Product Specifications

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Model SB1070F
42" x 132" Big Bore Lathe, 9" Bore

Product Dimensions

Weight	11,539 lbs.
Width (side-to-side) x Depth (front-to-back) x Height	197 x 71 x 64 in.
Footprint (Length x Width)	207 x 31 in.

Shipping Dimensions

Type	Wood Crate
Content	Machine
Weight	14991 lbs.
Length x Width x Height	209 x 73 x 82 in.
Must Ship Upright	Yes

Electrical

Power Requirement	230V or 460V, 3-Phase, 60 Hz
Prewired Voltage	230V
Full-Load Current Rating	71.6A at 230V, 35.8A at 460V
Minimum Circuit Size	90A at 230V, 50A at 460V
Connection Type	Permanent (Hardwire to Shutoff Switch)
Switch Type	Control Panel w/Magnetic Switch Protection
Voltage Conversion Kit	SB460VSB1070F (For 460V)

Motors

Main

Horsepower	30 HP
Phase	3-Phase
Amps	69.3A/34.7A
Speed	1720 RPM
Type	TEFC Induction
Power Transfer	Belt
Bearings	Shielded & Permanently Lubricated

Coolant Pump

Horsepower	1/8 HP
Phase	3-Phase
Amps	0.23A/0.12A
Speed	3450 RPM
Type	TEFC Induction
Power Transfer	Direct
Bearings	Shielded & Permanently Lubricated

Feed

Horsepower	1/4 HP
Phase	3-Phase
Amps	2.1A/1.05A
Speed	850 RPM
Type	TEFC Induction
Power Transfer	Direct
Bearings	Shielded & Permanently Lubricated

Main Specifications

Operation Info

Swing Over Bed	42 in.
Distance Between Centers	132 in.
Max Weight Between Centers	2992 lbs.
Swing Over Cross Slide	32 in.
Swing Over Saddle	32 in.
Swing Over Gap	54 in.
Maximum Tool Bit Size	1-1/4 in.
Compound Travel	13 in.
Carriage Travel	70-7/8 in.
Cross Slide Travel	18-7/8 in.

Headstock Info

Spindle Bore	9 in.
Spindle Taper	MT#7 / 1/20 OPT
Number of Spindle Speeds	12
Spindle Speeds	6 - 500 RPM
Spindle Type	A2-15
Spindle Bearings	SKF Tapered Roller
Spindle Length	33-1/8 in.

Tailstock Info

Tailstock Quill Travel	10 in.
Tailstock Taper	MT#6
Tailstock Barrel Diameter	4 in.

Threading Info

Number of Longitudinal Feeds	36
Range of Longitudinal Feeds	0.02 - 0.27 in./rev.
Number of Cross Feeds	36
Range of Cross Feeds	0.01 - 0.14 in./rev.
Number of Inch Threads	36
Range of Inch Threads	2 - 28 TPI
Number of Metric Threads	29
Range of Metric Threads	0.8 - 14mm
Number of Modular Pitches	15
Range of Modular Pitches	0.4 - 7 MP
Number of Diametral Pitches	36
Range of Diametral Pitches	4 - 56 DP

Dimensions

Bed Width	20 in.
Carriage Leadscrew Diameter	1-13/16 in.
Leadscrew TPI	2 TPI
Carriage Leadscrew Length	45-9/16 in.
Feed Rod Diameter	1-1/4 in.
Floor to Center Height	50-1/2 in.
Height With Leveling Jacks	50-5/16 in.

Other

Carriage Handwheel Graduations	0.010 in.
Carriage Handwheel Revolution	1.00 in.
Cross Slide Handwheel Graduations	0.002 in.
Cross Slide Handwheel Revolution	0.4 in.
Compound Handwheel Graduations	0.002 in.
Compound Handwheel Revolution	0.200 in.
Tailstock Handwheel Graduations	0.001 in.
Tailstock Handwheel Revolution	0.200 (H), 0.065 (L) 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	60 qt.
Headstock Fluid Type	ISO 32 (eg. Grizzly T23963, Mobil DTE Light)
Gearbox Capacity	12 qt.
Gearbox Fluid Type	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Apron Capacity	12 qt.
Apron Fluid Type	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Coolant Capacity	96 qt.

Other

Country of Origin	Taiwan
Warranty	2 Years
Approximate Assembly & Setup Time	1 Hour
Serial Number Location	Machine ID Label
ISO 9001 Factory	Yes

Features

Double Clamping Tailstock
2-Speed Tailstock Gearbox for Large-Diameter End Drilling
4-Position Apron Stop
Adjustable Feed Clutch
Magnetic Motor Brake & Mechanical Hand Brake
Z-Axis Rapid Traverse: 12.14 FPM
X-Axis Rapid Traverse: 5.9 FPM
Safety Chuck Guard with Micro-Switch Shut-Off
Meehanite Castings with Induction-Hardened Ways
Complete Coolant System with Built-In Reservoir
One-Piece Bed and Stand
Completely Enclosed Universal Gearbox for Cutting Inch, Metric, Modular, and Diametral Pitches
Threading Dial Indicator
Headstock Gears Run in an Oil Bath
Fagor DRO
SKF German Spindle Bearings
Full-Length Leadscrew Cover
Foot Brake
Signature South Bend 3 V-Way Bed

Included Accessories

Two MT#6 Dead Centers (1 Carbon Steel and 1 Carbide Tipped)
MT#7 to MT#6 Spindle Sleeve
14 Leveling Pads
Service Tools
Toolbox
USA-Written Manual