# MACHINE DATA SHEET

**MODEL G0509G 16" X 40" 3-PHASE GUNSMITHING METAL LATHE**

## Product Dimensions:
- Weight: 2976 lbs.
- Width (side-to-side) x Depth (front-to-back) x Height: 76-3/8 x 33-7/16 x 51-3/16 in.
- Footprint (Length x Width): 76 x 21-1/2 in.

## Shipping Dimensions:
- Type: Machine
- Content: Machine
- Weight: 3300 lbs.
- Length x Width x Height: 33 x 81 x 66 in.
- Must Ship Upright: Yes

## Electrical:
- Power Requirement: 220V, 3-Phase, 60 Hz
- Prewired Voltage: 220V
- Full-Load Current Rating: 17.45A
- Minimum Circuit Size: 20A
- Connection Type: Cord & Plug
- Power Cord Included: No
- Recommended Power Cord: "S"-Type, 4-Wire, 12 AWG, 300 VAC
- Plug Included: No
- Recommended Plug Type: L15-30
- Switch Type: Control Panel w/Magnetic Switch Protection
- Recommended Phase Converter: G7978

## Motors:

### Main
- Horsepower: 4 HP / 3 HP
- Phase: 3-Phase
- Amps: 17A/8.5A
- Speed: 1750 / 875 RPM
- Type: TEFC Induction
- Power Transfer: Belt Drive
- Bearings: Shielded & Permanently Lubricated
- Centrifugal Switch/Contacts Type: N/A

## Coolant Pump
- Horsepower: 1/8 HP
- Phase: 3-Phase
- Amps: 0.45A
- Speed: 3450 RPM
- Type: TEFC Induction
- Power Transfer: Direct Drive
- Bearings: Shielded & Permanently Lubricated
- Centrifugal Switch/Contacts Type: N/A

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*The information contained herein is deemed accurate as of 7/11/2019 and represents our most recent product specifications. Due to our ongoing improvement efforts, this information may not accurately describe items previously purchased.*
### Main Specifications:

**Operation Info**
- Swing Over Bed: 16 in.
- Distance Between Centers: 40 in.
- Swing Over Cross Slide: 10 in.
- Swing Over Saddle: 14-3/4 in.
- Swing Over Gap: 22 in.
- Maximum Tool Bit Size: 3/4 in.
- Compound Travel: 5-1/2 in.
- Carriage Travel: 33 in.
- Cross Slide Travel: 8-1/2 in.

**Headstock Info**
- Spindle Bore: 2.0625 in.
- Spindle Taper: MT#6
- Number of Spindle Speeds: 16
- Spindle Speeds: 45 – 1800 RPM
- Spindle Type: D1-6 Camlock
- Spindle Bearings: High-Precision Tapered Roller
- Spindle Length: 19-1/2 in.
- Spindle Length with 3-Jaw Chuck: 25-5/8 in.
- Spindle Length with 4-Jaw Chuck: 23-3/4 in.
- Spindle Length with Faceplate: 21-3/4 in.

**Tailstock Info**
- Tailstock Quill Travel: 4-3/4 in.
- Tailstock Taper: MT#4
- Tailstock Barrel Diameter: 2 in.

**Threading Info**
- Number of Longitudinal Feeds: 17
- Range of Longitudinal Feeds: 0.002 – 0.067 in./rev.
- Number of Cross Feeds: 17
- Range of Cross Feeds: 0.0011 – 0.038 in./rev
- Number of Inch Threads: 45
- Range of Inch Threads: 2 – 72 TPI
- Number of Metric Threads: 39
- Range of Metric Threads: 0.2 – 14.0 mm
- Number of Modular Pitches: 18
- Range of Modular Pitches: 0.3 – 3.5 MP
- Number of Diametral Pitches: 21
- Range of Diametral Pitches: 8 – 44 DP

**Dimensions**
- Bed Width: 10 in.
- Carriage Leadscrew Diameter: 1.120 in.
- Leadscrew TPI: 4 TPI
- Carriage Leadscrew Length: 54 in.
- Steady Rest Capacity: 1/2 – 4-1/2 in.
- Follow Rest Capacity: 1/2 – 2-1/2 in.
- Faceplate Size: 14 in.
- Feed Rod Diameter: 3/4 in.
- Floor to Center Height: 47 in.
- Height With Leveling Jacks: 53-1/2 in.
Construction

Base ................................................................. Cast Iron
Headstock ............................................................... Cast Iron
End Gears ................................................................. Flame Hardened Steel
Bed ............................................................... Induction-Hardened, Precision-Ground Cast Iron
Body ................................................................. Cast Iron
Stand ................................................................. Cast Iron
Paint Type/Finish ............................................................... Epoxy

Fluid Capacities

- Headstock Capacity ............................................... 6.5 qt.
- Headstock Fluid Type ........................................ ISO 32 (eg. Grizzly T23963, Mobil DTE Light)
- Gearbox Capacity ................................................. 1.9 qt.
- Gearbox Fluid Type .......................................... ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
- Apron Capacity ......................................................... 1.4 qt.
- Apron Fluid Type ................................................ ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
- Coolant Capacity ................................................... 15.85 qt.

Other Specifications:

- Country of Origin ................................................................. China
- Warranty ................................................................. 1 Year
- Approximate Assembly & Setup Time ................................ 2 Hours
- Serial Number Location .................................................. ID Label on Front of Headstock
- ISO 9001 Factory ................................................................. No
- Certified by a Nationally Recognized Testing Laboratory (NRTL) ......................................................... No

Features:

- Totally Enclosed Universal Gearbox Allows Cutting of Inch, Metric, Whitworth, Modular and Diametral Threads
- Headstock Gears Run in an Oil Bath and are Hardened and Precision-Ground for Smooth, Quiet and Vibration-Reduced Operation
- Dual Inch/Metric Dials
- Halogen Light
- Coolant System
- Full Length Splash Guard
- Steady Rest and Follow Rest have Roller Tips
- Dual Coolant Nozzles for Chambering Barrels
- Extra Long Tailstock for Support
- Tailstock can be Tightened with a Torque Wrench for Precise Alignment of Centers (1/2" SQ Drive)
- Four Brass Tipper Bolts for Supporting Gun Barrels
- Length Through Spindle with Face Plate Mounted - 21-3/4"
- Length Through Spindle with 4-Jaw Chuck Mounted - 24-7/16"
- Spindle Length - 20-1/2"
- Minimum Gun Barrel Length Through Spindle Using 4-Jaw Chuck 26"
- Precision-Ground and Hardened V-bed

Accessories Included:

- #4 to 6 Morse Taper Spindle Nose Sleeve
- 12" 4-Jaw Chuck
- 14" Face Plate
- 8" 3-Jaw Chuck
- Center Sleeve
- Centers
- Follow Rest with Roller Tips
- MT#4 Dead Center
- Quick Change Tool Post
- Service Tools
- Steady Rest with Roller Tips
- Toolbox