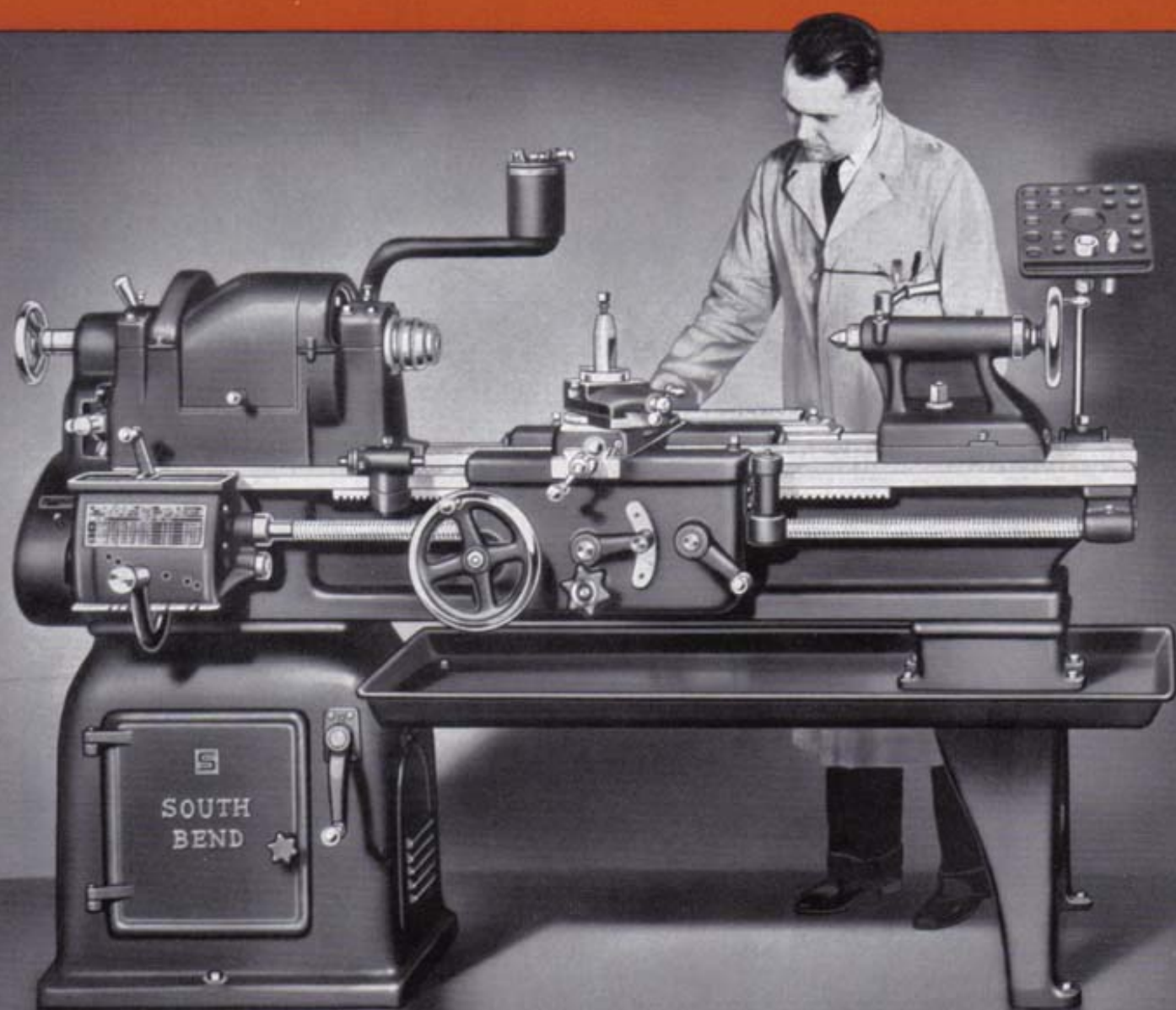


The New South Bend 16-inch Precision Lathes

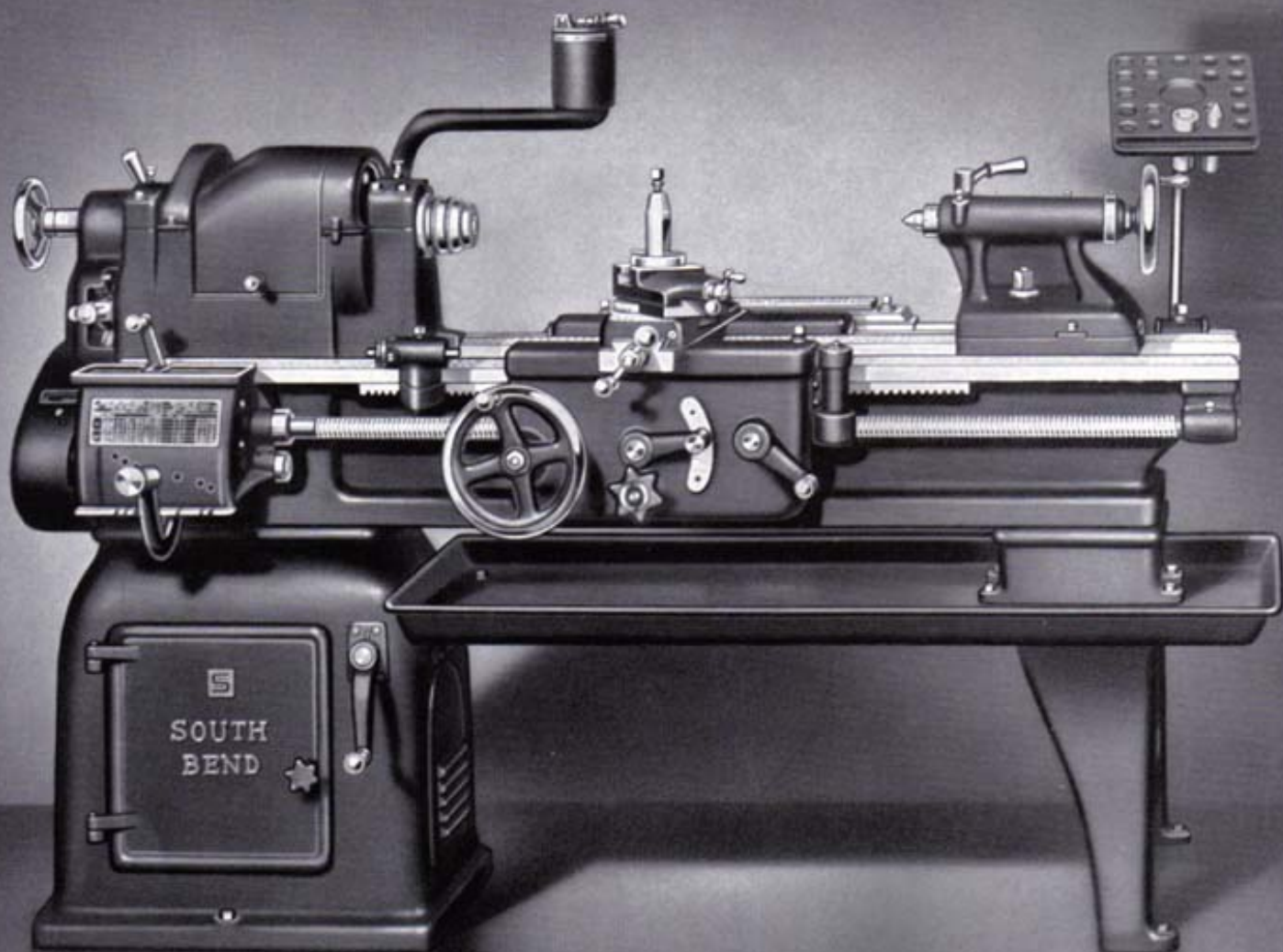


SOUTH BEND LATHE WORKS

Lathe Builders Since 1906

503 NILES AVENUE, SOUTH BEND, IND., U.S.A.





16" Underneath Motor Drive **\$1275⁰⁰** Tool Room Lathe

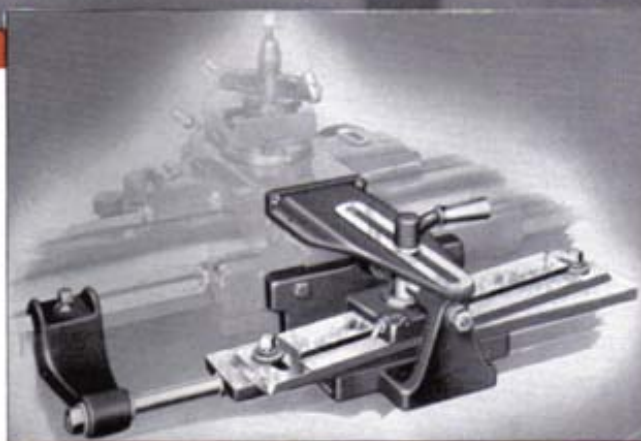
FOB Factory with 6 ft. Bed and 3-Phase Motor

The Underneath Belt Motor Drive is especially desirable for tool room lathes as it is very neat and attractive and permits placing the lathe in the most convenient location in the shop. The drive is fully enclosed and is silent, powerful and economical. The belt drive to the spindle is unusually smooth and is free from vibration. Price of lathe includes full quick change gear equipment, taper attachment, draw-in collet chuck