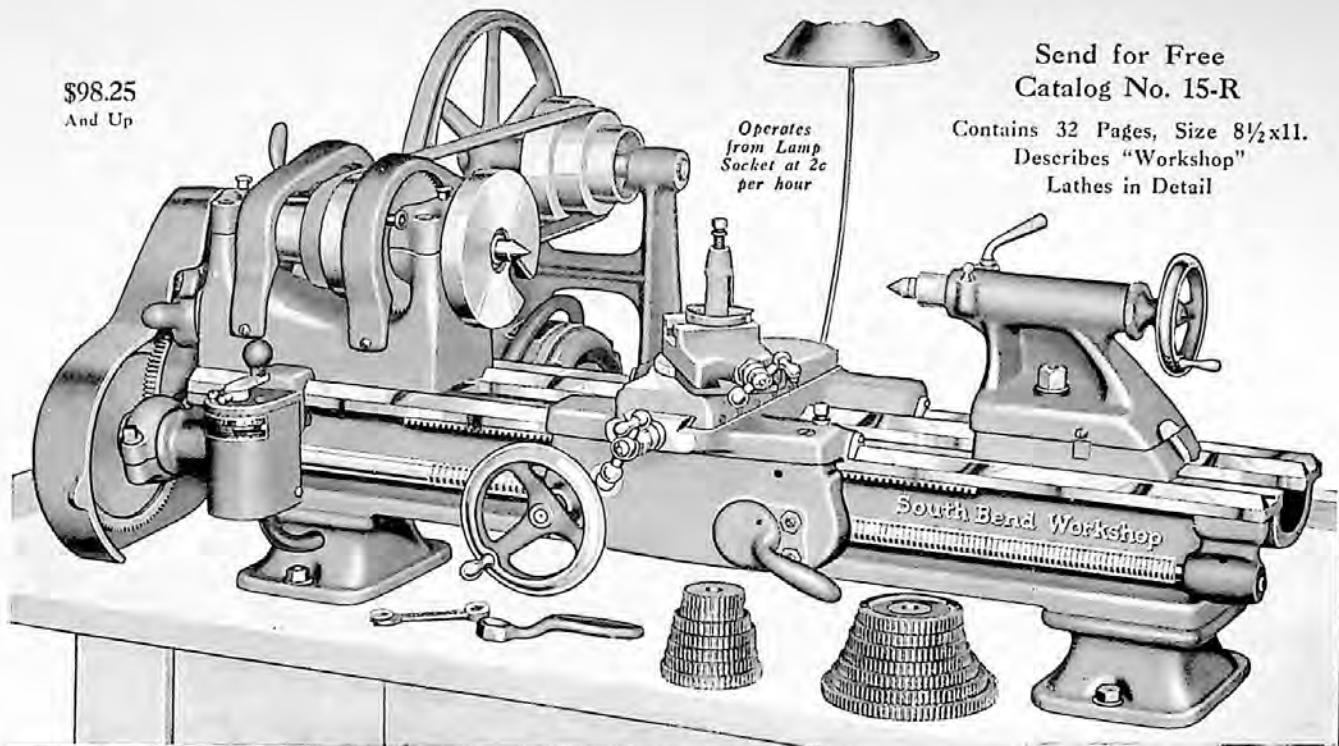


\$98.25
And Up



Send for Free
Catalog No. 15-R

Contains 32 Pages, Size 8½x11.
Describes "Workshop"
Lathes in Detail

9" x 3' "Workshop" South Bend Precision Bench Lathe with Horizontal Motor Drive, Motor, Switch and Regular Lathe Equipment, but less Bench.....\$98.25

1936 Model 9-inch "Workshop" Motor Driven Lathe With Plain Type Horizontal Motor Drive Countershaft

The 9-inch "Workshop" South Bend Horizontal Motor Driven Precision Bench Lathe shown above is a complete unit consisting of the lathe, adjustable type or plain type horizontal countershaft, reversing motor, reversing switch and belting, as priced below.

The Plain Type Horizontal Countershaft illustrated with lathe above, and shown in Fig. "A" at right, is practical for shops handling a limited amount of machine work. The base of this countershaft and the base of the motor have slotted bolt holes which permit adjustments "to" and "from" the lathe to provide for any required tension of either the V-belt or the flat leather belt.

The Adjustable Type Horizontal Countershaft, shown in Fig. "B" at right, provides instant release of belt tension for easy shifting of cone pulley belt and per-

mits adjustment to any belt tension. The adjustment can be made instantly by turning the turnbuckle shown at "A" in the photo. Independent V-belt adjustment is accomplished by moving the motor "up" or "down" on the drive unit.

Important Lathe Specifications: Swing over bed 9½"; swing over carriage 5½"; hole thru spindle ¾"; spindle speeds 39 to 630 R.P.M.; thread cutting range 4 to 40 per inch; collet capacity ¼" to ½".

Regular Lathe Equipment consists of: Graduated compound rest; face plate 5-inch diameter; forged steel tool post, ring and wedge; two 60-degree lathe centers No. 2 Morse Taper; headstock spindle sleeve; wrenches; set of independent change gears for screw thread cutting; large turning gears for automatic longitudinal power feeds; installation plan blue print and book, "How to Run a Lathe."

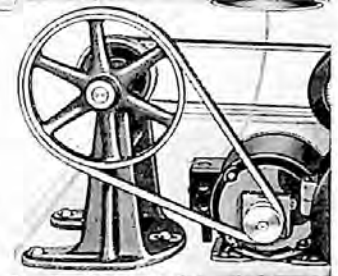


Fig. A. Horizontal Motor Drive Countershaft, Plain Type

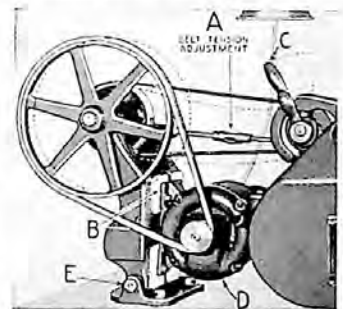


Fig. B. Horizontal Motor Drive Countershaft, Adjustable Type

Prices of 9-inch "Workshop" Horizontal V-Belt Motor Driven Bench Lathe

9-inch "Workshop" South Bend Precision Bench Lathe Complete with Graduated Compound Rest and Regular Lathe Equipment, but without Motor Drive Equipment and Less Bench.....	Lathe with Horizontal Motor Drive Countershaft—Plain Type				Lathe with Horizontal Motor Drive Countershaft—Adjustable Type			
	9" x 3' 415-Y	9" x 3½' 415-Z	9" x 4' 415-A	9" x 4½' 415-R	9" x 3' 415-YA	9" x 3½' 415-ZA	9" x 4' 415-AA	9" x 4½' 415-RA
	\$ 75.00	\$ 87.00	\$ 99.00	\$116.00	\$ 75.00	\$ 87.00	\$ 99.00	\$116.00
Prices of Motor Drive Equipment								
Horizontal Motor Drive Countershaft, Plain Type.....	7.00	7.00	7.00	7.00	.....	.....	.....	.....
Horizontal Motor Drive Countershaft, Adjustable.....	.....	.....	.....	.....	12.00	12.00	12.00	12.00
¼ H. P. Start-and-Stop Reversing Split-Phase Motor, 1725 R.P.M. (1-ph., 60-cy., A.C. 110-v.).....	8.75	8.75	8.75	8.75	8.75	8.75	8.75	8.75
V-Groove Pulley for Motor.....	.50	.50	.50	.50	.50	.50	.50	.50
Drum Reversing Switch (Style R-12) and Bracket.....	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00
V-Belt, Motor to Drive Unit.....	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Flat Leather Belt and Lacing.....	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Total Price, Lathe with Motor Drive Equip.*.	\$ 98.25	\$110.25	\$122.25	\$139.25	\$103.25	\$115.25	\$127.25	\$144.25
Code Word, Lathe with Motor Drive Equipment.....	Macan	Macer	Mafab	Maget	Magla	Mahik	Manaf	Mandi
Distance Between Spindle Centers of Lathe.....	17 in.	23 in.	29 in.	35 in.	17 in.	23 in.	29 in.	35 in.
Shipping Wt., Lathe and Motor Drive Complete.....	310 lbs.	335 lbs.	360 lbs.	410 lbs.	320 lbs.	345 lbs.	370 lbs.	420 lbs.

*Price extra for heavy, rubber covered wiring for connecting motor with switch, together with 6-ft. extension cord and plug, \$1.75

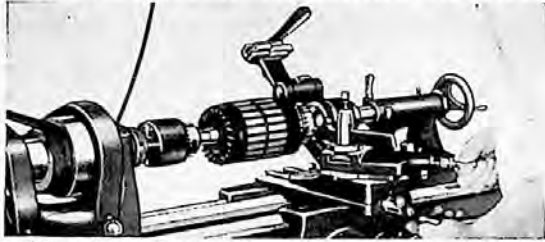
SOUTH BEND LATHE WORKS 806 E. Madison St., South Bend, Ind., U. S. A.

