

# 14½" SOUTH BEND *Precision* LATHES



**SOUTH BEND LATHE WORKS**

BUILDING BETTER TOOLS SINCE 1906

425 E. MADISON STREET, SOUTH BEND 22, INDIANA, U. S. A.



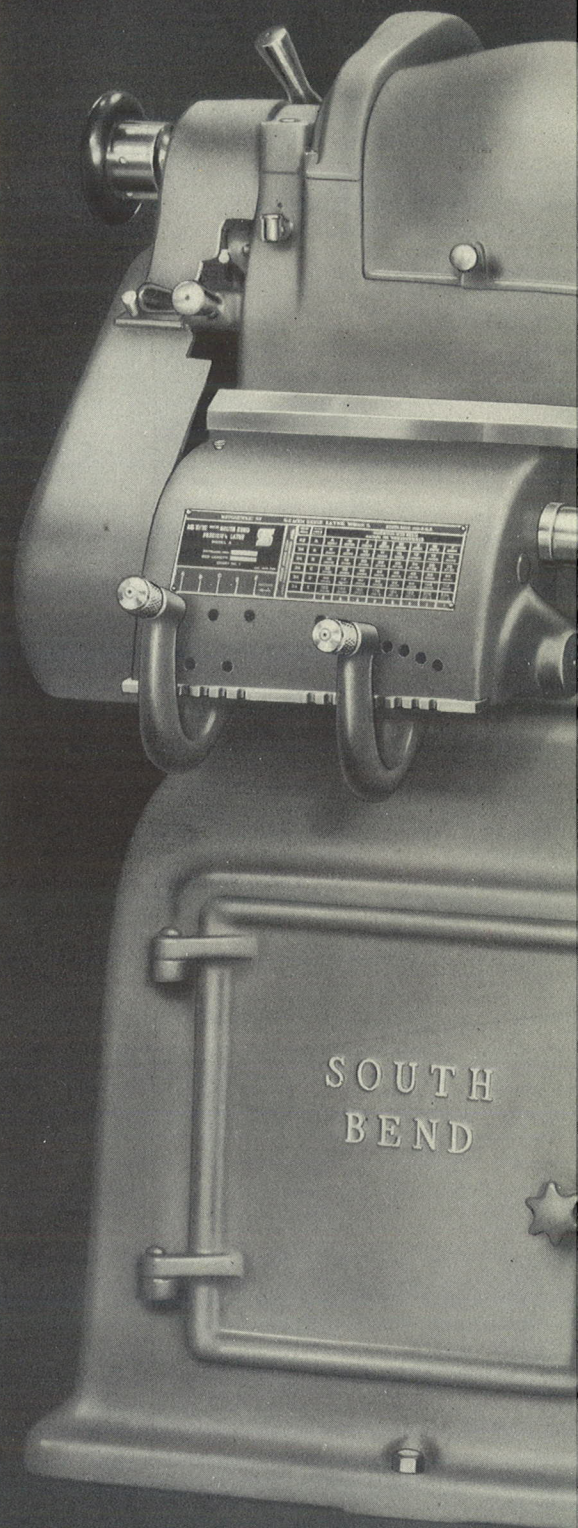
# *Precision Lathes For Fine Machine Work*

