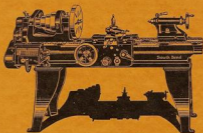


PRICE LIST OF
REPAIR PARTS
FOR
South Bend Lathes



This bulletin lists and prices repair parts for all sizes and types of South Bend Lathes from 18" to 9" swing inclusive.



Bulletin No. 19-A

August, 1934

SOUTH BEND LATHE WORKS
419 East Madison St. South Bend, Ind., U. S. A.

How to Order Repair Parts For South Bend Lathes

The best and easiest way to order repair parts for South Bend Lathes is to send the old parts to the factory with the order. This will eliminate all possibility of error in filling your order and assure prompt shipment of the part wanted. If it is impossible to return the old part be sure to give the following information.

Information to Be Given When Ordering Repair Parts

1. Number and Name of Part.
2. Serial Number of Lathe.
3. Size of Lathe.
4. Type of Lathe.
5. Your Name, Street or Box Number, City, State and County.

When gears or threaded parts are to be ordered be sure to give information as listed on page 20 in addition to that required above.

How to Obtain the Above Information

1. **Number and Name of Part.** All parts for South Bend Lathes are arranged and illustrated in groups—each group covering parts for a single lathe unit such as headstock, tailstock, carriage, saddle, compound rest, etc. Line drawings and photographs show parts for the various units both assembled and unassembled. Each part is numbered and this number applies to all sizes and types of South Bend Lathes, 18" to 9" swing inclusive. The tabulations below the illustrations show the number, name and price of the part for each size South Bend Lathe. **EXAMPLE:** If you wish to order a "spindle reverse gear" for a 9-inch Quick Change Gear Lathe, first refer to the assembly drawing of the headstock unit shown on page 3. You will note that the part is shown at the left end of the headstock spindle and bears part number 30. This part is also shown in photograph on page 2. The price of the part is listed in the column headed "9" Jr., Q & S" and is \$1.75.

2. **Serial Number of Lathe.** The serial number of your lathe is stamped on the bed between the V-way and flat-way at the tailstock end (see Fig. 1), and should be listed on your order. This number enables us to refer to our records which show the size, type and age of your lathe.

3. **Size of Lathe.** To find the size of your lathe, measure the distance from the point of the headstock center to the top of the inside rear "V" of the lathe bed. This will give the radius; double this figure and you have the swing or the size of your lathe. See Fig. 2 below.

4. **Type of Lathe.** State whether your lathe is Quick Change Gear, Standard Change Gear, Junior, Toolmaker, or Workshop type. (For further information on determining the type of your lathe, see page 1.) In addition to stating the type of your lathe, also tell us whether the lathe has Overhead Countershaft Drive, Silent V-Belt Motor Drive, Underneath Belt Motor Drive, etc.

5. **Your Name, Street or Box Number, City, State and County** should be given so as to insure prompt delivery of your shipment.

NOTE: If you cannot return parts for replacement or send us the information requested above, send us a sketch and dimensions of the part wanted together with information on the size, type and serial number of your lathe.



Fig. 1. Showing Location of Serial Number.

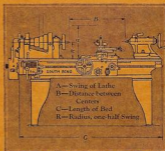


Fig. 2. How to Determine Size of Lathe.

How to Determine the Type of Your Lathe

The information below is given to enable you to more easily determine the type of your South Bend Lathe. By comparing the units of your lathe with those mentioned in the five types described below you can quickly and easily tell the type of your lathe.

- (a) **Quick Change Gear Type Lathe.** This lathe is equipped with a quick change gear box as shown on pages 10 and 11 and has the apron with automatic friction feed mechanism as shown at top of pages 6 and 7.
- (b) **Standard Change Gear Type Lathe.** This lathe does not have the quick change gear box but has standard change gears as illustrated on pages 12 and 13 and an apron with automatic friction feed mechanism as shown at top of pages 6 and 7.
- (c) **Junior Type Lathe.** This lathe has an apron as shown in the illustration Fig. 10 on page 6 and standard change gears as illustrated on pages 12 and 13. Headstock spindle bearings are replaceable and the hand wheels are polished.
- (d) **Toolmaker Type Lathe.** This lathe has an apron as shown in Fig. 11, page 6 and standard change gears as illustrated on pages 12 and 13. It has binding screw to lock reverse lever on headstock. Spindle bearings are integral with the headstock.
- (e) **Workshop Type Lathe.** This lathe has an apron as shown in Fig. 12 on page 6, standard change gears as illustrated on pages 12 and 13, and reverse gear instead of reverse lever. The spindle bearings are integral with headstock. Hand wheels are not polished.

Be sure units on your lathe and those shown for type selected are exactly alike.

Prices of Repair Parts

Prices of repair parts listed in this bulletin are for all sizes and types of South Bend Lathes built since January 1st, 1920, all of which have serial numbers 20,000 and up.

Some of the repair parts for South Bend Lathes manufactured before 1920 and having serial numbers under 20,000, may have to be made to order. These are supplied at prices slightly higher than those listed in this bulletin. If you have an early model South Bend Lathe and need repair parts, write us describing the part required and specify the serial number, and we will be pleased to send you a quotation showing the price of the part wanted.

21-inch Lathes. Prices of repair parts for 21-inch South Bend Lathes are 25% higher than prices listed in this bulletin for corresponding parts for 18-inch lathes.

24-inch Lathes. Prices of repair parts for 24-inch South Bend Lathes are 35% higher than prices listed in this bulletin for corresponding parts for 18-inch lathes.

We have been manufacturing South Bend Lathes since November 1st, 1906, almost twenty-eight years. During this time we have been constantly improving the lathe, changing the design of various parts year after year, until at the present time the South Bend Lathe is considered one of the outstanding lines of lathes for accuracy and efficiency that is built in the United States.

Shipment of Repair Parts

All parcel post shipments are insured unless we are instructed to do otherwise. If shipment is to be made by mail be sure to include a sufficient amount to cover postage and insurance, otherwise parts will be sent express collect.

Terms:

Payment for repair parts should accompany all orders from individuals who do not have an established credit rating—to avoid delay in shipment.

Address all correspondence pertaining to Repair Parts Orders to:

South Bend Lathe Works 419 East Madison Street,
South Bend, Ind., U.S.A.

Headstock Parts

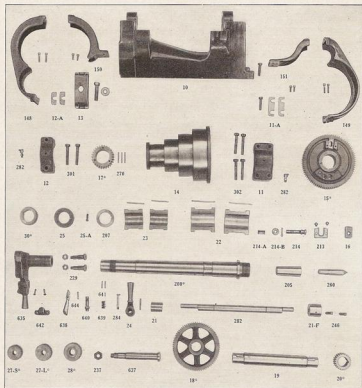


Fig. 3. Headstock Parts for South Bend Lathes.
If the part you want is not illustrated, send us a sketch with dimensions.

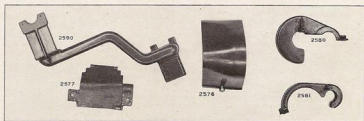


Fig. 4. Additional Headstock Parts for Underneath Belt Motor Driven Lathes

NOTE: If either new bearings or spindle are required for your lathe headstock, we recommend that both be replaced at the same time, because when either unit must be replaced, the other unit is also worn and should be replaced. The fitting of these parts in headstock should be done in our factory to insure accuracy.

Headstock Parts

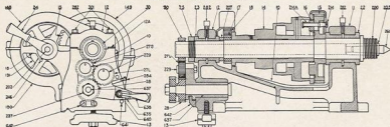


Fig. 5. Line Drawing of Headstock Unit Showing Position of Parts in Assembly.

Net Factory Prices of Headstock Parts for South Bend Lathes

Part No.	Name of Part	No. Req.	PRICE EACH							
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. & 9" T.M.	9" Work Shop
10	Headstock	1	\$36.00	\$30.00	\$27.00	\$20.00	\$15.00	\$11.00	\$10.00	\$ 8.00
11	Headstock Cap, Large	1	2.40	2.00	1.75	1.10	.90	.75	.60	.20
11A	Headstock Shims, Large	2	.40	.30	.25	.20	.15	.15	.15	.15
12	Headstock Cap, Small	1	1.50	1.25	1.00	.80	.65	.55	.45	.15
12A	Headstock Shims, Small	2	.25	.20	.15	.15	.10	.10	.10	.10
13	Headstock Clamp	1	1.00	.75	.60	.50	.40	.35	.25	.20
14	Spindle Cone	1	30.00	23.00	21.00	19.00	13.00	10.00	8.00	9.00
15*	Bull Gear, complete with Plunger	1	16.50	9.00	8.00	7.00	6.00	5.00	4.50	4.00
16*	Bull Gear Clamp	1	.35	.35	.30	.30	.25	.20	.15	.15
17*	Cone Pinion	1	3.50	3.00	2.50	2.00	2.00	1.75	1.50	1.00
18*	Quill Gear	1	8.00	7.00	6.50	5.50	4.50	3.50	3.00	2.50
19	Quill Sleeve	1	9.50	8.00	7.00	5.50	4.25	3.50	3.25	5.00
20*	Quill Sleeve Pinion	1	5.00	4.00	3.50	3.00	2.50	2.00	1.50	1.00
21	Eccentric Shaft Bushing, Rear	1	2.00	1.65	1.35	1.10	1.00	.90	.75	.75
21F	Eccentric Shaft Bushing, Front	1	2.10	1.75	1.50	1.25	1.10	1.00	.90	.90
22	Bronze Box, Large, Pair	1	16.00	7.50	6.00	4.75	4.00	2.90	2.00	1.50
23	Bronze Box, Small, Pair	1	9.00	7.00	5.50	4.50	3.50	2.50	1.50	1.00
24	Back Gear Lever	1	1.65	1.65	1.50	1.25	1.15	1.15	.85	.75
25*	Spindle Take-up Nut	1	1.90	1.75	1.60	1.50	1.40	1.25	1.00	1.00
25A*	Spindle Take-up Nut Screw	1	.15	.15	.15	.10	.10	.10	.03	.03
27L*	Reverse Twin Gear, Large	1	3.75	2.75	2.40	2.15	2.00	1.50	1.35	1.00
27S*	Reverse Twin Gear, Small	1	3.50	2.50	2.25	1.90	1.75	1.50	1.25	1.00
28*	Reverse Gear	1	5.00	4.00	3.50	3.00	2.75	2.25	2.00	1.75
30*	Spindle Reverse Gear	1	4.50	3.75	3.00	2.25	2.00	1.75	1.50	1.50
148	Quill Gear Guard, Upper Part	1	4.00	3.25	3.00	2.50	2.00	1.50	1.25	1.00
149	Bull Gear Guard, Upper Part	1	3.50	2.75	2.50	2.00	1.75	1.25	1.00	1.00
150	Quill Gear Guard, Lower Part	1	1.50	1.25	1.25	1.10	1.00	.90	.80	.80
151	Quill Pinion Guard	1	1.40	1.20	1.20	1.00	.90	.80	.70	.70
200*	Headstock Spindle (Not Hardened)	1	34.00	26.00	24.00	18.00	13.00	10.00	9.00	10.00
200*	Headstock Spindle (Hardened Steel)	1	42.00	33.00	31.00	24.00	18.00	15.00	14.00	15.00
202	Eccentric Shaft	1	3.45	3.15	2.90	2.60	2.90	1.80	1.70	1.70
205	Spindle Sleeve	1	3.00	2.75	2.50	2.00	1.75	1.50	1.50	1.50
207	Spindle Thrust Collar	1	2.00	1.80	1.80	1.35	1.15	1.00	.90	.90
213	Bull Gear Clamp Gib and Screws	1	.15	.15	.10	.10	.10	.05	.05	.05
214	Bull Gear Plunger	1	.65	.65	.60	.65	.55	.50	.45	.45
214A	Bull Gear Clamp Spring	1	.05	.05	.05	.05	.05	.05	.05	.05
214B	Bull Gear Clamp Washer	1	.03	.03	.03	.02	.02	.02	.02	.02
229	Reverse Twin Gear Studs	2	1.65	1.55	1.50	1.25	1.25	1.00	.90	.90
237*	Reverse Shaft Hexagonal Nut	1	.08	.08	.05	.05	.05	.05	.05	.05
246	Back Gear Lag Screws	2	.15	.15	.15	.10	.10	.10	.10	.10
260	Center	1	2.75	2.75	2.75	2.75	2.00	2.00	2.00	2.00
270	Cone Pinion Pins	3-4	.05	.04	.04	.03	.03	.03	.03	.03
282	Headstock Oiler	2	.40	.30	.30	.25	.25	.20	.15	.15
284	Reverse Bracket Oiler	1	.40	.35	.35	.30	.30	.20	.20	.20
302	Small Headstock Cap (Cap Screws)	2	.25	.25	.20	.15	.15	.15	.15	.15
361	Large Headstock Cap (Cap Screws)	2-4	.30	.30	.25	.15	.15	.15	.15	.10
625	Reverse Bracket with Latch	1	10.00	8.25	7.75	6.50	6.25	5.00	3.50	1.00
636	Reverse Shaft Key	1	.08	.08	.08	.08	.05	.05	.03	.03
637	Reverse Shaft	1	3.25	3.00	2.75	2.25	2.00	1.75	1.50	1.00
638	Reverse Shaft Lever	1	1.25	1.15	1.15	.80	.80	.70	.60	.60
638A	Reverse Binding Screw	1							.25	.25
639	Reverse Shaft Spring	1	.95	.04	.04	.03	.03	.03	.03	.01
640	Reverse Bracket Plunger	1	.90	.70	.65	.55	.55	.50	.50	.50
641	Reverse Stop Pin	2	.02	.02	.02	.02	.02	.02	.02	.02
642	Reverse Bracket Lock	1	.35	.25	.20	.20	.15	.15	.15	.15
644	Reverse Latch Pin	1	.02	.02	.02	.02	.02	.02	.02	.02

Additional Parts for Underneath Belt Motor Driven Lathes

2576	Spindle Cone Cover	1	4.00	3.25	3.00	2.50	2.00	1.75		
2577	Cone Cover Bracket	1	5.00	4.25	4.00	3.50	3.00	2.75		
2580	Quill Gear Guard	1	4.00	3.25	3.00	2.50	2.00	1.50		
2581	Bull Gear Guard	1	3.50	2.75	2.50	2.00	1.75	1.25		
2590	Switch Arm	1	4.50	4.50	4.50	3.50	3.00	3.00		

*When Ordering Gears, Threaded Parts and Chuck Backs see pages 20 and 21.