CIRCULAR No. 14

Page 1 (8 pages in this set)

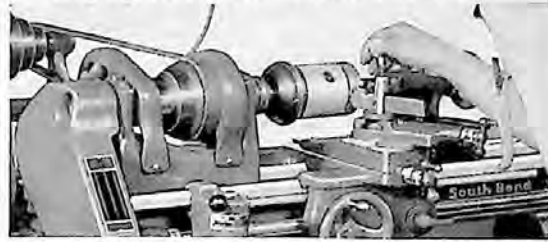
Automotive Attachments for South Bend Precision Lathes

Equipment for Armature Service



Truing an Armature Commutator and Undercutting Mica in the Lathe

Equipment for Piston Service



Finish Turning a Semi-machined Piston in the Lathe

Hand Type Undercutter



Undercuts commutators of all sizes and types. Fastens on side of saddle. The cutter is moved by a hand lever. An adjustment regulates depth of cut. Three back saw cutter blades are supplied, each .025" thick. Attachment can be turned back out of the way.



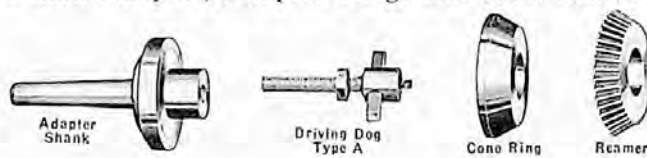
Armature Support Bushing

For mounting centerless armatures in the lathe. Has brass jaws. Takes shafts 5/16 in. to 3/4 in. diameter. Is used in tailstock spindle. Price includes Arbor No. 340. Bushing for "Workshop," Toolmaker, 9" and 11" Lathes, \$9.00 No. 340-A. Bushing for 13", 15", 16" and 18" Lathes \$9.50

Prices of Hand Type Mica Undercutter

Size Lathe	No.	Price	Size Lathe	No.	Price
Workshop	673	\$15.00	13 in.	677	\$16.00
Toolmaker	674	15.00	15 in.	678	17.00
9 in.	675	15.00	16 in.	679	17.50
11 in.	676	16.00	18 in.	680	19.00

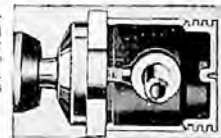
Piston Adapter, Adapter Rings and Skirt Reamer



The Self-Centering Piston Adapter is used for mounting pistons in the lathe. The long tapered shank fits the lathe spindle and the short shank receives the adapter rings and skirt reamers. Cone rings are used for pistons with center hole in head. Centering rings, shown at right, are used for pistons without center hole in head.

Price No. 44 Adapter			Price Extra Cone Rings		
Size Lathe	No.	Price*	Cone Rings for Pistons Outside Dia	Cat. No.	Price Each
Workshop	44-W	\$10.00	2 1/2 to 3 1/2 in.	1D	\$2.00
Toolmaker	44-T	10.00	3 1/2 to 3 3/4 in.	2D	2.25
9"	44-A	10.00	3 3/4 to 4 in.	3D	2.50
11"	44-B	10.00	4 to 5 in.	4D	3.00
13"	44-C	10.00			
15", 16"	44-E	10.00			

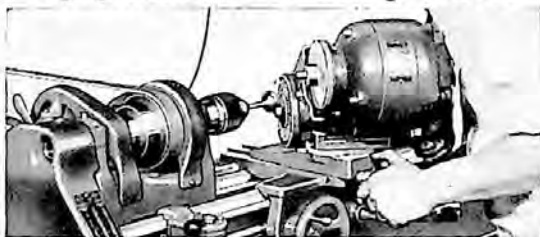
*Includes shank. Dog A. & No. 1-D Cone Ring.



Centering Ring Prices of Skirt Reamers

Cat. No.	For Piston Outside Dia	Price Each
1R	3 1/2 to 3 3/4 in.	\$ 7.50
2R	3 3/4 to 4 in.	9.00
3R	4 to 4 1/2 in.	10.00
4R	4 1/2 to 5 in.	12.00

Equipment for Grinding Valves



Grinding a Valve in the Lathe

Electric Grinder

Size of Lathe	Cat. No.	Size Grind Wheel	Diam. With Grind R.	Motor Speed P.M.	Spindle Speed	Price Each
9" W.*	75-K	3x3 1/2"	4 3/4"	1725	4000	\$40.00
9" T.L.†	75-J	3x3 1/2"	4 3/4"	1725	4000	40.00
9 in.	75-B	3x3 1/2"	5 1/2"	1725	4000	50.00
11 in.	75-C	3x3 1/2"	7 1/2"	1725	4000	55.00
13 in.	75-D	3x3 1/2"	9"	1725	4000	55.00
15 in.	75-F	3x3 1/2"	10 1/2"	1725	4000	55.00
16 in.	75-G	3x3 1/2"	11"	1725	4000	60.00
18 in.	75-H	3x3 1/2"	12 1/2"	1725	4000	60.00

Valve Chuck



A practical precision chuck for holding valves for refacing.

Size Lathe	No.	Price	No.	Price
9" W.*	907-B	\$9.00	907-T	\$11.25
9" T.L.†	907-A	9.00	925-A	11.25
9"	11"	9.00	925-B	11.25
13"	15"	9.00	925-C	11.25
15", 16"	18"	10.50	354-A	14.25

Prices of Diamond Holding Fixture

Lathe	Cat. No.	Price	Lathe	Cat. No.	Price
9" W.*	91-W	\$2.00	13"	91-D	\$2.75
9" T.L.†	91-T	2.25	15"	91-E	3.25
9"	91-B	2.25	16, 18"	91-F	3.50
11"	91-C	2.25			

No. 406. Diamond Dresser, \$6.00
 *9" "Workshop" Lathe. †9" Toolmaker Lathe.

Bulletins on Motor Service Jobs

The Bulletins listed below contain from 8 to 12 pages, illustrating and describing the latest improved methods for servicing armatures, valves, pistons, bushings and connecting rods on autos, buses, tractors, etc. Used in the service shops of leading auto manufacturers such as General Motors, Chrysler, Yellow Cab, Auburn-Cord, Studebaker, Marmon, Reo, etc.

Price of each bulletin, 16c postpaid. Any one bulletin of your choice supplied free with each lathe.

"How to Grind Valves," Bulletin No. 1. Shows the latest methods and equipment for refacing valves, sharpening valve seat reamers, etc.

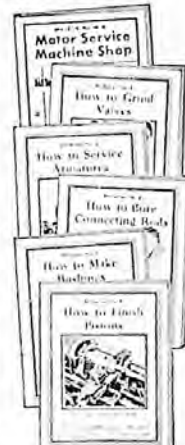
"How to Service Armatures," Bulletin No. 2. Shows the modern methods and equipment for truing armature commutators, undercutting mica, etc.

"How to Bore Connecting Rods," Bulletin No. 6. Gives complete instructions for boring, facing and finishing re-babbitted connecting rod bearings.

"How to Make Bushings," Bulletin No. 7. Explains the methods and equipment for making bushings of brass, bronze, steel, cast iron, etc.

"How to Finish Pistons," Bulletin No. 9. Shows the latest methods and equipment for finishing semi-machined pistons, reaming wrist pin holes, etc.

"Motor Service Machine Shop," Bulletin No. 16-G. Shows how the shop equipped with a lathe can service valves, armatures, pistons, bushings, flywheels, connecting rods, crankshafts, differentials, brake drums, etc. Mailed free, postpaid, upon request.



Bulletins on Motor Service Jobs

Connecting Rod Servicing Equipment

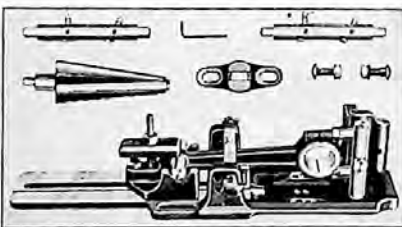
The equipment for 9-in. and 11-in. Lathes handles connecting rods of all passenger cars and some buses, while the equipment for 13-in. to 18-in. Lathes handles all sizes of connecting rods including those of large tractors, trucks, buses and passenger cars.

The equipment includes a connecting rod boring attachment (with holding jig, V-block, extension nuts for bearing caps and adjustable clamping device), two boring bars (one for roughing the other for finishing), cutters, etc., for boring, facing, rounding and trimming connecting rod bearings.

Prices of Connecting Rod Servicing Equipment for South Bend Lathes

Size of Lathe	9-inch**		11-inch		13-inch		15-inch		16-inch		18-inch	
	No.	Price	No.	Price	No.	Price	No.	Price	No.	Price	No.	Price
Attachment for rods 1 1/2" between bearings and 5" across lugs...	1229	\$45.00	1230	\$50.00	*	*	*	*	*	*	*	*
Attachment for rods 2 1/2" between bearings and 6 1/4" across lugs...	*	*	*	*	1231	\$65.00	1232	\$70.00	1233	\$75.00	1234	\$80.00
2 Boring Bars for 1 1/2" to 2 1/2" bearings	461-B	17.00	461-B	17.00	461-B	17.00	461-B	17.00	461-B	17.00	461-B	17.00
2 Boring Bars for 2 1/2" to 4" bearings	*	*	*	*	517	22.00	517	22.00	517	22.00	517	22.00
Centering Cone for 1 1/2" to 2 1/2" bearings	581	2.50	581	2.50	581	2.50	581	2.50	581	2.50	581	2.50
Centering Cone for 2 1/2" to 4" bearings	*	*	*	*	927	3.00	927	3.00	927	3.00	927	3.00
Driver for Boring Bars	228	1.00	228	1.00	229	1.25	229	1.25	229	1.25	229	1.25

*Not made for this size lathe. **9" "Workshop," 9" Toolmaker and 9" Regular Lathes.