## **RUGGED ACCURATE DEPENDABLE**

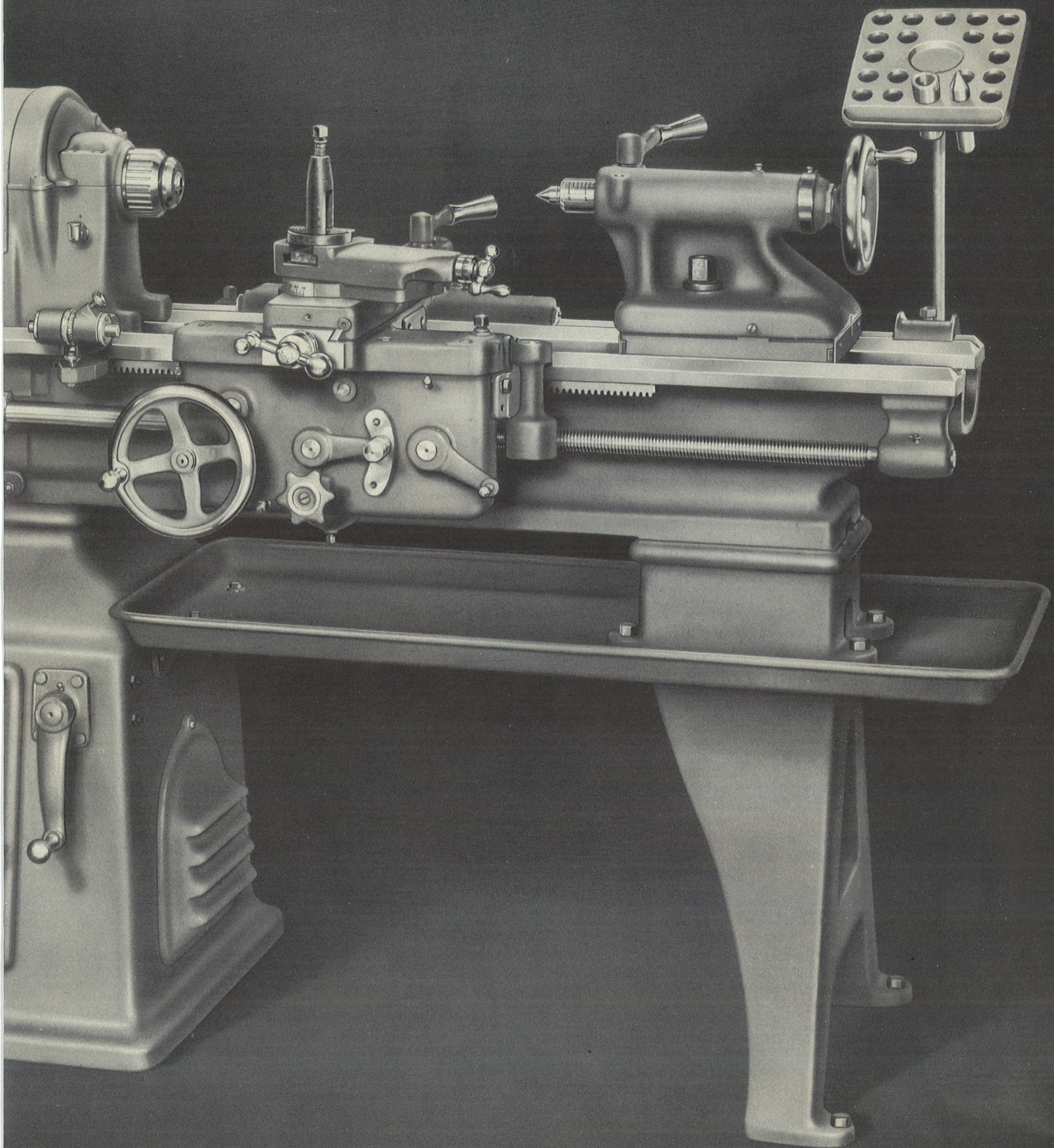
The rugged construction of South Bend Lathes is best demonstrated by the fact that the great majority of all lathes ever made by this company are still giving satisfactory service after years of daily use. Their rugged construction explains why, even after many years of operation, they continue to produce toolroom and production work to close tolerances.

Capable of machining work to the exacting specifications of modern industry, South Bend Lathes are designed and built to retain their precision through years of service. Each lathe is thoroughly inspected and tested before it is approved for shipment. Actual cutting tests are made to be sure the lathe will turn, bore, face, and thread to tolerances far more precise than are usually required for even the finest tool and gauge work. Many South Bend Lathes are used for making micrometer spindles, precision taps and dies, and precision gauges of all kinds. In spite of the exacting work done on these lathes, we have never found it necessary to supply a "special accuracy" lead screw or other special equipment. All South Bend Lathes are uniformly accurate.

Careful design and conscientious workmanship are combined in South Bend Lathes to give you a machine tool you can depend on for many years of service. Because of their rugged construction, lifetime accuracy, and dependability—plus unusual versatility—you will find it to your advantage to specify South Bend Lathes for your next installations.



**14 1/2" SWING  
TOOLROOM**



**SOUTH BEND**  
*Precision* **LATHE**

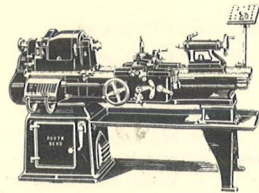
CL8185B, 14½" x 5' South Bend Toolroom Precision Lathe, regularly equipped with precision lead screw; telescopic taper turning attachment; handwheel collet attachment (less collets); collet rack; micrometer carriage stop; thread dial indicator; thread cutting stop; graduated tailstock spindle; large face plate; small face plate; hardened tool steel 60-degree centers; heat-treated steel tool post; chip pan; improved two-lever quick change gear box; spring latch feed reverse; wrenchless bull gear lock; and fully enclosed underneath belt motor drive mechanism. Shipping weight crated for domestic shipment approximately 2180 lbs.

# South Bend Lathe DISTRIBUTORS

You are invited to visit the Distributor's store most convenient for you or to phone or write them. See the telephone directory of appropriate city for street address.

