

# SOUTH BEND

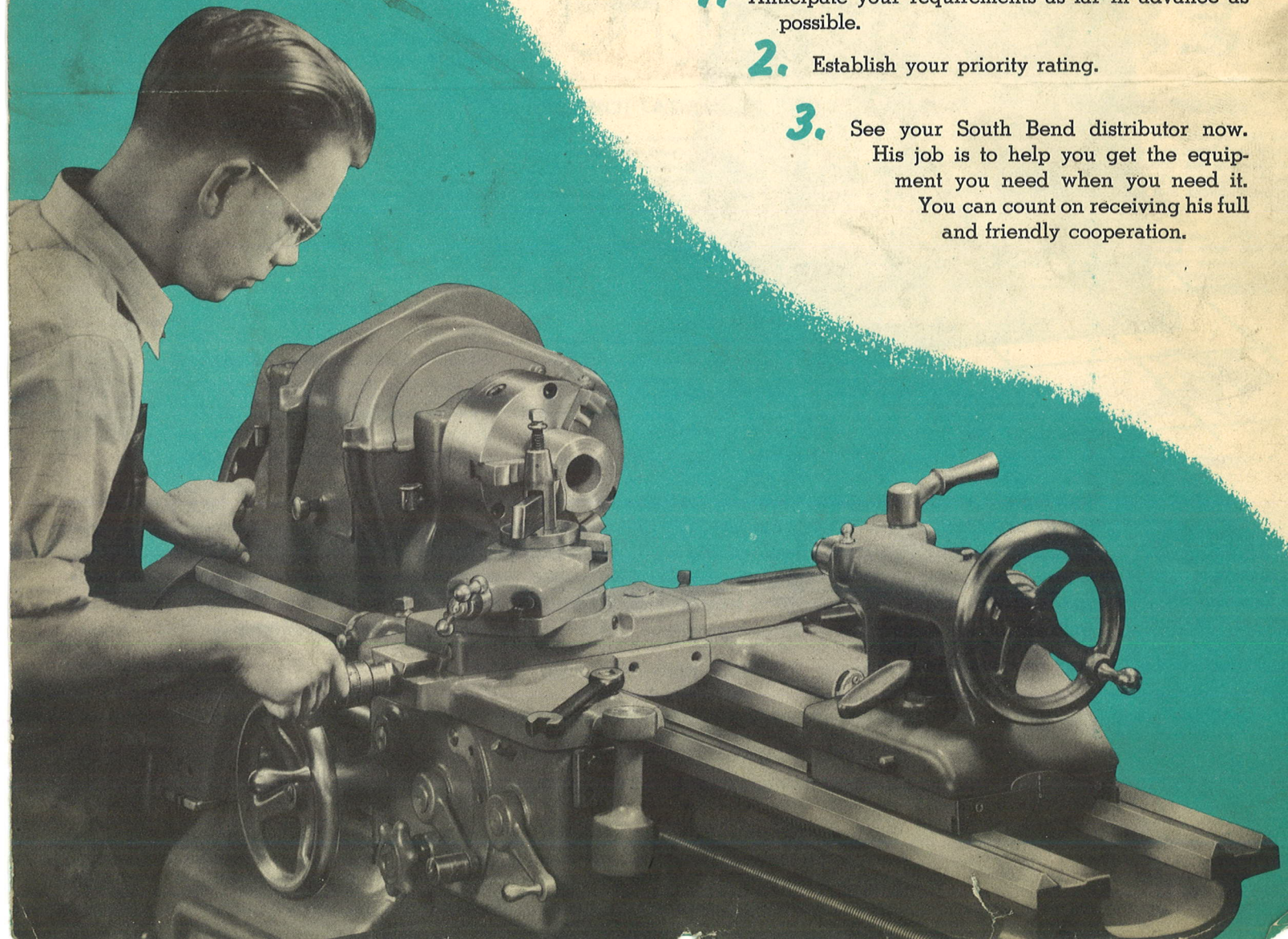
## 13" SWING *Precision* LATHES

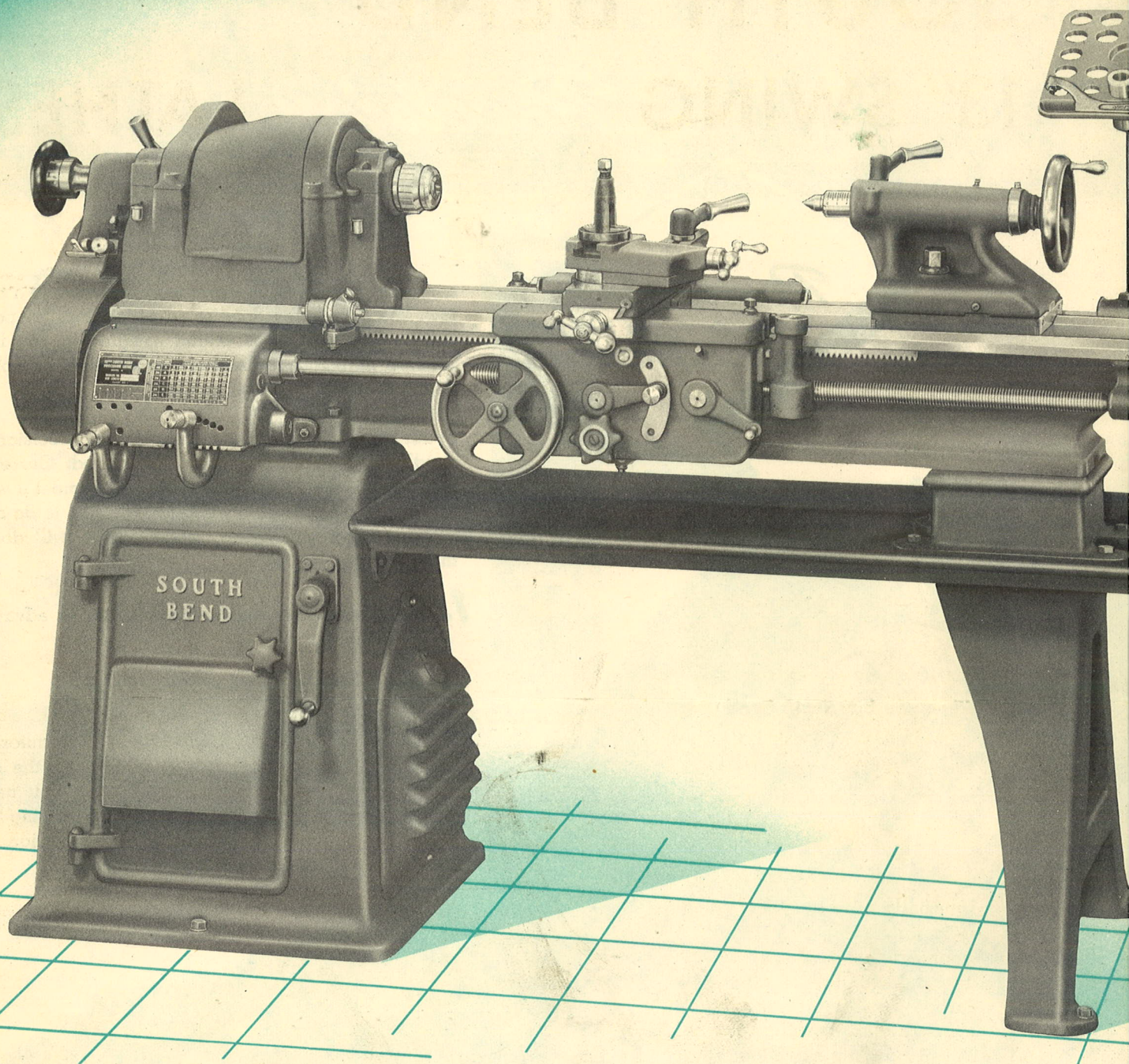
*Remember  
this...*

a priority rating is not a privilege extended to a chosen few. We believe the defense administrators are not only willing but anxious to extend a rating to you for the precise object of increasing production, if you will demonstrate your actual needs.

South Bend Lathes—now as always—are precision built, rigidly inspected, and thoroughly tested. Current demand is heavy; we are doing our best to meet it without sacrificing quality. And we shall continue to do so. But we can serve you better, faster, if you will do these three things:

1. Anticipate your requirements as far in advance as possible.
2. Establish your priority rating.
3. See your South Bend distributor now. His job is to help you get the equipment you need when you need it. You can count on receiving his full and friendly cooperation.





**CL8145B. 13" 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 1665 pounds.**

*from the  
smallest job shops...*



# SOUTH BEND 13"

# Precision

With the skill acquired through more than forty-five years of experience in building fine machine tools, precision is built into every part of the South Bend 13-inch Lathe. Thorough engineering and conscientious workmanship are combined in it to give you a tool that is capable of machining work to the most exacting tolerances. Each lathe is carefully inspected and tested before it is approved for shipment to you.

