



Product Specifications



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Model SB1013F 14" x 40" Electronic Variable-Speed 440V Toolroom Lathe with Fagor DRO

Product Dimensions

Weight..... 2998 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 91-1/2 x 39-1/2 x 59 in.
Footprint (Length x Width)..... 82 x 19-1/2 in.

Shipping Dimensions

Type..... Wood Slat Crate
Content..... Machine
Weight..... 3212 lbs.
Length x Width x Height..... 90 x 41 x 75 in.
Must Ship Upright..... Yes

Electrical

Power Requirement..... 440V, 3-Phase, 60 Hz
Prewired Voltage..... 440V
Full-Load Current Rating..... 8.55A
Minimum Circuit Size..... 15A
Connection Type..... Permanent (Hardwire to Shutoff Switch)
Switch Type..... Control Panel w/Magnetic Switch Protection
Inverter (VFD) Type..... Yasakawa G7A23P7
Inverter (VFD) Size..... 5 HP

Motors

Main

Horsepower..... 5 HP
Phase..... 3-Phase
Amps..... 7.8A
Speed..... 3450 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..... 0.15A
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.....	1725 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.....	14 in.
Distance Between Centers.....	40 in.
Max Weight Between Centers.....	660 lbs.
Swing Over Cross Slide.....	8.375 in.
Swing Over Saddle.....	13.78 in.
Swing Over Gap.....	20.98 in.
Maximum Tool Bit Size.....	3/4 in.
Compound Travel.....	5.1 in.
Carriage Travel.....	38.58 in.
Cross Slide Travel.....	9 in.

Headstock Info

Spindle Bore.....	2.0625 in.
Spindle Taper.....	MT#6
Number of Spindle Speeds.....	Variable
Spindle Speeds.....	20 – 2500 RPM
Spindle Type.....	D1-6 Camlock
Spindle Bearings.....	NSK or NTN Tapered Roller
Spindle Length.....	24-1/4 in.
Spindle Length with 3-Jaw Chuck.....	30-1/4 in.
Spindle Length with 4-Jaw Chuck.....	28-3/4 in.
Spindle Length with Faceplate.....	26-1/4 in.

Tailstock Info

Tailstock Quill Travel.....	6 in.
Tailstock Taper.....	MT#4
Tailstock Barrel Diameter.....	2.047 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.....	10-1/4 in.
Carriage Leadscrew Diameter.....	1-1/8 in.
Leadscrew TPI.....	4 TPI
Carriage Leadscrew Length.....	61-1/2 in.
Steady Rest Capacity.....	5/16 – 4-5/16 in.
Follow Rest Capacity.....	5/8 – 3-1/8 in.
Faceplate Size.....	12 in.
Feed Rod Diameter.....	3/4 in.
Floor to Center Height.....	42 in.
Height With Leveling Jacks.....	43-1/2 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.....	16.9 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 Hours
Serial Number Location	ID Label on Rear Side of Left Stand
ISO 9001 Factory	No
Certified by a Nationally Recognized Testing Laboratory (NRTL)	No

Features

Allen Bradley Electrical Components
Fagor 2-Axis DRO
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
NSK or NTN Japanese Spindle Bearings
Full-Length Splash Guard
Front Removable Sliding Chip Tray
Yasakawa G7A23P7 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 Readout
Jog Button and Emergency Stop

Included Accessories

8" 3-Jaw Scroll Chuck Mounted to 8" D1-6 Back Plate

10" 4-Jaw Independent Chuck D1-6

12" Faceplate D1-6

Follow Rest

Steady Rest with Roller Bearing Tips

#6 to #4 Morse Taper Spindle Sleeve

Two Morse Taper #4 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)

Eight Leveling Pads, Service Tools, Toolbox, and USA-Written Manual