Equipment for Servicing Connecting Rods



Facing and Rounding Cutter, 45° Chamfer Forming Cutter, Trimming Cutter, Boring Cutter, Ground Cutter Bits for Connecting Rod Work

SOUTH BEND LATHE WORKS 806 E. Madison St., South Bend, Ind., U. S. A.

Equipments for Automotive Servicing

On the 9-inch "Workshop" South Bend Precision Lathe

Listed below are itemized prices on the 9-inch x 3-ft. "Workshop" South Bend Lathe, and equipment for machining automotive service jobs such as armatures, bushings, valves, pistons and connecting rods. Any of these equipments can be selected or omitted just as your work requires.

1—No. 415-Y, 9-inch x 3-ft. "Workshop" South Bend Back-Geared Screw Cutting Precision Lathe, with Bench Legs, (Plain Horizontal Motor Driven Type), 9 $\frac{1}{8}$ -inch swing, 3-ft. bed, takes between centers 17-inch, and complete with Regular Lathe Equipment, consisting of: Graduated Compound Rest; Face Plate; Tool Post, Ring and Wedge; two 60-Degree Lathe Centers; Improved Headstock with Twin Gear Reverse for Right and Left Hand Screw Threads and Automatic Feeds; Ball Bearing Thrust Collar on Headstock Spindle; Set-over Tailstock; Improved Carriage Lock; Simplified Gearing for Screw Threads and Turning Feeds; Four Felt Pads on Saddle for Cleaning and Oiling V-ways of Lathe Bed; Spindle Sleeve; Set of Wrenches; Set of Change Gears to cut Standard Screw Threads from 4 to 40 per inch, right or left hand, including 1 $\frac{1}{2}$ pipe thread; Foundation Plans and Instruction Book. All illustrated and described on page 1.

Cash Price, f.o.b. cars South Bend, Indiana.....\$75.00

Motor Drive Equipment

Horizontal Motor Drive Countershaft, Plain Type.....	7.00	
$\frac{1}{4}$ H.P. Start-and-Stop Reversing Split-Phase Motor, 1725 R.P.M., (1-ph., 60-cy., A.C. 110-v.).....	8.75	
V-Groove Pulley for Motor.....	.50	
Drum Reversing Switch (Style R-12) and Bracket.....	5.00	
V-Belt Motor to Drive Unit.....	1.00	
Flat Leather Belt and Lacing.....	1.00	\$98.25

Chuck and Tool Assortment

1—No. 4806, 6-inch Light Weight 4-Jaw Independent Lathe Chuck.....	\$15.25	
Fitting Chuck to Lathe including Chuck Back.....	4.00	
*1—No. 220, $\frac{1}{2}$ -inch Medium Weight 3-Jaw Drill Chuck.....	5.25	
*1—No. 709 Solid Arbor, fitted to above Drill Chuck.....	1.00	
*1—No. 847-S Straight Shank Tool Holder with $\frac{1}{4}$ -inch Cutter Bit, unground.....	1.25	
1—Set (7) No. 1714, $\frac{1}{4}$ -inch High Speed Steel Cutter Bits, ground.....	1.60	
*1—No. 505F Boring Tool Holder, Style "D," with $\frac{1}{4}$ -inch Boring Bar.....	3.00	
*1—No. 833R Right Hand Cutting-Off Tool Holder with ground cutter.....	1.50	
*1—Set (4) No. 178 Standard Malleable Lathe Dogs, $\frac{1}{2}$, $\frac{3}{4}$, 1, 1 $\frac{1}{4}$ -inch.....	2.25	35.10

Armature Servicing Equipment

1—No. 327, $\frac{3}{4}$ -inch Headstock Drill Chuck, fitted to lathe.....	\$ 8.50	
1—No. 340 Armature Support Bushing ($\frac{3}{8}$ to $\frac{3}{4}$ -inch cap.) fitted to lathe.....	9.00	
*1—No. 847-S Straight Shank Turning Tool.....	1.25	
1—No. 673 Hand Type Mica Undercutter.....	15.00	33.75

Bushing Equipment

1—No. 3805, 5-inch 3-Jaw Universal Chuck, fitted to lathe.....	\$21.00	
*1—No. 220, $\frac{1}{2}$ -inch 3-Jaw Drill Chuck.....	5.25	
*1—No. 709 Solid Arbor, fitted to above Drill Chuck.....	1.00	
*1—No. 833-R Right Hand Cutting-Off Tool.....	1.50	
*1—No. 847-S Straight Shank Turning Tool.....	1.25	
*1—No. 505-F Boring Tool, Style "D".....	3.00	
*2—Standard Malleable Lathe Dogs, $\frac{1}{2}$, 1-inch.....	1.05	
1—No. 898-A, $\frac{1}{8}$ -inch Center Drill and Countersink.....	.30	
1—No. 898-B, $\frac{3}{32}$ -inch Center Drill and Countersink.....	.35	34.70

Valve Grinding Equipment

1—No. 75-K, $\frac{1}{4}$ H.P. Electric Grinder (1-ph., 60-cy., 100-v. A.C. with cord and switch)....	\$40.00	
1—No. 907B Precision Valve Chuck, $\frac{1}{8}$ to $\frac{5}{8}$ -inch cap.....	9.00	
1—No. 91-W Diamond Holding Fixture.....	2.00	
1—No. 406 Diamond Dresser for truing grinding wheel.....	6.00	57.00

Piston Servicing Equipment

1—No. 44-W Piston Adapter, Driving Dog and Cone Ring for Pistons 2 $\frac{1}{2}$ to 3 $\frac{1}{8}$ -inch outside diameter.....	\$10.00	
1—No. 1-R Piston Skirt Reamer for Pistons 2 $\frac{1}{2}$ to 3 $\frac{1}{8}$ -inch outside diameter.....	7.50	
*1—No. 847-S Straight Shank Turning Tool.....	1.25	18.75

Connecting Rod Servicing Equipment

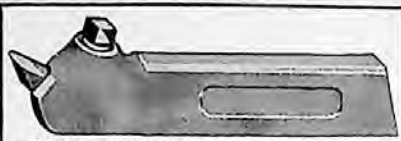
1—No. 1229 Connecting Rod Boring Attachment for rods 13 inches between bearings and 5 inches across bolt lugs.....	\$45.00	
2—No. 461-B Boring Bars for Bearings $\frac{1}{4}$ to 2 $\frac{1}{2}$ -inch diameter.....	17.00	
1—No. 228 Driver for Boring Bars.....	1.00	
1—No. 581 Centering Cone for Bearings $\frac{1}{4}$ to 2 $\frac{1}{2}$ -inch diameter.....	2.50	65.50
Cash Price, f.o.b. cars South Bend, Ind. (eliminating duplications of tools, dogs, chucks, etc.).....		\$327.50

*These items (marked * above) appear in several equipments and need not be duplicated when ordering as one is sufficient. The object in showing the prices of the different attachments in this listing is to point out the variety of work that can be machined on the 9-inch "Workshop" Lathe. If you desire the

lathe for machining armatures only, specify on your order the armature servicing equipment as itemized above and omit other equipments. These various equipments can be purchased at the time of lathe is ordered or at any time later when your work requires them.

SOUTH BEND LATHE WORKS 806 E. Madison St., South Bend, Ind., U. S. A.

Chucks and Tools for the 9-inch "Workshop" South Bend Lathe



TOOL HOLDER—Straight Shank

The tool holder illustrated above, when used with cutter bits ground to various forms as shown below, will do the work of several special tool holders. Made of drop forged steel, heat treated and hardened. Price includes holder, wrench and one unground high speed steel cutter bit.

No. 847-S. "Acump." Weight $\frac{3}{4}$ lb. \$1.25

High Speed Steel Cutter Bits

Special Quality

Cutter bits may be had either ground to shape or unground for use in tool holders. When ordering an unground cutter bit specify catalog number only. When ordering ground cutter bit specify the catalog number and the form or shape of the cutter bit wanted.



Special Quality Unground Cutter Bit

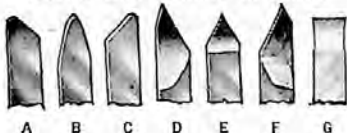
No. 1460. Unground cutter bit, $\frac{1}{2} \times \frac{1}{2} \times 2$ -inch. "Advt." Weight 2 oz. Each. \$0.15
No. 1645. 7 unground cutter bits, "Dyby." Weight 6 oz. \$0.95



Special Quality Ground Cutter Bit

No. 1355. Cutter bit, ground to Form A (to G, shown below). Size $\frac{1}{2} \times \frac{1}{2} \times 2$ -inch. "Advt." Weight 2 oz. Each. \$0.25
No. 1714. 7 cutter bits ground to Forms A to G, shown below. "Clvrl." Weight 6 oz. \$1.60

Cutter Bits Ground to Form



A R.H. Turning
B Round Nose
C R.H. Turning
D L.H. Slot
E Thread-Tag
F R.H. Slot
G Square Nose



Drop Forged Steel

Turning Tool Holder

With wrench and one high speed steel unground cutter bit. Shlp. Wt. $\frac{3}{4}$ lb.
No. 847-R. Right-Hand, "Acurl".... \$1.25
No. 847-L. Left-Hand, "Avevl".... 1.25
No. 847-S. Straight, "Acump".... 1.25



Cutting-Off Tool

Drop Forged Steel

With wrench and high speed ground blade. Shlp. Wt., 1 lb.
No. 833-R. Right-Hand, "Censo".... \$1.50
No. 833-S. Straight, "Adcat".... 1.50
No. 819. Extra Cutter, "Adsop".... .50



Threading Tool

Drop Forged Steel

With wrench and formed high speed cutter. Shipping Wt., 1 lb.
No. 815. Code Word, "Adrov".... \$2.50
No. 814. Extra Cutter, "Adurp".... 1.50



Knurling Tool

Drop Forged Steel

With one set of knurls, fine, medium or coarse; straight or diamond pattern. Shipping Weight, $1\frac{1}{4}$ lbs.
No. 820. Code Word, "Donita".... \$3.00
No. 817. Knurls, "Digma." Pair 1.00

Standard Lathe Dogs

Made of malleable iron. Designed for strength and service.