**When you buy South Bend you buy precision.**

# Ruggedness

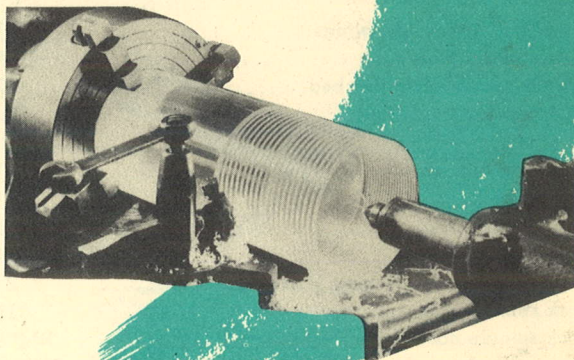
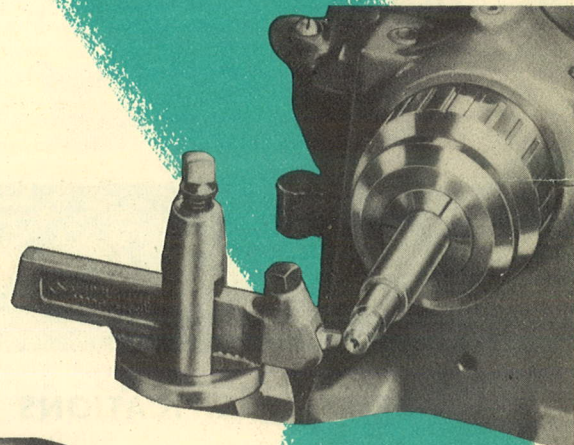
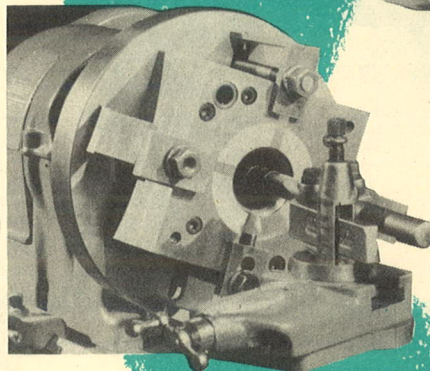
The South Bend 13" Lathe is perfectly proportioned. It has the power and rigidity for handling all work within its capacity, and is built to retain its accuracy through years of service. The substantial design of this lathe makes it possible to hold close tolerances even on roughing cuts. Rugged construction plus high precision makes this 13" lathe a profitable tool for any shop.

**When you buy South Bend you buy ruggedness.**

# Versatility

Unusually wide ranges of spindle speeds, power feeds for turning and facing, and thread cutting feeds assure maximum efficiency and adaptability. It makes no difference whether you are machining carbon steel or turning plastic, you will always get dependable work from this 13" lathe. Its size makes it convenient to handle on the smallest and most delicate precision parts and the 13" swing provides capacity for larger classes of work. With the complete line of attachments and accessories that can be supplied, the variety of jobs you can do on this lathe is practically unlimited.

**When you buy South Bend you buy versatility.**



# Precision LATHES

...to the largest industries...

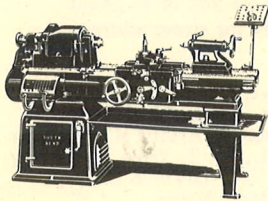


# South Bend Lathe DISTRIBUTORS

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.

