Product Specifications

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Model SB1012F
14" x 40" Lathe Electronic Variable-Speed with FAGOR DRO

Product Dimensions

Weight	2976 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	3086 lbs.
Length x Width x Height	90 x 42 x 75 in.

Electrical

Power Requirement	220V, 3-Phase, 60 Hz
Prewired Voltage	220V
Full-Load Current Rating	17.2A
Minimum Circuit Size	20A
Connection Type	Cord & Plug
Power Cord Included	No
Recommended Power Cord	"S"-Type, 4-Wire, 12 AWG, 300 VAC
Plug Included	No
Recommended Plug Type	15-20
Switch Type	Control Panel w/Magnetic Switch Protection
Inverter (VFD) Type	Yaskawa G7A23P7
Inverter (VFD) Size	5 HP

Motors

Main

Horsepower	5 HP
Phase	3-Phase
Amps	15.5A
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	0.3A
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	1.4A
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	9-1/4 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 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 Recycling Coolant System
Micrometer Carriage Stop
Threading Dial Indicator
NSK or NTN Japanese Spindle Bearings
Full-Length Splash Guard
Front-Removable Sliding Chip Tray
Yaskawa 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 Read-Out
Jog and Emergency Stop Buttons

Included Accessories

8" 3-Jaw Scroll Chuck Mounted to 8" D1-6 Back Plate
10" 4-Jaw Independent D1-6 Chuck
12" D1-6 Faceplate
Follow Rest
Steady Rest with Roller Bearing Tips
MT#4 to MT#6 Morse Taper Spindle Sleeve
2 MT#4 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)
Eight Leveling Pads, Service Tools, Tool Box, and USA Written Manual