$\frac{3}{8}$ " cap. No. 1-WJ. "Adlrm".... \$0.40
 $\frac{1}{2}$ " cap. No. 2-WJ. "Adjof".... .45
 $\frac{3}{4}$ " cap. No. 4-WJ. "Adkog".... .50
 $1\frac{1}{4}$ " cap. No. 6-WJ. "Adlef".... .60
 $1\frac{1}{2}$ " cap. No. 8-WJ. "Adlig".... .70
 $1\frac{3}{4}$ " cap. No. 10-WJ. "Adnag".... .80



Drop Forged Steel

Boring Tool Holder Style "C"

With wrench, $\frac{1}{4}$ -inch ground boring bar and one high speed steel cutter bit. Shlp. Wt., $1\frac{1}{4}$ lbs.
No. 486. Code Word "Ipeen".... \$3.00
No. 483. $\frac{1}{2}$ " Boring bar. Code Word "Advep".... .30
No. 485. $\frac{3}{8}$ " Boring bar. Code Word "Advut".... .35



Drop Forged Steel

Boring Tool Holder Style "D"

With wrench and $\frac{1}{4}$ -inch boring bar, ground. Shlp. Wt., $1\frac{1}{4}$ lbs.
No. 505-F. Code Word, "Adyot".... \$3.00
No. 498-B. $\frac{1}{2}$ " Boring bar. Code Word "Advor".... .55



Center Gauge for Testing Latho Centers and Setting Threading Tool

No. 650. Code Word "Xutje".... \$0.50



Clamp Lathe Dog

Made of Drop Forged Steel

Cat. No.	Cap. In.	Shlp. Wgt.	Code Word	Price
100	1 1/4	1 lb.	Nxsp	\$1.80
101	2 1/4	1 1/2 lbs.	Nxsn	2.40



Drill Pad

No. 727-W. "Donay".... \$2.00
Shlp. Wt., $1\frac{1}{4}$ lbs.



Crotch Center

No. 728-W. "Fand".... \$2.50
Shlp. Wt., 10 oz.



Cup Center

No. 733-W. "Jakak".... \$2.00
Shlp. Wt., 8 oz.



Spur Center

No. 732-W. "Hokol".... \$2.50
Shlp. Wt., 8 oz.



Screw Center

No. 731-W. "Kalaf".... \$2.50
Shlp. Wt., $1\frac{1}{4}$ lbs.

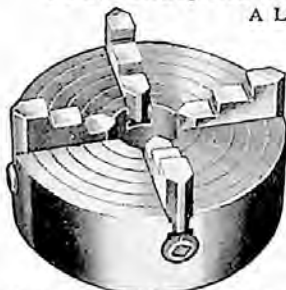


Hand Rest for Wood Turning

No. 896-W. "Adows." Complete as shown.... \$4.00

4-Jaw Independent Lathe Chuck

A Light Weight Chuck



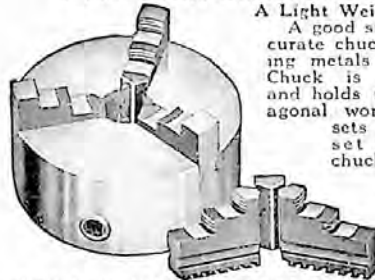
A good, substantial, accurate chuck for machining metals of all kinds. Has four reversible independent jaws with individual screw adjustment for chucking round or irregular work in a concentric or eccentric position. The face of chuck is graduated in inches. Price includes wrench and screws for fitting chuck-back, but does not include

chuck-back or fitting chuck to lathe.
Cat. No. 4806. 6" Chuck, $7\frac{1}{2}$ " Capacity, Shipping Weight 6 $\frac{3}{8}$ lbs. Code Word, "Rapno".... \$15.25

*Price extra for fitting above chucks to lathes,

3-Jaw Universal Lathe Chuck

A Light Weight Chuck

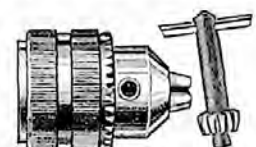


A good substantial, accurate chuck for machining metals of all kinds. Chuck is self-centering and holds round or hexagonal work. Has two sets of jaws, one set for outside chucking, the other for inside chucking. Price includes wrench and screws for fitting

chuck-back, but does not include chuck-back or fitting of chuck to lathe.

Cat. No. 3805. 5" Chuck, 5" Capacity, Shipping Weight 6 $\frac{3}{4}$ lbs. Code Word, "Rasep".... \$17.00

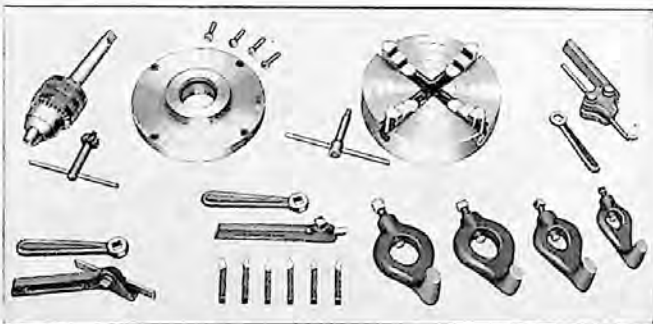
including chuck-back, each.... \$4.00



3-Jaw Drill Chuck Medium Weight

An accurate chuck for drilling. Prices include wrench, but not arbor.
No. 219. 0 to $\frac{3}{8}$ " Cap. Wt. $\frac{3}{4}$ lb. "Acpen".... \$3.85
No. 220. 0 to $\frac{1}{2}$ " Cap. Wt. $1\frac{1}{2}$ lb. "Acppp".... \$5.25
No. 327. $\frac{3}{8}$ " to $\frac{3}{4}$ " Cap. Wt. 2 $\frac{3}{4}$ lb. "Rulid".... \$7.50

Arbor for Drill Chuck No. 709. "Achuk".... \$1.00

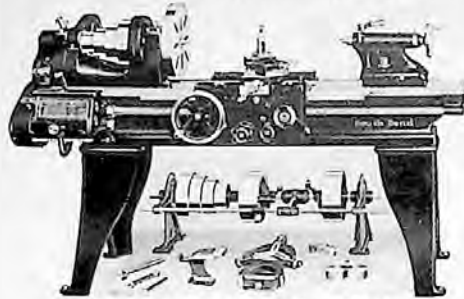


No. 105 Chuck and Tool Assortment for 9-inch "Workshop" Lathe, \$35.10

Cat. No.	Description	Price
No. 4806	6-inch Light Weight 4-Jaw Independent Chuck	\$15.25
No. 258	Fitting above Chuck to Lathe including Chuck-back	4.00
No. 220	$\frac{1}{2}$ -inch Medium Weight 3-jaw Drill Chuck	5.25
No. 709	Solid Arbor Fitted to above Drill Chuck	1.00
No. 847-S	Straight Shank Tool Holder with $\frac{1}{4}$ " Cutter Bit	1.25
No. 1714	Seven $\frac{1}{2}$ " High Speed Steel Cutter Bits, Ground	1.60
No. 505-F	Boring Tool Holder, Style "D", with $\frac{1}{4}$ " Boring Bar	3.00
No. 833-R	Cutting-off Tool Holder, R. H., with ground cutter	1.50
No. 178	4 Standard Malleable Lathe Dogs, $\frac{1}{2}$ "", $\frac{3}{4}$ "", 1", $1\frac{1}{4}$ " Capacity	2.25
No. 105, Chuck and Tool Assortment. Code Word "Adpol."		
Shipping Weight 15 Lbs.		\$35.10

South Bend Back-Geared, Screw Cutting Precision Lathes

Countershaft Drive Lathes



16-inch Quick Change Gear Lathe

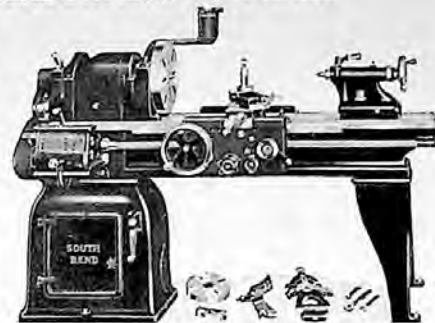
South Bend Lathes in the Countershaft Drive Models are recommended for shops having line shafting installed.

Prices include regular lathe equipment as illustrated under lathe

Net Factory Prices f.o.b. South Bend, Ind.

