



## Model SB1014 16" x 60" Lathe 220V

**Product Dimensions**

Weight..... 3300 lbs.  
 Width (side-to-side) x Depth (front-to-back) x Height..... 106 x 33 x 61 in.  
 Footprint (Length x Width)..... 101-7/8 x 19-1/2 in.

**Shipping Dimensions**

Type..... Wood Slat Crate  
 Content..... Machine  
 Weight..... 3652 lbs.  
 Length x Width x Height..... 109 x 45 x 69 in.

**Electrical**

Power Requirement..... 220V, 3-Phase, 60 Hz  
 Minimum Circuit Size..... 30A  
 Inverter Type..... Yaskawa G7A25P5  
 Switch..... Magnetic with Thermal Protection  
 Switch Voltage..... 220V  
 Cord Gauge..... 8GA 4 Wire 300VAC  
 Plug Included..... No  
 Recommended Plug/Outlet Type..... L15-30

**Motors**

**Main**

Type..... TEFC Induction  
 Horsepower..... 7-1/2 HP  
 Voltage..... 220V  
 Phase..... 3-Phase  
 Amps..... 20A  
 Speed..... 4500 RPM  
 Cycle..... 60 Hz  
 Number of Speeds..... Variable  
 Power Transfer ..... V-Belt & Gear  
 Bearings..... Shielded and 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 and 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 and Permanently Sealed

**Main Specifications**

**Operation Info**

Swing Over Bed..... 16.14 in.  
Distance Between Centers..... 60 in.  
Swing Over Cross Slide..... 10.375 in.  
Swing Over Saddle..... 15.67 in.  
Swing Over Gap..... 22.95 in.  
Maximum Tool Bit Size..... 0.75 in.  
Compound Travel..... 5.1 in.  
Carriage Travel..... 54 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 Camlock  
Spindle Bearings..... NSK or NTN Tapered Roller  
Spindle Length..... 24.24 in.  
Spindle Length with 3-Jaw Chuck..... 30.31 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.....	0.0.001–0.034 in.
Number of Inch Threads.....	45
Range of Inch Threads.....	2-72 in.
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.....	83.58 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.....	43-1/2 in.
Height With Leveling Jacks.....	44-1/2 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 .....	Approximately 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 G7A25P5 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**

9 in. 3-Jaw Scroll Chuck Mounted to 9 in. D1-6 Back Plate

10 in. 4-Jaw Independent Chuck D1-6

12 in. 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, Tool Box, and USA Written Manual