attachment with one collet, collet rack, micrometer carriage stop, thread dial, chip pan, large and small face plates, tool post, thread cutting stop, centers, spindle sleeve, and wrenches.

Prices of 16-inch South Bend Underneath Motor Driven Tool Room Lathes (3-Ph., 60-Cy., A.C. Motor)

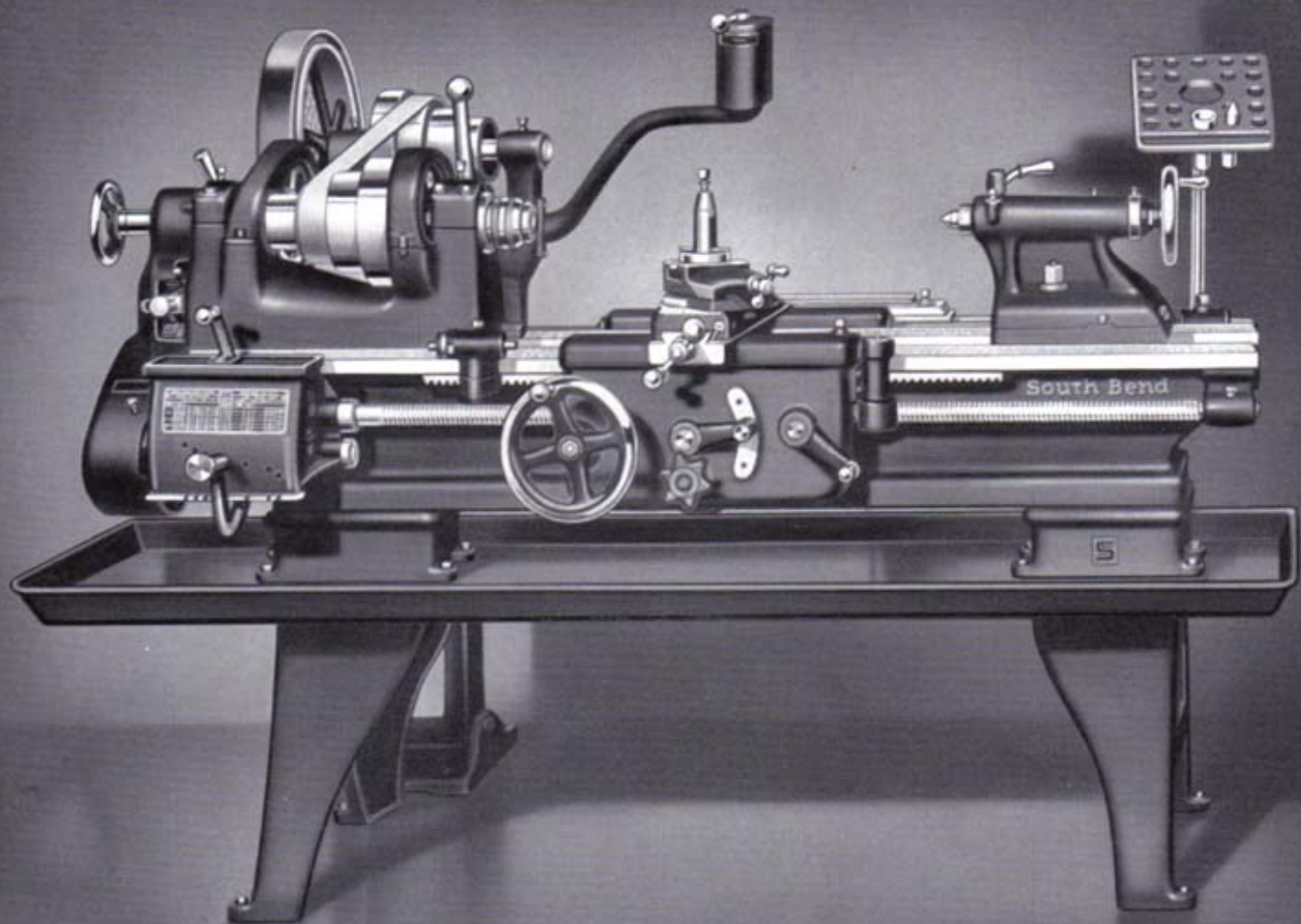
Swing Over Bed Inches	Length of Bed Feet	Distance Between Centers Inches	Swing Over Carriage Inches	Hole Through Spindle Inches	Collet Capacity Inches 1/2" up by 64ths to	Size Motor Used H.P.	Approx. Weight Crated Pounds	Catalog Number	Net Factory Price*
16 1/4	6	34	9 5/8	1 3/8	7/8	1	2525	8117-C	\$1275.00
16 1/4	7	46	9 5/8	1 3/8	7/8	1	2605	8117-D	1302.00
16 1/4	8	58	9 5/8	1 3/8	7/8	1	2685	8117-E	1329.00

*For Single Phase Motor add \$40.00. For D.C. Motor add \$82.00.



