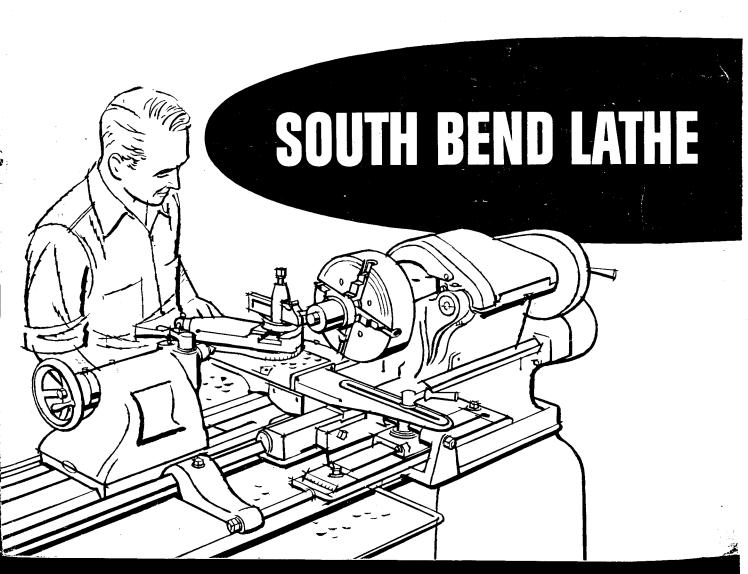
Builders of Precision Machine Tools Since 1906



SOUTH BEND LATHE CATALOG 5800

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SOUTH BEND Precision MACHINE TOOLS

ENGINE LATHES • TOOLROOM LATHES • TURRET LATHES • MILLING MACHINES • SHAPERS • DRILL PRESSES • PEDESTAL GRINDERS

Precision Built for Precision Machine Work

For more than fifty years South Bend Lathe has been building Precision Machine Tools exclusively. During that time a vast amount of experience has been gained. It has always been the policy of this company to produce a quality product at a reasonable price. Modern plant facilities plus half a century of "know-how" enable us to build a better product and to give you a better value than ever before.

PRICES

Prices in this catalog are net f.o.b. South Bend, Indiana unless otherwise stated. In accordance with our established policy prices are subject to change without notice and accordingly prices herein are not necessarily those at which deliveries will be made at any future date because we reserve the right to invoice future deliveries at prices in effect at that time.

WARRANTY

South Bend Lathe Works warrants its products to conform to or excel the specifications set forth in its catalogs in use at the time of sale and reserves the right, at its own discretion, without notice and without making similar changes in articles previously manufactured, to make changes in materials, design, finish, or specifications. South Bend Lathe Works warrants products of its own factory against defects of material or workmanship for a period of one year from date of sale. Liability of South Bend Lathe Works under this warranty shall be limited to replacing, free of charge, f.o.b. South Bend, Indiana, any such parts proving defective within the period of this warranty but South Bend Lathe Works will not be responsible for transportation charges or consequential damages.

The warranty of South Bend Lathe Works is not made for products manufactured by others which are illustrated and described in "South Bend" catalogs or incorporated in "South Bend" products in essentially the same form as supplied by the original manufacturer. With respect to all such products, the warranties of the original manufacturers supplant the warranty of South Bend Lathe Works but, in applicable instances, the latter agrees to use its best efforts to have original suppliers make good their warranties.

TRADE MARKS

The trade marks **SOUTH BEND** and are owned by South Bend Lathe Works and are registered in the United States Patent Office and in principal foreign countries. In order to obtain the very best in precision machine tools and other products illustrated in this catalog, ask for them by name **SOUTH BEND**.

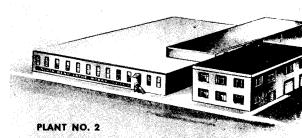
SOUTH BEND LATHE WORKS

Building Better Tools Since 1906





PLANT NO. 3



Improved SOUTH BEND Precision LATHES

FEATURES OF 10"-11%" COLLET AND LARGER SIZES

DEPENDABLE QUALITY

You can depend on the quality of South Bend Lathes because they are designed and built by men who take pride in their craftsmanship. Each operation, each part, each assembly, each lathe is manufactured to exacting specifications. Inspection is frequent and rigid. Parts that do not "measure up" are discarded. Final tests are recorded on a factory test card similar to the one shown and are kept on file in our office permanently.

