



Model SB1039

14" x 40" 16 Speed Lathe 220V

Product Dimensions

Weight..... 2420 lbs.
Width (side-to-side) x Depth (front-to-back) x Height..... 80-3/4 x 32-1/8 x 54-3/8 in.
Footprint (Length x Width)..... 80-3/4 x 19-1/2 in.

Shipping Dimensions

Type..... Wood Slat Crate
Content..... Machine
Weight..... 2484 lbs.
Length x Width x Height..... 33 x 81 x 55 in.

Electrical

Power Requirement..... 220V, 3-Phase, 60 Hz
Prewired Voltage..... 220V
Full-Load Current Rating..... 14.4A
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
Recommended Phase Converter..... G7978

Motors

Main

Horsepower..... 5 HP / 2.5 HP
Phase..... 3-Phase
Amps..... 14A/10A
Speed..... 3450 / 1720 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..... 0.4A
Type..... TEFC Induction (Class F)
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.....	440 lbs.
Swing Over Cross Slide.....	8.66 in.
Swing Over Saddle.....	13-3/4 in.
Swing Over Gap.....	20.94 in.
Maximum Tool Bit Size.....	3/4 in.
Compound Travel.....	4 in.
Carriage Travel.....	36-1/2 in.
Cross Slide Travel.....	7 in.

Headstock Info

Spindle Bore.....	1.57 in.
Spindle Taper.....	MT#5
Number of Spindle Speeds.....	16
Spindle Speeds.....	50 – 2570 RPM
Spindle Type.....	D1-5 Camlock
Spindle Bearings.....	NTN Tapered Roller
Spindle Length.....	20-7/8 in.
Spindle Length with 3-Jaw Chuck.....	27 in.
Spindle Length with 4-Jaw Chuck.....	25-7/16 in.
Spindle Length with Faceplate.....	22-1/2 in.

Tailstock Info

Tailstock Quill Travel.....	4-3/8 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 – 14.0 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.....	9 in.
Carriage Leadscrew Diameter.....	1-1/8 in.
Leadscrew TPI.....	4 TPI
Carriage Leadscrew Length.....	59 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.....	42-5/8 in.
Height With Leveling Jacks.....	54-3/8 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.....	6.4 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 Front of Headstock
Sound Rating	76 dB
ISO 9001 Factory	No
Certified by a Nationally Recognized Testing Laboratory (NRTL)	No

Features

Allen Bradley Electrical Components
Meehanite Casting, Signature South Bend Three V-Way Bed
Safety Chuck Guard with Micro-Switch Shut-Off
Halogen Work Light (24V/70W)
4-Way Tool Post
Complete Coolant System
Micrometer Carriage Stop
Threading Dial Indicator
NTN Japanese Spindle Bearing
Full Length Splash Guard
Front Removable Sliding Chip Tray
Headstock Gears Run in an Oil Bath
Completely Enclosed Universal Gearbox for Cutting Inch, Metric, Modular and Diametral Pitches
Jog Button and Emergency Stop

Included Accessories

10 in. 4-Jaw Independent Chuck D1-5
8 in. 3-Jaw Scroll Chuck (Mounted to 8 in. D1-5 Back Plate)
12 in. Faceplate D1-5
Follow Rest
Steady Rest with Roller Bearing Tips
#5 to #3 Morse Taper Spindle Sleeve
Two Morse Taper #3 Dead Centers (1 Carbon Steel and 1 Carbide-Tipped)
Six Leveling Pads
Service Tools
Tool Box
USA Written Manual