Tailstock Parts

For South Bend Lathes—18" to 9" Swing Inclusive

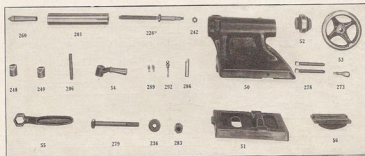


Fig. 6. Tailstock Parts for South Bend Lathes.

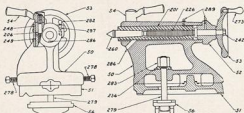


Fig. 7. Line Drawing of Tailstock Unit Showing Position of Parts in Assembly.

Net Factory Prices of Tailstock Parts for South Bend Lathes

Part No.	Name of Part	No. Req.	PRICE EACH								
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. & 9" T.M.	9" Work Shop	
50	Tailstock Top.....	1	\$28.00	\$23.00	\$20.00	\$17.00	\$12.00	\$9.00	\$6.50	\$5.00	
51	Tailstock Base.....	1	9.00	7.00	6.00	4.50	3.25	2.50	1.75	1.50	
52	Tailstock Nut.....	1	3.50	3.00	2.75	2.50	2.25	1.75	1.25	1.25	
53	Tailstock Hand Wheel.....	1	4.50	4.00	4.00	4.00	3.00	2.00	2.00	1.50	
54	Tailstock Binding Lever.....	1	2.00	1.75	1.70	1.50	1.40	1.25	.75	.75	
55	Tailstock Wrench.....	1	.50	.50	.50	.45	.45	.40	.35	.35	
56	Tailstock Clamp.....	1	2.25	1.50	1.30	.90	.75	.50	.40	4.00	
201*	Tailstock Spindle.....	1	9.00	8.00	7.00	6.00	5.00	4.50	4.00	4.00	
206*	Tailstock Binding Lever Screw.....	1	.50	.35	.30	.25	.20	.20	.15	.....
226*	Tailstock Screw.....	1	5.25	4.75	4.25	3.75	3.00	2.50	1.75	1.75	
226*	Tailstock Screw.....	1-2	.40	.40	.40	.30	.25	.10	.10	.10	
226*	Tailstock Bolt Washer.....	1-2	.09	.07	.07	.06	.05	.05	.06	.....
242*	Tailstock Screw Hex. Nut.....	1	.75	.65	.60	.55	.45	.40	.....	.....
248	Tailstock Binding Lever Plug.....	1	.80	.70	.65	.60	.50	.45	.....	.....
260	Tailstock Center.....	1	3.00	3.00	3.00	3.00	2.25	2.25	2.25	2.25	
273	Tailstock Hand Wheel Handle.....	1	.90	.75	.75	.75	.50	.50	.40	.30	
278*	Tailstock Set-over Screw.....	2	.40	.40	.40	.35	.30	.25	.15	.15	
279	Tailstock Clamp Bolt.....	1-2	.20	.17	.17	.10	.10	.09	.07	.07	
283	Tailstock Clamping Nut.....	1-2	.25	.20	.20	.15	.15	.15	.15	.15	
286	Tailstock Spindle Key.....	1	.25	.20	.20	.30	.25	.25	.20	.20	
289	Oil Hole Plug.....	2	.03	.03	.03	.03	.03	.03	.03	.03	
292	Tailstock Oil Reservoir Plug.....	1	.15	.15	.15	.15	.10	.10	.10	.....

If part you want is for a South Bend Lathe but is not shown in this bulletin, send us, with your order, a sketch showing dimensions and we will either mail you quotation or ship part. Please specify which you desire.

*When Ordering Gears, Threaded Parts and Chuck Backs, see pages 20 and 21.

Lead Screw, Legs, Rack and Lathe Equipment Parts

For South Bend Lathes—18" to 9" Swing Inclusive

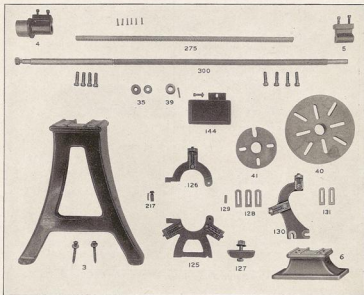


Fig. 8. Lead Screw, Leg, Rack and Lathe Equipment Parts for South Bend Lathes.

The best and easiest way to order repair parts for your South Bend Lathe is to send the old or broken parts in to the factory with your order. This will give us all the information we require and assure prompt shipment of correct parts.

If you cannot return the old or broken part or give us all the information requested on inside front cover, then send us, with your order, a sketch showing dimensions of the part you want and we will mail you quotation or make immediate shipment.

Net Factory Prices of Lead Screw, Legs, Rack and Lathe Equipment Parts

Part No.	Name of Part	No. Req.	PRICE EACH								
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. & 9" T.M.	9" Work Shop	
3	Floor Legs.....	2	\$20.00	\$18.00	\$15.00	\$12.00	\$9.00	\$7.50	\$7.50	.....
4	Front Lead Screw Bracket.....	1	12.00	11.80	10.00	7.00	4.50	3.50	2.00	2.00	
5	Rear Lead Screw Bracket.....	1	2.50	2.80	1.75	1.50	1.25	.90	.75	.75	
6	Bench Legs.....	2	.....	.....	.....	.....	4.00	2.50	2.00	.....
35	Std. Change Gear Collar.....	1	.75	.60	.60	.50	.50	.45	.45	.45	
39	Lead Screw Thrust Collar and Pin.....	1	1.25	1.00	1.00	.85	.80	.75	.75	.75	
40*	Large Face Plate.....	1	17.00	14.00	12.00	9.00	7.00	6.00	6.00	6.00	
41*	Small Face Plate.....	1	13.00	11.00	10.00	7.50	6.00	5.00	5.00	5.00	
125	Steady Rest Base.....	1	10.00	8.50	8.00	6.50	5.00	4.00	4.00	4.00	
126	Steady Rest Top.....	1	4.00	3.75	3.50	3.00	2.50	1.75	1.75	1.75	
127	Steady Rest Clamp & Bolt.....	1	1.50	1.20	1.00	.90	.75	.50	.50	.50	
128	Steady Rest Jaws.....	3	1.00	.80	.80	.75	.60	.50	.50	.50	
129	Steady Rest Hinge Pin.....	1	.15	.15	.15	.15	.15	.15	.15	.15	
130	Follower Rest Frame.....	1	9.00	7.50	6.50	5.50	4.00	3.00	3.00	3.00	
131	Follower Rest Jaws.....	2	1.00	.80	.80	.75	.60	.50	.50	.50	
144	Tool Tray for Std. Ch. Gr. Lathe.....	1	1.50	1.25	1.25	1.00	.75	.75	.....	.....
217*	Steady Rest Lock Bolt.....	1	.90	.75	.75	.60	.60	.50	.50	.50	
275*	Rack (Multiply price by length of Lathe Bed—No. of Feet).....	1	1.50	1.50	1.25	1.00	.90	.75	.75	.75	
300*	Lead Screw (Multiply price by length of Lathe Bed—No. of Ft.).....	1	6.00	5.50	5.25	5.00	4.50	4.00	4.00	3.50	

*When Ordering Gears, Threaded Parts and Chuck Backs see pages 20 and 21.

NOTE: If the part you want is not illustrated, send us a sketch with dimensions.

Apron Parts for Quick, and Standard Change Gear Lathes

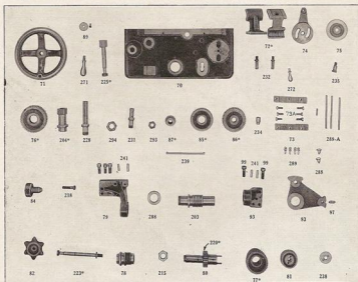


Fig. 9. Apron Parts for Quick Change Gear and Standard Change Gear Lathes.

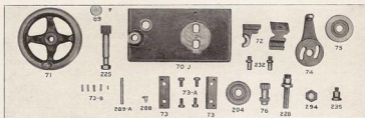


Fig. 10. Apron Parts for Junior South Bend Lathe.



Fig. 11. Apron Parts for Toolmaker Lathe.



Fig. 12. Apron Parts for "Workshop" Lathe.

Apron Parts

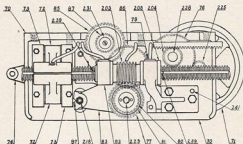


Fig. 13. Apron for Quick, and Standard Change Gear Lathes.

Net Factory Prices of Apron Parts of South Bend Lathes

Part No.	Name of Part	No. Recs.	PRICE EACH								
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" T.M.	9" Work Shop	
70	Apron	1	\$32.00	\$28.00	\$24.00	\$19.00	\$16.00	\$13.00			
70J	Apron for Jr., Toolmaker and Workshop Lathes.	1	17.00	14.00	12.00	9.00	8.00	6.00	\$5.00	\$4.50	
70A	Apron Oil Tube (Price per inch).	1							.03	.03	
71	Apron Hand Wheel	1	5.00	5.00	4.50	4.50	3.50	2.50	2.25	1.75	
71A	Apron Hand Wheel Pin	1							.03	.03	
72*	Apron Half Nuts with Studs	1 Pr.	6.50	5.25	4.75	4.00	3.75	3.50	2.50	2.50	
73	Half Nut Gibs	2	.85	.70	.70	.60	.55	.50	.40	.40	
73A*	Half Nut Gib Screw	2-4	.65	.05	.65	.04	.04		.03	.60	
73B	Half Nut Gib Dowel Pins	2-4						.02		.02	
74	Apron Half Nut Cam with Handle	1	3.25	2.75	2.75	2.25	2.25	2.00	1.50	1.25	
74A	Apron Cam Spring and Ball.	1								.06	
74B*	Apron Cam Spring Set Screws.	2								.03	
75	Apron Half Nut Cam Washer.	1	1.40	1.20	1.20	1.00	1.00	.85			
76*	Rack Pinion Gear.	1	4.50	4.00	3.50	3.00	2.50	2.00	1.50	1.50	
77*	Apron Worm Wheel.	1	7.25	6.00	5.25	4.00	3.50	3.00			
78*	Clutch Sleeve Bushing.	1	5.00	4.00	3.50	2.75	2.40	2.50			
79	Worm Bracket.	1	4.75	4.00	3.50	3.00	2.50	2.00			
80	Clutch Sleeve.	1	7.00	6.00	5.25	4.75	4.50	3.50			
81	Clutch.	1	2.00	1.75	1.50	1.25	1.20	1.00			
82	Clutch Knob.	1	1.75	1.35	1.35	1.20	1.10	1.00			
83	Cross Feed Lever.	1	4.50	3.25	3.00	2.50	2.00	1.75			
84	Cross Feed Lever Knob.	1	2.80	1.75	1.75	1.65	1.50	1.40			
85*	Cross Feed Gear.	1	4.50	4.00	3.50	3.25	3.25	2.25			
86*	Cross Feed Idler Gear.	1	3.75	3.50	3.15	3.15	3.00	2.25			
87*	Cross Feed Pinion.	1	2.90	2.25	2.25	1.75	1.75	1.50			
89	Hand Wheel Pinion Washer.	1	.03	.03	.03	.02	.02	.02	.02	.02	
93	Worm Support Bracket.	1	4.35	3.00	2.70	2.40	2.00				
97	Apron Feed Lock Plunger.	1	.30	.30	.30	.25	.25	.20			
99*	Worm Support Bracket Screw.	2	1.12	.12		.10	.10	.08			
203*	Apron Worm.	1	9.60	7.60	7.00	6.00	5.00	3.50			
204*	Rack Pinion.	1	4.00	3.00	2.75	2.50	2.25	1.50	1.25	1.25	
208*	Apron Worm Collar.	1	1.00	.75	.75	.60	.60	.60			
215	Clutch Sleeve Hexagonal Nut.	1	.30	.25	.25	.20	.15	.10			
218*	Cross Feed Lever Stud.	1	.65	.60	.60	.50	.50	.45			
220*	Clutch Sleeve Pinion.	1	2.50								
223*	Apron Clutch Screw.	1	3.50	2.50	2.25	1.75	1.50	1.25			
225*	Apron Hand Wheel Pinion.	1	3.00	2.75	2.75	2.25	2.00	1.50	1.00	1.00	
228*	Rack Pinion Stud.	1	3.25	2.50	2.25	1.75	1.50	1.25	1.00	.60	
228A	Rack Pinion Lock Washer.	1								.03	
231*	Cross Feed Stud.	1	2.25	2.00	1.75	1.50	1.40	1.25			
232*	Apron Half Nut Studs.	2	.60	.50	.45	.35	.35	.30	.15		
234	Cross Feed Idler Gear Stud.	1	.70	.50	.50	.40	.40	.35			
235*	Cam Cap Screw.	1	1.35	1.25	1.20	1.00	1.00	.75	.50		
238	Apron Worm Wheel Washer.	1	.30	.15	.15	.12	.10	.10			
238A	Rack Pinion Adjusting Block.	1								.70	
239	Apron Worm Key.	1	1.00	.90	.90	.70	.60	.50			
241	Worm Bracket Pin.	2	.03	.02	.02	.02	.02	.02	.45		
271	Hand Wheel Handle.	1	1.00	1.00	.90	.90	.75	.50	.45		
272	Cam Lever Handle.	1	.90	.75	.75	.50	.45	.45	.45		
288	Hinge Top Oilers.	1	.04	.04	.04	.04	.04	.04	.04	.04	
289	Oil Hole Plug.	6	.03	.03	.03	.03	.03	.03	.03	.03	
289A	Apron Oil Tubes (Price per inch)	2-4	.03	.03	.03	.03	.03	.03	.03	.03	
293	Cross Feed Stud Nut.	1	.15	.10	.10	.08	.07	.07			
294	Rack Pinion Stud Nut.	1	.20	.15	.15	.09	.09	.07		.05	

*When Ordering Gears, Threaded Parts and Chuck Blocks, see pages 20 and 21.

