



Model SB1059F

18" x 40" Electronic Variable-Speed Lathe with DRO

Product Dimensions

Weight..... 4400 lbs.
 Width (side-to-side) x Depth (front-to-back) x Height..... 90-3/4 x 27 x 62-1/4 in.
 Footprint (Length x Width)..... 102-1/2 x 71-3/4 in.

Shipping Dimensions

Type..... Wood Crate
 Content..... Machine
 Weight..... 5080 lbs.
 Length x Width x Height..... 100 x 45 x 74 in.

Electrical

Power Requirement..... 440V, 3-Phase, 60 Hz
 Prewired Voltage..... 440V
 Full-Load Current Rating..... 16.83A
 Minimum Circuit Size..... 30A
 Connection Type..... Permanent (Hardwire to Shutoff Switch)
 Switch Type..... Control Panel w/Magnetic Switch Protection
 Inverter (VFD) Type..... Yaskawa G7A4011
 Inverter (VFD) Size..... 10 HP

Motors

Main

Horsepower..... 10 HP
 Phase..... 3-Phase
 Amps..... 16A
 Speed..... 0 – 3000 RPM
 Type..... TEFC Induction
 Power Transfer V-Belt Drive
 Bearings..... Shielded & Permanently Lubricated
 Centrifugal Switch/Contacts Type..... N/A

Coolant Pump

Horsepower..... 1/8 HP
 Phase..... 3-Phase
 Amps..... 0.23A
 Speed..... 3450 RPM
 Type..... TEFC Induction (Class F)
 Power Transfer Direct Drive
 Bearings..... Shielded & Permanently Lubricated
 Centrifugal Switch/Contacts Type..... N/A

Oil Pump

Horsepower.....	1/4 HP
Phase.....	3-Phase
Amps.....	0.6A
Speed.....	1720 RPM
Type.....	TEFC Induction
Power Transfer	Direct Drive
Bearings.....	Shielded & Permanently Lubricated
Centrifugal Switch/Contacts Type.....	N/A

Main Specifications

Operation Info

Swing Over Bed.....	18 in.
Distance Between Centers.....	40 in.
Max Weight Between Centers.....	1100 lbs.
Swing Over Cross Slide.....	11.02 in.
Swing Over Saddle.....	18 in.
Swing Over Gap.....	27.95 in.
Maximum Tool Bit Size.....	1 in.
Compound Travel.....	5.39 in.
Carriage Travel.....	39 in.
Cross Slide Travel.....	11 in.

Headstock Info

Spindle Bore.....	3.15 in.
Spindle Taper.....	MT#7
Number of Spindle Speeds.....	Variable
Spindle Speeds.....	18 – 1800 RPM
Spindle Type.....	D1-8 Camlock
Spindle Bearings.....	Tapered Roller
Spindle Length.....	26-7/8 in.
Spindle Length with 3-Jaw Chuck.....	34-1/2 in.
Spindle Length with 4-Jaw Chuck.....	32-3/8 in.
Spindle Length with Faceplate.....	29-1/8 in.

Tailstock Info

Tailstock Quill Travel.....	6-1/2 in.
Tailstock Taper.....	MT#5
Tailstock Barrel Diameter.....	3 in.

Threading Info

Number of Longitudinal Feeds.....	15
Range of Longitudinal Feeds.....	0.0015 – 0.0400 in./rev.
Number of Cross Feeds.....	15
Range of Cross Feeds.....	0.00075 – 0.02000 in./rev
Number of Inch Threads.....	38
Range of Inch Threads.....	2 – 72 TPI
Number of Metric Threads.....	40
Range of Metric Threads.....	0.4 – 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.....	13.58 in.
Carriage Leadscrew Diameter.....	1-3/8 in.
Leadscrew TPI.....	4 TPI
Carriage Leadscrew Length.....	65-3/4 in.
Steady Rest Capacity.....	5/8 – 7-1/16 in.
Follow Rest Capacity.....	5/8 – 5-1/8 in.
Faceplate Size.....	14 in.
Feed Rod Diameter.....	15/16 in.
Floor to Center Height.....	45.08 in.
Height With Leveling Jacks.....	46-1/4 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.....	15.9 qt.
Headstock Fluid Type.....	ISO 32 (eg. Grizzly T23963, Mobil DTE Light)
Gearbox Capacity.....	3.2 qt.
Gearbox Fluid Type.....	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Apron Capacity.....	2.1 qt.
Apron Fluid Type.....	ISO 68 (eg. Grizzly T23962, Mobil Vactra 2)
Coolant Capacity.....	25.4 qt.

Other

Country of Origin	Taiwan
Warranty	1 Year
Approximate Assembly & Setup Time	1 Hour
Serial Number Location	ID Label on Rear Side of Left Stand
Sound Rating	69 dB
ISO 9001 Factory	No
Certified by a Nationally Recognized Testing Laboratory (NRTL)	No

Features

- Allen Bradley Electrical Components
- Meehanite Casting, Signature South Bend 3 V-Way Bed
- Safety Chuck Guard with Micro-Switch Shut-Off
- Halogen Work Light
- 4-Way Tool Post
- Complete Coolant System
- Micrometer Carriage Stop
- Threading Dial Indicator
- FAG or SKF German Spindle Bearings
- Full Length Splash Guard
- Front Removable Sliding Chip Tray
- Yaskawa G7A4011 Inverter
- Completely Enclosed Universal Gearbox for Cutting Inch, Metric, Modular and Diametral Pitches
- Pressurized Headstock Lubrication System with Oil Pressure Safety Switch
- Dial Controlled, Variable Spindle Speeds with Digital Read Out
- Jog Button and Emergency Stop
- Fagor DRO
- Foot Brake

Included Accessories

- 12" 3-Jaw Scroll Chuck Mounted to 12" D1-8 Back Plate
- 14" 4-Jaw Independent Chuck D1-8
- 14" Faceplate D1-8
- Follow Rest
- Steady Rest with Roller Bearing Tips
- #7 to #5 Morse Taper Spindle Sleeve
- Two Morse Taper #5 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)
- Eight Leveling Pads
- Service Tools
- Tool Box
- USA Written Manual