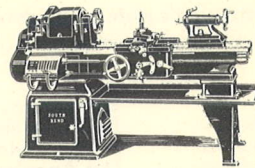
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# South Bend Lathe PRODUCTS



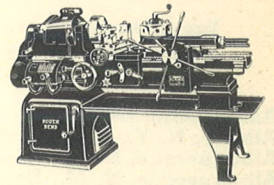
## TOOLROOM LATHES

Made in five sizes ranging from 9" swing to 16" swing, there is a South Bend Toolroom Lathe for almost every class of precision tool, die, gauge, and instrument work. Equipment includes precision lead screw, taper attachment, collet attachment, collet rack, thread dial, micrometer carriage stop, and chip pan. Complete line of attachments, chucks, and tools available.



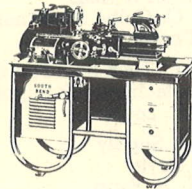
## QUICK CHANGE LATHES

Equipped with improved quick change gear mechanism, South Bend Quick Change Gear Lathes save time on manufacturing operations, general machine work, and maintenance. Wide range of threads and feeds instantly available reduces set-up time to a minimum. Made in six sizes, 9" to 16-24" swing, bed lengths to twelve feet. Complete line of attachments and tools available.



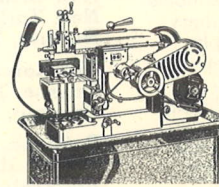
## TURRET LATHES

South Bend Turret Lathes are made in several sizes and types taking work up to 1" through collet, 1 3/8" through spindle, and 16" over bed ways. All have power carriage feeds, double tool cross slides, and either handlever operated or power feed hexagon bed turret. Can be equipped with pneumatic bar feed, coolant pump, square turret, and complete line of accessories.



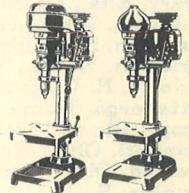
## BENCH LATHES

You can save time on small work by using South Bend Precision Bench Lathes. They are made in a variety of sizes and types, including Quick Change Gear and Toolroom models. Easier to operate and require less floor space and less power than larger, more expensive lathes. Maximum capacity 10" swing over bed, 1" through collet, 1 3/8" through spindle. Complete line of accessories available.



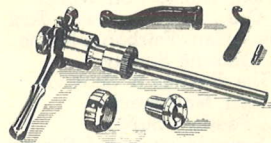
## SHAPERS

The South Bend 7" Precision Bench Shaper has been a hit from the time it was first introduced. Designed especially for efficient operation on small jobs, it will save time, floor space, and capital investment for those who have work within its capacity. Equipment includes vise, built-in work light, reversible power feeds, and self-contained motor drive. Practical accessories and tools available.

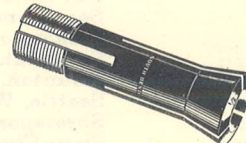


## DRILL PRESSES

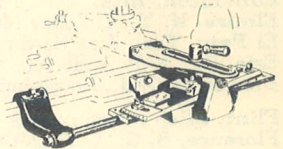
South Bend 14" Drill Presses are made in both bench and floor types. Precision models are available in one spindle, two spindle, three spindle, and four spindle designs. Ruggedly constructed with free-floating spindle, four precision ball bearings, built-in work light, and precision ground work surface; these drill presses represent outstanding values. Practical attachments and accessories available.