Telescopic Taper Attachment

The improved telescopic taper attachment supplied with each South Bend Tool Room Lathe turns tapers up to 3 inches per foot. The telescopic cross feed screw supplied with the taper attachment permits using the cross feed screw to adjust the cross slide for taper turning, as well as for straight turning. It is not necessary to disengage the cross feed nut for taper work.



16" Pedestal Motor Drive **\$1181⁰⁰** Tool Room Lathe

FOB Factory with 6 ft.
Bed and 3-Phase Motor

The Pedestal Motor Drive Tool Room Quick Change Gear Lathe is especially popular because of the ease and speed with which the cone pulley belt may be shifted to change spindle speeds. The lathe is unusually smooth running, as the motor and driving mechanism are supported by the tilting pedestal. Price of lathe includes motor, switch, belting, wiring, taper attachment, draw-in collet chuck attachment with one collet, collet rack, micrometer carriage stop, thread dial, oil pan, large and small face plates, tool post, thread cutting stop, centers, spindle sleeve, and wrenches.

Prices of 16-inch Pedestal Motor Driven Tool Room Lathes
(3-Ph., 60-Cy., A.C. Motor)

Swing Over Bed Inches	Length of Bed Feet	Distance Between Centers Inches	Swing Over Carriage Inches	Hole Through Spindle Inches	Collet Capacity Inches 1" up by 64ths to	Size Motor Used H.P.	Approx. Weight Crated Pounds	Catalog Number	Net Factory Price ¹
16 1/4	6	34	9 1/2	1 1/2	7/8	1	2415	8917-C	\$1181.00
16 1/4	7	46	9 1/2	1 1/2	1	1	2495	8917-D	1208.00
16 1/4	8	58	9 1/2	1 1/2	1 1/8	1	2575	8917-E	1235.00

¹For Single Phase Motor add \$12.00. For D.C. Motor add \$77.00.

Write for General Catalog



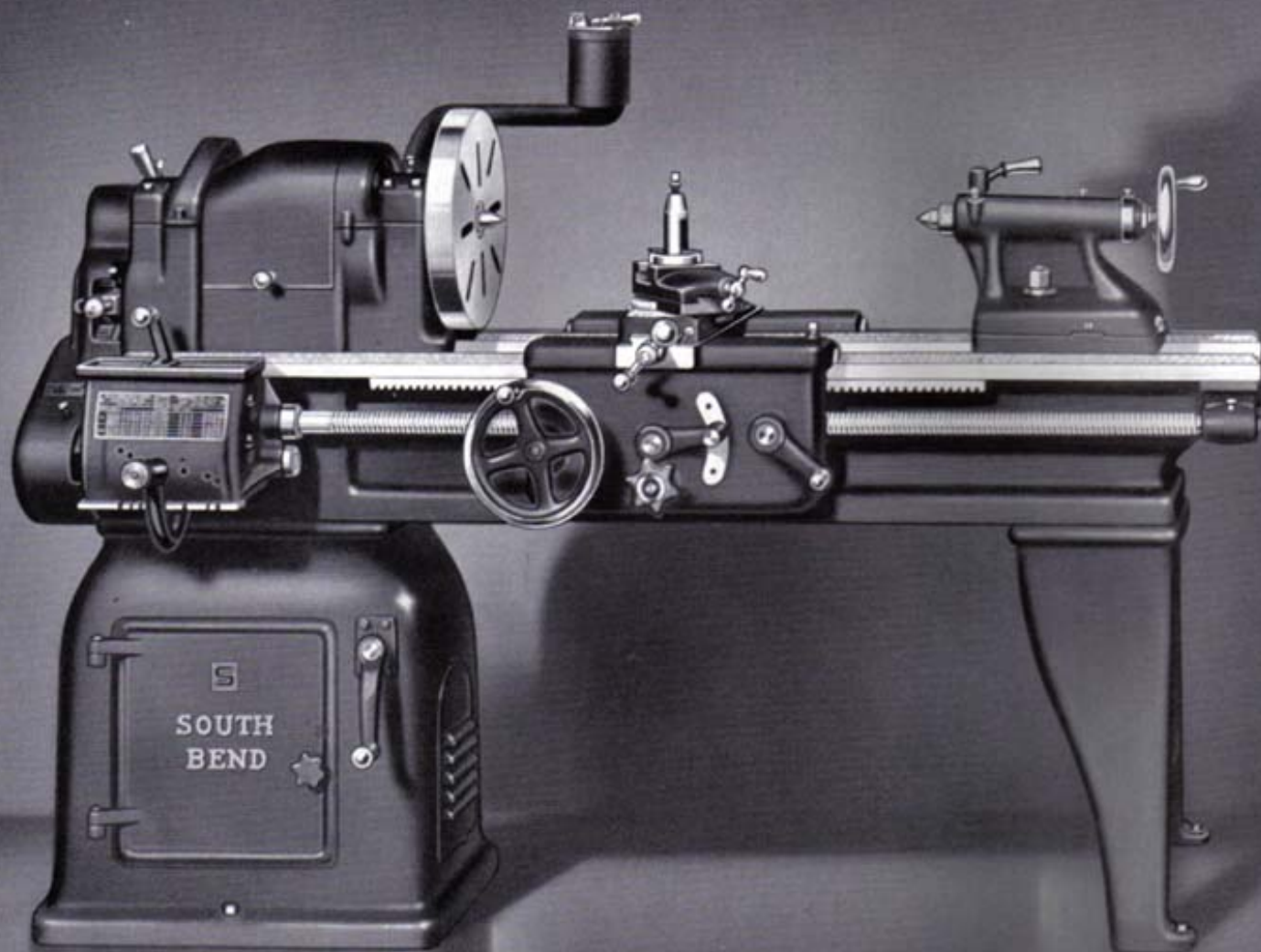
Hand Wheel Draw-in Collet Chuck Attachment

