Product Specifications

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Model SB1047PF
21" x 80" Turn-Nado Gearhead Lathe with DRO

Product Dimensions

Weight..... 6600 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 130-1/4 x 27 x 54-3/4 in.
Footprint (Length x Width)..... 141-3/4 x 71-3/4 in.

Shipping Dimensions

Type..... Wood Crate
Content..... Machine
Weight..... 6020 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..... 19.23A
Minimum Circuit Size..... 30A
Connection Type..... Permanent (Hardwire to Shutoff Switch)
Switch Type..... Control Panel w/Magnetic Switch Protection

Motors

Main

Horsepower..... 15 HP
Phase..... 3-Phase
Amps..... 19A
Speed..... 1720 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

Main Specifications

Operation Info

Swing Over Bed	21 in.
Distance Between Centers	80 in.
Max Weight Between Centers	1430 lbs.
Swing Over Cross Slide	14 in.
Swing Over Saddle	21 in.
Swing Over Gap	31.10 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	16
Spindle Speeds	20 – 1600 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	46.65 in.
Height With Leveling Jacks	48 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	76 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
SKF 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
Headstock Gears Run in an Oil Bath
Fagor DRO

Included Accessories

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