... 68 x 68 x 92 in.

### Electrical:

Switch..... Rotary ON/OFF  
Switch Voltage..... 220V  
Cord Length..... 6 ft.  
Cord Gauge..... 10 guage  
Minimum Circuit Size..... 20 amp  
Plug Included..... No  
Phase Converter..... G5845

### Motors:

#### Vertical Spindle

Type..... TEFC Induction  
Horsepower..... 3 HP  
Voltage..... 220V  
Prewired..... 220V  
Phase..... Three  
Amps..... 9A  
Speed..... 1725 RPM  
Cycle..... 60 Hz  
Number Of Speeds..... 1  
Power Transfer ..... Gear Drive  
Bearings..... Shielded and Lubricated

#### Table Elevation

Type..... TEFC Induction  
Horsepower..... 1 HP  
Voltage..... 220V  
Prewired..... 220V  
Phase..... Three  
Amps..... 4A  
Speed..... 875 RPM  
Cycle..... 60 Hz  
Number Of Speeds..... 1  
Power Transfer ..... Gear  
Bearings..... Shielded and Lubricated

**Longitudinal and Cross Feed**

Type.....Asong-235  
Horsepower..... 135 in./lb.  
Voltage..... 110V  
Prewired..... 110V  
Phase..... Single  
Amps.....2A  
Speed..... 0.2 36 in./min.  
Cycle..... 60 Hz  
Number Of Speeds..... Variable  
Power Transfer ..... Gear Drive  
Bearings..... Shielded and Lubricated

**Horizontal Spindle**

Type..... TEFC Induction  
Horsepower..... 3 HP  
Voltage.....220V  
Prewired.....220V  
Phase.....Three  
Amps......9A  
Speed..... 1725 RPM  
Cycle..... 60 Hz  
Number Of Speeds..... 1  
Power Transfer ..... Belt and Gear Drive  
Bearings..... Shielded and Lubricated

**Coolant**

Type..... TEFC Induction  
Horsepower..... 0.12 HP  
Voltage.....220V  
Prewired.....220V  
Phase.....Three  
Amps......1A  
Speed..... 12 Liters per min.  
Cycle..... 60 Hz  
Number Of Speeds..... 1  
Power Transfer ..... Gear  
Bearings..... Shielded and Lubricated

## Main Specifications:

### Operation Info

Spindle Travel.....	4-7/8 in.
Swing.....	.61 in.
Longitudinal Table Travel.....	26-3/8 in.
Cross Table Travel.....	10-1/16 in.
Vert. Table Travel.....	15-3/4 in.
Knee Travel.....	15-3/4 in.
Ram Travel.....	30-5/8 in.
Ram Swivel Angle.....	360 deg.
Head Travel.....	5 in.
Head Swivel.....	Left and Right 90 deg.
Head Tilt.....	Front & Back 45 deg.
Turret Or Column Swivel.....	360 deg.
Max. Dist Spindle To Column.....	30-5/8 in.
Max. Dist Spindle To Table.....	22-3/4 in.
Drilling Cap For Cast Iron.....	1-1/8 in.
Drilling Cap For Steel.....	3/4 in.
Max. Dist Horz. Spindle Center To Table.....	18-1/2 in.
No. Of Vert. Spindle Speeds.....	8
Range Of Vert. Spindle Speeds.....	108, 192, 317, 468, 552, 828, 1356, 2400 RPM
No. Of Horz. Spindle Speeds.....	12
Range Of Horz. Spindle Speeds.....	48, 72, 96, 132, 180, 240, 324, 456, 612, 816, 1140, 1560 RPM
No. Of Longitudinal Feeds.....	Variable
Feed Rate.....	0.2 - 36 in./min.
Quill Dia.....	3.540 in.
Quill Feed Rates.....	0.003, 0.006, 0.010 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.
No. Of T Slots.....	3
T Slots Width.....	5/8 in.
T Slots Height.....	5/8 in.
T Slots Centers.....	2-1/2 in.
Stud Size.....	1/2 in.

### Spindle Info

Spindle Taper.....	R-8
End Milling Cap.....	1 in.
Face Milling Cap.....	3-1/8 in.
Draw Bar Diameter.....	3/8 in.
Draw Bar TPI.....	20
Draw Bar Length.....	19-5/8 in.
Spindle Bearings.....	Taper Roller
Horz. Spindle Taper.....	R-8
Horz. Spindle Sizes.....	1, 1-1/4 in.
Horz. Spindle Bearing Type.....	Taper Roller

### Lead Screw Info

Lead Screw Diameter.....	1.115 in.
Lead Screw TPI.....	5
Lead Screw Length.....	62 in.

**Construction**

Spindle Housing Const..... Cast Iron  
Table Const..... Ground Cast Iron  
Head Const..... Cast Iron  
Column Const..... Cast Iron  
Base Const..... Cast Iron  
Paint..... Powder Coat

**Other**

Collars Calibrated.....0.200 in. per rev.

**Other Specifications:**

Country Of Origin ..... China  
Warranty ..... 1 Year  
Serial Number Location ..... ID Label on Head Casting  
Assembly Time ..... 30 min.

**Features:**

- Centralized Control Panel
- Auxillary Forwar/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