Thread
Dial
Indicator



Microm-
eter
Carriage
Stop





16" Underneath Motor Drive **\$969⁰⁰** Quick Change Gear Lathe

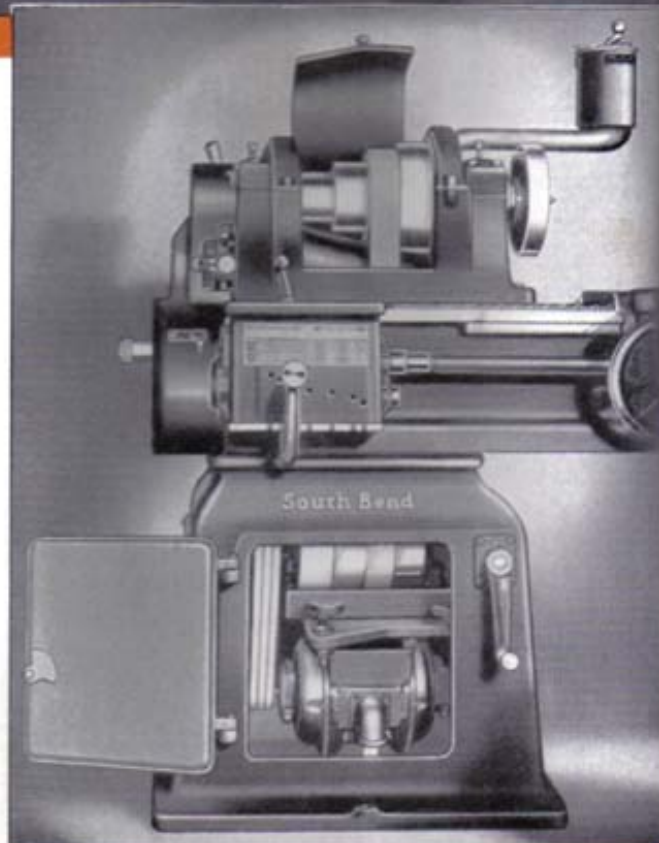
FOB Factory with 6 ft. Bed and 3-Phase Motor

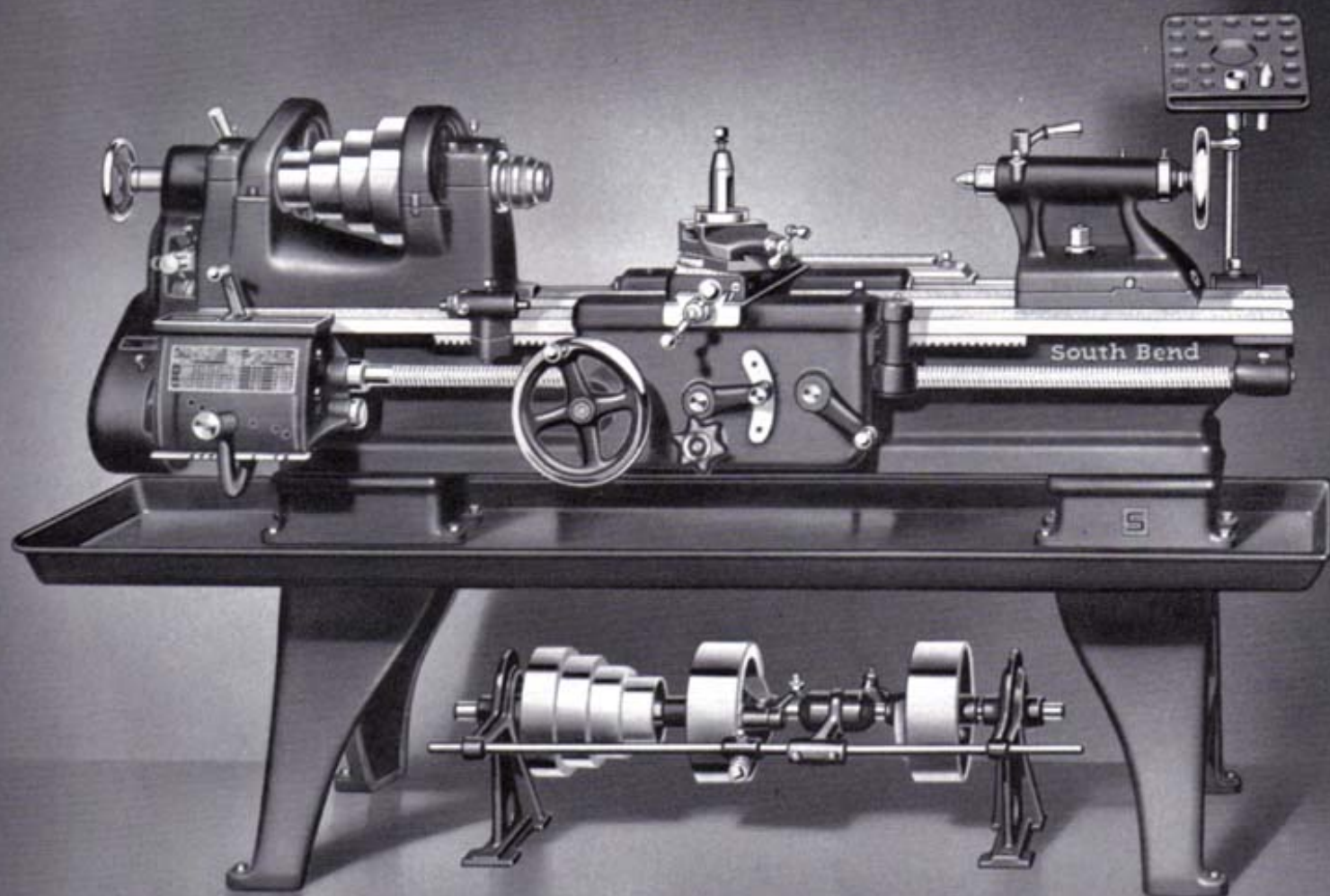
The South Bend Underneath Motor Drive is the most practical direct drive ever designed for a back-gear screw cutting lathe. The belt drive to the spindle is silent in operation and provides a smooth, steady pull free from vibration and chatter. A belt tension release lever permits easy shifting of the cone pulley belt to change spindle speeds. Belt tension adjustment is provided for taking up belt stretch. Prices listed below include motor, switch, belting, wiring, large and small face plates, tool post, thread cutting stop, centers, spindle sleeve, quick change gear box or set of independent change gears, and wrenches.

Prices of 16-inch South Bend Underneath Belt Motor Driven Lathes
(3-Ph., 60-Cy., A.C. Motor)

Swing Over Bed Inches	Length of Bed Feet	Distance Between Centers Inches	Hole Through Spindle Inches	Size Motor Used H.P.	Approx. Weight Grated Pounds	Standard Change Gear Lathes		Quick Change Gear Lathes	
						Catalog Number	Net Factory Price ^a	Catalog Number	Net Factory Price ^a
16 1/4	6	34	1 1/2	1	2300	123-C	\$889.00	117-C	\$969.00
16 1/4	7	46	1 1/2	1	2380	123-D	911.00	117-D	991.00
16 1/4	8	58	1 1/2	1	2460	123-E	933.00	117-E	1013.00
16 1/4	10	82	1 1/2	1	2620	123-G	981.00	117-G	1061.00
16 1/4	12	106	1 1/2	1	2850	123-H	1048.00	117-H	1128.00

^aFor Single Phase Motor add \$40.00. For D.C. Motor add \$82.00.





16" Countershaft Drive **\$1040⁰⁰** Tool Room Lathe

*FOB Factory with 6 ft.
Bed and Countershaft*

The Countershaft Driven Tool Room Quick Change Gear Lathe is popular for use in tool and die shops that are equipped with lineshafts for power. The wide range of spindle speeds and smooth operation resulting from the belt drive to the spindle are especially valuable for this class of work. This lathe is also used for manufacturing operations requiring tool room type equipment. Price of lathe includes double friction countershaft, taper attachment, draw-in collet chuck attachment with one collet, collet rack, micrometer carriage stop, thread dial, oil pan, large and small face plates, tool post, thread cutting stop, centers, spindle sleeve, and wrenches.