Swing Over Bed in Inches	Length of Bed in Feet	Between Centers in Inches	Hole Thru Spindle in Inches	Approx. Weight Crated Pounds	Standard Change		Quick Change	
					Cat. No.	Lathe Price	Cat. No.	Lathe Price
18-inch Countershaft Drive Floor Leg Lathes								
18 1/4	8	53 1/2	1 1/8	2640	43-E	\$635.00	91-E	\$705.00
18 1/4	10	77 1/2	1 1/8	2840	43-G	639.00	91-G	759.00
18 1/4	12	101 1/2	1 1/8	3140	43-H	767.00	91-H	837.00
18 1/4	14	125 1/2	1 1/8	3365	43-K	829.00	91-K	899.00
16-inch Countershaft Drive Floor Leg Lathes								
16 1/4	6	31	1 1/8	1875	41-C	\$480.00	92-C	\$540.00
16 1/4	8	55	1 1/8	2035	41-E	520.00	92-E	580.00
16 1/4	10	82	1 1/8	2195	41-G	564.00	92-G	624.00
16 1/4	12	106	1 1/8	2425	41-H	627.00	92-H	687.00
16 1/4	14	130	1 1/8	2650	41-K	682.00	92-K	742.00
15-inch Countershaft Drive Floor Leg Lathes								
15 1/4	5	21 1/2	1 1/8	1575	39-B	\$412.00	88-B	\$467.00
15 1/4	6	36 1/2	1 1/8	1650	39-C	430.00	88-C	485.00
15 1/4	8	60 1/2	1 1/8	1805	39-E	468.00	88-E	523.00
15 1/4	10	84 1/2	1 1/8	1970	39-G	512.00	88-G	567.00
13-inch Countershaft Drive Floor Leg Lathes								
13 1/4	5	28	1	1110	35-B	\$352.00	86-B	\$402.00
13 1/4	6	40	1	1160	35-C	367.00	86-C	417.00
13 1/4	7	52	1	1215	35-D	384.00	86-D	434.00
13 1/4	8	64	1	1275	35-E	403.00	86-E	453.00
11-inch Countershaft Drive Floor Leg Lathes								
11 1/4	3 1/2	18	3/4	695	33-Z	\$288.00	81-Z	\$328.00
11 1/4	4	24	3/4	725	33-A	300.00	81-A	340.00
11 1/4	5	36	3/4	795	33-B	312.00	81-B	352.00
11 1/4	5 1/2	42	3/4	830	33-S	324.00	81-S	364.00
9-inch Countershaft Drive Floor Leg Lathes								
9 1/4	3	16 3/8	3/4	482	30-Y	\$235.00	80-Y	\$275.00
9 1/4	3 1/2	21 3/8	3/4	507	30-Z	245.00	80-Z	285.00
9 1/4	4	27 3/8	3/4	582	30-A	255.00	80-A	295.00
9 1/4	4 1/2	31 3/8	3/4	557	30-R	265.00	80-R	305.00

Underneath Belt Motor Drive Lathes



16-inch Quick Change Gear Lathe

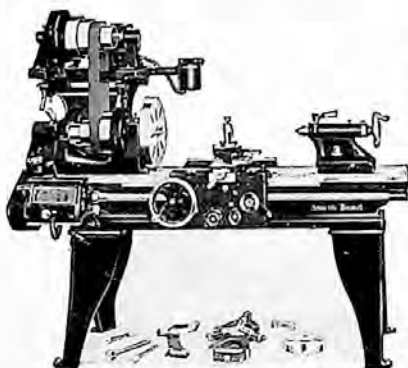
South Bend Underneath Belt Motor Drive Lathes are self contained and practical for handling general machine work and automotive servicing. Prices include reversing motor, reversing switch, and regular equipment.

Net Factory Prices f.o.b. South Bend, Ind.

Swing Over Bed in Inches	Length of Bed in Feet	Between Centers in Inches	Hole Thru Spindle in Inches	Approx. Weight Crated Pounds	Standard Change		Quick Change	
					Cat. No.	Lathe Price	Cat. No.	Lathe Price
18" Underneath Belt Motor Drive Lathes (3-phase, A.C. Motor)*								
18 1/4	8	53 1/2	1 1/8	3290	143-E	\$905.00	194-E	\$975.00
18 1/4	10	77 1/2	1 1/8	3490	143-G	959.00	194-G	1029.00
18 1/4	12	101 1/2	1 1/8	3790	143-H	1037.00	194-H	1107.00
18 1/4	14	125 1/2	1 1/8	4015	143-K	1099.00	194-K	1169.00
16" Underneath Belt Motor Drive Lathes (3-phase, A.C. Motor)*								
16 1/4	6	34	1 1/8	2300	111-C	\$692.00	192-C	\$752.00
16 1/4	8	55	1 1/8	2460	111-E	732.00	192-E	792.00
16 1/4	10	82	1 1/8	2620	141-G	776.00	192-G	836.00
16 1/4	12	106	1 1/8	2850	141-H	839.00	192-H	899.00
16 1/4	14	130	1 1/8	3075	141-K	894.00	192-K	954.00
15" Underneath Belt Motor Drive Lathes (3-phase, A.C. Motor)*								
15 1/4	5	21 1/2	1 1/8	1995	139-B	\$622.00	188-B	\$677.00
15 1/4	6	36 1/2	1 1/8	2070	139-C	640.00	188-C	695.00
15 1/4	8	60 1/2	1 1/8	2225	139-E	678.00	188-E	733.00
15 1/4	10	84 1/2	1 1/8	2390	139-G	722.00	188-G	777.00
13" Underneath Belt Motor Drive Lathes (3-phase, A.C. Motor)*								
13 1/4	5	28	1	1510	135-B	\$525.00	186-B	\$575.00
13 1/4	6	40	1	1560	135-C	540.00	186-C	590.00
13 1/4	7	52	1	1615	135-D	557.00	186-D	607.00
13 1/4	8	64	1	1675	135-E	576.00	186-E	626.00
11" Underneath Belt Motor Drive Lathes (1-phase, A.C. Motor)*								
11 1/4	3 1/2	18	3/4	935	133-Z	\$428.00	184-Z	\$468.00
11 1/4	4	24	3/4	965	133-A	440.00	184-A	480.00
11 1/4	5	36	3/4	1035	133-B	452.00	184-B	492.00
11 1/4	5 1/2	42	3/4	1070	133-S	464.00	184-S	504.00
9" Underneath Belt Motor Drive Lathes (1-phase, A.C. Motor)*								
9 1/4	3	16 3/8	3/4	795	130-Y	\$333.00	180-Y	\$373.00
9 1/4	3 1/2	21 3/8	3/4	820	130-Z	343.00	180-Z	383.00
9 1/4	4	27 3/8	3/4	815	130-A	353.00	180-A	393.00
9 1/4	4 1/2	31 3/8	3/4	870	130-R	363.00	180-R	403.00

*For prices on other motors, see General Catalog No. 94 A.

Silent V-Belt Motor Drive Lathes



16-inch Quick Change Gear Lathe

The South Bend Silent V-Belt Motor Drive Lathe is a self-contained unit. It is efficient, powerful, noiseless in operation, and ready to operate when connected to electric current.

Prices include regular lathe equipment, reversing motor, drum reversing switch, belting, wiring and diagram.

Net Factory Prices f.o.b. South Bend, Ind.

Swing Over Bed in Inches	Length of Bed in Feet	Between Centers in Inches	Hole Thru Spindle in Inches	Approx. Weight Crated Pounds	Standard Change		Quick Change	
					Cat. No.	Lathe Price	Cat. No.	Lathe Price
18-inch Silent Motor Drive Lathes (with 3-phase A.C. Motor)*								
18 1/4	8	53 1/2	1 1/8	3140	343-E	\$825.00	391-E	\$895.00
18 1/4	10	77 1/2	1 1/8	3340	343-G	879.00	391-G	949.00
18 1/4	12	101 1/2	1 1/8	3640	343-H	957.00	391-H	1027.00
18 1/4	14	125 1/2	1 1/8	3865	343-K	1019.00	391-K	1089.00

Net Factory Prices f.o.b. South Bend, Ind. (Continued)

Swing Over Bed in Inches	Length of Bed in Feet	Between Centers in Inches	Hole Thru Spindle in Inches	Approx. Weight Crated Pounds	Standard Change		Quick Change	
					Cat. No.	Lathe Price	Cat. No.	Lathe Price
16-inch Silent Motor Drive Lathes (with 3-phase A.C. Motor)*								
16 1/4	6	34	1 1/8	2230	341-C	\$622.00	392-C	\$682.00
16 1/4	8	55	1 1/8	2390	341-E	662.00	392-E	722.00
16 1/4	10	82	1 1/8	2550	341-G	706.00	392-G	766.00
16 1/4	12	106	1 1/8	2780	341-H	769.00	392-H	829.00
16 1/4	14	130	1 1/8	3005	341-K	824.00	392-K	884.00
15-inch Silent Motor Drive Lathes (with 3-phase A.C. Motor)*								
15 1/4	5	21 1/2	1 1/8	1925	339-B	\$552.00	388-B	\$607.00
15 1/4	6	36 1/2	1 1/8	2000	339-C	570.00	388-C	625.00
15 1/4	8	60 1/2	1 1/8	2155	339-E	608.00	388-E	663.00
15 1/4	10	84 1/2	1 1/8	2320	339-G	652.00	388-G	707.00
13-inch Silent Motor Drive Lathes (with 3-phase A.C. Motor)*								
13 1/4	5	28	1	1460	335-B	\$485.00	386-B	\$535.00
13 1/4	6	40	1	1510	335-C	500.00	386-C	550.00
13 1/4	7	52	1	1565	335-D	517.00	386-D	567.00
13 1/4	8	64	1	1625	335-E	528.00	386-E	586.00
11-inch Silent Motor Drive Lathes (with 1-phase A.C. Motor)*								
11 1/4	3 1/2	18	3/4	890	333-Z	\$392.00	384-Z	\$432.00
11 1/4	4	24	3/4	920	333-A	404.00	384-A	444.00
11 1/4	5	36	3/4	990	333-B	416.00	384-B	456.00
11 1/4	5 1/2	42	3/4	1025	333-S	428.00	384-S	468.00
9-inch Silent Motor Drive Lathes (with 1-phase A.C. Motor)*								
9 1/4	3	16 3/8	3/4	655	330-Y	\$301.50	380-Y	\$341.50
9 1/4	3 1/2	21 3/8	3/4	680	330-Z	311.50	380-Z	351.50
9 1/4	4	27 3/8	3/4	705	330-A	321.50	380-A	361.50
9 1/4	4 1/2	31 3/8	3/4	730	330-R	331.50	380-R	371.50

*For prices on other motors, see General Catalog No. 94 A.

