Product Specifications

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Model SB1061PF
18" x 80" Electronic Variable-Speed Lathe with Fagor DRO

Product Dimensions

Weight..... 5940 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 130-1/4 x 27 x 62-1/4 in.
Footprint (Length x Width)..... 142 x 71-3/4 in.

Shipping Dimensions

Type..... Wood Crate
Content..... Machine
Weight..... 5866 lbs.
Length x Width x Height..... 141 x 45 x 74 in.

Electrical

Power Requirement..... 440V, 3-Phase, 60 Hz
Prewired Voltage..... 440V
Full-Load Current Rating..... 18.83A
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..... 12.5 HP
Phase..... 3-Phase
Amps..... 18A
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	80 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	79 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	105 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	2 Years
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 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 Lubrication System for Headstock Gears and Bearings
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