



# Product Specifications



P.O. Box 2027, Bellingham, WA 98227 U.S.A.  
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## Model SB1009

# Super Precision Digital Threading Collet Lathe

### Product Dimensions

Weight ..... 2425 lbs.  
Width (side-to-side)/Depth (front-to-back)/Height..... 72<sup>7</sup>/<sub>8</sub>" x 29<sup>1</sup>/<sub>2</sub>" x 66<sup>15</sup>/<sub>16</sub>"  
Foot Print (Width/Depth)..... 59" x 25"

### Shipping Dimensions

Type..... Wood Slat Crate  
Content..... Machine  
Weight ..... 2645 lbs.  
Width (side-to-side)/Depth (front-to-back)/Height..... 75" x 34" x 74"

### Electrical

Power Requirement..... 220V, 3-Phase, 60 Hz  
Full-Load Current Rating..... 10A  
Minimum Circuit Size..... 15A  
Inverter Type..... Yaskawa 3 HP  
Switch..... Reversible with ON/OFF Stop Button  
Switch Voltage..... 220V  
Plug Included..... No  
Recommended Plug/Outlet Type..... NEMA 15-15

### Motors

#### Main

Type ..... TEFC Induction  
Horsepower..... 3 HP  
Voltage..... 220V  
Phase ..... 3-Phase  
Amps ..... 9A  
Number Of Speeds ..... Variable  
Speed..... 1720 RPM  
Cycle ..... 60 Hz  
Power Transfer..... V-Belt  
Bearings..... Shielded and Permanently Sealed

#### Feed

Type ..... Induction  
Horsepower..... 60W  
Voltage..... 220V  
Phase ..... 3-Phase  
Amps ..... 0.6A  
Number Of Speeds ..... Variable  
Speed..... 0 – 1600 RPM  
Cycle ..... 60 Hz  
Power Transfer..... Gear Box  
Bearings..... Shielded and Permanently Sealed

## Coolant Pump

Type .....	Suction
Horsepower.....	1/8 HP
Voltage.....	220V
Phase .....	Single-Phase
Amps .....	0.4A
Number Of Speeds .....	1
Speed.....	3450 RPM
Cycle .....	60 Hz
Power Transfer.....	Direct
Bearings.....	Shielded and Permanently Sealed

## Main Specifications

### Operation Info

Swing Over Bed .....	11"
Distance Between Centers .....	18"
Swing Over Cross Slide .....	5.98"
Swing Over Saddle.....	9"
Maximum 5C Bar Stock Diameter .....	1.0625"
Maximum Tool Bit Size .....	0.79 x 0.79"
Compound Rest Travel .....	3"
Carriage Travel.....	25"
Cross Slide Travel.....	6"

### Headstock Info

Spindle Bore .....	1 1/4"
Spindle Taper .....	5C
Number of Spindle Speeds .....	Variable
Spindle Speeds .....	50 – 4000 RPM
Spindle Bearings.....	Angular Contact Ball Bearing

### Tailstock Info

Tailstock Quill Travel.....	3 3/4"
Tailstock Taper .....	MT #2
Tailstock Barrel Diameter.....	1.358"

### Threading Info

Number of Longitudinal Feeds .....	Variable
Range of Longitudinal Feeds .....	0" – 7"/min.
Number of Cross Feeds .....	Variable
Range of Cross Feeds.....	0" – 4"/min.
Range of Inch Threads.....	3.175 – 500 TPI
Range of Metric Threads .....	0.55 – 6.55mm

### Dimensions

Bed Width.....	6 3/16"
Leadscrew Diameter .....	1"
Leadscrew TPI .....	8 TPI
Leadscrew Length.....	35.43"
Steady Rest Capacity.....	3"
Follow Rest Capacity .....	3"
Floor to Center Height .....	47 1/4"
Height With Leveling Jacks.....	57 1/2"

**Construction**

Headstock ..... Cast Iron  
Headstock Gears ..... Cast Iron  
Bed ..... Precision Hardened and Ground Steel  
Stand ..... Formed Steel  
Paint ..... Urethane

**Other**

Country Of Origin ..... Taiwan  
Warranty ..... 1 Year  
Serial Number Location ..... ID Label on Left of the Stand  
Assembly Time ..... 1 Hour

**Features**

Spindle runout within 0.00125 mm (50 millionths of an inch)  
Hardened and ground spindle mounted on high-precision pre-loaded angular contact bearings for sustained precision and rigidity  
Infinitely variable spindle speed  
3 H.P. motor with current vector inverter drive for increased low-end torque  
Fast lever collet closer  
Independent variable feeds for carriage and cross slide  
Turcite B Slideway bearing surface between carriage and bed  
Mitutoyo linear scales on X and Z axis  
Delta interface display monitor  
Inch and metric dual dials  
Automatic threading stop and control  
High quality Japanese Yaskawa Inverter