



# 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..... 90 x 38 x 69 in.  
 Footprint (Length x Width)..... 80-3/4 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.....	1.968 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 .....	1 Year
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