



Model SB1051 Heavy 13[®] 13" x 40" EVS Lathe

Product Dimensions

Weight..... 2420 lbs.
 Width (side-to-side) x Depth (front-to-back) x Height..... 83-1/2 x 38-1/2 x 59 in.
 Footprint (Length x Width)..... 80-3/4 x 19-1/2 in.

Shipping Dimensions

Type..... Wood Slat Crate
 Content..... Machine
 Weight..... 2684 lbs.
 Length x Width x Height..... 90 x 45 x 69 in.

Electrical

Power Requirement..... 220V, 3-Phase, 60 Hz
 Full-Load Current Rating..... 15.7A
 Minimum Circuit Size..... 20A
 Inverter Type..... Yaskawa G7A25P5
 Switch..... Magnetic with Thermal Protection
 Switch Voltage..... 220V
 Plug Included..... No
 Recommended Plug/Outlet Type..... NEMA 15-20

Motors

Main

Type..... TEFC Induction
 Horsepower..... 5 HP
 Voltage..... 220V
 Phase..... 3-Phase
 Amps..... 14A
 Speed..... 0-4500 RPM
 Cycle..... 0 – 150 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..... 13.38 in.
Distance Between Centers..... 40 in.
Swing Over Cross Slide..... 8.26 in.
Swing Over Saddle..... 11.02 in.
Swing Over Gap..... 20 in.
Maximum Tool Bit Size..... 3/4 in.
Compound Travel..... 4 in.
Carriage Travel..... 36.5 in.
Cross Slide Travel..... 7 in.

Headstock Info

Spindle Bore..... 1.65 in.
Spindle Taper..... MT#5
Number of Spindle Speeds..... Variable
Spindle Speeds..... 100 – 3000 RPM
Spindle Type..... D1-5
Spindle Bearings..... NSK or NTN Tapered Roller
Spindle Length..... 21.13 in.
Spindle Length with 3-Jaw Chuck..... 29 in.
Spindle Length with 4-Jaw Chuck..... 31 in

Tailstock Info

Tailstock Quill Travel..... 4.5 in.
Tailstock Taper..... MT#3
Tailstock Barrel Diameter..... 1.968 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 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.....	9 in.
Leadscrew Diameter.....	1-1/8 in.
Leadscrew TPI.....	4 TPI
Leadscrew Length.....	59 in.
Steady Rest Capacity.....	5/16 – 4-5/16 in.
Follow Rest Capacity.....	5/8 – 3-1/8 in.
Faceplate Size.....	10 in.
Feed Rod Diameter.....	3/4 in.
Floor to Center Height.....	42.2 in.
Height With Leveling Jacks.....	59.06 in.

Construction

Base.....	Cast iron
Headstock.....	Cast Iron
Headstock Gears.....	Flame-Hardened Steel
Bed.....	Induction-Hardened and Ground Cast Iron
Body.....	Cast Iron
Stand.....	Cast Iron
Paint.....	Urethane

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
Sound Rating	71 – 76 dB

Features

- Allen Bradley Electrical Components
- 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
- Meehanite Castings with Induction-Hardened Ways
- Micrometer Carriage Stop
- Threading Dial Indicator
- NSK or NTN Japanese Spindle Bearings
- Full Length Splash Guard with Rounded Corner
- Yaskawa G7A25P5 Inverter
- Front Removable Sliding Chip Tray
- Completely Enclosed Universal Gearbox for Cutting Inch, Metric, Modular and Diametral Pitches
- Jog Button and Emergency Stop
- Pressurized Lubrication System

Included Accessories

- 7" 3-Jaw Scroll Chuck (2-Piece Jaws)
- 8" 4-Jaw Independent Chuck D1-5
- 10" Faceplate D1-5
- Follow Rest
- Steady Rest with Roller Bearing Tips
- MT#5 to MT#3 Spindle Sleeve
- 2 MT#3 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)
- Service Tools
- Tool Box
- USA-Written Manual
- Six Leveling Pads