NOTE: See preceding page for illustrations of all parts listed above.

Saddle Parts

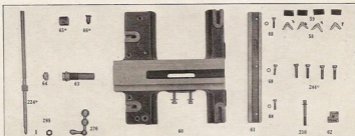


Fig. 14. Saddle Parts for South Bend Lathes. See next page for Prices.

Compound Rest Parts

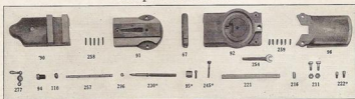


Fig. 15. Compound Rest Parts for South Bend Lathes. See next page for Prices.

Tool Post Parts



Fig. 16. Tool Post Parts for South Bend Lathes.

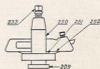


Fig. 17. Position of Parts in Assembly.

Net Factory Prices of Tool Post Parts for South Bend Lathes

Part No.	Name of Part	No. Req.	PRICE EACH							
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. 3" T.M.	5" Work Shop
209	Tool Post Block	1	\$ 1.25	\$ 1.25	\$ 1.60	\$.75	\$.50	\$.50	\$.40	\$.40
253*	Tool Post Screw	1	.75	.75	.75	.70	.60	.60	.30	.30
250	Tool Post	1	3.50	3.50	3.00	2.50	2.00	2.00	1.75	1.75
251	Tool Post Ring	1	1.50	1.50	1.25	1.00	.75	.75	.70	.70
252	Tool Post Wedge	1	.40	.40	.40	.30	.25	.25	.20	.20
253	Tool Post Wrench	1	.65	.65	.65	.65	.45	.45	.35	.35
250-A	Tool Post Unit Complete	1	7.00	7.00	6.00	5.00	4.00	4.00	3.00	3.00

*When Ordering Gears, Threaded Parts and Chuck Backs see pages 20 and 21.
NOTE: See next Page for a List of Saddle and Compound Rest Parts Shown Above.

How to Order Repair Parts for South Bend Lathes

The best and easiest way to order repair parts is to send the old parts to the factory with the order. This will eliminate all possibility of error in filling your order and assure prompt shipment of the correct size and type of part ordered.

If it is impossible to return the old part give the information requested on inside front cover.

Saddle Parts

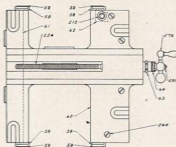


Fig. 18. Position of Saddle Parts in Assembly.

Part No.	Name of Part	No. Req.	PRICE EACH							
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. & 9" T.M.	9" Work Shop
58	Saddle Felt Retainer with Screw	4	\$.20	\$.20	\$.20	\$.15	\$.15	\$.15	\$.05	\$.05
59	Saddle Felt	4	.01	.01	.01	.01	.01	.01	.01	.01
60	Saddle	1	55.00	45.00	35.00	30.00	25.00	18.00	15.00	12.00
61	Saddle Gib	1	3.00	2.50	2.00	1.50	1.00	.75	.70	.65
62	Saddle Lock	1	.35	.25	.25	.20	.20	.15		
63*	Cross Feed Bushing	1	4.00	3.50	3.50	3.00	2.50	1.75	1.50	1.50
64	Cross Feed Graduated Collar	1	2.50	1.75	1.75	1.50	1.50	1.25	1.25	1.25
65*	Cross Feed Nut	1	2.50	1.75	1.75	1.50	1.25	1.00	.75	.75
66*	Cross Feed Shoulder Screw	1	.50	.40	.40	.30	.25	.10		
68	Gib Screw and Spring Washer	3	.10	.08	.08	.06	.06	.05	.05	.05
210*	Carriage Lock Collar Screw	1	.70	.60	.60	.50	.40	.25	.25	.15
224*	Apron to Saddle Screw	1	10.00	8.00	8.00	6.75	5.00	4.00	3.00	3.00
276	Cross Feed Screw	2-4	.25	.25	.20	.15	.15	1.10	1.10	1.10
276	Cross Feed Crank with Handle	1	2.50	2.25	2.25	2.00	1.50	1.25	1.00	.90
295*	Cross Feed Screw Hex. Nut	1	.15	.10	.10	.10	.10	.08	.08	.08

Compound Rest Parts

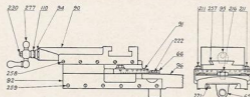


Fig. 19. Position of Compound Rest Parts in Assembly.

Part No.	Name of Part	No. Req.	PRICE EACH							
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. & 9" T.M.	9" Work Shop
67	Thread Cutting Stop Complete	1	\$ 3.75	\$ 3.50	\$ 2.75	\$ 2.50	\$ 2.25	\$ 2.00	\$ 2.00	\$ 2.00
90	Compound Rest Top	1	13.00	11.00	10.00	8.50	6.25	5.50	5.00	4.75
91	Compound Rest Swivel	1	10.00	9.00	8.00	6.50	5.00	3.75	3.75	3.75
92	Compound Rest Base	1	12.00	10.00	8.50	6.75	5.50	4.50	4.00	3.50
94*	Compound Rest Bushing	1	1.50	1.30	1.30	1.20	1.00	1.00	1.00	1.00
95*	Compound Rest Nut	1	1.75	1.25	1.25	1.00	.75	.75	.65	.65
96	Chip Guard	1	2.25	2.00	1.75	1.50	1.25	1.00	.75	
110*	Comp. Rest Graduated Collar	1	2.00	1.75	1.75	1.50	1.00	1.00	1.00	1.00
211*	Nuts, Rest Swivel Stud Bolts and	2	.50	.40	.40	.35	.30	.25		
216	Comp. Rest Swivel Stud	1	.30	.25	.25	.20	.15			
221	Comp. Rest Base Gib	1	.50	.45	.40	.35	.30	.25	.25	.25
222*	Chip Guard Studs	2	.40	.35	.35	.30	.30	.25		
230*	Comp. Rest Screw	1	4.00	3.50	3.25	2.75	2.25	2.00	1.50	1.50
245*	Thread Cutting Stop Screw	1	.40	.35	.35	.35	.30	.25	.25	.25
254	Comp. Rest Wrench	1	.35	.35	.35	.30	.30	.25		
257	Comp. Rest Top Gib	1	.50	.45	.40	.35	.30	.25	.25	.25
258*	Comp. Rest Top Gib Screws	4-5	.03	.03	.03	.02	.02	.02	.02	.02
259*	Comp. Rest Base, Gib Screws	5-6	.03	.03	.03	.02	.02	.02	.02	.02
277	Comp. Rest Crank with Handle	1	2.50	2.00	2.00	2.00	1.25	1.25	1.00	.75
296*	Comp. Rest Screw Hex. Nut	1	.06	.06	.06	.05	.04	.04	.04	.04

*When Ordering Gears, Threaded Parts and Chuck Backs see pages 20 and 21.

Quick Change Gear Box Parts

For Quick Change Gear South Bend Lathes—18" to 9" Swing

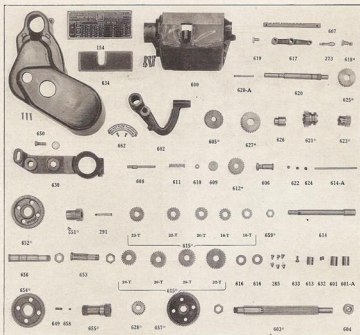


Fig. 20. Quick Change Gear Box Parts for South Bend Quick Change Gear Lathes.

Ordering Quick Change Gear Box Parts

For Quick Change Gear South Bend Lathes

The best and easiest way to order repair parts for Quick Change Gear Box Unit is to send the old or broken parts to the factory with your order. This will give us all the information we require and assure prompt shipment of correct parts.

If it is impossible to return the old or broken part be sure to give us all the information requested on inside front cover, and information that applies to the parts you order as requested on page 20 in this bulletin.

If you cannot return the old or broken part or give us all the information requested, then send us a sketch showing dimensions of the part you want and we will mail you quotation or make immediate shipment.

*When Ordering Gears, Threaded Parts and Chuck Backs see pages 20 and 21.

NOTE: See next page for a List of all Parts Shown Above.

Quick Change Gear Box Parts

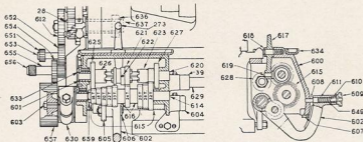


Fig. 21. Line Drawing of Gear Box Unit Showing Position of Parts in Assembly.

Net Factory Prices of Quick Change Gear Box Parts

Part No.	Name of Part	No. Req.	PRICE EACH					
			18" Lathe	14" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Lathe
154	Index Plate	1	\$ 1.00	\$.75	\$.75	\$.75	\$.50	\$.50
273	Top Lever Handle	1	1.00	.70	.70	.60	.60	.50
285	Gear Box Oilers	6	.04	.04	.04	.04	.04	.04
291	Gear Box Hub Oiler	1	.30	.30	.30	.25	.25	.25
600	Gear Box	1	30.00	25.00	23.00	17.50	15.00	12.00
601	Gear Box Bushing	1	1.30	1.20	1.20	1.00	.85	.75
601A	Gear Box Bushing	1	1.30	1.20	1.20	1.00	.85	.75
602	Gear Box Tumbler	1	6.50	5.40	5.15	4.75	4.15	3.50
603*	Main Drive Pinion and Nut	1	16.00	11.00	10.00	9.00	6.00	5.00
604	Main Drive Pinion Collar	1	1.25	1.00	1.00	.95	.95	.80
605*	Tumbler Idler Gear	1	3.50	2.75	2.50	2.25	2.00	1.75
606	Tumbler Gear Stud	1	1.75	1.40	1.50	1.40	1.10	1.00
607	Guide Bar	1	1.35	1.10	1.10	1.05	.95	.75
608	Knob Plunger	1	1.60	1.45	1.45	1.40	1.25	1.00
609	Plunger Knob	1	1.25	1.15	1.15	1.15	.75	.75
610	Plunger Spring Bushing	1	.90	.75	.75	.75	.50	.50
611	Plunger Spring	1	.04	.04	.04	.03	.03	.02
612*	Reverse Stud Gear	1	4.00	3.75	3.75	3.25	3.25	2.75
613	Clutch Shaft Bushing	1	1.00	.75				
614	Cone Gear Shaft	1	6.50	4.50	4.25	4.00	3.50	3.25
614A	Cone Gear Shaft Key	1	.10	.07	.07	.05	.05	.05
615*	Gear Box Cone Gears—16 Teeth	1	3.00	2.50	2.25	2.00	1.75	1.50
615*	Gear Box Cone Gears—18 Teeth	1	3.20	2.65	2.40	2.10	1.85	1.60
615*	Gear Box Cone Gears—20 Teeth	1	3.40	2.80	2.55	2.20	1.95	1.70
615*	Gear Box Cone Gears—22 Teeth	1	3.60	2.95	2.70	2.30	2.05	1.80
615*	Gear Box Cone Gears—24 Teeth	1	3.80	3.10	2.85	2.40	2.15	1.90
615*	Gear Box Cone Gears—26 Teeth	1	4.00	3.25	3.00	2.50	2.25	2.00
615*	Gear Box Cone Gears—28 Teeth	1	4.25	3.49	3.15	2.60	2.35	2.10
615*	Gear Box Cone Gears—30 Teeth	1	4.50	3.55	3.30	2.70	2.45	2.20
615*	Gear Box Cone Gears—32 Teeth	1	5.00	3.75	3.50	2.85	2.60	2.35
616	Cone Gear Spacing Collars	2	.90	.75	.70	.60	.50	.50
617	Top Lever	1	1.25	1.00	1.00	.90	.80	.75
618*	Top Lever Shoulder Screw	1	1.00	1.00	1.00	.75	.75	.70
619	Top Lever Shifting Plug	1	6.00	4.50	4.50	4.50	4.50	4.00
620	Compound Gear Shaft	1	4.50	3.75	3.60	3.35	3.00	2.50
620A	Compound Gear Shaft Key	1	.08	.07	.07	.07	.07	.05
621*	Clutch Sliding Gear	1	6.50	5.00	4.75	4.00	3.50	3.00
622	Clutch Sliding Gear Spring	1	.03	.03	.03	.02	.02	.02
623*	Clutch Pinion	1	3.00	2.50	2.50	2.25	2.00	1.75
624	Ball Bearing for Clutch Sliding Gear	1	.02	.02	.02	.01	.01	.01
625*	Clutch Gear	1	5.00	3.75	3.75	3.00	2.75	2.25
626	Clutch Gear	1	3.50	2.80	2.75	2.70	2.65	2.50
627*	Clutch Shaft Gear	1	3.75	3.00	3.00	2.75	2.25	2.00
628*	Lead Screw Gear	1	3.25	2.50	2.40	2.25	2.05	2.00
630	Primary Gear Bracket	1	8.00	6.00	6.00	4.30	4.40	3.00
632	Bushing Lock Screws	2	.03	.03	.03	.02	.02	.02
633	Bushing Adjusting Screw	2	1.10	1.10				
634	Tool Tray	1	1.10	1.45	1.40	1.10	1.00	.80
649	Primary Gear Spring	1	.08	.08	.07	.05	.05	.05
650	Primary Gear Guard	1	12.00	10.00	9.00	7.00	6.00	4.00
651*	Primary Pinion	1	5.00	4.00	4.00	3.50	3.00	2.50
652*	Primary Gear	1	5.00	4.00	4.00	3.50	3.00	2.50
653	Primary Gear Stud	1	2.75	2.25	2.25	1.90	1.75	1.50
654*	Primary Sliding Pinion	1	5.50	4.50	4.50	4.00	3.50	2.75
655*	Sliding Gear Stud	1	6.50	5.50	5.50	4.50	4.00	3.50
657*	Primary Drive Gear	1	3.00	2.50	2.50	2.00	1.75	1.50
658	Primary Knob Ball Bearing	1	8.00	7.25	7.25	7.00	4.50	3.50
659*	Cone Gear Shaft Nut	1	.02	.02	.02	.01	.01	.01
660	Cone Gear Shaft Nut	1	.20	.15	.15	.12	.10	.10
662	Instruction Plate	1	.25	.25	.25	.25	.25	.25

*When Ordering Gears, Threaded Parts and Chuck Backs see pages 20 and 21.

