



Product Specifications



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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..... 72⁷/₈" x 29¹/₂" x 66¹⁵/₁₆"
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	3-Phase
Amps	0.8A
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