Prices of 16-inch South Bend Countershaft Driven Tool Room Lathes

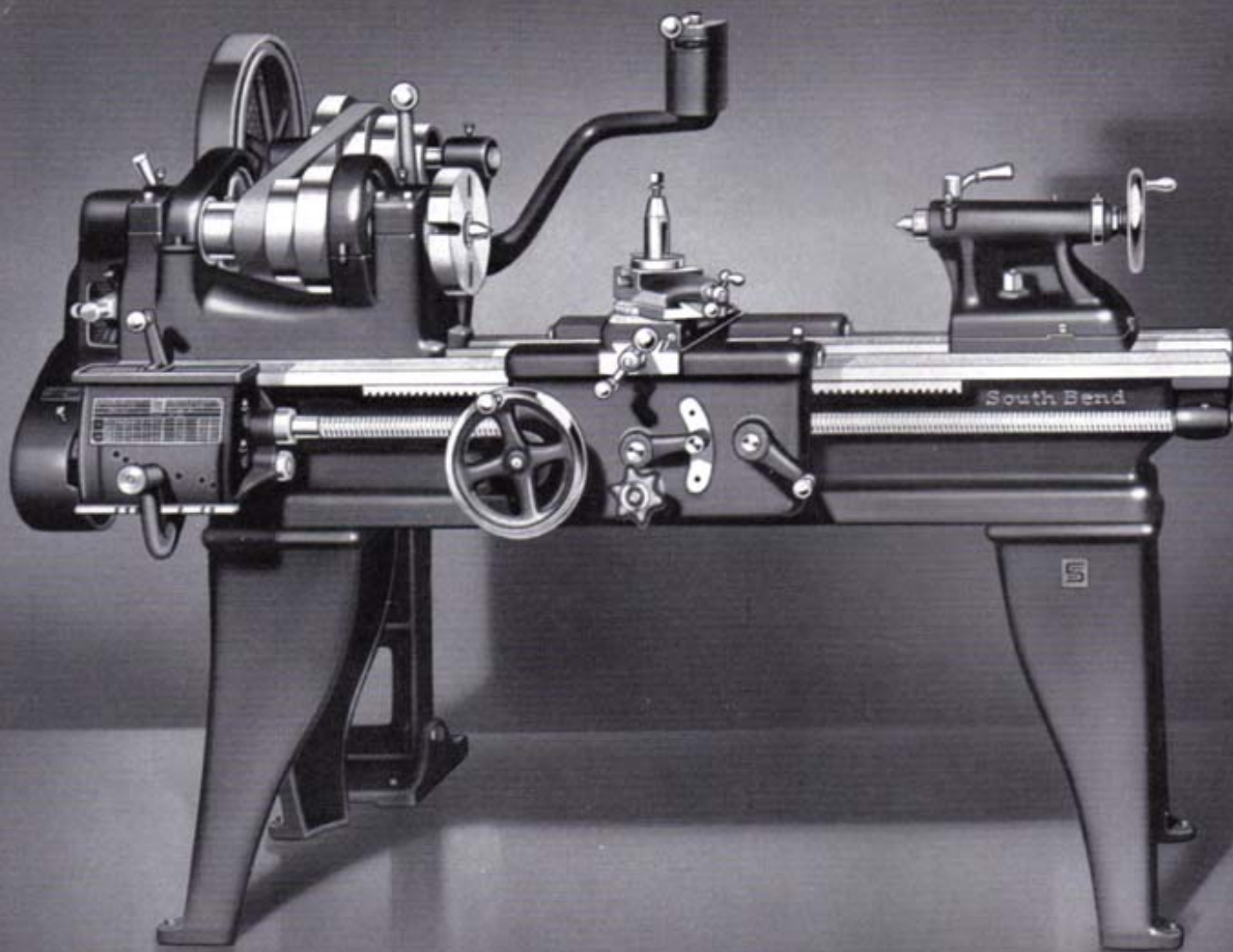
Swing Over Bed Inches	Length of Bed Feet	Distance Between Centers Inches	Swing Over Carriage Inches	Hole Through Spindle Inches	Collet Capacity Inches 1/8" up by 64ths	Power Required H.P.	Approx. Weight Crated Pounds	Catalog Number	Net Factory Price
16 1/4	6	34	9 1/2	1 1/2	1/2	1	2125	8017-C	\$1040.00
16 1/4	7	46	9 3/4	1 3/4	1/2	1	2205	8017-D	1067.00
16 1/4	8	58	9 3/4	1 3/4	1/2	1	2285	8017-E	1094.00

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Features

APPLYING TO ALL TYPES OF
16-INCH SOUTH BEND LATHES

- Heat treated alloy steel headstock spindle
- Hardened and ground taper hole in spindle
- Phosphor bronze spindle bearings, adjustable
- Quick-acting wrenchless bull gear lock
- Self-ejecting tailstock center
- Graduated tailstock spindle, double plug binder
- Semi-steel lathe bed with hand scraped V-ways
- Adjustable taper gibs on dovetail bearings
- Multiple disc friction clutch in apron
- Quick-acting reverse for power feeds
- Precision lead screw for thread cutting
- Automatic safety interlock for threads and feeds
- Compound rest graduated 180°, swivels any angle
- Large micrometer collars on feed screws
- Double wall apron with steel gears running in oil



16" Pedestal Motor Drive **\$863⁰⁰** Quick Change Gear Lathe

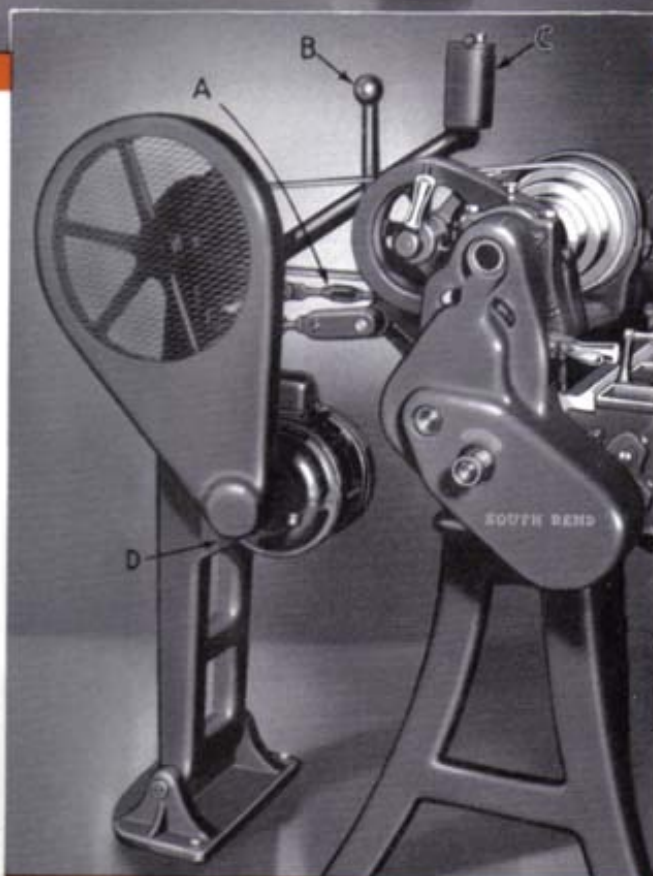
FOB Factory with 6 ft. Bed and 3-Phase Motor