Continual research has resulted in many improvements which contribute to the accuracy, durability, and ease of operation of South Bend Lathes. Each new design is thoroughly tested in our experimental laboratory or by actual use in our own shops (usually both) before it is approved for production.

SMOOTH POWER

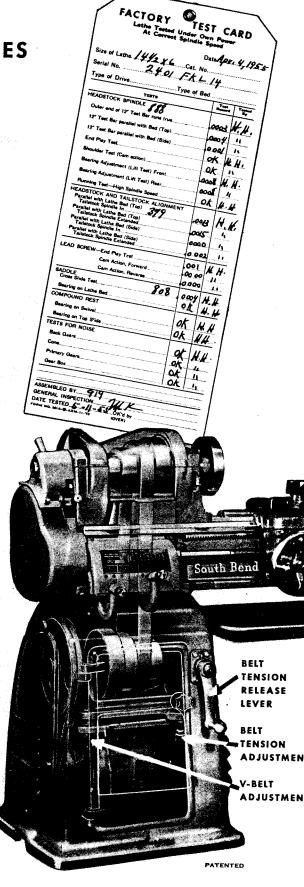
Direct belt drive to the spindle gives you the smooth, silent power so essential for high speed precision finishing operations. For heavy cuts you have a powerful back-geared drive. Motor and driving mechanism are fully enclosed in base of lathe. Quick acting belt tension release and convenient back-gear lever permit changing spindle speeds quickly and easily.

SUPERFINISHED SPINDLE

Headstock spindle bearing surfaces are hardened, ground and superfinished to a surface smoothness of five microinches (.000005") r.m.s. Spindle runs in bronze bearings which are precision bored and burnished to a smoothness of ten microinches (.000010") r.m.s. Large oil reservoirs and capillary wicks circulate clean filtered oil through the bearings. This bearing construction provides rigid support to the spindle and eliminates vibration which sometimes results when ball or roller bearings are used.

IMPROVED CARRIAGE

New time saving improvements developed by South Bend engineers add to the convenience and ease of operation of the improved carriage. Large, easy reading graduated collars on cross-feed and compound rest screws have non-glare satin finish chrome surface with black lines and figures. Cross-feed screw has ball thrust bearing for smooth, easy operation. Quick-acting lever operated clutch permits instant engagement or dis-



engagement of power feeds. Ground thread cross-feed screw is optional at extra cost. Also available at extra cost is a fine feed apron handwheel with planetary gear reduction for positioning carriage on bed with extreme precision. See page 47. Saddle has long bearings on bed ways with con-

venient oilers and felt wipers. Both compound rest top and base dovetails have tapered gibs and compound rest swivel is accurately graduated 180°. Carriage lock is conveniently located on right saddle wing. Crossfeed crank and apron handwheel have swivel machine handles. Apron is of the rigid one-piece double wall construction with gear shafts supported on both ends. Large oil reservoir in apron provides automatic lubrication. Half-nuts are dovetailed into back wall of apron and have automatic interlock which prevents engaging power feeds and half-nuts at the same time.

IMPROVED QUICK CHANGE BOX

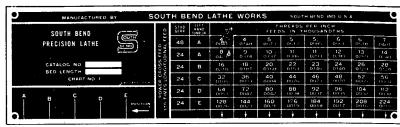
Years of research and testing resulted in the improved double tumbler quick change box, an exclusive South Bend feature. Compact, dependable, and easy to set for any desired thread or feed, this mechanism has been copied but never duplicated. The direct reading index chart shows positions of levers for each of 48 screw threads, 48 power longitudinal feeds and 48 power cross-feeds. Wide range quick change box (on 10" lathe only) has an additional 22 changes making a total of 70 threads or feeds. See index chart illustrations.

