



## Model SB1050 Heavy 13<sup>®</sup> 13" x 40" Gearhead Lathe

### Product Dimensions

Weight..... 2205 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..... 2469 lbs.  
Length x Width x Height..... 90 x 38 x 69 in.

### Electrical

Power Requirement..... 220V, Single-Phase, 60 Hz  
Full-Load Current Rating..... 19.45A  
Minimum Circuit Size..... 30A  
Switch..... Magnetic with Thermal Protection  
Switch Voltage..... 220V  
Plug Included..... No  
Recommended Plug/Outlet Type..... NEMA L6-30

### Motors

#### Main

Type..... TEFC Induction  
Horsepower..... 3 HP  
Voltage..... 220V  
Phase..... Single-Phase  
Amps..... 19A  
Speed..... 1720 RPM  
Cycle..... 60 Hz  
Number of Speeds..... 1  
Power Transfer ..... V-Belt & Gear  
Bearings..... Shielded and Permanently Sealed

#### Coolant

Type..... TEFC Induction  
Horsepower..... 1/8 HP  
Voltage..... 220V  
Phase..... Single-Phase  
Amps..... 0.45A  
Speed..... 3450 RPM  
Cycle..... 60 Hz  
Number of Speeds..... 1  
Power Transfer ..... Direct Drive  
Bearings..... Shielded and Permanently Sealed

## Main Specifications

### Operation Info

Swing Over Bed.....	13.38 in.
Distance Between Centers.....	40 in.
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.....	36.5 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
Spindle Bearings.....	Tapered Roller

### Tailstock Info

Tailstock Quill Travel.....	4.5 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 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.
Leadscrew Diameter.....	1-1/8 in.
Leadscrew TPI.....	4 TPI
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.....	42.2 in.
Height With Leveling Jacks.....	59.06 in.

## Construction

Base.....	Cast iron
Headstock.....	Cast Iron
Headstock Gears.....	Flame Hardened Steel
Bed.....	Induction Hardened and Ground Cast Iron
Body.....	Cast Iron
Stand.....	Cast Iron
Paint.....	Urethane

## Other

Country Of Origin .....	Taiwan (Some Components Made in USA and Japan)
Warranty .....	1 Year
Serial Number Location .....	ID Label on Rear Side of Left Stand
Customer Assembly & Setup Time .....	1 Hour
Sound Rating .....	71 dB

## 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
- 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

## Included Accessories

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