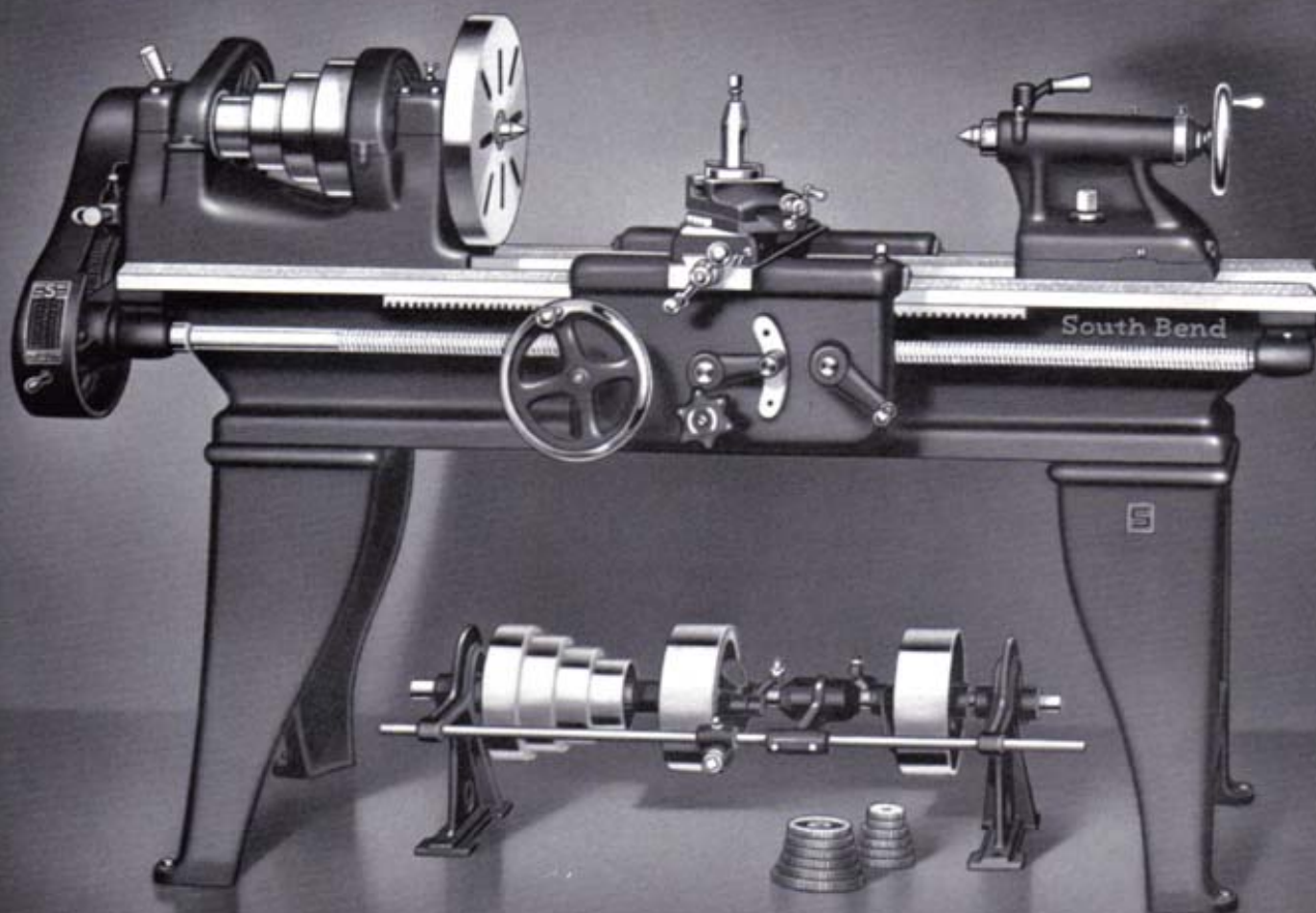
The South Bend Pedestal Motor Driven Lathe is convenient, efficient and reasonable in price. The belt tension release lever permits easy shifting of the cone pulley belt, and belt tension adjustment is provided for taking up belt stretch. The lathe is relieved of all vibration and strain as the motor and counter-shaft are supported entirely by the tilting pedestal. Equipment includes motor, switch, belting, wiring, large and small face plates, tool post, thread cutting stop, centers, spindle sleeve, quick change gear box or set of independent change gears, and wrenches.

Prices of 16-inch Pedestal Motor Driven Lathes
(3-Ph., 60-Cy., A.C. Motor)

Swing Over Bed Inches	Length of Bed Feet	Distance Between Centers Inches	Hole Through Spindle Inches	Size Motor Used H.P.	Approx. Weight Crated Pounds	Standard Change Gear Lathes		Quick Change Gear Lathes	
						Catalog Number	Net Factory Price ^a	Catalog Number	Net Factory Price ^a
16 $\frac{1}{4}$	6	34	1 $\frac{3}{8}$	1	2165	923-C	\$785.00	917-C	\$863.00
16 $\frac{1}{4}$	7	46	1 $\frac{3}{8}$	1	2245	923-D	805.00	917-D	885.00
16 $\frac{1}{4}$	8	58	1 $\frac{3}{8}$	1	2325	923-E	827.00	917-E	907.00
16 $\frac{1}{4}$	10	82	1 $\frac{3}{8}$	1	2485	923-G	875.00	917-G	955.00
16 $\frac{1}{4}$	12	106	1 $\frac{3}{8}$	1	2715	923-H	942.00	917-H	1022.00

^aFor Single Phase Motor add \$12.00. For D.C. Motor add \$77.00.





16" Countershaft Drive **\$642⁰⁰** Standard Change Gear Lathe FOB Factory with 6 ft. Bed and Countershaft

The Countershaft Driven Lathe represents the maximum value per dollar of cost for shops that are equipped with lineshaft for power. The countershaft has two friction clutch pulleys, which permits reversing the lathe spindle, or if an unusually wide speed range is wanted, two forward countershaft speeds may be obtained. Equipment included in the price of the lathe consists of: countershaft, large and small face plates, tool post, thread cutting stop, centers, spindle sleeve, quick change gear box or set of independent change gears, and wrenches.