Standard Change Gear Parts

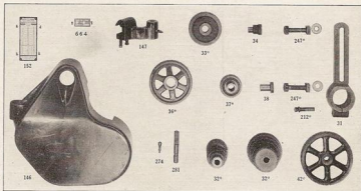


Fig. 22. Standard Change Gear Parts for South Bend Standard Change Gear Lathes.

Net Factory Prices of Parts for Standard Change Gear Lathes

Part No.	Name of Part	No. Req.	PRICE EACH								
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Std.	8" Jr. & 9" T.M.	9" Work Shop	
29*	Stud Gear	1	\$ 2.75	\$ 2.50	\$ 2.50	\$ 2.00	\$ 2.00	\$ 1.50	\$ 1.35		
31	Standard Change Gear Bracket	1	15.00	10.00	10.00	7.00	6.50	4.00	3.00	\$ 3.00	
**	Complete Set of Std. Change Gears (1 set)		50.00	35.00	35.00	30.00	28.00	25.00	20.00	20.00	
32*	Change Gear 16 Teeth	1				2.00	2.00	1.50	1.25		
32*	Change Gear 24 Teeth	1	2.75	2.50	2.50	2.00				1.25	
32*	Change Gear 30 Teeth	1	2.75	2.50	2.50					1.35	
32*	Change Gear 32 Teeth	1-2	3.00	2.50	2.50	2.00	2.00	1.50	1.25		
32*	Change Gear 33 Teeth	1	3.00	2.50	2.50					1.35	
32*	Change Gear 36 Teeth	1	3.10	2.60	2.60					1.45	
32*	Change Gear 39 Teeth	1		2.60	2.60	2.10	2.10	1.60	1.45		
32*	Change Gear 40 Teeth	1		2.75	2.75					1.60	
32*	Change Gear 42 Teeth	1	3.25	2.75	2.75						
32*	Change Gear 44 Teeth	1		2.75	2.75	2.25	2.25	1.75	1.60		
32*	Change Gear 45 Teeth	1	3.25	2.75	2.75					1.60	
32*	Change Gear 46 Teeth	1		2.75	2.75	2.25	2.25	1.75	1.60		
32*	Change Gear 48 Teeth	1-2	3.50	3.00	3.00	2.50	2.50	2.00	1.85	1.85	
32*	Change Gear 52 Teeth	1		3.00	3.00	2.50	2.50	2.00	1.85		
32*	Change Gear 54 Teeth	1	3.50	3.00	3.00					1.85	
32*	Change Gear 56 Teeth	1		3.25	3.25	2.75	2.75	2.25	2.10		
32*	Change Gear 60 Teeth	1	3.75	3.25	3.25	2.75	2.75	2.25	2.10	2.10	
32*	Change Gear 64 Teeth	1		3.50	3.50	3.00	3.00	2.50	2.35		
32*	Change Gear 66 Teeth	1	4.25								
32*	Change Gear 69 Teeth	1	4.25	3.60	3.60					2.45	
32*	Change Gear 72 Teeth	1	4.25	3.75	3.75	3.25	3.25	2.75	2.60		
32*	Change Gear 78 Teeth	1	4.25								
32*	Change Gear 80 Teeth	1		4.00	4.00	3.50	3.50	3.00	2.85		
32*	Change Gear 84 Teeth	1	4.50								
32*	Change Gear 90 Teeth	1	4.50								
32*	Change Gear 96 Teeth	1	4.75								
32*	Change Gear 108 Teeth	1	4.75								
33*	Standard Change Idler Gear	1	4.25	3.75	3.75	3.25					
34	Standard Change Idler Bushing	1	2.25	1.75	1.75	1.50					
36*	Large Compound Gear	1	6.00	5.00	5.00	4.25	4.25	3.25	2.75	3.50	
	Small	1								2.25	
37*	Small Compound Gear	1	4.25	3.00	3.00	2.50	2.50	1.75	1.75	1.60	
38	Compound Idler Gear	1	1.50	1.25	1.25	1.00	1.00	.75	.60	.98	
42*	Turning Gear	1	7.50	6.75	6.75	4.50	4.50	3.00	2.75	2.75	
146	Change Gear Guard	1	8.25	6.85	6.00	4.60	4.25	3.00	2.25	2.00	
147	Change Gear Guard Bracket	1	3.80	3.00	3.00	2.00	2.00	1.25	1.00	1.00	
152	Index Plate	1	.60	.50	.50	.40	.40	.40	.40	.40	
212	Change Gear Bracket Collar Screw	1	1.00	1.00	.90	.75	.60	.50	.40	.30	
247	Compound Idler Gear Bolt	1	.85	.75	.75	.50	.50	.30	.10	.10	
274	Change Gear Guard Handle	1	.50	.50	.50	.50	.50	.50	.50	.50	
281	Change Gear Guard Hinge Pin	1	.70	.60	.60	.50	.50	.40	.25	.20	
664	Lathe Size Plate	1	.25	.25	.25	.25	.25	.25	.25	.25	

*When Ordering Gears, Threaded Parts and Chuck Backs see pages 20 and 21. State whether lathe is Countershaft or Motor Driven.

**See Following page for number of change gears in a complete set.

NOTE: If the part you want is not illustrated, send us a sketch with dimensions.

Standard Change Gear Parts

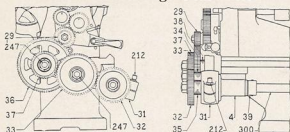


Fig. 23. Line Drawing of Standard Change Gear Unit Showing Position of Parts in Assembly. All Parts are Listed and Priced on the Preceding Page.

SOUTH BEND ENGINE LATHES	
THREAD	SPINDLE SCREW
4	48
6	48
8	48
10	48
12	48
14	48
16	48
18	48
20	48
22	48
24	48
26	48
28	48
30	48
32	48
34	48
36	48
38	48
40	48
42	48
44	48
46	48
48	48
50	48
52	48
54	48
56	48
58	48
60	48
62	48
64	48
66	48
68	48
70	48
72	48
74	48
76	48
78	48
80	48
82	48
84	48
86	48
88	48
90	48
92	48
94	48
96	48
98	48
100	48
102	48
104	48
106	48
108	48
110	48
112	48
114	48
116	48
118	48
120	48
122	48
124	48
126	48
128	48
130	48
132	48
134	48
136	48
138	48
140	48
142	48
144	48
146	48
148	48
150	48
152	48
154	48
156	48
158	48
160	48
162	48
164	48
166	48
168	48
170	48
172	48
174	48
176	48
178	48
180	48
182	48
184	48
186	48
188	48
190	48
192	48
194	48
196	48
198	48
200	48
202	48
204	48
206	48
208	48
210	48
212	48
214	48
216	48
218	48
220	48
222	48
224	48
226	48
228	48
230	48
232	48
234	48
236	48
238	48
240	48
242	48
244	48
246	48
248	48
250	48
252	48
254	48
256	48
258	48
260	48
262	48
264	48
266	48
268	48
270	48
272	48
274	48
276	48
278	48
280	48
282	48
284	48
286	48
288	48
290	48
292	48
294	48
296	48
298	48
300	48

Fig. 24 Index Plate See Group No. 4

How to Order Missing Change Gears for Your Lathe

First determine the size of your lathe and the pitch (number of threads per inch) of the lead screw, then refer to the group below listing the set of change gears which applies to your lathe. Check over the gears in the set with those you have and any change gear which you find missing from your set can be ordered then by simply giving the following information:

1. Size of Lathe.
2. Serial Number of Lathe.
3. Number of Teeth on Change Gear.
4. Face of Gear in inches.
5. Keyway in Gear in inches.
6. Diameter of Hole in Gear in inches.

Also give all the other information on how to order gears as listed on page 20.

Complete Sets of Change Gears

Below we list the complete sets of change gears for the five different groups of South Bend Standard Change Gear Lathes. You can determine to which group your lathe belongs by checking the size of your lathe, that is: the swing (see cover 2 on How to Determine Size of Lathe) and the number of threads per inch on your lead screw. When you have this information, check the gears that you have against the complete list in the group to which your lathe belongs. Any change gears which are missing may be ordered by giving the information as mentioned above.

Group No. 1—9" "Workshop" Lathes With 8 Thread Lead Screws

A complete set of change gears for any 9" "Workshop" South Bend Lathe having an eight-pitch lead screw (eight threads per inch of lead screw) consists of the following 11 gears: 1-24 tooth; 1-30T; 1-33T; 1-36T; 1-39T; 1-42T; 1-45T; 1-48T; 1-54T; 1-60T; and 1-69T.

Group No. 2—8", 9", 11" and 13" Lathes With 8 Thread Lead Screws

A complete set of change gears for any 8", 9", 11", and 13" South Bend Standard Change Gear Lathe having an eight-pitch lead screw (eight threads per inch of lead screw) consists of the following 13 gears: 1-16 tooth; 2-32T; 1-40T;

1-44T; 1-46T; 1-48T; 1-52T; 1-56T; 1-60T; 1-64T; 1-72T; and 1-80T.

Group No. 3—13", 15" and 16" Lathes With 6 Thread Lead Screws

A complete set of change gears for any 13", 15" and 16" South Bend Standard Change Gear Lathe having a six-pitch lead screw (six threads per inch of lead screw) consists of the following 13 gears: 1-24 tooth; 1-32T; 1-40T; 1-44T; 1-46T; 2-48T; 1-52T; 1-56T; 1-60T; 1-64T; 1-72T; and 1-80T.

Group No. 4—15", 16" and 18" Lathes With 8 Thread Lead Screws (See Fig. 24)

A complete set of change gears for any 15", 16" and 18" South Bend Standard Change Gear Lathe having an eight-pitch lead screw (eight threads per inch of lead screw) consists of the following 12 gears: 1-24 tooth; 1-30T; 1-33T; 1-36T; 1-39T; 1-42T; 1-45T; 2-48T; 1-54T; 1-60T; and 1-69T.

Group No. 5—18", 21" and 24" Lathes With 4 Thread Lead Screws

A complete set of change gears for any 18", 21", and 24" South Bend Standard Change Gear Lathe having a four-pitch lead screw (four threads per inch of lead screw) consists of the following 13 gears: 1-24 tooth; 1-36T; 2-48T; 1-60T; 1-66T; 1-69T; 1-72T; 1-78T; 1-84T; 1-90T; 1-96T; 1-108T.

How to Order New Index Plate for Lathe

If the index plate for your Standard Change Gear Lathe has been lost, another can be obtained by giving the following information: Size of lathe; serial number of lathe; diameter of lead screw; pitch (number of threads per inch) of lead screw. If your lathe is an old model and we are unable to supply an index plate, we will send you a blue print drawing giving the same information.

Countershaft Parts

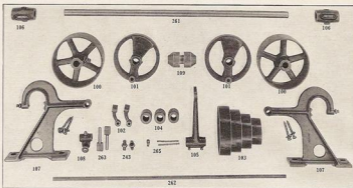


Fig. 25. Various Parts of Double Friction Countershaft.

When ordering parts for the Double Friction Countershaft, it is advisable to send in the old or broken parts with your order. If it is impossible to return the parts for replacement, send us a sketch showing the parts wanted.

When ordering Part No. 101, Countershaft Spider, we recommend that you include Part No. 243 Ball Point Set Screw with Nut, and No. 263 Countershaft Expansion Wedge, as these parts should fit properly to insure satisfactory results.

Simplex Motor Drive Unit Parts

Flat Belt Type

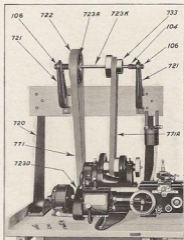


Fig. 26. Illustration Showing Part Numbers of Simplex Motor Drive Unit, Flat Belt Type.

V-Belt Type

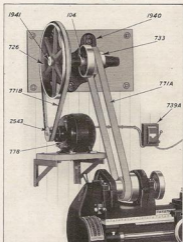


Fig. 27. Illustration Showing Part Numbers of Simplex Motor Drive Unit, V-Belt Type.

NOTE: If the part you want is not illustrated, send us a sketch with dimensions. See next page for list of all parts shown above.