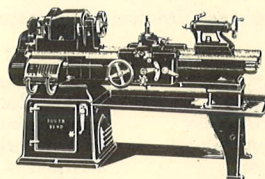
- Akron Ohio,** Reynolds Machinery  
**Albany, N. Y.,** Sager-Spuck Supply  
**Albuquerque, N. M.,** Harry Cornelius  
**Albuquerque, N. M.,** Equipment Sales  
**Atlanta, Ga.,** Chandler Machinery  
**Auburn, Me.,** W. D. Matthews Machinery  
**Baltimore, Md.,** Carey Machinery & Sup.  
**Bangor, Me.,** N. H. Bragg & Sons  
**Bethlehem, Pa.,** Carl-Frome Machinery  
**Billings, Mont.,** Hines Motor Supply  
**Binghamton, N. Y.,** Binghamton Industrial Supply  
**Birmingham, Ala.,** Young & Vann  
**Boise, Idaho,** Salt Lake Hardware  
**Borger, Tex.,** Bradley Industrial Supply  
**Bozeman, Mont.,** Hines Motor Supply  
**Brownsville, Tex.,** Alamo Iron Works  
**Buffalo, N. Y.,** R. C. Neal  
**Calgary, Alta.,** A. R. Williams Machinery  
**Calgary, Alta.,** Canadian Fairbanks-Morse  
**Cambridge, Mass.,** Packard Machinery  
**Charleston, S. C.,** Charleston Supply  
**Charleston, W. Va.,** Wm. S. Bolden  
**Charlotte, N. C.,** Smith-Wadsworth  
**Chattanooga, Tenn.,** Jones-Sylar Supply  
**Chicago, Ill.,** H. J. Volz Machinery  
**Cincinnati, Ohio,** Wm. T. Johnston Co.  
**Cleveland, Ohio,** Reynolds Machinery  
**Columbia, S. C.,** Columbia Supply  
**Columbus, Ohio,** Reynolds Machinery  
**Corpus Christi, Tex.,** Alamo Iron Works  
**Dallas, Tex.,** Nicholas & Parks Machinery  
**Danville, Ill.,** Danville Industrial Supply  
**Dayton, Ohio,** C. H. Gosiger Machinery  
**Decatur, Ill.,** Morehouse & Wells  
**Denver, Colo.,** M. L. Foss  
**Des Moines, Ia.,** Iowa Machinery & Supply  
**Detroit, Mich.,** Lee Machinery  
**Detroit, Mich.,** Robert F. Brown Machinery  
**Dodge City, Kan.,** Scheufler Supply  
**Duluth, Minn.,** W. P. & R. S. Mars  
**Durham, N. C.,** Dillon Supply  
**Edmonton, Alta.,** Can. Fairbanks-Morse  
**Elmira, N. Y.,** LeValley McLeod  
**El Paso, Tex.,** Zork Hardware  
**Erie, Pa.,** R. P. Anderson, Machinery  
**Evansville, Ind.,** Housh Industrial Supplies  
**Flint, Mich.,** Factory Tool & Supply  
**Florence, S. C.,** O'Brian-Mace  
**Ft. Smith, Ark.,** Lyons Machinery  
**Fort Wayne, Ind.,** Tools & Abrasives  
**Fort William, Ont.,** Can. Fairbanks-Morse  
**Ft. Worth, Tex.,** Well Machinery  
**Goldsboro, N. C.,** Dillon Supply  
**Grand Junction, Colo.,** Salt Lake Hdwe.  
**Great Bend, Kan.,** Scheufler Supply  
**Great Falls, Mont.,** Hines Motor Supply  
**Greensboro, N. C.,** Smith-Courtney  
**Greenville, S. C.,** Carolina Supply  
**Halifax, N. S.,** A. R. Williams Machinery  
**Hamden, Conn.,** Gilbert & Richards  
**Hickory, N. C.,** Smith-Courtney  
**Houston, Tex.,** Wessendorff, Nelms  
**Indianapolis, Ind.,** Kenneth J. Galm  
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**Jackson, Miss.,** J. E. Dilworth  