SOUTH BEND LATHE WORKS 806 E. Madison St., South Bend, Ind., U. S. A.

Chucks for All Sizes of South Bend Precision Lathes



4-Jaw Independent Lathe Chuck (Class 400)

A Standard Weight Chuck

This precision chuck has four reversible independent solid jaws for chucking round or irregular work in a concentric or eccentric position. Face of chuck is ground and is graduated in inches. Prices include wrench and screws for chuck-back. See fitting charges below.

No. 4401.	4 1/2" Chuck.	6" cap., Ship. Wt. 11 lbs.	"Bawle".....	\$27.00
No. 4406.	6" Chuck.	7 1/2" cap., Ship. Wt. 21 lbs.	"Beuch".....	32.00
No. 4408.	8" Chuck.	9 1/2" cap., Ship. Wt. 35 lbs.	"Buzir".....	37.00
No. 4409.	9" Chuck.	11 1/2" cap., Ship. Wt. 42 lbs.	"Buto".....	40.00
No. 4410.	10" Chuck.	12 1/2" cap., Ship. Wt. 51 lbs.	"Balda".....	47.00
No. 4412.	12" Chuck.	14 1/2" cap., Ship. Wt. 90 lbs.	"Baled".....	56.00
No. 4414.	14" Chuck.	16 1/2" cap., Ship. Wt. 117 lbs.	"Balks".....	61.00
No. 4415.	15" Chuck.	18" cap., Ship. Wt. 139 lbs.	"Balmly".....	67.00
No. 4416.	16" Chuck.	19" cap., Ship. Wt. 147 lbs.	"Bandu".....	72.00



4-Jaw Independent Lathe Chuck (Class 600)

A Medium Weight Chuck

This medium weight precision chuck is similar to the standard weight chuck described above, but is lighter in design. Prices include wrench and screws for fitting chuck-back. See fitting charges below.

No. 4603.	3" Chuck.	3 3/4" cap., Ship. Wt. 2 1/2 lbs.	"Selwe".....	\$20.00
No. 4601.	4" Chuck.	5" cap., Ship. Wt. 5 lbs.	"Selzo".....	23.00
No. 4605.	5" Chuck.	6" cap., Ship. Wt. 9 1/4 lbs.	"Seeb".....	25.00
No. 4606.	6" Chuck.	7 1/2" cap., Ship. Wt. 12 3/4 lbs.	"Seday".....	28.00
No. 4607.	7 1/2" Chuck.	8 3/4" cap., Ship. Wt. 13 1/4 lbs.	"Sedez".....	33.00



3-Jaw Universal Lathe Chuck (Class 400)

A Standard Weight Chuck

This self-centering precision chuck holds round and hexagonal work in a concentric position. The jaws are moved simultaneously by a scroll. Two sets of jaws are furnished: One set grips work on the outside, the other holds work internally. Prices include wrench and screws for fitting chuck-back. See fitting charges below.

No. 3103.	3" Chuck.	3 1/4" cap., Ship. Wt. 3 1/2 lbs.	"Pand".....	\$ 29.00
No. 3101.	4" Chuck.	4 1/2" cap., Ship. Wt. 7 1/2 lbs.	"Paras".....	33.00
No. 3105.	5" Chuck.	5" cap., Ship. Wt. 11 lbs.	"Parot".....	36.00
No. 3106.	6" Chuck.	6 1/2" cap., Ship. Wt. 20 lbs.	"Pasto".....	41.00
No. 3107.	7 1/2" Chuck.	7 1/2" cap., Ship. Wt. 32 lbs.	"Patri".....	48.00
No. 3109.	9" Chuck.	9" cap., Ship. Wt. 45 lbs.	"Podal".....	57.00
No. 3110.	10 1/2" Chuck.	10 3/4" cap., Ship. Wt. 61 lbs.	"Perag".....	64.00
No. 3112.	12" Chuck.	12" cap., Ship. Wt. 80 lbs.	"Penst".....	75.00
No. 3115.	15" Chuck.	15" cap., Ship. Wt. 143 lbs.	"Perse".....	107.00



3-Jaw Universal Lathe Chuck (Class 600)

A Medium Weight Chuck

This medium weight precision chuck is similar to the standard weight chuck described above, but is lighter in design. Chuck has two sets of jaws: One set for gripping work on the outside, the other set for holding work internally. Prices include wrench and screws for fitting chuck-back. For fitting charges see prices below.

No. 3603.	3" Chuck.	3 1/4" cap., Ship. Wt. 3 1/4 lbs.	"Sehub".....	\$24.00
No. 3601.	4" Chuck.	4 1/4" cap., Ship. Wt. 5 lbs.	"Sedih".....	28.00
No. 3605.	5" Chuck.	5" cap., Ship. Wt. 12 3/4 lbs.	"Sedoc".....	31.00
No. 3606.	6" Chuck.	6 1/4" cap., Ship. Wt. 20 lbs.	"Sedud".....	35.00

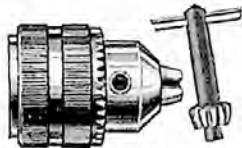


3-Jaw Drill Chuck

Standard Weight

A powerful, accurate chuck for general drilling work. Has tempered steel jaws. Price includes pinion key, but not arbor.

No.	Capacity	Weight	Price
1200	0 to 3/8 in.	1 lb.	\$ 4.25
1201	0 to 1/2 in.	1 3/4 lbs.	6.75
1202	3/8 to 3/4 in.	2 3/4 lbs.	9.00
1203	1/2 to 1 in.	6 3/4 lbs.	15.00



3-Jaw Drill Chuck

Medium Weight

This chuck is powerful, and accurate. Not as heavy in design as chuck at left. Price includes pinion key, but not arbor.

No.	Capacity	Weight	Price
219	0 to 3/8 in.	5/8 lb.	\$ 3.85
220	0 to 1/2 in.	1 1/2 lbs.	5.25
327	1/2 to 3/4 in.	2 3/4 lbs.	7.50
328	3/4 to 1 in.	5 1/4 lbs.	10.00



Hollow Spindle Chuck

An ideal chuck for holding small rods, bars and all kinds of engine valves. Price includes pinion key and hollow arbor.

No. 351-A.	1/2" to 5/8" cap. hollow drill chuck with hollow arbor for 13", 15", 16" and 18" lathes.....	\$10.50
No. 351-B.	3/8" to 3/4" cap. hollow drill chuck with hollow arbor for 13", 15", 16" and 18" lathes.....	\$14.25



Headstock Spindle Chuck

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

Size Lathe	Cap. to 5/8" Cap.	Cap. to 3/4" Cap.
Toolmaker	907-T	925-T
3"	9.00	11.25
1 1/2"	9.00	11.25
1 1/4"	9.00	11.25
1 1/2"	9.00	11.25

Prices for Fitting Chucks to Lathes

A chuck-back is needed to fit 4-Jaw Independent Chucks and 3-Jaw Universal Chucks to the Lathe. Chuck-back is bored, threaded and mounted on lathe spindle nose. Then it is faced and turned to fit recess in back of chuck and bolted in place as shown at right.



Semi-Machined Chuck-Back



Chuck with Chuck-Back Attached

Sizes of South Bend Lathes	Tool-maker	9 in.	11 in.	13 in.	15 in.	16 in.	18 in.
Semi-machined Chuck-Back	\$4.00	\$4.00	\$4.25	\$4.50	\$4.75	\$5.00	\$5.50
Code Word for Chuck-Back	Code	Code	Code	Code	Code	Code	Code
Fitting Chuck-Back to Chuck and to Lathe.....	\$2.50	\$2.50	\$3.00	\$3.50	\$3.75	\$4.00	\$4.50
Total Price.....	\$6.50	\$6.50	\$7.25	\$8.00	\$8.50	\$9.00	\$10.00
Code Word for Chuck-Back fitted to Chuck and to Lathe	Effad	Efago	Eofar	Ender	Eldon	Eliza	Elsie

Practical Sizes of Chucks for South Bend Lathes

Size of Lathe	Tool-maker	9 in.	11 in.	13 in.	15 in.	16 in.	18 in.
4-Jaw Independent.....	6 in.	6 in.	6 in.	8 in.	9 in.	10 in.	12 in.
3-Jaw Universal.....	5 in.	5 in.	5 in.	6 in.	7 1/2 in.	9 in.	10 1/2 in.
Drill Chuck.....	1/2 in.	1/2 in.	1/2 in.	3/4 in.	3/4 in.	1 in.	1 in.

