



# MACHINE DATA SHEET

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

## MODEL G4003 12" X 36" GEARHEAD METAL LATHE

### Product Dimensions:

Weight..... 917 lbs.  
Width (side-to-side) x Depth (front-to-back) x Height..... 61 x 23 x 23 in.  
Footprint (Length x Width)..... 61 x 23 in.

### Shipping Dimensions:

Type..... Wood Crate  
Content..... Machine  
Weight..... 1020 lbs.  
Length x Width x Height..... 29 x 66 x 29 in.  
Must Ship Upright..... Yes

### Electrical:

Power Requirement..... 220V, Single-Phase, 60 Hz  
Prewired Voltage..... 220V  
Full-Load Current Rating..... 12A  
Minimum Circuit Size..... 15A  
Connection Type..... Cord & Plug  
Power Cord Included..... No  
Recommended Power Cord..... "S"-Type, 3-Wire, 14 AWG, 300 VAC  
Plug Included..... No  
Recommended Plug Type..... 6-15  
Switch Type..... Control Panel w/Magnetic Switch Protection

### Motors:

#### Main

Horsepower..... 2 HP  
Phase..... Single-Phase  
Amps..... 8.5A  
Speed..... 1725 RPM  
Type..... TEFC Capacitor-Start Induction  
Power Transfer ..... Belt Drive  
Bearings..... Shielded & Permanently Lubricated  
Centrifugal Switch/Contacts Type..... Internal

### Main Specifications:

#### Operation Info

Swing Over Bed..... 12 in.  
Distance Between Centers..... 36 in.  
Swing Over Cross Slide..... 7 in.  
Swing Over Saddle..... 7 in.  
Maximum Tool Bit Size..... 5/8 in.  
Compound Travel..... 3-1/4 in.  
Carriage Travel..... 30-1/2 in.  
Cross Slide Travel..... 6-1/4 in.

## Headstock Info

|                                      |                |
|--------------------------------------|----------------|
| Spindle Bore.....                    | 1.417 in.      |
| Spindle Taper.....                   | MT#5           |
| Number of Spindle Speeds.....        | 9              |
| Spindle Speeds.....                  | 70 – 1400 RPM  |
| Spindle Type.....                    | D1-4 Camlock   |
| Spindle Bearings.....                | Tapered Roller |
| Spindle Length.....                  | 16 in.         |
| Spindle Length with 3-Jaw Chuck..... | 20-3/4 in.     |
| Spindle Length with 4-Jaw Chuck..... | 20-3/8 in.     |

## Tailstock Info

|                                |           |
|--------------------------------|-----------|
| Tailstock Quill Travel.....    | 4 in.     |
| Tailstock Taper.....           | MT#3      |
| Tailstock Barrel Diameter..... | 1.570 in. |

## Threading Info

|                                   |                          |
|-----------------------------------|--------------------------|
| Number of Longitudinal Feeds..... | 40                       |
| Range of Longitudinal Feeds.....  | 0.0011 – 0.0310 in./rev. |
| Number of Cross Feeds.....        | 40                       |
| Range of Cross Feeds.....         | 0.0004 – 0.0105 in./rev  |
| Number of Inch Threads.....       | 40                       |
| Range of Inch Threads.....        | 4 – 112 TPI              |
| Number of Metric Threads.....     | 29                       |
| Range of Metric Threads.....      | 0.2 – 4.5 mm             |

## Dimensions

|                                  |           |
|----------------------------------|-----------|
| Bed Width.....                   | 7-1/4 in. |
| Carriage Leadscrew Diameter..... | 0.870 in. |
| Leadscrew TPI.....               | 8 TPI     |
| Carriage Leadscrew Length.....   | 44 in.    |
| Steady Rest Capacity.....        | 2 in.     |
| Follow Rest Capacity.....        | 1 in.     |
| Faceplate Size.....              | 10 in.    |
| Feed Rod Diameter.....           | 3/4 in.   |

## Other

|                     |       |
|---------------------|-------|
| Optional Stand..... | G4005 |
|---------------------|-------|

## Construction

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

## Fluid Capacities

|                           |                                                 |
|---------------------------|-------------------------------------------------|
| Headstock Capacity.....   | 3.5 qt.                                         |
| Headstock Fluid Type..... | ISO 32 (eg. Grizzly T23963, Mobil DTE Light)    |
| Gearbox Capacity.....     | 1 – 2 Pumps                                     |
| Gearbox Fluid Type.....   | ISO 68 (SB1365, Grizzly T23962, Mobil Vactra 2) |
| Apron Capacity.....       | 0.5 qt.                                         |
| Apron Fluid Type.....     | ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)     |

## Other Specifications:

|                                         |          |
|-----------------------------------------|----------|
| Country of Origin .....                 | China    |
| Warranty .....                          | 1 Year   |
| Approximate Assembly & Setup Time ..... | 1 Hour   |
| Serial Number Location .....            | ID Label |

**Features:**

- Carriage-Mounted On/Off Control Lever
- Easy To Use Lever Controls
- Full Length Splash Guard
- Hardened and Ground Cast-Iron Bed
- Threading Dial
- Compatible with G7028, G7029, G7030, & G7031, tool holders

**Accessories Included:**

- 6" 3-Jaw Chuck w/2 Sets of Jaws
- 8" 4-Jaw Chuck w/Reversible Jaws
- 10" Faceplate
- Steady Rest
- Follow Rest
- Quick-Change Tool Post w/Holder
- 4-Piece Insert Tool Holder Set
- Set of Seven Change Gears
- Dead Center MT#3 HSS Tip
- Dead Center MT#3 Carbide Tip
- Live Center MT#3
- 1/2" Drill Chuck w/MT#3 Arbor
- Spindle Sleeve MT#5/MT#3
- Oil Can
- Toolbox

**Accessories Recommended:**

- G4005 Lathe Stand for G4003
- T10556 Taper Attachment Kit for G4002/G4003/G4003G