



Product Specifications

P.O. Box 2027, Bellingham, WA 98227 U.S.A.
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Model SB1012 14" x 40" Lathe 220V

Product Dimensions

Weight..... 2970 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..... 3234 lbs.
 Length x Width x Height..... 94 x 45 x 69 in.

Electrical

Power Requirement..... 220V, 3-Phase, 60 Hz
 Inverter Type..... Yaskawa G7A23P7
 Switch..... Magnetic with Thermal Protection
 Switch Voltage..... 220V
 Cord Gauge..... 12 AWG 4 Wire 300VAC (Recommended)
 Plug Included..... No
 Recommended Plug/Outlet Type..... 15-20

Motors

Main

Type..... TEFC Induction
 Horsepower..... 5 HP
 Voltage..... 220V
 Phase..... 3-Phase
 Amps..... 14A
 Speed..... 3450 RPM
 Cycle..... 60 Hz
 Number of Speeds..... 1
 Power Transfer V-Belt & Gear
 Bearings..... Shielded & Permanently Sealed

Lubrication

Type..... TEFC Induction
 Horsepower..... 1/4 HP
 Voltage..... 220V
 Phase..... 3-Phase
 Amps..... 1.4A
 Speed..... 1725 RPM
 Cycle..... 60 Hz
 Number of Speeds..... 1
 Power Transfer Direct Drive
 Bearings..... Shielded & Permanently Sealed

Coolant

Type.....	TEFC Induction
Horsepower.....	1/8 HP
Voltage.....	220V
Phase.....	3-Phase
Amps.....	0.3A
Speed.....	3450 RPM
Cycle.....	60 Hz
Number of Speeds.....	1
Power Transfer	Direct Drive
Bearings.....	Shielded & Permanently Sealed

Main Specifications

Operation Info

Swing Over Bed.....	14.17 in.
Distance Between Centers.....	40 in.
Swing Over Cross Slide.....	8.375 in.
Swing Over Saddle.....	13.78 in.
Swing Over Gap.....	20.98 in.
Maximum Tool Bit Size.....	18mm (3/4) in.
Compound Travel.....	5.1 in.
Carriage Travel.....	35.58 in.
Cross Slide Travel.....	9.25 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
Spindle Bearings.....	NSK or NTN Tapered Roller
Spindle Length.....	24.24 in.
Spindle Length with 3-Jaw Chuck.....	28.74 in.
Spindle Length with 4-Jaw Chuck.....	34.08 in.
Spindle Nose to Gap.....	6.5 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.
Number of Cross Feeds.....	17
Range of Cross Feeds.....	0.001–0.034 in.
Number of Inch Threads.....	45
Range of Inch Threads.....	2-72 TPI
Number of Metric Threads.....	39
Range of Metric Threads.....	0.2-14 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.
Leadscrew Diameter.....	1-1/8 in.
Leadscrew TPI.....	4
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
Headstock Gears.....	Flame Hardened Steel
Bed.....	Induction Hardened and Ground Cast Iron
Stand.....	Cast Iron

Other

Country Of Origin	Taiwan (Some Components Made in USA and Japan)
Warranty	1 Year
Serial Number Location	ID Label on Rear Side of Left Stand
Customer Assembly & Setup Time	2 Hours

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
- 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 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
- 2 Morse Taper #4 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)
- Eight Leveling Pads, Service Tools, Tool Box, and USA Written Manual