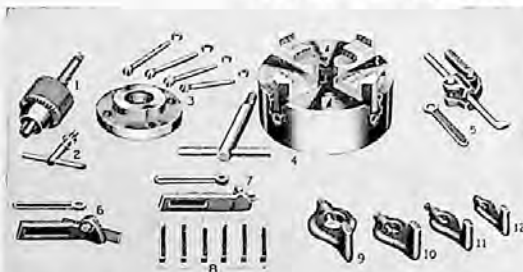


Arbors for Drill Chucks

Arbors are used for fitting drill chucks to the lathe. When ordering arbor only, state size and make of drill chuck, diameter and depth of arbor socket and size of lathe.

Size Lathe	Morse Taper	Cat. No.	Price
Toolmaker	2	709	\$1.00
9, 11"	2	709	1.00
13, 15"	3	713	1.50
16, 18"	3	716	1.50

Practical Chuck and Tool Assortments for General Machine Work

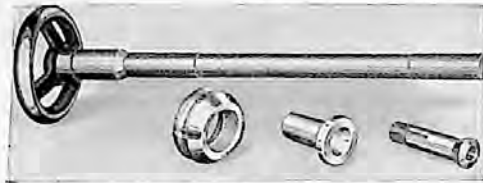


A Practical Assortment for General Machine Work

Description	9 inch	11 inch	13 inch	15 inch	16 inch	18 inch
4-Jaw Independent Chuck, Size of above Lathe Chuck.	\$28.00	\$28.00	\$37.00	\$40.00	\$47.00	\$56.00
Fitting Chuck to Lathe; also semi-machined chuck-back	6 in.	6 in.	8 in.	9 in.	10 in.	12 in.
3-Jaw Drill Chuck	6.50	7.25	8.00	8.50	9.00	10.00
Capacity of Drill Chuck	5.25	5.25	7.50	9.00	15.00	15.00
Arbor Fitted to Drill Chuck	1 1/2 in.	1 1/2 in.	3/4 in.	3/4 in.	1 in.	1 in.
Straight Shank Tool Holder	1.00	1.00	1.50	1.50	1.50	1.50
6 Cutter Bits Ground to Form	2.20	2.35	2.65	2.65	3.25	3.25
Boring Tool Holder, Style D	1.45	1.45	2.00	2.00	2.90	2.90
Boring Tool Holder, Style B	3.00	3.50	.....	.....	.....	.....
Cutting-off Tool, right-hand	.....	.....	4.75	4.75	6.25	6.25
Four Malleable Lathe Dogs	2.35	2.50	2.95	2.95	3.70	3.70
Size of Lathe Dogs	2.60	2.60	3.15	3.15	3.15	4.70
Assortment, Complete	\$52.35	\$53.90	\$69.50	\$74.50	\$91.75	\$103.30

SOUTH BEND LATHE WORKS 806 E. Madison St., South Bend, Ind., U. S. A.

Attachments for South Bend Precision Lathes



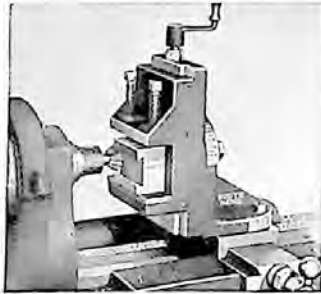
Hand Wheel Draw-in Collet Chuck Attachment

Hand Wheel Draw-in Collet Chuck Attachment

The Hand Wheel Draw-in Collet Chuck is a precision chuck. The hollow draw bar which tightens and loosens the collet permits bar stock from $\frac{1}{8}$ " to lathe capacity to be held in the various size collets. Collet capacity: A $\frac{1}{2}$ " collet, for example, holds finished work exactly .250" in diameter or .001" under size (.249" dia.). A separate collet must be used for each step of increase or decrease in the diameter of the work. Collets can be supplied with hole sizes from $\frac{1}{16}$ " up to lathe capacity in steps of $\frac{1}{16}$ ths of an inch, for example, $\frac{1}{16}$ ", $\frac{1}{8}$ ", $\frac{3}{16}$ ", $\frac{1}{4}$ ", $\frac{5}{16}$ ", $\frac{3}{8}$ ", etc.

Price includes: Hand wheel and hollow draw bar; nose cap; wrench; closing sleeve, hardened, tempered and ground, and one collet for round work.

Milling and Keyway Cutting Attachment



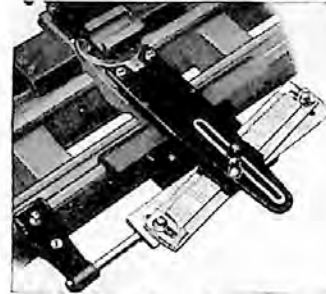
Milling Attachment

This practical lathe attachment will cut keyways, square shafts, mill dovetails, etc.

The attachment fits on the compound rest base of lathe and swivels both horizontally and vertically over arcs of 180°. The vertical adjusting screw has a micrometer graduated collar. Longitudinal feed can be by hand or by automatic feed to carriage.

Equipment includes: Milling attachment; two V-blocks, crank for feed screw, wrench, bolts and nuts.

Graduated Taper Attachment

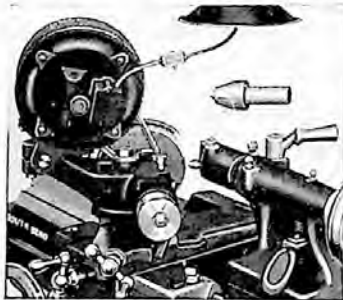


Graduated Taper Attachment

The Graduated Taper Attachment is used for turning and boring all classes of taper work, and is practical for the rapid and accurate production of duplicate tapered parts and pieces. The attachment is bolted to the lathe carriage and can be used at any position on lathe bed. Does not interfere with straight turning.

The swivel bar which controls the taper is graduated—one end in inches per foot of taper, the other end in degrees.

Electric Grinder for Lathe



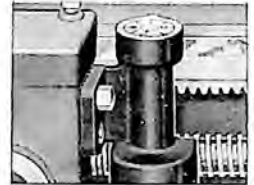
Electric Grinder Mounted on Lathe

This grinder is practical for grinding reamers, lathe centers, milling cutters, taps, dies, valves, pistons, bushings, hardened and tempered tools, parts, etc., but is not intended for grinding lathe tool bits, drills, etc. The grinder fits on the compound rest and operates from an electric lamp socket.

Price includes: $\frac{1}{2}$ H.P. motor, 1725 R.P.M. (1-phase, 60-cycle, 110 volt, A.C.) V-belt, belt guard, one $4 \times \frac{1}{2}$ " Alundum grinding wheel, (Grain 46-N, Grade 5-B), extension cord, switch and clamp.

Thread Indicator

The Thread Dial Indicator is useful when cutting screw threads as it permits reversing the carriage by hand instead of by power to pick up the starting point of each cut to be taken. A graduated dial shows when to clamp the half-nuts on the lead screw for the next cut.



Micrometer Carriage Stop

A precision stop with micrometer adjustment for accurate facing, turning and boring. Does not stop carriage automatically. Can be used on either side of carriage at any point on lathe bed. Has hardened stop which may be locked for doing duplicate work.