Countershaft Parts

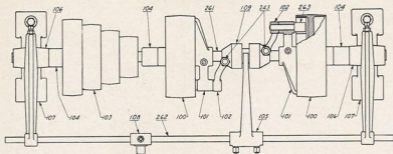


Fig. 28. Illustration Showing Parts of Double Friction Countershaft.

Net Factory Prices of Parts for Countershaft and Simplex Motor Drive Unit

Part No.	Name of Part	No. Req.	PRICE EACH							
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. & 9" T.M.	9" Work Shop
100	Countershaft Pulley	2	\$10.00	\$ 7.00	\$ 7.00	\$ 4.50	\$ 3.00	\$ 3.00	\$ 3.00	\$ 3.00
101	Countershaft Spider	2	7.00	4.50	4.50	3.50	2.50	2.50	2.50	2.50
102	Countershaft Friction Finger	2	.90	.60	.60	.50	.40	.40	.40	.40
103	Countershaft Cone	1	14.00	11.00	10.00	8.50	5.50	4.50	4.00	3.00
104	Countershaft Collar	3-4	.75	.50	.50	.45	.30	.30	.30	.30
105	Countershaft Yoke Lever	1	2.00	1.50	1.50	1.20	.75	.75	.75	.75
106	Countershaft Box	2	2.50	2.00	2.00	1.45	.90	.90	.90	.90
107	Countershaft Hanger	2	5.00	3.75	3.75	2.25	1.50	1.50	1.50	1.50
108*	Countershaft Shipper Nut	1	.60	.60	.60	.35	.35	.35	.35	.35
109	Countershaft Yoke Cone	1	5.00	4.50	4.00	3.00	2.00	2.00	2.00	2.00
243*	Countershaft Ball Point Set Screw	2	.20	.20	.20	.20	.15	.15	.15	.15
261	Countershaft Shaft	1	1.50	1.00	1.00	.75	.50	.50	.50	.50
262	Countershaft Shipper Rod	1	4.50	3.50	3.50	2.50	1.50	1.50	1.50	1.50
263	Countershaft Expansion Wedge	2	1.85	1.45	1.45	1.25	1.00	1.00	1.00	1.00
264	Countershaft Shipper Nut Washer	1	.20	.02	.02	.02	.01	.01	.01	.01
265	Countershaft Oil Hole Springs	2	.03	.03	.03	.02	.02	.02	.02	.02

Simplex Motor Drive Units—Flat Belt Type

Part No.	Name of Part	No. Req.	PRICE EACH							
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. & 9" T.M.	9" Work Shop
104	Shaft Collar	2	\$.75	\$.50	\$.50	\$.45	\$.30	\$.30	.....	.....
106	Boxes	2	2.50	2.00	2.00	1.45	.90	.90	.....	.....
720	Motor Drive Standards	2	.....	.....	.....	4.00	4.00	4.00	.....	.....
721	Motor Drive Hangers	2	5.00	3.75	3.75	2.25	1.50	1.50	.....	.....
722	Motor Drive Pulley	1	11.00	8.00	8.00	5.50	4.50	4.00	.....	.....
723A	Pulley Balance Weight	1	.05	.05	.05	.03	.03	.03	.....	.....
723D	Motor Pulley	1	4.00	3.00	3.00	2.00	1.25	1.25	.....	.....
723K	Shaft	1	14.00	11.00	10.00	8.50	5.50	4.50	.....	.....
733	Cone	1	.....	.....	.....	.....	.....	.....	.....	.....
771	Belt—Price per foot—Specify length	1	.....	Prices furnished on request	.....	.....	.....	.....	.....	.....
771A	Belt—Price per foot—Specify length	1	.....	Prices furnished on request	.....	.....	.....	.....	.....	.....

Simplex Motor Drive Units—"V" Belt Type

Part No.	Name of Part	No. Req.	PRICE EACH							
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. & 9" T.M.	9" Work Shop
104	Shaft Collar	1	.....	.....	.....	.....	\$ .30	\$.30	\$.30	.....
726	"V" Belt Drive Pulley	1	.....	.....	.....	.....	3.00	2.50	2.00	\$ 1.50
733	Cone	1	.....	.....	.....	.....	5.50	4.50	4.00	3.00
739A	Switch	1	.....	.....	Price furnished on request	.....	.....	.....	.....	.....
771A	Belt—Price per foot—Specify length	1	.....	Prices furnished on request	.....	.....	.....	.....	.....	.....
771B	"V" Belt	1-3	.....	.....	.....	.....	1.00	1.00	1.00	.75
778	Motor (Specify Phase, Cycle, Current and Voltage)	1	.....	.....	Price furnished on request	.....	.....	.....	.....	.....
1940	Motor Drive Frame	1	.....	.....	.....	.....	8.90	7.00	5.00	4.00
1941	Shaft	1	.....	.....	.....	.....	1.90	.90	.75	.75
2543	Motor "V" Pulley	1	.....	.....	.....	.....	.50	.50	.50	.50

*When Ordering Gears, Threaded Parts and Chuck Backs see pages 20 and 21.

Silent Motor Drive Unit Parts

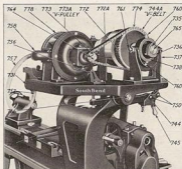


Fig. 29. End View of Silent Chain Motor Drive Unit Showing Location of Parts and Numbers.

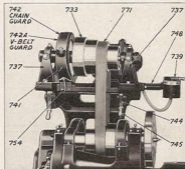


Fig. 30. Front View of Silent Chain Motor Drive Unit Showing Location of Parts and Numbers.

The Silent Motor Drive Unit is made in two types: The Silent Chain Motor Drive Unit, and the Silent V-Belt Motor Drive Unit. The distinguishing feature of each drive is: The Silent Chain Motor Drive has a chain that drives the countershaft from motor; and the Silent V-Belt Motor Drive has a V-belt that drives countershaft from motor. Be sure and specify the type of drive you have when ordering parts for same.

Horizontal "V" Belt Countershaft Parts

Plain Type

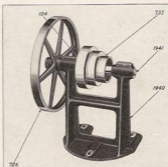


Fig. 31. Horizontal V-Belt Countershaft, Plain Type.

Belt Tension Type

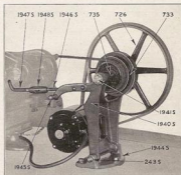


Fig. 32. Horizontal V-Belt Countershaft, with Belt Tension Adjustment.

The Horizontal V-Belt Countershaft, as illustrated above, is used for driving the lathe from a motor by V-Belt. This countershaft is made in three types (1) for use on the Bench, (2) for use on Wall, and (3) for use on Ceiling. When ordering parts be sure and specify the type of drive, size of lathe, and diameter and width of pulleys. This information will enable us to fill your order accurately and promptly.

The Improved Adjustable Belt Tension Countershaft, illustrated above, is made in two types; namely: Horizontal and Underneath. The Horizontal type fits on top of bench as illustrated. The Underneath type is mounted below the bench top. Be sure and specify the type of drive, size of lathe, and diameter and width of pulleys. This will insure prompt shipment of the correct size and type of part wanted.

Silent Motor Drive Unit Parts

Net Factory Prices of Parts for Silent Chain and Silent V-Belt Motor Drive Units

Part No.	Name of Parts	No. Req.	PRICE EACH						
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Lathe	9" Tool Maker
730	Motor Drive Frame	1	\$35.00	\$25.00	\$20.00	\$14.00	\$11.00	\$ 9.00	\$ 7.00
731	Motor Drive Top Plate	1	30.00	22.00	20.00	14.00	11.00	9.00	7.00
733	Motor Drive Cone	1	14.00	11.00	10.00	8.50	5.50	4.50	4.00
735	Motor Drive Shaft Collar	2	.75	.50	.50	.45	.30	.30	.30
736	Motor Drive Bearing (Plain Type)	2	3.00	2.50	2.50	1.75	1.25	1.25	.....
737	Motor Drive Bearing Standard	2	5.00	3.75	3.75	2.25	1.50	1.50	.....
738	Motor Drive Bearing Pivot Ring	2	2.50	2.00	2.00	1.50	1.00	1.00	1.00
739	Motor Drive Switch	1	6.00	5.00	4.50	2.75	2.25	2.25	.....
741	Motor Drive Chain Guard Case	1	4.00	3.50	3.00	2.75	2.25	2.25	.....
742	Motor Drive Chain Guard Cover	1	8.00	5.00	5.00	4.50	3.00	3.00	2.50
742A	Motor Drive "V" Belt Guard	2	1.50	1.25	1.25	1.25	1.00	1.00	.80
744	Motor Drive Belt Adjusting Shoe	2	2.00	1.60	1.60	1.60	1.40	1.40	.75
745	Motor Drive Belt Adjusting Lever	1	2.50	2.00	1.50	1.40	1.10	1.10	.90
748	Switch Bracket	2	.15	.15	.15	.15	.10	.10	.10
750	Belt Adjusting Lever Pins	1	1.00	.50	.50	.50	.50	.50	.....
752	Switch Conduit Bushing	1	.90	.75	.75	.60	.50	.50	.....
754	Guard Bracket	1	1.00	.90	.90	.75	.60	.60	.....
756	Guard Bracket Foot	1	.25	.20	.20	.20	.20	.20	.30
757	Flexible Conduit—Price per foot	1	.25	.20	.20	.20	.20	.20	.20
758	Flexible Conduit Fitting	4	.25	.20	.20	.20	.15	.15	.15
760*	Motor Drive Bearing Screws with Nut	1	.30	.25	.25	.25	.20	.20	.....
761*	Motor Drive Pivot Ring Screws with Nut	4	.30	.25	.25	.25	.20	.20	.....
764	Motor Pinion Key	1	.15	.15	.15	.10	.08	.08	.....
765	Motor Drive Countershaft Shaft	1	2.00	1.50	1.50	1.00	.90	.75	.75
766	Motor Drive Plate Shaft	1	1.50	1.00	1.00	.80	.70	.50	.50
771	Belt—Price per foot—Specify length	1	.....	.....	.....	.....	.....	.....	.....
771A	Belt Lacing	1	.....	.....	.....	.....	.....	.....	.....
772*	Motor Drive Chain Gear	1	6.00	4.50	4.50	3.50	3.00	3.00	.....
772A	Motor Drive "V" Belt Pulley	1	17.00	9.00	9.00	6.00	3.50	3.50	.....
773*	Motor Drive Chain Pinion	1	3.25	2.75	2.75	2.25	1.75	1.75	.....
773*	Motor Drive "V" Belt Pulley	1	3.50	2.00	2.00	1.25	.50	.50	.50
773A	Motor Drive Chain	1	15.00	12.00	12.00	7.00	5.50	5.00	.....
774	Motor Drive "V" Belts	1-5	1.25	1.00	1.00	1.00	1.00	1.00	1.00
778	Motor (State Phase-Cycle-Voltage)	1	.....	.....	.....	.....	.....	.....	.....
1772	Adjusting Bushing for Frame	1	1.50	1.50	1.50	.....	.....	.....	.....

Horizontal V-Belt Countershaft—Plain Type

Part No.	Name of Part	No. Req.	PRICE EACH							
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. & 9" T.M.	9" Work Shop
104	Shaft Collar	1	.....	.....	.....	.....	\$ .30	\$.30	\$.30	.....
726	"V" Belt Drive Pulley	1	.....	.....	.....	.....	3.00	2.50	2.00	\$ 1.50
733	Cone	1	.....	.....	.....	.....	5.50	4.50	4.00	3.00
1940	Motor Drive Frame	1	.....	.....	.....	.....	8.00	7.00	5.00	4.00
1941	Shaft	1	.....	.....	.....	.....	1.00	.90	.75	.75

Horizontal V-Belt Countershaft—Belt Tension Type

Part No.	Name of Part	No. Req.	PRICE EACH							
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q. & S.	8" Jr. & 9" T.M.	9" Work Shop
726	"V" Belt Drive Pulley	1	.....	.....	.....	.....	\$ 3.00	\$ 2.50	\$ 2.00	\$ 1.50
733	Cone	1	.....	.....	.....	.....	5.50	4.50	4.00	3.00
735	Shaft Collar	1	.....	.....	.....	.....	.30	.30	.30	.30
1940S	Drive Standard	1	.....	.....	.....	.....	7.00	6.00	4.00	3.50
1941S	Shaft	1	.....	.....	.....	.....	1.00	.90	.75	.75
1943S	Standard Base	1	.....	.....	.....	.....	2.50	2.00	1.50	1.25
1945S	Belt Release Crank	1	.....	.....	.....	.....	.90	.90	.90	.90
1946S	Belt Adj. Rod, R. H.	1	.....	.....	.....	.....	.50	.50	.50	.50
1947S	Belt Adj. Rod, L. H.	1	.....	.....	.....	.....	.50	.50	.50	.50
1948S	Turnbuckle	1	.....	.....	.....	.....	.75	.75	.75	.75
243S	Ball Point Set Screw with Lock Nuts	2	.....	.....	.....	.....	.25	.25	.20	.20

*When Ordering Gears, Threaded Parts and Chuck Backs see pages 20 and 21.
NOTE: See Preceding Page for illustration of All Parts Listed Above.

How to Order Repair Parts

The best and easiest way to order repair parts is to send the old parts to the factory with the order. This will eliminate all possibility of error in filling your order and assure prompt shipment of the correct size and type of part ordered.

If it is impossible to return the old part be sure and give the information requested on inside front cover of this bulletin.

Parts for Underneath Belt Motor Drive Unit



Fig. 33. Front View of Lathe with Underneath Belt Motor Drive Unit.

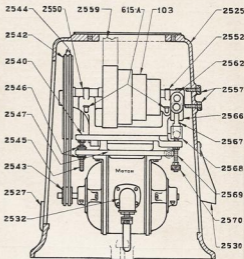


Fig. 34. Front View Drawing Showing Position of Parts of Underneath Belt Motor Drive Unit in Assembly.

