



# MACHINE DATA SHEET

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

## MODEL G9731 13" X 40" PRECISION TOOL ROOM LATHE, 3 HP 220V 3-PHASE

### Product Dimensions:

Weight..... 1475 lbs.  
Width (side-to-side) x Depth (front-to-back) x Height..... 70 x 23-1/2 x 50 in.  
Footprint (Length x Width)..... 71 x 22 in.

### Shipping Dimensions:

Type..... Wood Crate  
Content..... Machine  
Weight..... 1597 lbs.  
Length x Width x Height..... 30 x 73 x 62 in.  
Must Ship Upright..... Yes

### Electrical:

Power Requirement..... 220V, 3-Phase, 60 Hz  
Prewired Voltage..... 220V  
Full-Load Current Rating..... 7.5A  
Minimum Circuit Size..... 15A  
Plug Included..... No  
Switch Type..... Magnetic Switch w/Thermal Overload Protection  
Recommended Phase Converter..... G7978

### Motors:

#### Main

Horsepower..... 3 HP  
Phase..... 3-Phase  
Amps..... 7.5A  
Speed..... 1725 RPM  
Type..... TEFC Induction  
Power Transfer ..... Belt Drive  
Bearings..... Shielded & Permanently Lubricated  
Centrifugal Switch/Contacts Type..... N/A

### Main Specifications:

#### Operation Info

Swing Over Bed..... 13 in.  
Distance Between Centers..... 40 in.  
Swing Over Cross Slide..... 7-1/2 in.  
Swing Over Saddle..... 8 in.  
Swing Over Gap..... 19.5 in.  
Maximum Tool Bit Size..... 1/2 in.  
Compound Travel..... 3-3/4 in.  
Carriage Travel..... 35 in.  
Cross Slide Travel..... 5-3/4 in.

### Headstock Info

|                                      |                |
|--------------------------------------|----------------|
| Spindle Bore.....                    | 1.375 in.      |
| Spindle Taper.....                   | MT#4.5         |
| Number of Spindle Speeds.....        | 8              |
| Spindle Speeds.....                  | 105 – 2000 RPM |
| Spindle Type.....                    | D1-4 Camlock   |
| Spindle Bearings.....                | Tapered Roller |
| Spindle Length.....                  | 16-1/4 in.     |
| Spindle Length with 3-Jaw Chuck..... | 21-3/4 in.     |
| Spindle Length with 4-Jaw Chuck..... | 20-3/8 in.     |

### Tailstock Info

|                                |            |
|--------------------------------|------------|
| Tailstock Quill Travel.....    | 4-5/16 in. |
| Tailstock Taper.....           | MT#3       |
| Tailstock Barrel Diameter..... | 1.56 in.   |

### Threading Info

|                                   |                          |
|-----------------------------------|--------------------------|
| Number of Longitudinal Feeds..... | 24                       |
| Range of Longitudinal Feeds.....  | 0.0015 – 0.0100 in./rev. |
| Number of Cross Feeds.....        | 24                       |
| Range of Cross Feeds.....         | 0.0005 – 0.0035 in./rev  |
| Number of Inch Threads.....       | 32                       |
| Range of Inch Threads.....        | 4 – 56 TPI               |
| Number of Metric Threads.....     | 14                       |
| Range of Metric Threads.....      | 0.5 – 6.0 mm             |

### Dimensions

|                                  |           |
|----------------------------------|-----------|
| Bed Width.....                   | 7-1/2 in. |
| Carriage Leadscrew Diameter..... | 7/8 in.   |
| Leadscrew TPI.....               | 8 TPI     |
| Carriage Leadscrew Length.....   | 50 in.    |
| Steady Rest Capacity.....        | 2-1/2 in. |
| Follow Rest Capacity.....        | 2-1/2 in. |
| Faceplate Size.....              | 10 in.    |
| Feed Rod Diameter.....           | 3/4 in.   |
| Floor to Center Height.....      | 44 in.    |

### Construction

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

### Fluid Capacities

|                           |  |
|---------------------------|--|
| Headstock Capacity.....   | 7.4 qt.                                      |
| Headstock Fluid Type..... | ISO 32 (eg. Grizzly T23963, Mobil DTE Light) |
| Gearbox Capacity.....     | 1 qt.  |
| Gearbox Fluid Type.....   | ISO 32 (eg. Grizzly T23963, Mobil DTE Light) |
| Apron Capacity.....       | 1 qt.  |
| Apron Fluid Type.....     | ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)  |
| Coolant Capacity.....     | 9 qt.  |

**Other Specifications:**

Country of Origin ..... Taiwan  
Warranty ..... 1 Year

Serial Number Location ..... ID Label on Right Back Side Machine Body (Machine's Electrical Control Panel)  
ISO 9001 Factory ..... Yes  
Certified by a Nationally Recognized Testing Laboratory (NRTL) ..... No

**Features:**

- Built-in Stand
- Coolant System
- Emergency Stop
- Feed Rod is Equipped with an Overload Clutch for Safety
- Foot Brake
- Full Length Splash Guard
- Hardened and Ground Gears in Headstock
- Headstock Gears Run in an Oil Bath
- Inch/Metric Dials
- Precision-Ground V-Bed is Made of Meehanite Casting
- Quick Change Gear Box is Fully Enclosed
- Threading Dial
- Turret Micrometer Stop

**Accessories Included:**

- 8" 4-Jaw Chuck
- Center Sleeve
- Centers
- Driving Plate
- Extra 8" D1-4 Backplate
- Follow Rest
- Manual
- Service Tools
- Steady Rest
- Toolbox
- 10" Face Plate
- 4 Way Turret Tool Post
- 7" 3-Jaw Chuck with Inside & Outside Jaw Sets