Prices of Attachments for 1935 Model South Bend Precision Lathes

Name of Attachment	Workshop		Toolmaker		9" Jr. and Reg		11"		13"		15"		16"		18"	
	No.	Price	No.	Price	No.	Price	No.	Price	No.	Price	No.	Price	No.	Price	No.	Price
Benches for Bench Lathes																
Carriage Stop, Micrometer	968-W	\$ 8.00	968	\$10.00	971	\$11.00	972	\$12.00	973	\$13.00	974	\$14.00	975	\$15.00	976	\$17.00
Carriage Stop, Plain	758	2.25	751	2.25	752	2.50	753	2.75	754	3.00	755	3.50	756	4.00	757	4.50
Center Rest for Lathe	125-W	6.00	125-T	8.00	125	8.00										
Chuck and Tool Assortment, Complete	105	35.10	120	52.35	109	52.35	111	53.90	113	69.50	115	74.50	116	91.75	118	103.30
Collet Chuck, Draw-in, Hand Wheel Type	4306	25.00	4307	29.00	4309	32.00	4311	35.00	4313	40.00	4315	45.00	4316	50.00	4318	55.00
Collet Chuck, Draw-in, Hand Lever Type	5206	70.00	5207	75.00	5209	80.00	5211	90.00	5213	105.00	5215	120.00	5216	130.00	5218	160.00
Collets for Round Work, Split (each)	609-W	2.50	609-T	2.50	609	2.50	611	3.50	613	4.00	615	4.25	616	4.75	618	5.00
Diamond Holding Fixture, Adjustable	19-W	8.00	19-J	8.00	19	8.00	19-B	9.00	19-C	10.00	19-D	12.00	19-E	13.00	19-F	15.00
Diamond Dresser for above	18	6.00	18	6.00	18	6.00	18	6.00	18	6.00	18	6.00	18	6.00	18	6.00
Diamond Holder, Tailstock Type	91-W	2.00	91-T	2.25	91-B	2.25	91-C	2.25	91-D	2.75	91-E	3.25	91-F	3.50	91-F	3.50
Diamond Dresser for above	406	6.00	406	6.00	406	6.00	406	6.00	406	6.00	406	6.00	406	6.00	406	6.00
Face Plate for Lathe, Large	40-W	6.00	40-T	6.00	40	6.00										
Follower Rest for Lathe	31-W	4.00	31-T	4.00	130	4.00										
Gear Cutting Attachment																
Grinder, Electric, No. 75	75-K	40.00	75-J	40.00	75-B	50.00	75-C	55.00	75-D	55.00	75-F	55.00	75-G	60.00	75-H	60.00
Grinder, Electric (Light Duty)	166	24.00	166	24.00	166	24.00	166	24.00	166	24.00	166	24.00	166	24.00	166	24.00
Hand Rest for Wood Turning	896-W	4.00	896-T	5.00	1071	8.00	1072	8.00	1073	9.00	1074	11.00	1075	11.00	1076	11.00
Milling and Boring Table	904	12.50	903	15.00												
Milling and Keyway Cutting Attachment	9-W	35.00	9	40.00	1	45.00	2	50.00	3	55.00	4	65.00	5	75.00	5	90.00
Milling Cutters and Arbors																
Raising Blocks, Quick Change Gear Lathe	1001-W	25.00	1001-T	30.00	1001	35.00	1002	40.00	1003	55.00	1004	65.00	1005	75.00	1006	85.00
Raising Blocks, Standard Change Gear Lathe					1121	40.00	1122	46.00	1123	65.00	1124	77.00	1125	89.00	1126	101.00
Tailstock, Hand Lever Type	785	30.00	898	35.00	900	35.00	901	37.00	902	40.00						
Taper Attachment, Graduated	428	45.00	207	50.00	209	55.00	211	65.00	213	75.00	215	85.00	216	90.00	218	100.00
Thread Cutting Stop, Adjustable	67-W	2.00	67-T	2.00	67	2.00										
Thread Cutting Attachment, Fine Screw																
Thread Dial Indicator	810	5.00	807	8.00	809	9.00	811	10.00	813	11.00	815	12.00	816	13.00	818	15.00
Tool Slide, Double, Hand Lever Type	738	60.00	743	60.00	744	60.00	745	65.00	746	75.00	747	80.00	748	85.00	749	90.00
Tool Slide, Double, Screw Type	958	35.00	980	35.00	981	35.00	982	40.00	983	45.00	984	50.00	985	55.00	986	60.00
Transposing Gears, Metric (Quick Change)					1435	30.00	1436	35.00	1437	40.00	1438	45.00	1439	50.00	1440	55.00
Transposing Gears, Metric (Standard Change)	1640	15.00	1449	25.00	1442	25.00	1443	30.00	1444	35.00	1445	40.00	1446	45.00	1447	50.00
Turret, Turnstile Type (Fitted)																
Turret, Hand Lever Bed Type (Fitted)	170-W	115.00	1507	225.00	1509	225.00	1511	230.00	1513	235.00	415	300.00	416	300.00	418	365.00
Turret, Four Way Tool Post (Fitted)					5228	115.00	5229	115.00	5230	115.00	5231	120.00	5232	135.00	5233	140.00

*Should be fitted to lathe at factory. †In lieu of regular tailstock.

SOUTH BEND LATHE WORKS 806 E. Madison St., South Bend, Ind., U. S. A.

South Bend Easy Payment Terms

For the Purchase of the South Bend Lathes, Attachments and Tools

Customers in the United States can purchase any size South Bend Lathe, with or without attachments, chucks, tools and equipments by making a small down payment with the order and paying the balance monthly.

You deal direct with us when you use the Easy Payment Plan as we have no connection with any finance company. Make up your order and send it to us with the down payment. We ship the lathe immediately and you pay us the balance monthly.

To make out an order for a South Bend Lathe on the Easy Payment Plan, simply add the prices of the lathe, tools and attachments selected, and the total will be the cash price. In the first column of the schedule of easy payment terms, shown at right, find

the amount nearest the total price of your order. On the same line you will find the amount of down payment, the amount for monthly payments, the amount for financing balance, and the number of monthly payments.

SCHEDULE OF EASY PAYMENT TERMS

If Total Price of Your Order Amounts to	Amount of Down Payment	Payment Each Month	Amount for Financing Balance	Approx. No. of Months to Pay*
\$ 70.00 to \$ 80.00	\$ 19.00	\$ 6.50	\$ 6.00	10
80.01 to 90.00	21.00	7.00	6.50	10
90.01 to 100.00	24.00	7.00	7.00	11
100.01 to 110.00	28.00	7.00	7.50	12
110.01 to 120.00	29.00	8.00	7.50	12
120.01 to 130.00	30.00	8.50	8.00	12
130.01 to 140.00	31.00	9.00	8.50	12
140.01 to 150.00	32.00	10.00	9.00	12
150.01 to 175.00	35.00	11.50	10.00	12
175.01 to 200.00	40.00	13.00	11.50	12
200.01 to 225.00	45.00	15.50	13.00	12
225.01 to 250.00	50.00	17.00	14.50	12
250.01 to 275.00	55.00	18.50	16.00	12
275.01 to 300.00	60.00	19.50	17.50	12
300.01 to 325.00	65.00	22.00	19.00	12
325.01 to 350.00	70.00	24.00	20.50	12
350.01 to 375.00	75.00	25.00	23.50	13
375.01 to 400.00	80.00	26.00	25.00	13
400.01 to 450.00	90.00	26.00	29.00	14
450.01 to 500.00	100.00	29.00	32.50	14
500.01 to 550.00	107.50	30.50	38.00	15
550.01 to 600.00	115.00	33.50	41.00	15
600.01 to 650.00	125.00	34.00	47.00	16
650.01 to 700.00	135.00	37.00	50.00	16
700.01 to 750.00	145.00	40.00	54.00	16
750.01 to 800.00	155.00	40.00	61.00	17
800.01 to 850.00	165.00	42.50	65.00	17
850.01 to 900.00	175.00	45.00	69.00	17
900.01 to 950.00	185.00	45.00	77.00	18
950.01 to 1000.00	195.00	48.00	81.00	18
1000.01 to 1100.00	210.00	52.00	87.50	18
1100.01 to 1200.00	230.00	54.00	100.00	19
1200.01 to 1300.00	250.00	58.50	110.00	19
1300.01 to 1400.00	270.00	63.00	120.00	19

*The approximate number of payments is given. In some cases it will be one more or less than the number listed because of the difference in the total order.

Example Easy Payment Order

- 1—No. 415-Z, 9x3 1/2 -inch "Workshop" South Bend Horizontal Motor Driven Bench Lathe complete with Electrical Equipment and Regular Lathe Equipment as shown on page 1... \$110.25
- 1—No. 105, Chuck and Tool Assortment, (see page 4)... 35.10
- Total price f.o.b. cars South Bend, Indiana... \$145.35

Easy Payment Terms on Above Order

Total Price of above order.....	\$145.35
Amount of Down Payment.....	32.00
Balance Due.....	\$113.35
Amount for Financing Balance.....	9.00
Amount to be paid in Monthly Installments.....	\$122.35
Payments each Month.....	10.00
Number of Months to Pay, 12 Months	

SOUTH BEND LATHE WORKS
FACTORY ORDER BLANK

South Bend Lathe Works
806 E. Madison St.
South Bend, Ind.

Date May 14 1935

Please enter my order for the following items, subject to your "money back guarantee", and make prompt shipment.

QUANTITY	CATALOG NO.	SIZE	DESCRIPTION	PRICE
1	415-Z	9"x3 1/2"	Workshop Bench Lathe with Horizontal V-Belt Motor Drive Equipment	110.25
1	105		Chuck and Tool Assortment	35.10

Motor Specifications: A.C. 1 phase, 60 cycles, 110 volts. Terms: All Cash With Order, Balance C.O.D., Easy Payment Plan. Total... \$145.35. Amount Enclosed... \$32.00.

Buyer's Age: 34 Married or Single: Married

Occupation: Machinist

Personal Reference: J. C. Stone, Albion, N. J.

Business Reference: The Star Store, Albion, N. J.

Shipping Address: 431 East Johnson St., Albion, N. J.

Machinist Address: _____

Buyer's Signature: James J. Cassidy

An Example of an Easy Payment Order for a 9-inch "Workshop" Lathe

"How to Run a Lathe"—32nd Edition

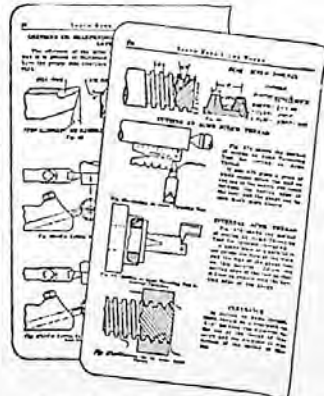
Copy Free with Each South Bend Precision Lathe

"How to Run a Lathe," now in its 32nd edition, is a practical and authoritative text book for the student and a valuable reference book to the experienced mechanic. Over 1,500,000 copies have been printed in four languages and are used all over the world. The book contains 160 pages, 300 illustrations, more than 300 shop kinks and gives correct and modern methods for handling over 400 machine operations on the lathe.

A copy of "How to Run a Lathe" is included with every South Bend Lathe shipped. Additional copies may be secured at 25c each for the paper bound edition and 75c each for the leather bound edition.

PARTIAL LIST OF CONTENTS

- How to set up the lathe
- How to care for the lathe
- How to lay out a shop
- Grinding and setting lathe tools
- Cutting screw threads
- Turning and boring tapers
- Grinding and milling work
- Methods of centering work
- Drilling, boring, reaming
- Use of chucks and arbors
- Cutting speeds and feeds
- Use of compound rest
- Tables of information
- 300 other shop kinks



Two Sample Pages of Book, "How to Run a Lathe"

SOUTH BEND LATHE WORKS 806 E. Madison St., South Bend, Ind., U. S. A.