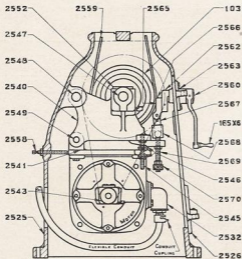


Fig. 35. End View Drawing Showing Position of Parts of Underneath Belt Motor Drive Unit in Assembly.

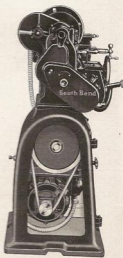


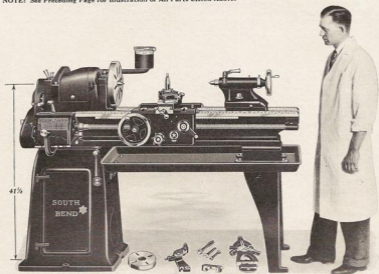
Fig. 36. End View of Lathe With Underneath Belt Motor Drive Unit.

Parts for Underneath Belt Motor Drive Unit

Net Factory Prices of Parts for Underneath Belt Motor Drive Unit

Part No.	Name of Part	No. Req.	PRICE EACH					
			18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Lathe
103	Countershaft Cone	1	\$14.00	\$11.00	\$10.00	\$ 8.50	\$ 5.50	\$ 4.50
165eF	Crank Handle	1	1.00	1.00	1.00	1.00	1.00	1.00
615A	Oil Cup	2	.50	.50	.50	.50	.50	.50
778	Motor, Specify Phase, Voltage, Cycle, and Current.	1	Prices furnished on request					
2525	Motor Drive Cabinet Leg	1	95.00	75.00	72.00	60.00	50.00	50.00
2526	Cabinet Leg Front Door	1	2.25	2.00	2.00	1.90	1.75	1.75
2527	Cabinet Leg Side Door	1	1.75	1.50	1.50	1.40	1.25	1.25
2530	Motor Chip Guard	1	.90	.80	.80	.75	.75	.60
2532	Motor Conduit Box	1	.40	.40	.40	.40	.25	.25
2540	Countershaft Cradle	1	22.00	12.00	12.00	10.00	8.00	8.00
2541	Motor Plate	1	10.00	8.00	8.00	7.00	6.00	5.00
2542	Countershaft "V" Pulley	1	17.00	9.00	9.00	6.00	3.50	3.50
2543	Motor "V" Pulley	1	3.50	2.00	2.00	1.25	.50	.50
2544	"V" Belt	1-5	1.00	1.00	1.00	1.00	1.00	1.00
2545	"V" Belt Adjusting Stud	1		.60	.60	.35	.35	.35
2546	Adjusting Stud Washer	2		.75	.75	.45	.45	.45
2547	C. S. Cone Shaft	1	2.00	1.50	1.50	.90	.70	.70
2548	Cone Cradle Shaft	1	2.03	1.25	1.25	.80	.60	.60
2549	Motor Plate Shaft	1	.90	.70	.70	.60	.50	.50
2550	Cone Shaft Collar	2	1.00	.90	.90	.80	.75	.75
2552	Oil Ring Hole Cover	2	.10	.07	.07	.05	.05	.05
2557	Crank Stop Screw and Lock Nut	2	.07	.07	.07	.05	.05	.05
2558	Motor Plate Stop Screw	1		.10	.10	.07	.07	.07
2559	Cone Belt	1	Prices furnished on request					
2560	Tightener Crank	1	1.00	1.00	1.00	1.00	1.00	1.00
2562	Tightener Crankshaft	1	1.75	1.60	1.60	1.50	1.50	1.50
2563	Crankshaft Bushing	1	1.75	1.60	1.60	1.50	1.50	1.50
2565	Crankshaft Pin	1	.30	.30	.30	.30	.30	.30
2566	Crankshaft Clevis	1	.60	.55	.55	.50	.50	.50
2567	Ball Socket	1	1.00	.90	.90	.75	.75	.75
2568	Conn. Sleeve	1	.75	.75	.75	.60	.60	.60
2569	Adjusting Screw	1	.65	.65	.65	.35	.35	.35
2570	Adjusting Nut	1	.60	.65	.65	.50	.50	.50

*When Ordering Gears, Threaded Parts and Chuck Backs see pages 20 and 21.
NOTE: See Preceding Page for illustration of All Parts Listed Above.



(Patent Pending)

Above—13" x 5' Underneath Belt Motor Driven Quick Change Gear Lathe.....\$575.00

South Bend Underneath Belt Motor Driven Precision Lathes

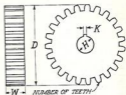
Back-Geared, Screw Cutting—Made in Quick Change and Standard Change Gear Types

Important Information on Ordering

How to Order Gears For South Bend Lathes

When ordering gears such as change gears, spindle reverse gear, cross feed gear, rack pinion, etc., fill in on the enclosed Repair Parts order blank all parts of the tabulation on ordering gears, listing the specifications of each gear wanted as shown below. See drawing at right for diagram illustrating specifications required in the tabulation. Also give all other information requested on inside front cover and page 1.

When ordering gears for the lathe, for example, change gears which are used for cutting the various pitch screw threads, be sure to give the information below. If ordering a gear to cut a special screw thread on the lathe such as a very fine screw thread, supply the information below and also specify the number of threads you wish to cut. For further information on ordering change gears for South Bend Standard Change Gear Lathes see page 13 of this bulletin.



The illustration above shows two views of a gear blank with parts lettered for use when indicating specifications on your order.

Information to Be Given When Ordering Gears

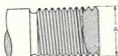
1. Name and Number of Part.
2. Serial Number of Lathe.
3. Quantity Wanted.
4. Number of Teeth on Gear.
5. Diameter "D" in inches.
6. Width "W" in inches.
7. Keyway "K" in inches.
8. Hole "H" in inches.

How to Order Threaded Parts For South Bend Lathes

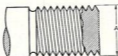
When ordering threaded parts such as cross feed nut, lead screw half-nut or cross feed screw, fill in on the enclosed Repair Parts order blank all parts of the tabulation on ordering threaded parts, listing the specifications of each threaded part wanted, as noted below. Specify on the order blank whether the thread is right-hand or left-hand.

Acme, U. S. Standard or Sharp "V" type. These types of screw threads are illustrated below. "A" represents outside diameter of threads.

In addition to giving the specifications listed below be sure to give all the information requested on the inside front cover and on page 1 of this bulletin.



U. S. Standard Screw Thread.



Sharp "V" Screw Thread.



Acme Screw Thread.

Information to Be Given When Ordering Threaded Parts

1. Name and Number of Part.
2. Serial Number of Lathe.
3. Quantity Wanted.
4. Outside Diameter of Threads at "A" in inches.
5. Number of Threads per inch.
6. State Kind of Thread:
 - Acme Thread
 - U. S. Standard Thread
 - Sharp "V" ThreadRight or Left-Hand

Example Showing How to Order Threaded Parts

To order a cross feed screw for a 16-inch Quick Change Gear Lathe, first refer to assembly drawing and photograph of saddle unit shown in Figs. 14 and 18 on pages 8 and 9. You will note that in Fig. 14 this part is shown in the extreme left of the illustration and that in Fig. 18 this part is shown in about the middle of the drawing. This part bears the number 224.

By referring to the price tabulation at the top of page 9 you will note that this part number 224

is called cross feed screw and that one is required. Under the column "16" Lathe" the price is listed at \$8.00.

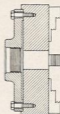
After you have found this information make out your order and be sure to give all the information requested above.

It is important that this information be supplied in order that we may be able to send you the part you want, in the right size and correctly threaded for use on your lathe.

Chuck-Backs for South Bend Lathes

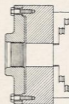
Style "A" Chuck-Back

The illustration at right shows the construction of chucks requiring the style "A" chuck-back which has the bolts inside of the recess in the back of the chuck.



Style "B" Chuck-Back

The illustration at right shows the construction of chucks requiring the style "B" chuck-back which has the bolts outside of the recess in the back of the chuck.



Chuck-Backs Supplied Either Semi-Machined or Fitted

Chuck-backs for South Bend Lathes can be supplied either **semi-machined** or **fitted**.

Semi-machined chuck-backs are bored and threaded to fit the spindle nose of the lathe. The outside diameter is left rough so that the customer can finish the diameter of the chuck-back flange to the required size to fit his chuck.

Semi-machined chuck-backs are supplied in several standard diameters, as listed in the price

tabulation below. Be sure to state the diameter of the chuck-back flange required when ordering. If the size is not specified, we will ship the largest standard diameter chuck-backs. Chuck-backs larger than standard can be supplied to order. Prices on request.

Fitted chuck-backs are finished complete and fitted to the chuck at the factory. Chucks ordered with chuck-back fitted are ready to screw onto the spindle nose of the lathe and use when received.

Information Required When Ordering Chuck-Backs

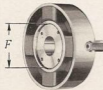
1. Serial Number of Lathe.
2. Outside Diameter of Spindle Nose at "A".
3. Number of Threads per inch on Spindle Nose "B".
4. Length of Spindle Nose at "D".
5. Minimum Rough Diameter of Chuck-Back Flange Required "E".
6. Diameter of Recess in Back of Chuck (Specify whether chuck-back is Style "A" or Style "B".)
7. Exact Over-All Length of Lathe Spindle.



Headstock Spindle
Nose



Chuck-Back



Chuck-Back Fitted
to Chuck



Recess in Back of
Chuck

Prices of Standard Chuck-Backs for South Bend Lathes

When ordering semi-machined chuck-backs be sure to state diameter of flange wanted, otherwise maximum standard size will be supplied. Semi-machined chuck-backs larger than the standard diameters listed below are supplied to order. Prices on request.

Size of Lathe	18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Jr. Q.S. & T.M.	9" Work-Shop
Standard Sizes of Semi-Machined Chuck-Backs (flange will finish to diameter specified).....	7½ in. 8 in. 9 in.	5 in. 6 in. 7 in. 8 in.	5 in. 6 in. 7 in. 7½ in.	5 in. 6 in. 7 in. 7½ in.	4 in. 5 in. 5½ in. 6¼ in.	4 in. 5 in. 5½ in. 6¼ in.	3 in. 4 in. 5 in. 6 in.
Price Semi-Machined Chuck-Back Threaded for Spindle.....	\$5.50	\$5.00	\$4.75	\$4.50	\$4.25	\$4.00	\$2.50
Price Fitted Chuck-Back Threaded for Spindle and Attached to Chuck.....	\$10.00	\$9.00	\$8.50	\$8.00	\$7.25	\$6.50	\$4.00

*Also applies to 10-24" and 36" swing lathes.

4-Jaw Independent Chucks



Standard Weight Chuck

This precision chuck has four reversible independent solid jaws with individual screw adjustment for chucking round or irregular work, either in a concentric or in an eccentric position. Prices include wrench and cap screws for chuck-back.

Cat. No.	Rated Size of Chuck	Will Hold About	Shipping Weight, Lbs.	Price
4404	4½ in.	6 in.	11 lbs.	\$23.00
4409	6 in.	7½ in.	21 lbs.	28.00
4408	8 in.	9 in.	35 lbs.	32.00
4409	9 in.	11¼ in.	42 lbs.	35.00
4410	10 in.	12½ in.	51 lbs.	40.00
4412	12 in.	14½ in.	90 lbs.	45.00
4414	14 in.	16½ in.	117 lbs.	52.00
4415	16 in.	18 in.	130 lbs.	57.00
4416	20 in.	19 in.	147 lbs.	62.00

Medium Weight Chuck

A precision chuck similar to the standard weight chuck above, but is lighter in design. We recommend it for light work. Has wrench and screws.



Cat. No.	Rated Size	Holds About	Weight, Lbs.	Price
4603	3 in.	3¾ in.	3½	\$17.00
4604	4 in.	5 in.	5	18.55
4605	5 in.	6 in.	9¼	21.25
4606	6 in.	7¼ in.	12¾	23.80
4607	7½ in.	8¾ in.	13¾	26.85

Light Weight Chuck

A well built chuck. Has four reversible independent jaws. Complete with wrench and screws for chuck-back.



Cat. No.	Rated Size	Holds About	Wt. Lbs.	Price
4804	4 in.	5 in.	3¾	\$13.10
4805	5 in.	6 in.	7	14.60
4806	6 in.	7¾ in.	9½	15.25

3-Jaw Drill Chuck (Standard Weight)

A practical chuck for general drilling work. Has tempered steel jaws operated by a heavy screw. Price includes pinion key but not arbor.

No.	Capacity	Weight	Price
1200	0 to ¾ in.	1 lb.	\$4.25
1201	0 to 1½ in.	1¾ lbs.	6.75
1202	¾ to ¾ in.	2¾ lbs.	9.00
1203	¾ to 1 in.	6¾ lbs.	15.00



Hollow Spindle Chuck

An ideal chuck for holding small rods and bars, also all kinds of engine valves for machining in the lathe. Price includes pinion key, and hollow steel arbor.

No. 354-A, ½" hollow spindle drill chuck with hollow arbor for 13", 15", 16", and 18" lathes. \$10.50
 No. 354-B, ¾" hollow spindle drill chuck with hollow arbor for 13", 15", 16", and 18" lathes. \$14.25.

2-Jaw Drill Chuck

A strong, simple chuck for round straight shank drills, taps, reamers, etc. Price includes wrench, but not chuck arbors, which are priced at right.