Prices of 16-inch South Bend Countershaft Driven Lathes

Swing Over Bed Inches	Length of Bed Feet	Distance Between Centers Inches	Hole Through Spindle Inches	Swing Over Carriage Inches	Approx Weight Crated Pounds	Standard Change Gear Lathes		Quick Change Gear Lathes	
						Catalog Number	Net Factory Price	Catalog Number	Net Factory Price
16 $\frac{1}{4}$	6	54	1 $\frac{3}{8}$	9 $\frac{5}{8}$	1875	23-C	\$642.00	17-C	\$722.00
16 $\frac{1}{4}$	7	46	1 $\frac{3}{8}$	9 $\frac{5}{8}$	1955	23-D	664.00	17-D	744.00
16 $\frac{1}{4}$	8	58	1 $\frac{3}{8}$	9 $\frac{5}{8}$	2035	23-E	686.00	17-E	766.00
16 $\frac{1}{4}$	10	82	1 $\frac{3}{8}$	9 $\frac{5}{8}$	2195	23-G	734.00	17-G	814.00
16 $\frac{1}{4}$	12	106	1 $\frac{3}{8}$	9 $\frac{5}{8}$	2425	23-H	801.00	17-H	881.00

Specifications

APPLYING TO ALL TYPES OF
16-INCH SOUTH BEND LATHES

Swing over lathe bed.....	16 $\frac{1}{4}$ in.
Swing over saddle slide.....	9 $\frac{5}{8}$ in.
Spindle nose.....	2 $\frac{3}{8}$ in. diam., 6 threads
Hole through spindle.....	1 $\frac{3}{8}$ in.
Maximum collet capacity.....	$\frac{7}{8}$ in.
Centers, head and tail.....	No. 3 Morse Taper
Cone pulley belt width.....	2 $\frac{1}{4}$ in.
8 spindle speeds.....	17 to 597 R.P.M.
Thread cutting range.....	2 to 112 per in.
Compound rest top, angular feed.....	3 $\frac{3}{4}$ in.
Tailstock top, set-over for taper turning.....	1 in.
Tailstock spindle travel.....	5 $\frac{3}{4}$ in.
Recommended countershaft speed.....	225 R.P.M.
Lead screw, diameter and threads.....	1 $\frac{1}{8}$ in.—6
Size cutter bit recommended.....	$\frac{3}{8}$ in. sq.



Heat Treated Spindle with All Bearing Surfaces Hardened

Outstanding Features of South Bend Lathes

Heat Treated Spindle

The Headstock Spindle is made of a special quality of alloy spindle steel. All bearing surfaces on the spindle are hardened and ground, including the taper hole for the center sleeve. The spindle bearings are of best quality phosphor bronze and are adjustable for wear.

Double Wall Apron

The Double Wall Apron is of the rigid, one-piece box type construction and provides a substantial support for both ends of the gear shafts. Gears in the apron are of steel and have reservoir and felt wick automatic oiling system. A powerful multiple disc friction clutch operates both the automatic cross feeds and automatic longitudinal feeds.

Improved Compound Rest

The Improved Compound Rest is accurately graduated and swivels to any angle for machining bevels and tapers. There are no pockets to catch dirt and chips, and the compound rest top is rounded so that chips roll off instead of collecting there. The dovetail slides are carefully hand-scraped and lapped and are equipped with adjustable tapered gibbs.

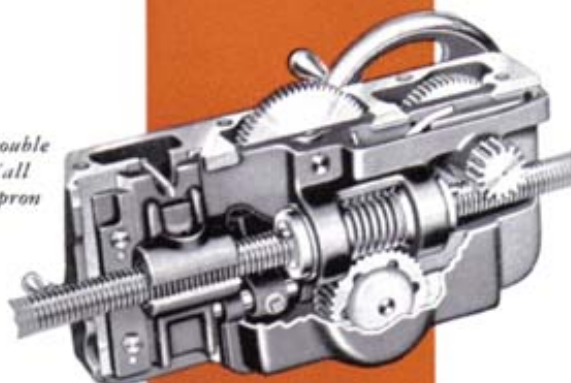
Full Quick Change Gear Box

The Full Quick Change Gear mechanism provides for cutting a complete range of 48 right and left hand screw threads from 2 to 112 per inch without removing a gear. In addition, the gear box also provides an unusually wide range of power cross feeds and power longitudinal feeds. All gears in the gear box are made of steel.

Semi-Steel Lathe Bed

The Lathe Bed is heavily constructed with large box braces cast in at short intervals. The bed casting is semi-steel (50% steel-50% gray iron), a hard, close-grained metal of uniform structure all the way through, having unusual strength and long wearing qualities. The bed ways are carefully hand-scraped the entire length of the bed, and felt pads attached to each end of the saddle clean and oil the V-ways so that wear is reduced to a minimum.

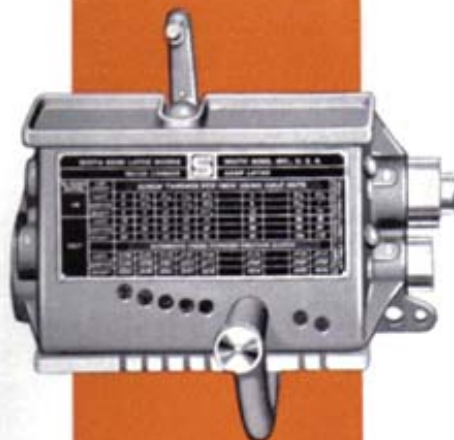
*Double
Wall
Apron*



*Improved
Compound
Rest*



*Full
Quick
Change
Gear
Box*



*Semi-
Steel
Bed*



Write for General Catalog

A Few Users of South Bend Lathes

Illustrated at the right are the shops of three well known manufacturers using South Bend Lathes. A few of the thousands of other nationally known users are listed below.



Scintilla Magneto Company, Inc., Sidney, N. Y.



Reece Button Hole Machine Company, Boston, Mass.



Parker Appliance Company, Cleveland, Ohio

Aluminum Company of America
Anheuser Busch, Inc.
Atlas Powder Company

Bantam Ball Bearing Company
Bendix Aviation Corporation
Berghoff Products Company
Bethlehem Steel Company
Black & Decker
Buescher Band Instrument Co.
Buick Motor Company
Burroughs Adding Machine Co.

Carborundum Company
J. I. Case Company
Caterpillar Tractor Company
Chevrolet Motor Car Co.
Chrysler Motor Corporation
Colts Patent Fire Arms Mfg. Co.
C. G. Conn, Ltd.
Crosley Radio Corporation
Cutler-Hammer, Inc.

John Deere Company
Dictaphone Corporation
Doehler Die-Casting Co.
E. I. duPont de Nemours Co.

Eastman Kodak Company
Elgin National Watch Co.
Evenrude Motor Company

Ford Motor Company

General Electric Company
General Radio Company
Goodyear Tire & Rubber Co.

Harley Davidson Motor Co.
The Hoover Company

Indian Motorcycle Company
International Harvester Co.

Jacobs Manufacturing Co.
Johnson & Johnson, Inc.
Johnson Motors

Leeds & Northrup Company

Mead Cycle Company

National Cash Register Co.
National Twist Drill & Tool Co.

