



# Product Specifications

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## Model SB1049F 13" x 30" Gearhead Lathe with Fagor DRO

### Product Dimensions

|  |                  |
|--|------------------|
| Weight.....  | 1881 lbs.        |
| Width (side-to-side) x Depth (front-to-back) x Height..... | 71 x 34 x 73 in. |
| Footprint (Length x Width).....                            | 69 x 19-1/2 in.  |

### Shipping Dimensions

|                              |                  |
|------------------------------|------------------|
| Type.....                    | Wood Crate       |
| Content.....                 | Machine          |
| Weight.....                  | 2410 lbs.        |
| Length x Width x Height..... | 79 x 44 x 75 in. |

### Electrical

|                               |  |
|-------------------------------|--|
| Power Requirement.....        | 220V, Single-Phase, 60 Hz                  |
| Full-Load Current Rating..... | 16.95A                                     |
| Minimum Circuit Size.....     | 30A  |
| Connection Type.....          | Cord & Plug                                |
| Power Cord Included.....      | No   |
| Recommended Power Cord.....   | "S"-Type, 3-Wire, 12 AWG, 300 VAC          |
| Plug Included.....            | No   |
| Recommended Plug Type.....    | L6-30                                      |
| Switch Type.....              | Control Panel w/Magnetic Switch Protection |

### Motors

#### Main

|                                       |                                   |
|---------------------------------------|-----------------------------------|
| Horsepower.....                       | 3 HP                              |
| Phase.....                            | Single-Phase                      |
| Amps.....                             | 16.5A                             |
| Speed.....                            | 1725 RPM                          |
| Type.....                             | AEEF Capacitor-Start Induction    |
| Power Transfer .....                  | V-Belt Drive                      |
| Bearings.....                         | Shielded & Permanently Lubricated |
| Centrifugal Switch/Contacts Type..... | External                          |

#### Coolant Pump

|                                       |  |
|---------------------------------------|--|
| Horsepower.....                       | 1/8 HP                                   |
| Phase.....                            | Single-Phase                             |
| Amps.....                             | 0.45A                                    |
| Speed.....                            | 3450 RPM                                 |
| Type.....                             | MC-8 Capacitor-Start Induction (Class F) |
| Power Transfer .....                  | Direct Drive                             |
| Bearings.....                         | Shielded & Permanently Lubricated        |
| Centrifugal Switch/Contacts Type..... | N/A                                      |

## Main Specifications

### Operation Info

|                                 |            |
|---------------------------------|------------|
| Swing Over Bed.....             | 13-1/4 in. |
| Distance Between Centers.....   | 30 in.     |
| Max Weight Between Centers..... | 220 lbs.   |
| Swing Over Cross Slide.....     | 8.26 in.   |
| Swing Over Saddle.....          | 11.02 in.  |
| Maximum Tool Bit Size.....      | 5/8 in.    |
| Compound Travel.....            | 4 in.      |
| Carriage Travel.....            | 25-1/2 in. |
| Cross Slide Travel.....         | 7 in.      |

### Headstock Info

|                                      |                |
|--------------------------------------|----------------|
| Spindle Bore.....                    | 1.57 in.       |
| Spindle Size.....                    | MT#5           |
| Number of Spindle Speeds.....        | 8              |
| Spindle Speeds.....                  | 80 – 2000 RPM  |
| Spindle Type.....                    | D1-5 Camlock   |
| Spindle Bearings.....                | Tapered Roller |
| Spindle Length.....                  | 20-7/8 in.     |
| Spindle Length with 3-Jaw Chuck..... | 27 in.         |
| Spindle Length with 4-Jaw Chuck..... | 25 in.         |
| Spindle Length with Faceplate.....   | 22-1/2 in.     |

### Tailstock Info

|                                |           |
|--------------------------------|-----------|
| Tailstock Quill Travel.....    | 4-1/2 in. |
| Tailstock Taper.....           | MT#3      |
| Tailstock Barrel Diameter..... | .1968 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.....         | 0.001 – 0.034 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.....                   | 9 in.             |
| Carriage Leadscrew Diameter..... | 1-1/8 in.         |
| Leadscrew TPI.....               | 4 TPI             |
| Carriage Leadscrew Length.....   | 59 in.            |
| Steady Rest Capacity.....        | 5/16 – 4-5/16 in. |
| Follow Rest Capacity.....        | 5/8 – 3-1/8 in.   |
| Faceplate Size.....              | 10 in.            |
| Feed Rod Diameter.....           | 3/4 in.           |
| Floor to Center Height.....      | 42-1/4 in.        |
| Height With Leveling Jacks.....  | 59 in.            |

## **Construction**

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

## **Fluid Capacities**

|                           |  |
|---------------------------|--|
| Headstock Capacity.....   | 6.4 qt.                                      |
| Headstock Fluid Type..... | ISO 32 (eg. Grizzly T23963, Mobil DTE Light) |
| Gearbox Capacity.....     | 1.4 qt.                                      |
| Gearbox Fluid Type.....   | ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)  |
| Apron Capacity.....       | 1.2 qt.                                      |
| Apron Fluid Type.....     | ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)  |
| Coolant Capacity.....     | 11.1 qt.                                     |

## **Other**

|  |                                     |
|--|-------------------------------------|
| Country of Origin .....  | Taiwan                              |
| Warranty .....   | 2 Years                             |
| Approximate Assembly & Setup Time .....                              | 2 Hour                              |
| Serial Number Location .....   | ID Label on Rear Side of Left Stand |
| Sound Rating .....   | 71 dB                               |
| ISO 9001 Factory .....   | No                                  |
| Certified by a Nationally Recognized Testing Laboratory (NRTL) ..... | No                                  |

## **Features**

Allen Bradley Electrical Components  
Signature South Bend 3 V-Way Bed  
Safety Chuck Guard with Micro-Switch Shut-Off  
Meehanite Castings with Induction-Hardened Ways  
Halogen Work Light  
4-Way Tool Post  
Complete Coolant System  
Micrometer Carriage Stop  
Threading Dial Indicator  
NSK or NTN Japanese Spindle Bearings  
Full-Length Splash Guard with Rounded Corner  
Front Removable Sliding Chip Tray  
Completely Enclosed Universal Gearbox for Cutting Inch, Metric, Modular, and Diametral Pitches  
Jog Button and Emergency Stop  
Foot Brake  
Headstock Gears Run in an Oil Bath  
Fagor DRO

## **Included Accessories**

7" 3-Jaw Scroll D1-5 Chuck (Bolt-on Jaws)  
8" 4-Jaw Independent D1-5 Chuck  
10" D1-5 Faceplate  
Follow Rest  
Steady Rest with Roller Bearing Tips  
#5 to #3 Morse Taper Spindle Sleeve  
2 Morse Taper #3 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)  
Leveling Pads  
Service Tools  
Toolbox  
USA Written Operator's Manual