Cat. No.	Capacity	Weight	Price
1300	¾"	1¼ lbs.	\$ 7.50
1301	1"	2¼ lbs.	9.60
1302	1½"	5½ lbs.	10.00
1303	2"	10 lbs.	12.60



*"g" W." indicates the 9-inch "Workshop" Lathe.

3-Jaw Universal Chucks



Standard Weight Chuck

This self-centering precision chuck is intended for holding round and hexagonal work in a concentric position. The jaws operate simultaneously. Prices include wrench, two sets of jaws, (internal and external) and screws for chuck-back.

Cat. No.	Rated Size of Chuck	Will Hold About	Shipping Weight	Price
3403	3 in.	3¼ in.	3½ lbs.	\$25.00
3404	4 in.	4¾ in.	7½ lbs.	29.00
3405	5 in.	5 in.	11 lbs.	31.00
3406	6 in.	6¾ in.	20 lbs.	35.00
3407	7½ in.	7½ in.	32 lbs.	41.00
3409	9 in.	9 in.	45 lbs.	48.00
3410	10½ in.	10¾ in.	64 lbs.	55.00
3412	12 in.	12 in.	80 lbs.	64.00
3415	15 in.	15 in.	143 lbs.	91.00

Medium Weight Chuck

This precision chuck is similar to the Standard weight chuck above, but is lighter in design. Price includes wrench and screws for chuck-back.



Cat. No.	Rated Size	Holds About	Wt. Lbs.	Price
3603	3 in.	3¼ in.	3½	\$26.40
3604	4 in.	4¾ in.	7	29.80
3605	5 in.	5 in.	10	30.25
3606	6 in.	6¼ in.	19	33.75

Light Weight Chuck

An excellent self-centering chuck. Has two sets of jaws, wrench, and screws for chuck-back.



Cat. No.	Rated Size	Holds About	Wt. Lbs.	Price
3804	4 in.	4½ in.	4	\$13.25
3805	5 in.	5 in.	4½	17.00
3806	6 in.	6½ in.	9	21.10

3-Jaw Drill Chuck (Light Weight)

This chuck is powerful and accurate. It is not as heavy in design as the standard weight type at left. Price includes pinion key, but not arbor.

No.	Capacity	Weight	Price
325	0 to ¾"	¾ lbs.	\$ 3.50
326	0 to 1½"	1¼ lbs.	5.25
327	¾ to ¾"	2¾ lbs.	6.75
328	¾ to 1"	5½ lbs.	10.00



Headstock Spindle Chuck

Screws on spindle nose. Has hollow spindle for holding small rods, bars and engine valves.



Size Lathe	No.	½" Cap. Price	¾" Cap. Price
9" W"	907-B	\$9.00	\$25-T
9" T"	907-T	9.00	925-A
	11		925-B
	13		925-C

Arbors for Drill Chucks



Size Lathe	Morse Taper	Cat. No.	Price	Size Lathe	Morse Taper	Cat. No.	Price
"Workshop"	2	709	\$0.80	11"	2	709	\$0.80
"Toolmaker"	2	709	.60	13", 15"	3	713	1.00
9-inch	2	709	.80	15", 18"	3	716	1.00

†"9" T." indicates the 9-inch "Toolmaker" Lathe.

Attachments for South Bend Lathes

South Bend Lathes can be fitted with a wide variety of practical attachments for handling special machine and automotive service jobs which otherwise would require the purchase of single purpose machines.

Most of the attachments can be fitted to the lathe in your shop, as needed. A partial list of attachments is priced in the tabulation below.

We do not recommend the use of these attachments on lathes of other makes as they may not fit.

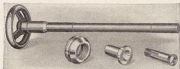


Fig. 37. Hand Wheel Draw-in Collet Chuck Attachment Showing Nose Cap, Closing Sleeve, and Collet.



Fig. 38. Thread Dial Indicator.



Fig. 39. Micrometer Carriage Stop.



Fig. 40. Graduated Taper Attachment for Lathes.



Fig. 41. Electric Grinder Mounted on Tool Post.

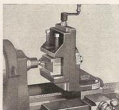


Fig. 42. Milling and Keyway Cutting Attachment for Lathe.

Net Factory Prices of Attachments and Accessories for South Bend Lathes

Name of Attachment	18" Lathe	16" Lathe	15" Lathe	13" Lathe	11" Lathe	9" Quik & Std.	9" Jr. Lathe	9" T.† Lathe	9" W.* Lathe
Benches for Bench Lathes.....									
Carriage Stop, Micrometer.....	\$ 17.00	\$ 15.00	\$ 14.00	\$ 13.00	\$ 12.00	\$ 11.00	\$ 11.00	\$ 10.00	\$ 8.00
Carriage Stop, Plain.....	4.50	4.00	3.50	3.00	2.75	2.50	2.50	2.25	2.00
Chuck and Tool Attachment, complete.....	94.80	84.25	69.00	63.25	48.55	47.10	47.10	47.10	32.65
Collet Chuck, Draw-in, Hand Wheel Type.....	55.00	50.00	45.00	40.00	35.00	32.00	32.00	29.00	25.00
Collet Chuck, Draw-in, Hand Lever Type.....	169.00	130.00	120.00	105.00	90.00	80.00	80.00	75.00	70.00
Collars for Round Work, Spigs.....	5.00	4.75	4.25	4.00	3.50	2.50	2.50	2.50	2.50
Connecting Rod Servicing Equipment.....									
Diamond Hocking Fixture, Adjustable.....	15.00	13.00	12.00	10.00	9.00	8.00	8.00	8.00	6.00
Diamond Dresser for above.....	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
Diamond Holder, Tailstock Type.....	3.50	3.50	3.25	2.75	2.25	2.25	2.25	2.25	2.00
Diamond Dresser for above.....	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Differential Servicing Equipment.....									
Flywheel Servicing Equipment.....									
Gear Cutting Attachment.....									
Grinder, Electric, No. 14.....	60.00	60.00	55.00	55.00	55.00	50.00	50.00	50.00	40.00
Grinder, Electric, (Light Duty).....					24.00	24.00	24.00	24.00	24.00
Head Rest for Wood Turning.....	11.00	11.00	11.00	9.00	8.00	8.00	8.00	5.00	4.00
Mandrels and Adapters for Brake Drums.....									
Milling and Boring Table.....								15.00	12.50
Milling and Keyway Cutting Attachment.....	90.00	75.00	65.00	55.00	50.00	45.00	45.00	40.00	35.00
Milling Cutters and Arbors.....									
Oil Pan for Lathes.....									
Oil Pump, Reservoir and Fittings.....									
Type Centers for Lathes.....									
Tools Servicing Equipment.....									
Raising Blocks, Standard Change Gear Lathe.....	85.00	75.00	65.00	55.00	40.00	35.00	35.00		
Raising Blocks, Quick Change Gear Lathe.....	101.00	89.00	77.00	65.00	45.00	40.00	35.00		
Tailstock, Hand Lever Type.....				40.00	37.00	35.00	35.00	35.00	32.00
Taper Attachment, Graduated.....	100.00	90.00	85.00	75.00	65.00	55.00	55.00	50.00	45.00
Thread Dial Indicator.....	15.00	13.00	12.00	11.00	10.00	9.00	9.00	8.00	8.00
Tool Slide, Double, Hand Lever Type.....	95.00	85.00	80.00	75.00	65.00	60.00	60.00	60.00	
Tool Slide, Double, Serper Type.....	60.00	55.00	50.00	45.00	40.00	35.00	35.00	35.00	
Tranzposing Gears, Metric (Quick Change).....	155.00	90.00	80.00	40.00	35.00	30.00	30.00	30.00	25.00
Tranzposing Gears, Metric (Standard Change).....	80.00	45.00	40.00	35.00	30.00	25.00	25.00	25.00	25.00
Turret, Hand Lever Bed Type (fitted).....				235.00	230.00	225.00	225.00	225.00	
Turret, Turnstile Type (fitted).....	365.00	300.00	300.00						
Undercutter, Mica, Electric Type.....	35.00	33.00	33.00	30.00	30.00	27.50	27.50	27.50	25.00
Undercutter, Mica, Shaper Type.....	15.00	14.00	14.00	13.00	13.00	12.50	12.50	12.50	12.50

†"9" T." indicates the 9" Toolmaker Lathe; *9" W." indicates the 9" Workshop Lathe.

Tool Holders and Boring Tools

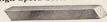
Tool Holder and Cutter Bit Set



Set consists of tool holder (choice of straight, right or left hand), wrench, unground cutter bit, and six H.S. steel cutter bits ground to the following forms as shown above: A—Left Hand; B—Round Nose; C—Right Hand; D—L.H. Side; E—Threading; F—R.H. Side.

Size Lathe	Cat. No.	Price	Size Lathe	Cat. No.	Price
9" W*	223-A	\$2.35	11"	603-C	\$2.60
9" T.†	603-B	2.50	13, 15"	603-D	4.65
9"	603-B	2.50	16, 18"	603-E	8.15

High Speed Steel Cutter Bits



Cutter bits hardened and ground to form are shown in tool and cutter set above. When ordering state whether Form A, B, C, D, E or F is wanted.

Size Sq. In.	Length Inches	Ground		Unground	
		Cat. No.	Price	Cat. No.	Price
3/4"	2	1304	\$0.23	1419	\$0.13
1"	2 1/4	1311	.25	1421	.15
1 1/4"	2 1/2	1313	.25	1422	.25
1 3/4"	2	1316	.50	1423	.40



Turning Tool Holder

Made of drop-forged steel. Prices include tool holder, wrench and high speed steel cutter bit, not ground.

Size Lathe Inches	Size Shank Inches	Cutter	Catalog No.			Price Ea.
			Str.	Right Hand	Left Hand	
9" W*	3/4 x 3/4	1/2"	847-S	847-R	847-L	\$1.25
9" T.†	3/4 x 3/4	3/8"	848-S	848-R	848-L	2.20
9"	3/4 x 3/4	1/4"	849-S	849-R	849-L	2.20
11	1 1/4 x 1 1/4	3/8"	851-S	851-R	851-L	2.25
13, 15	1 1/2 x 1 1/2	3/8"	852-S	852-R	852-L	2.65
16, 18	1 3/4 x 1 3/4	3/8"	853-S	853-R	853-L	3.25



Threading Tool Holder

Made of drop-forged steel. Prices include threading tool, wrench and H.S. single point cutter. (V. U.S.S., or Whitworth Standard).

Size Lathe	Cat. No.	Size Shank	Price Each
9" W*	845	3/8" x 3/8"	\$2.50
9" T.†	865	3/8" x 3/8"	3.35
9"	863	3/8" x 3/8"	3.35
11"	866	3/8" x 3/8"	3.35
13, 15"	867	3/8" x 1 1/8"	4.60
16, 18"	868	3/8" x 1 1/8"	5.10

* "9 W." indicates the 9-inch "Workshop" Lathes. † "9 T." indicates the 9-inch "Toolmaker" Lathes.



Knurling Tool Holder

Made of drop-forged steel. Prices include knurling tool and set of knurls made of tool steel; fine, medium or coarse; straight or diamond pattern.

Size Lathe Inches	Cat. No.	Size Shank	Price Each
9" W*	820	3/8" x 3/8"	\$3.00
9" T.†	891	3/8" x 3/8"	4.50
9"	891	3/8" x 3/8"	4.50
11	892	3/8" x 3/8"	4.50
13, 15	893	1/2" x 1 1/8"	5.40
16, 18	894	5/8" x 1 1/8"	6.40



Cutting-Off Tool Holders

Made of drop-forged steel. Prices include cutting-off tool holder; wrench; and one high speed cutter, ground.

Size Lathe Inches	Size Shank Inches	Catalog Numbers			Price Ea.
		Stru ght	Right Hand	Left Hand	
9" W*	3/4 x 3/4	832-S	832-R	832-L	\$1.50
9" T.†	3/4 x 3/4	881-S	881-R	881-L	2.35
9"	3/4 x 3/4	881-S	881-R	881-L	2.35
11	3/4 x 3/4	882-S	882-R	882-L	2.50
13, 15	1 x 1 1/4	883-S	883-R	883-L	2.95
16, 18	1 1/4 x 1 1/4	884-S	884-R	884-L	3.70

Lathe Dogs



Standard Dog

Made of heavy malleable iron. A wrench is included with safety type dog.

Prices of Heavy Type Lathe Dogs

For 11-inch to 36-inch Swing Lathes

Capacity	Standard		Safety	
	Cat. No.	Price	Cat. No.	Price
3/4 in.	1-M	\$0.50	1-MH	\$0.60
1 in.	2-M	.60	2-MH	.70
1 1/4 in.	4-M	.70	4-MH	.80
1 in.	6-M	.80	6-MH	.90
1 1/4 in.	8-M	.90	8-MH	1.00
1 1/2 in.	10-M	1.05	10-MH	1.15
1 3/4 in.	11-M	1.20	11-MH	1.30
2 in.	12-M	1.35	12-MH	1.45
2 1/4 in.	14-M	1.60	14-MH	1.70
2 1/2 in.	15-M	1.75	15-MH	1.90
3 in.	16-M	1.95	16-MH	2.10
4 in.	17-M	2.25	17-MH	2.40

Prices of Light Pattern Lathe Dogs

For 9-inch and 11-inch Swing Lathes

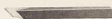
3/4 in.	1-MJ	\$2.40	1-JH	\$0.50
1 in.	2-MJ	.50	2-JH	.60
1 1/4 in.	4-MJ	.60	4-JH	.70
1 in.	6-MJ	.70	6-JH	.80
1 1/4 in.	8-MJ	.80	8-JH	.90
1 1/2 in.	10-MJ	.95	10-JH	1.05

Clamp Lathe Dogs



Drop Forged Steel

Capacity	Cat. No.	Price
1 1/4 in.	105	\$1.80
1 3/4 in.	161	2.40
2 in.	162	3.00
2 1/2 in.	163	4.25



Stellite Cutter Bits

Permit much higher cutting speeds than high speed steel cutter bits. Order by form letter A, B, C, D, E, F, shown at left.