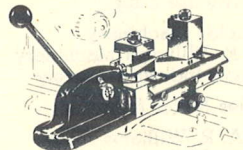
COLLET ATTACHMENT



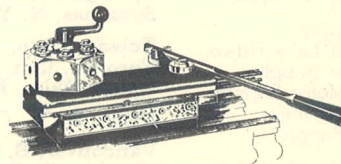
COLLETS



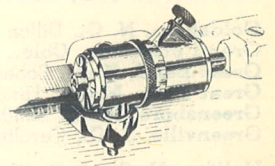
TAPER ATTACHMENT



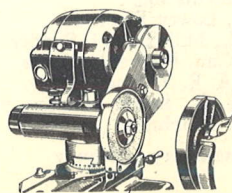
DOUBLE TOOL CROSS SLIDE



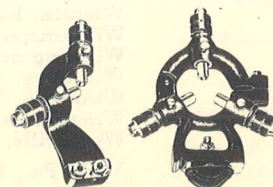
HANDLEVER BED TURRET



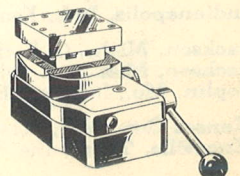
MICROMETER CARRIAGE STOP



GRINDING ATTACHMENT



STEADY REST  
and FOLLOWER REST

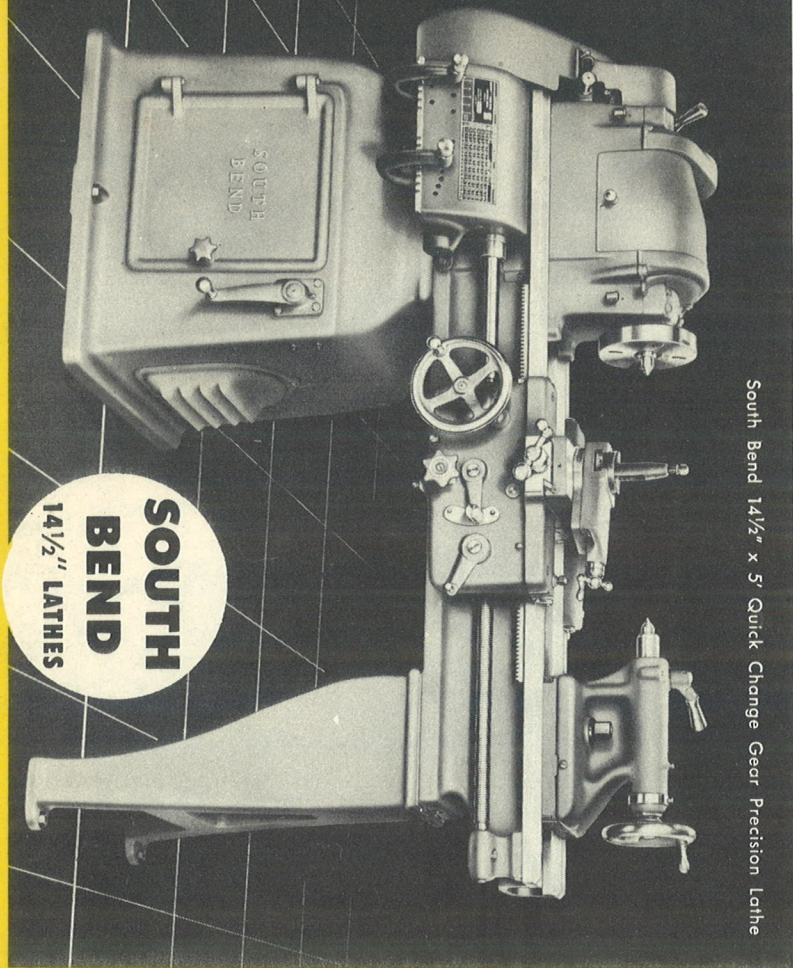


TURRET TOOL BLOCK

**SOUTH BEND LATHE WORKS**  
 425 East Madison Street  
 SOUTH BEND 22, INDIANA, U.S.A.

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**FOR FAST, PRECISION MACHINING**



South Bend 14 1/2" x 5' Quick Change Gear Precision Lathe

## 14 1/2-inch Swing South Bend Lathes

### BRIEF SPECIFICATIONS

Swing over bed and saddle wings.....	14 5/8"
Between centers with five foot bed.....	24 1/2"
Centers, Morse taper.....	No. 3
Collet capacity, maximum.....	1"
Compound rest top, angular hand feed.....	3 1/8"
Cross slide travel.....	10"
Feeds, cross (48).....	.0006" to .0315"
Feeds, longitudinal (48).....	.0015" to .0841"
Headstock spindle front bearing, diameter.....	2 5/8"
Headstock spindle hole.....	1 3/8"
Headstock spindle nose threads.....	2 3/8"—6
Lead screw, 29° Acme thread.....	1 1/8" Dia. 6 threads
Motor, size required.....	1 1/2 h.p.
Spindle speeds, eight.....	30 to 875 r.p.m.
Tailstock spindle travel.....	5 1/4"
Tailstock top set-over for taper turning.....	1 5/16"
Thread cutting range—48 pitches, R.H. or L.H.....	4 to 224 per inch
Tool holder takes cutter bit.....	3/8" sq.
Tool post takes tool holder shank.....	5/8" x 1 3/8"

### PARTIAL LIST OF FEATURES

- Heat-treated alloy steel spindle with superfinished bearing surfaces.
- Replaceable bronze spindle bearings with capillary oiling system.
- Wrenchless bull gear lock for engaging back gears.
- Prismatic bed ways precision finished entire length.
- Felt wipers attached to both ends of carriage and tailstock to clean and lubricate the bed ways.
- Large diameter easy reading micrometer graduated collars on compound rest screw and cross-feed screw.
- Improved two-lever quick change gear mechanism.
- Rigid one-piece double wall apron construction provides support for both ends of gear shafts.
- Powerful multiple disc friction clutch in apron for engaging power longitudinal feeds and power cross-feeds.
- Large oil reservoir provided for lubricating power feed gearing and clutch mechanism in apron.
- Close-coupled half-nuts dovetailed into back wall of apron.
- Automatic safety interlock prevents accidental damage to lathe or work by engaging two opposing feeds simultaneously.
- Graduated tailstock spindle with self-ejecting center.

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**FOR THOSE WHO WANT THE BEST**