



Product Specifications

P.O. Box 2027, Bellingham, WA 98227 U.S.A.
PHONE: (360) 734-1540 • © South Bend Tools
www.southbendtools.com



Model SB1049 Heavy 13 13" x 30" Gearhead Lathe

Product Dimensions

| | |
|--|------------------|
| Weight..... | 1870 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..... | 2426 lbs. |
| Length x Width x Height..... | 78-1/2 x 38-1/2 x 74-1/2 in. |

Electrical

| | |
|-------------------------------|--|
| Power Requirement..... | 220V, Single-Phase, 60 Hz |
| Prewired Voltage..... | 220V |
| Full-Load Current Rating..... | 19.45A |
| 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..... | 19A |
| Speed..... | 1720 RPM |
| Type..... | TEFC 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..... | TEFC 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..... | 440 lbs. |
| Swing Over Cross Slide..... | 8.26 in. |
| Swing Over Saddle..... | 11.02 in. |
| Swing Over Gap..... | 20 in. |
| Maximum Tool Bit Size..... | 3/4 in. |
| Compound Travel..... | 4 in. |
| Carriage Travel..... | 26-1/2 in. |
| Cross Slide Travel..... | 7 in. |

Headstock Info

| | |
|--------------------------------------|----------------|
| Spindle Bore..... | 1.57 in. |
| Spindle Taper..... | 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..... | Flame Hardened Steel |
| 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 | 1 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 and Oil Bath

Included Accessories

- 7" 3-Jaw Scroll Chuck (Bolt on Jaws)
- 8" 4-Jaw Independent Chuck D1-5
- 10" Faceplate D1-5
- 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)
- Eight Leveling Pads
- Service Tools
- Tool Box
- USA Written Operator's Manual