Size Sq. In.	Length Inches	Ground		Unground	
		Cat. No.	Price	Cat. No.	Price
3/4"	2 1/4	1476	\$0.85	1600	\$0.60
1"	2 1/2	1477	1.20	1921	.95
1 1/4"	3	1478	1.65	1922	1.40



Style "B" Boring Tool

For medium work. Made of drop forged steel. Prices include tool holder, sleeve bar, end cap, two wrenches and two unground cutters.

Size Lathe Inches	Cat. No.	Size Shank Inches	Size Bar Inches	Price Each
9" W*	423	3/4 x 3/4	1 1/2 x 8	\$4.00
9" T.†	429	3/4 x 3/4	1 1/2 x 8	4.00
9"	429	3/4 x 3/4	1 1/2 x 8	4.00
11	430	3/4 x 3/4	1 3/4 x 10 1/2	4.00
13, 15	431	1 x 1 1/4	1 3/4 x 12 1/2	4.75
16, 18	432	1 1/4 x 1 1/4	1 3/4 x 14 1/2	6.25



Style "D" Boring Tool

For small work. Prices include boring tool holder of drop forged steel; boring bar, ground, and wrench.

Size Lathe Inches	Cat. No.	Size Shank Inches	Size Bar Inches	Price Each
9" W*	505-F	3/4 x 3/4	1 1/2 x 5	\$2.50
9" T.†	505-A	3/4 x 3/4	1 1/2 x 5	2.50
9"	505-A	3/4 x 3/4	1 1/2 x 5	2.50
11	505-B	3/4 x 3/4	1 3/4 x 6 1/2	2.75
13, 15	505-C	1 x 1 1/4	1 3/4 x 7	3.00
16, 18	505-D	1 1/4 x 1 1/4	1 3/4 x 8	3.30



Heavy Duty Boring and Turning Tool

For boring and turning large diameters.

Size Lathe Inches	Cat. No.	Size Bar Inches	Price Each
9" T.†	409	3/4 x 14	\$12.00
9"	409	3/4 x 14	12.00
9"	470	1 x 15	14.00
13	471	1 1/4 x 18	18.00
15	472	1 1/2 x 20	22.00
16, 18	473	1 3/4 x 20	23.00
36	464-A	1 1/2 x 20	23.00



Center Drill and Countersink

Work Diam.	Drill Diam.	Body Diam.	Cat. No.	Price
3/8" to 1"	3/8" in.	1 1/2"	898-A	\$0.25
3/8" to 1"	3/8" in.	1 1/2"	898-B	.30
1 1/4" to 2"	3/8" in.	1 3/4"	898-C	.35
2 1/4" to 4"	3/8" in.	1 3/4"	898-D	.40

96 Sizes and Types of South Bend Lathes

18" to 9" Swing—All Shown in New General Catalog No. 94

The new 72-page General Catalog No. 94, size 8 1/2" x 10 1/2", illustrates, describes and prices the 1934 line of New Model South Bend Back-Geared, Screw-Cutting Precision Lathes, from 18-inch to 9-inch swing, in bed lengths from 2-ft. to 16-ft., Quick-Change Gear Lathes, Standard Change Gear Lathes, Junior Lathes, Toolmaker Lathes, Workshop Lathes, Floor Leg Lathes, Bench Lathes, for operation from Overhead Countershaft Drive and several types of Motor Drives, are shown. Other types include Tool Room Lathes, Brake Drum Lathes and Gap Bed Lathes. Popular sizes and types are priced below.

A complete line of attachments, chucks, tools and accessories for these South Bend Lathes is also shown in Catalog No. 94, a copy of which will be mailed on request, anywhere in the world, postpaid, no charge.



15 1/2" Standard Change Gear Lathe Including Regular Lathe Equipment... 1485.00



14" x 6" Quick Change Gear Silent V-Belt Motor Driven Lathe Complete... 1465.00



14" x 6" Quick Change Gear Underneath Motor Driven Lathe Complete... 1712.00

Prices of 18-inch to 9-inch Swing South Bend Floor Leg Lathes

Prices include Regular Lathe Equipment and Electrical Equipment, Inck. Cars Factory, South Bend, Indiana, Crated for Domestic Shipment

Brief Specifications				Countershaft Drive Lathes			Silent V-Belt Motor Drive			Underneath Belt Motor Drive		
Swing Over Bed Inches	Length of Bed Feet	Distance Between Centers Inches	Power Horse-HP	Quick Change		Standard Change	Quick Change		Standard Change	Quick Change		Standard Change
				Weight Crated Pounds	Cat. No.	Net. Factory Price	Weight Crated Pounds	Cat. No.	Net. Factory Price	Weight Crated Pounds	Cat. No.	Net. Factory Price	Weight Crated Pounds	Cat. No.	Net. Factory Price
18-inch South Bend Quick Change Gear and Standard Change Gear Floor Leg Lathes												
18 1/2	8	5 1/2	2	2646	84-0	\$198.00	45-0	\$121.50	214-0	243-0	\$121.50	\$165.00
18 1/2	10	7 1/2	2	2840	84-1	218.00	45-0	137.00	224-0	243-0	127.00	\$165.00
18 1/2	12	10 1/2	2	3166	84-2	259.00	45-0	157.00	244-0	243-0	147.00	\$180.00
16-inch South Bend Quick Change Gear and Standard Change Gear Floor Leg Lathes												
16 1/2	8	4 1/2	1	2175	82-0	\$160.00	41-0	\$80.00	223-0	211-0	\$105.00	\$141.00
16 1/2	8	5 1/2	1	2023	82-1	180.00	41-0	90.00	220-0	211-0	115.00	\$141.00
16 1/2	10	6 1/2	1	2195	82-2	204.00	41-0	102.00	220-0	211-0	125.00	\$162.00
14-inch South Bend Quick Change Gear and Standard Change Gear Floor Leg Lathes												
14 1/2	8	3 1/2	1	1550	80-0	\$105.00	39-0	\$52.50	200-0	195-0	\$97.50	\$130.00
14 1/2	8	4 1/2	1	1600	80-1	110.00	39-0	55.00	193-0	195-0	100.00	\$130.00
14 1/2	10	4 1/2	1	1678	80-2	120.00	39-0	60.00	200-0	195-0	105.00	\$130.00
12-inch South Bend Quick Change Gear and Standard Change Gear Floor Leg Lathes												
12 1/2	5	2 1/2	1/2	1100	80-0	\$70.00	25-0	\$35.00	140-0	135-0	\$67.50	\$90.00
12 1/2	5	3 1/2	1/2	1180	80-1	75.00	25-0	37.50	135-0	135-0	67.50	\$90.00
12 1/2	8	3 1/2	1/2	1275	80-2	82.00	25-0	41.00	135-0	135-0	73.00	\$90.00
11-inch South Bend Quick Change Gear and Standard Change Gear Floor Leg Lathes												
11 1/2	3 1/2	1 1/2	1/2	655	78-2	\$32.75	22-0	\$11.10	80-0	78-0	\$39.00	\$51.00
11 1/2	4	1 1/2	1/2	725	78-4	36.00	22-0	12.00	80-0	78-0	42.00	\$51.00
11 1/2	5	1 1/2	1/2	755	78-0	37.50	22-0	12.50	80-0	78-0	43.50	\$51.00
10-inch South Bend Quick Change Gear and Standard Change Gear Floor Leg Lathes												
10 1/2	3	1 1/2	1/2	442	80-0	\$22.10	20-0	\$11.05	65-0	63-0	\$31.50	\$40.00
10 1/2	3 1/2	1 1/2	1/2	507	80-2	25.35	20-0	12.68	65-0	63-0	31.65	\$40.00
10 1/2	4	1 1/2	1/2	525	80-4	26.25	20-0	13.13	65-0	63-0	32.25	\$40.00
10 1/2	4 1/2	1 1/2	1/2	537	80-0	26.85	20-0	13.43	65-0	63-0	33.20	\$40.00

Prices of 9-inch Swing South Bend Bench Lathes

Brief Specifications				Countershaft Drive Lathes			Silent V-Belt Motor Drive			Horizontal Motor Drive			
Swing Over Bed Inches	Length of Bed Feet	Distance Between Centers Inches	Power Horse-HP	Quick Change		Standard Change	Quick Change		Standard Change	Quick Change		Standard Change	
				Weight Crated Pounds	Cat. No.	Net. Factory Price	Weight Crated Pounds	Cat. No.	Net. Factory Price	Weight Crated Pounds	Cat. No.	Net. Factory Price	Weight Crated Pounds	Cat. No.	Net. Factory Price
9-inch South Bend Quick Change Gear and Standard Change Gear Bench Lathes													
9 1/2	3	1 1/2	1/2	440	80-1	\$22.00	20-0	\$11.00	60-0	58-0	\$29.00	\$37.00	
9 1/2	3 1/2	1 1/2	1/2	455	80-2	23.25	20-0	11.63	60-0	58-0	30.75	\$39.00	
9 1/2	4	1 1/2	1/2	480	80-0	24.00	20-0	12.00	60-0	58-0	31.00	\$39.00	
9 1/2	4 1/2	1 1/2	1/2	505	80-1	25.25	20-0	12.63	60-0	58-0	32.25	\$39.00	
9-inch Junior South Bend Bench Lathes													
9 1/2	3	1 1/2	1/2	315	Not made in Quick Change	22-1/2	17.50	55	Not made in Quick Change	55-0	53-0	26.50	\$33.00
9 1/2	3 1/2	1 1/2	1/2	330	Not made in Quick Change	23-1/2	18.75	55	Not made in Quick Change	55-0	53-0	28.00	\$33.00
9 1/2	4	1 1/2	1/2	345	Not made in Quick Change	24-1/2	19.63	55	Not made in Quick Change	55-0	53-0	29.00	\$33.00
9-inch Toolmaker South Bend Bench Lathes													
9 1/2	3	1 1/2	1/2	325	Not made in Quick Change	22-1/2	18.00	50	Not made in Quick Change	50-0	48-0	25.00	\$31.00
9 1/2	3 1/2	1 1/2	1/2	340	Not made in Quick Change	23-1/2	19.00	50	Not made in Quick Change	50-0	48-0	26.00	\$31.00
9 1/2	4	1 1/2	1/2	355	Not made in Quick Change	24-1/2	20.00	50	Not made in Quick Change	50-0	48-0	27.00	\$31.00
9-inch Workshop South Bend Bench Lathes (Illustrated in this bulletin)													
9 1/2	3	1 1/2	1/2	290	From all parts	22-1/2	17.00	50	The South Bend Lathes are not made in Silent V-Belt Motor Drive Type	50-0	48-0	25.00	\$31.00
9 1/2	3 1/2	1 1/2	1/2	305	From all parts	23-1/2	18.00	50		50-0	48-0	26.00	\$31.00
9 1/2	4	1 1/2	1/2	320	From all parts	24-1/2	19.00	50		50-0	48-0	27.00	\$31.00

"How to Run a Lathe"—31st Edition

A Valuable Text and Reference Book on Lathe Operation



Competent Authorities say that this is one of the most complete books written on the care and operation of the Back-Geared, Screw Cutting Lathe. This book is 5 $\frac{1}{4}$ " x 8", contains 160 pages and more than three hundred illustrations.

400 Different Types of Lathe Jobs in modern machine shop practice are illustrated and described in this book. Over one and one-half million copies have been published in the last 26 years. The book is now in the thirty-first revised edition.

Printed in Several Languages. English, Spanish, Portuguese and Chinese editions of "How to Run a Lathe" have been published. The Spanish edition is known as "Manual del Tornero." The Portuguese edition is known as "Como Se Deve Manejar Um Torno."

Large Industries, such as Ford Motor Co., Bethlehem Steel Co., New York Central Railroad, etc., use "How to Run a Lathe" for apprentice school training. Schools and colleges all over the world accept it as a text and reference book in machine shop practice.

Paper Binding or Leatherette. Price of book, "How to Run a Lathe," with paper binding 25c. Price of book with de luxe leatherette binding 75c. Coin or stamps of any country will be accepted in payment of orders for single copies.

Partial List of Contents

How to Set Up the Lathe
Care of the Lathe
How to Lay Out a Shop
How to Level a Lathe
How to Hang a Countershaft
Size and Speed of Pulleys
How to Lace a Belt
Grinding and Setting Lathe Tools

Cutting Screw Threads
Turning and Boring Tapers
Grinding and Milling Work
Chucks and Face Plates
Cutting Speeds of Metals
Cutting Feeds for Metals
Operating Automatic Feeds
Reading Micrometer Calipers

Outside and Inside Calipers
Locating Center Holes
Aligning Lathe Centers
Drilling, Boring, Reaming
Use of Compound Rest
Table of Decimal Equivalents
Table of Metric Measures
300 Other Shop Kinks

Manufacturers of South Bend Lathes for 27 Years

Builders of 96 Sizes and Types—9-Inch to 18-Inch Inclusive

The South Bend Lathe Works was established at South Bend, Indiana, in 1906 and has operated continuously, under the same management, for more than 27 years, building only South Bend Back-Geared, Screw Cutting Precision Lathes. There are now 56,000 South Bend Lathes in use in the U. S. and 96 other countries.



Lathes
Builders for
Twenty-seven Years

56,000 Lathes
in use in the U. S.
and 96 other Countries

Factory Where South Bend Lathes Are Made

South Bend Lathe Works

419 East Madison St.,
South Bend, Ind., U.S.A.