

Super Precision Digital Threading Collet Lathe



SB1009



South Bend® Super Precision Digital Threading Collet Lathe

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FEATURES

- Spindle runout within 0.00125 mm (50 millionths of an inch)
- Infinitely variable spindle speed
- 3 HP 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
- US Based Customer Service and Technical Support

SPECIFICATIONS:

Operation Info

- Main motor: 3 HP, 220V, 3-phase, 9A
- Feed motor: 60W, 0.6A
- Coolant pump motor: 1/8 HP, 0.8A
- Swing over bed: 11"
- Distance between centers: 18"
- Swing over cross slide: 5.98"
- Swing over saddle: 9"
- Compound rest travel: 3"
- Carriage travel: 25"
- Cross slide travel: 5.98"

Headstock Info

- Spindle bore: 1/4"
- Spindle taper: 5C
- Spindle speeds: variable, 50-4000 RPM

Tailstock Info

- Tailstock quill travel: 3 3/4"
- Tailstock taper: MT #2

Threading Info

- Longitudinal feed: variable, 0"-7"/min.
- Cross feed: variable, 0" – 4"/min.
- Range of inch threads: 3.175 – 500 TPI
- Range of metric threads: 0.55 – 6.55mm

Product dimensions

- Dimensions: 72 7/8" W x 29 1/2" D x 66 5/8" H
- Footprint: 59" W x 25" D
- Approximate shipping weight: 2645 lbs.

Certified to CSA & UL standards

Made in an ISO 9001 factory

A HARDINGE LATHE TAKEN TO A NEW LEVEL OF ACCURACY AND ADVANCEMENT WITH COMPUTER CONTROLS AND NEARLY INFINITE THREADING OPTIONS

This South Bend lathe features a super precision digital threading control, which replaces the traditional threading gearbox with a microprocessor-controlled, servo-driven leadscrew.

Simply type in the desired thread pitch on the numeric pad of the touchscreen LCD panel and start the threading cycle.

This system controls and synchronizes the main spindle rotation on 2-axis feed rate to produce a precise threading cycle for any given inch or metric thread pitch.

Also, noise and vibration are reduced as there are no gears in the gearbox.

This is an ideal machine for super high-precision work on small parts using 5C collets.

This machine uses a Yaskawa inverter with a 3 HP induction motor to provide true variable spindle speed from 50-4000 RPM.

The spindle is hardened and ground then mounted on high-precision pre-loaded angular contact bearings for sustained precision and rigidity. Spindle runout is within 0.00125 mm (50 millionths of an inch.)

The positioning of the Mitutoyo linear scales on the X- and Z-axis are shown on the Delta touchscreen digital readout for accurate and repeatable lathe operations.

The precision-ground dovetail bedways have been Turcite-coated for smooth, ultra-precise movement. The gearbox features quick-change gear knobs and feed rod includes a slip clutch that disables automatic carriage feed when it contacts the feed stop or in the event of a crash.

BUILT TO TRUE SOUTH BEND HIGH-PRECISION INDUSTRIAL STANDARDS

The instructions were written by our U.S. based Technical Documentation Department and is packed with useful information. The easy to read instructions explain how to assemble and maintain your lathe.

The South Bend Customer Service and Technical Support Teams are U.S. based. Parts and accessories for the downdraft table are available online and shipped from the South Bend parts warehouse in Springfield, MO.

WARRANTY INFORMATION

South Bend Tool Company warrants every product it sells for a period of 2 years to the original purchaser from the date of purchase. We make every effort to ensure that our products meet high quality and durability standards so that you never need to use the warranty. Please feel free to write or call us if you have any questions about the machine or the manual.

for more information visit www.southbendtools.com/pages/warranty



Because quality and precision are timeless.

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