



Model SB1050F

Heavy 13 - 13" x 40" Gearhead Lathe with Fagor DRO

Product Dimensions

Weight..... 2227 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..... 2491 lbs.
Length x Width x Height..... 90 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..... 19A
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.....	40 in.
Max Weight Between Centers.....	250 lbs.
Swing Over Cross Slide.....	8.26 in.
Swing Over Saddle.....	11.02 in.
Swing Over Gap.....	20 in.
Maximum Tool Bit Size.....	5/8 in.
Compound Travel.....	4 in.
Carriage Travel.....	36-1/2 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.....	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
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 (2-Piece Jaws)
8" 4-Jaw Independent D1-5 Chuck
10" D1-5 Faceplate
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
Toolbox
USA-Written Operator's Manual