



Product Specifications



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

Model SB1007 Heavy 10, 10" x 30" Gearhead Lathe

Product Dimensions

Weight..... 543 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 61 x 28-1/2 x 22 in.
Footprint (Length x Width)..... 51-1/2 x 8-3/8 in.

Shipping Dimensions

Type..... Wood Slat Crate
Content..... Machine
Weight..... 645 lbs.
Length x Width x Height..... 63 x 34 x 30 in.
Must Ship Upright..... Yes

Electrical

Power Requirement..... 240V, Single-Phase, 60 Hz
Full-Load Current Rating..... 6.2A
Minimum Circuit Size..... 15A
Connection Type..... Cord & Plug
Power Cord Included..... Yes
Power Cord Length..... 6 ft.
Power Cord Gauge..... 16 AWG
Plug Included..... Yes
Included Plug Type..... 6-15
Switch Type..... ON/OFF Switch w/Lockout Key
Inverter (VFD) Type..... Delta VFD022E21A

Motors

Main

Horsepower..... 2 HP
Phase..... 3-Phase
Amps..... 5.5A
Speed..... 1750 RPM
Type..... TEFC
Power Transfer Belt Drive
Bearings..... Shielded & Permanently Sealed
Centrifugal Switch/Contacts Type..... N/A

Main Specifications

Operation Info

Swing Over Bed.....	10-3/4 in.
Distance Between Centers.....	30 in.
Max Weight Between Centers.....	80 lbs.
Swing Over Cross Slide.....	6-5/8 in.
Swing Over Saddle.....	9-1/4 in.
Maximum Tool Bit Size.....	1/2 in.
Compound Travel.....	4 in.
Carriage Travel.....	27-3/8 in.
Cross Slide Travel.....	4-5/8 in.

Headstock Info

Spindle Bore.....	1.358 in. (34.5 mm)
Spindle Taper.....	MT#5
Number of Spindle Speeds.....	8
Spindle Speeds.....	55 – 2200 RPM
Spindle Type.....	D1-4 Camlock
Spindle Bearings.....	Tapered Roller
Spindle Length.....	13-5/8 in.
Spindle Length with 3-Jaw Chuck.....	17-11/16 in.

Tailstock Info

Tailstock Quill Travel.....	3-1/8 in.
Tailstock Taper.....	MT#3
Tailstock Barrel Diameter.....	1.574 in.

Threading Info

Number of Longitudinal Feeds.....	15
Range of Longitudinal Feeds.....	0.0018 – 0.0128 in./rev.
Number of Cross Feeds.....	15
Range of Cross Feeds.....	0.0009 – 0.0064 in./rev.
Number of Inch Threads.....	37
Range of Inch Threads.....	4-1/2 – 128 TPI
Number of Metric Threads.....	15
Range of Metric Threads.....	0.25 – 2 mm

Dimensions

Bed Width.....	7 in.
Carriage Leadscrew Diameter.....	20 mm
Leadscrew TPI.....	18 TPI
Carriage Leadscrew Length.....	41 in.
Feed Rod Diameter.....	13 mm

Other

Carriage Handwheel Graduations.....	0.01 in. (0.2 mm)
Carriage Handwheel Revolution.....	0.75 in. (19 mm)
Cross Slide Handwheel Graduations.....	0.002 in. (0.04 mm)
Cross Slide Handwheel Revolution.....	0.158 in. (4 mm)
Compound Handwheel Graduations.....	0.001 in. (0.025 mm)
Compound Handwheel Revolution.....	0.49 in. (1.25 mm)
Tailstock Handwheel Graduations.....	0.002 in. (0.05 mm)
Tailstock Handwheel Revolution.....	0.8 in. (2 mm)
Optional Stand.....	SB1035

Construction

Base..... Cast Iron
Headstock..... Cast Iron
End Gears..... Hardened Steel
Bed..... Hardened & Ground 3 V-Way Cast Iron
Body..... Cast Iron
Paint Type/Finish..... Urethane

Fluid Capacities

Headstock Capacity..... 0.79 qt.
Headstock Fluid Type..... ISO VG32 (eg. Grizzly T23963, Mobil DTE Light)
Gearbox Capacity..... 0.37 qt.
Gearbox Fluid Type..... ISO VG32 (eg. Grizzly T23963, Mobil DTE Light)

Other

Country of Origin Taiwan
Warranty 2 Years
Serial Number Location ID Label
ISO 9001 Factory No
Certified by a Nationally Recognized Testing Laboratory (NRTL) Yes

Features

Signature South Bend 3 V-Way Bed
2-Speed Motor with Inverter for Single-Phase Power Supply
All Gearhead Headstock
4-Way Tool Post
Spindle Spider Included for Gunsmithing
Quick-Change Gearbox for Cutting Inch and Metric Pitches
Carriage and Cross Slide Power Feed
Thread Dial Indicator
3HP Delta VFD-EL Inverter