**Joplin, Mo.,** Industrial Equipment  
**Kansas City, Mo.,** Bossert Tool & Supply  
**Knoxville, Tenn.,** The W. S. Murrian Co.  
**Lewistown, Mont.,** Hines Motor Supply  
**Little Rock, Ark.,** Lyons Machinery  
**Longmeadow, Mass.,** Arthur H. MacBriar  
**Los Angeles, Cal.,** W. T. Wills Machinery  
**Louisville, Ky.,** Neill-LaVielle Supply  
**Lubbock, Tex.,** Mac Austin  
**Lynchburg, Va.,** Ferebee Johnson  
**Memphis, Tenn.,** Lewis Supply  
**Menominee, Mich.,** Christensen Mchy.  
**Miami, Fla.,** General Equipment & Supply  
**Miles City, Mont.,** Hines Motor Supply  
**Milwaukee, Wis.,** W. A. Voell Machinery  
**Mobile, Ala.,** Turner Supply  
**Moline, Ill.,** John J. Normoyle  
**Montreal, Que.,** A. R. Williams Machinery  
**Muskegon, Mich.,** Lakeshore Machinery  
**Nashville, Tenn.,** Keith-Simmons  
**Natchez, Miss.,** Peerless Supply  
**Newark, N. J.,** Stephenson Machinery  
**New Orleans, La.,** Stauss & Haas  
**New York, N. Y.,** A. C. Colby Machinery  
**Norfolk, Va.,** Taylor-Parker  
**Oklahoma City, Okla.,** Hart Ind. Supply  
**Omaha, Neb.,** Fuchs Machinery & Supply  
**Orlando, Fla.,** Harry P. Leu  
**Paducah, Ky.,** Hannan Supply  
**Peoria, Ill.,** Couch & Heyle  
**Philadelphia, Pa.,** W. B. Rapp  
**Pittsburgh, Pa.,** Tranter Mfg. Co.  
**Plainville, Conn.,** Ideal Machinery  
**Portland, Ore.,** Star Machinery  
**Providence, R. I.,** Reynolds  
**Raleigh, N. C.,** Dillon Supply  
**Regina, Sask.,** Canadian Fairbanks-Morse  
**Richmond, Va.,** Smith-Courtney  
**Roanoke, Va.,** Graves-Humphreys  
**Rochester, N. Y.,** Ogden R. Adams  
**Rockford, Ill.,** Factory Supplies  
**Rocky Mount, N. C.,** Dillon Supply  
**St. Louis, Mo.,** Colcord-Wright  
**St. Paul, Minn.,** Anderson Machine Tool  
**Salt Lake City, Utah,** Salt Lake Hdwe. Co.  
**San Antonio, Tex.,** Alamo Iron Works  
**San Francisco, Cal.,** Riley Precision Tool  
**Saskatoon, Sask.,** Can. Fairbanks-Morse  
**Savannah, Ga.,** Georgia Supply  
**Scranton, Pa.,** The Charles B. Scott Co.  
**Seattle, Wash.,** Star Machinery  
**Shreveport, La.,** Peerless Supply  
**Sioux City, Ia.,** Sioux Machinery & Supply  
**Spokane, Wash.,** Star Machinery  
**Springfield, Ill.,** James Machinery  
**Springfield, Mo.,** Industrial Equipment  
**Syracuse, N. Y.,** Syracuse Supply  
**Toledo, Ohio,** Reynolds Machinery  
**Toronto, Ont.,** A. R. Williams Machinery  
**Tulsa, Okla.,** Krisman Industrial Supply  
**Utica, N. Y.,** Charles Millar & Son  
**Vancouver, B. C.,** A. R. Williams Mchy.  
**Victoria, B. C.,** A. R. Williams Machinery  
**Washington, D. C.,** Carey Mchy. & Supply  
**Watertown, N. Y.,** Thos. H. Bradley  
**Wichita, Kan.,** Watkins Inc.  
**Williamsport, Pa.,** Lowry Electric  
**Wilmington, N. C.,** Mill & Cont. Supply  
**Winnipeg, Man.,** Can. Fairbanks-Morse  
**Winnipeg, Man.,** A. R. Williams Mchy.  
**Winston-Salem, N. C.,** Kester Machinery  
**Wytheville, Va.,** R. P. Johnson  
**York, Pa.,** York Machinery & Supply