Olds Motor Works
Oliver Farm Equipment Co.
Otis Elevator Company

Packard Motor Car Company
Philco Radio & Television Corp.
Pittsburg Plate Glass Company
Pontiac Motor Car Company

Radio Corporation of America
Remington Arms Company

Shakespeare Company
S.K.F. Industries, Inc.
Skinner Chuck Company
South Bend Bait Company
Sperry Gyroscope Company
Studebaker Corp. of America
Synthane Corporation

Timken Roller Bearing Company

Warner Swasey Company
Western Electric Company
Westinghouse Elec. & Mfg. Co.
Rudolph Wurlitzer Company

Zenith Radio Corporation



FACTORY

The factory of the South Bend Lathe Works was established in 1906 and for 33 years has been devoted to manufacturing lathes exclusively.



DISPLAY

In this factory display room more than 30 South Bend Lathes are set up and ready to demonstrate. Visitors are always welcome.

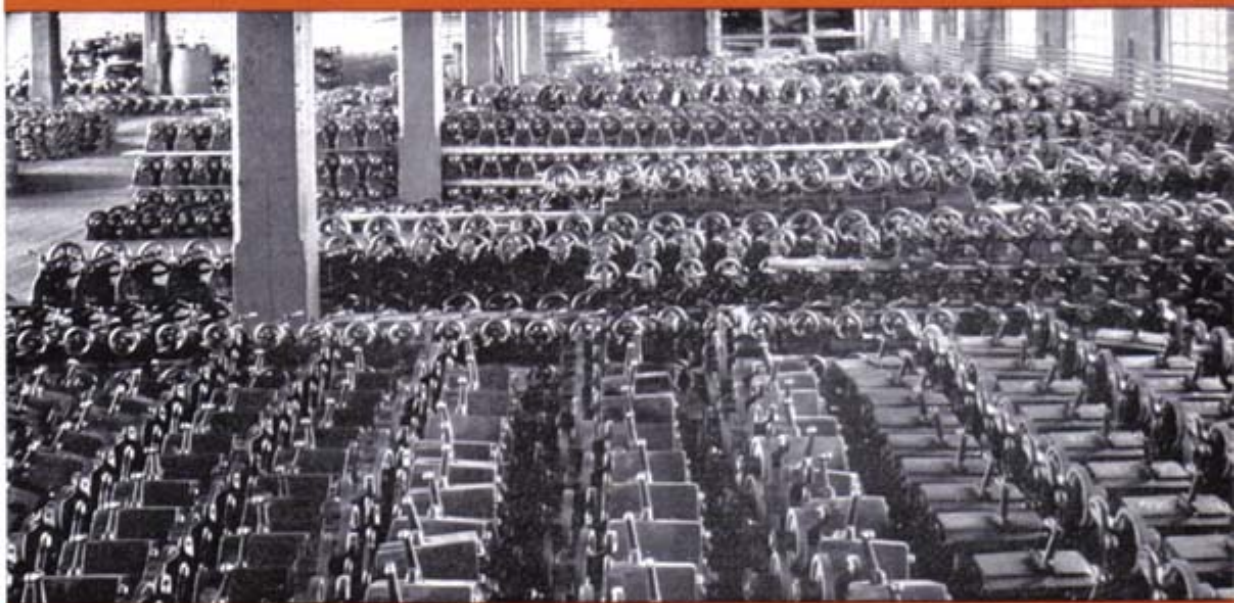


ASSEMBLY

This is the assembly floor for Underneath Belt Motor Driven Lathes. South Bend Lathes are assembled in large lots.

STOCK

Units for each size lathe are manufactured in lots of 300 to 1000 and are carried in stock ready for assembling any size or type of lathe.



PRODUCTION

The shops where parts for South Bend Lathes are machined are equipped with the most modern type of production machinery.



LATHES

In this room there are more than 50 South Bend Lathes in operation machining parts for South Bend Lathes.



South Bend Lathes

Built in Several Sizes and Types

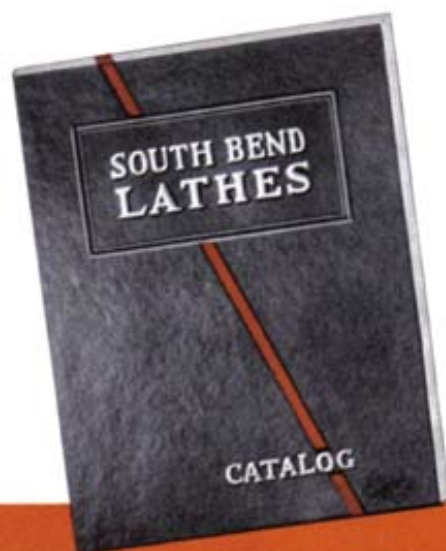
South Bend Lathes are made in 9", 11", 13", 14½", and 16-24" swing, in addition to the 16" swing lathes shown in this bulletin. Each size lathe is made in Standard Change Gear, Quick Change Gear, Overhead Countershaft Drive and Motor Drive types. Each size and type of lathe is made in several bed lengths. Prices range from \$85.00 to \$1411.00.

Attachments and Accessories for both tool room and production work can be supplied for any size or type of lathe. Tool room attachments include taper attachment, micrometer carriage stop, draw-in collet chuck attachment, thread dial indicator and chip pan. Manufacturing attachments include oil pan and pump, bed turret attachment, four-way tool post turret, hand lever double tool slide, etc.

Metric Equipment. All sizes and types of South Bend Lathes can be furnished with metric lead screw, metric cross feed screw and metric compound rest screw having metric graduated collars, metric graduations on tailstock spindle, metric graduations on taper attachment, and metric graduations on micrometer carriage stop. Transposing gears can be supplied for cutting English threads on lathes having metric lead screw, also for cutting metric threads on lathes having English lead screw. Information and prices on metric equipment supplied on request.

Power and Rigidity. South Bend Lathes have the power and rigidity for taking heavy cuts and the precision accuracy for the most exacting tool work. The highest standards of inspection are maintained throughout the process of manufacture, from the planing of the lathe bed to the final inspection tests. All dove tails and V-ways are carefully hand scraped, and all units are aligned to the most exacting specifications.

Guarantee. Every South Bend Lathe purchaser is fully protected by our money-back guarantee under which we have been manufacturing and selling South Bend Lathes for more than 33 years. Any size or type of South Bend Lathe will on request be shipped for a thirty-day trial. If for any reason you are not satisfied with the lathe you may return it freight collect, and we will refund your money.



Write for This Catalog

Mailed on Request — Postage Paid

All sizes and types of South Bend Back-Geared Screw Cutting Lathes are fully illustrated, described and priced in our new Catalog. Chucks, tools and attachments for all classes of work are also illustrated, described and priced in this 8½" x 10½" catalog. A copy will be mailed on request to any address postpaid, no charge.

If you are interested in a lathe of any size or type, mail the attached card for further information.

SEND REPLY CARD TO

SOUTH BEND LATHE WORKS

Lathe Builders Since 1906

503 Niles Avenue - - - South Bend, Indiana, U. S. A.