# South Bend Lathe PRODUCTS



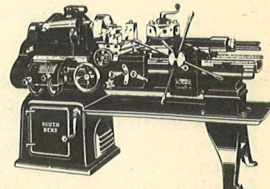
## TOOLROOM LATHES

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.



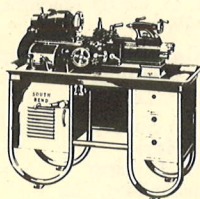
## QUICK CHANGE LATHES

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.



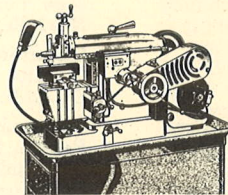
## TURRET LATHES

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.



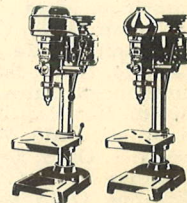
## BENCH LATHES

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.



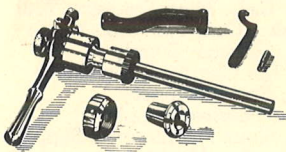
## SHAPERS

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.

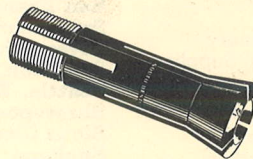


## DRILL PRESSES

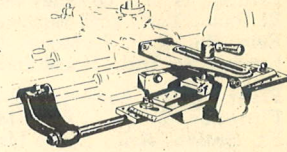
South Bend 14" Drill Presses are made in both bench and floor types. Precision models are available in one spindle, two spindle, three spindle, and four spindle designs. Ruggedly constructed with free-floating spindle, four precision ball bearings, built-in work light, and precision ground work surface;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



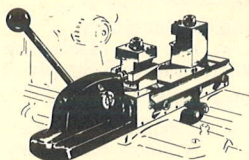
COLLET ATTACHMENT



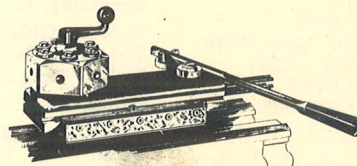
COLLETS



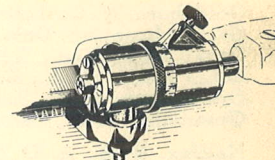
TAPER ATTACHMENT



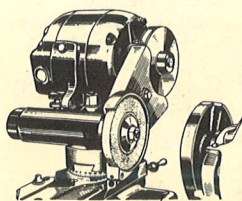
DOUBLE TOOL CROSS SLIDE



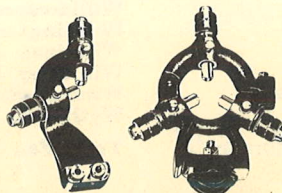
HANDLEVER BED TURRET



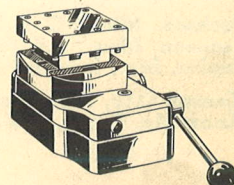
MICROMETER CARRIAGE STOP



GRINDING ATTACHMENT



STEADY REST  
and FOLLOWER REST



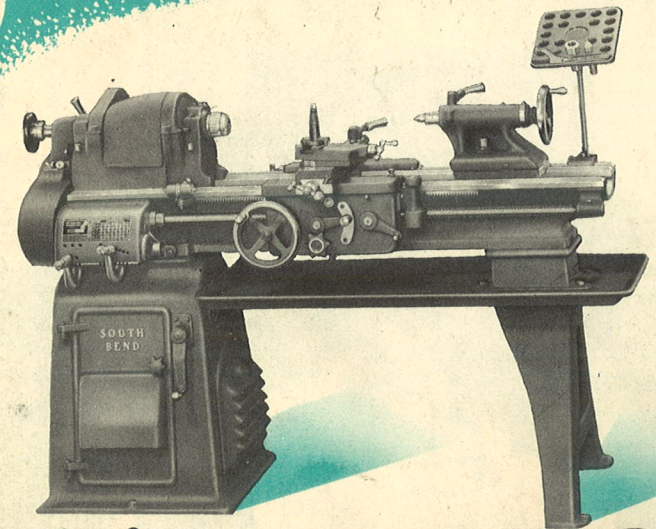
TURRET TOOL BLOCK

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

PLEASE NOTE: If you received more than one copy of this Bulletin, PLEASE tear off and return to us the address section. We shall appreciate your cooperation and you will be assured of receiving future copies of our Catalogs and Bulletins. THANK YOU.

**13"**

**SOUTH BEND**



*Precision* **LATHES**



**SOUTH BEND LATHE WORKS**

*Building Better Tools Since 1906*

SOUTH BEND 22, INDIANA, U.S.A.

# 13-inch Swing South Bend Lathes

## BRIEF SPECIFICATIONS

Swing over bed and saddle wings.....	13 $\frac{1}{8}$ "
Swing over saddle cross slide.....	8"
Between centers with five foot bed.....	28"
Centers, Morse taper.....	No. 3
Collet capacity, maximum.....	1"
Compound rest top, angular hand feed.....	3 $\frac{1}{8}$ "
Cross slide travel.....	8 $\frac{1}{8}$ "
Feeds, cross (48).....	.0006" to .0313"
Feeds, longitudinal (48).....	.0015" to .0841"
Headstock spindle front bearing, diameter.....	2 $\frac{1}{4}$ "
Headstock spindle hole.....	1 $\frac{3}{8}$ "
Headstock spindle nose threads.....	2 $\frac{1}{4}$ "—8
Lead screw, 29° Acme thread.....	1" dia. 6 threads
Motor, size required.....	1 h.p.
Spindle speeds, eight, approximately.....	40 to 940 r.p.m.
Tailstock spindle travel.....	4 $\frac{1}{4}$ "
Tailstock top set-over for taper turning.....	15 $\frac{1}{16}$ "
Thread cutting range—48 pitches, R.H. or L.H.....	4 to 224 per inch
Tool holder takes cutter bit.....	5 $\frac{1}{16}$ " sq.
Tool post takes tool holder shank.....	1 $\frac{1}{2}$ " x 1 $\frac{1}{8}$ "

## 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