Standard screw threads are obtained by shifting the two tumbler levers on the gear box. Special stud and intermediate gearing can be supplied at extra cost for diametral pitch worm threads or other special pitches not shown on the index chart. Metric gear box and lead screw can be supplied in lieu of English (no extra cost) or metric transposing gears can be furnished (extra cost) for cutting metric threads. See page 59.

RIGID LATHE BED

Beds are heavily constructed with large braces cast in at short intervals. Bed castings are made of a special grade of iron with 30 to 70% steel (depending on size) which produces a hard, close-grained metal having unusual strength and long wearing qualities. Head-stock, tailstock, and carriage are aligned on bed by three large V-ways and one flat way. Hardened bed ways are optional at small extra cost. See page 28.

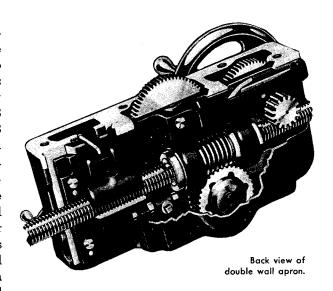
Careful inspection is made to be sure that a uniform bearing is obtained the full length of the bed and that all ways are straight and parallel. A serial number is stamped between the front ways at the tailstock end as shown. A record of each lathe is kept and is filed under this number. When attachments or parts are ordered, the serial number of the lathe should always be stated.



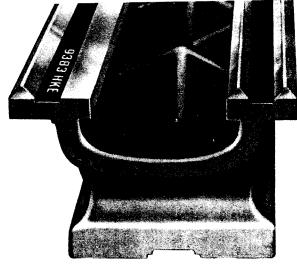
Index chart showing threads cut on 13" and larger lathes.

MANUFACTURED BY SOUTH	BER	DL	ATH	E W	0 R I	(5	Sou	ТН	EN) IN	D U	5	Ŀ
SOUTH BEND PRECISION LATHE	o.	STUD GEAR	MAND TUMBLER			FE				AND			
PRECISION LAINE	33.5	40	Α	4 (H I)	17.	5	5	5 %	6	6	6 %	7.	1
CATALOG NO	FEDS	40	8	8	9	10	11,	W	12	13	13	14	15
BED LENGTH	SS F	40	С	16	18	20	22	23	24	26	27	28	30
STOP MACHINE BEFORE	CRO	40	D	32	36	40	44	46	48	52	54	56	60
SHIFTING TUMBLER LEVERS	ES.	40	٤	64	72	80	88	92	96	104	108	112	170
A C E G	P0	40	F	128	144	160	176	184	192	708	216	224	240
B O F POSITION	375	40	G	256	288	320	352	368	384	415	432	448	486
PUSITION				•		7				,		7	

Index chart showing threads cut on 10" lathes.



Hardened and ground bed ways are optional at small extra cost. See page 28.



Specifications

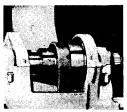
10"-11/16" COLLET AND LARGER LATHES

Capacity Swing over cross slide, engine lathe. Swing over cross slide, toolroom lathe. Swing over cross slide, toolroom lathe. Swing over cross slide without chip guard, engine lathe only. Between centers (various bed lengths). Headstock Capacity through spindle, nose type collet chuck or lathe chuck. Maximum collet capacity, handwheel or handlever type. Threaded spindle nose, diameter and threads per inch.			The second secon		2	+ 1 - 2 -
Headstock Capacity through spindle, nose type collet Maximum collet capacity, handwheel or ho Threaded spindle nose, diameter and threa	engine lathe only.	10-1/8" 5-7/8" 5-3/4" 6-3/4" 14", 20", 27", 34"	13-1/8" 7-3/4" ' 8" ' 8-3/4" 16", 28", 40", 52"	14-5/8" 8-3/4" 8-15/16" 10-1/4" 24", 36", 48", 60"	16-1/4" 9-5/8" 9-5/8" 11-1/8" 33", 45", 57", 81", 105", 129"	25-1/8" 18-3/4" 19-1/4" 30", 42", 54", 78", 102", 126"
Cam lock spindle nose, size. Long taper key drive spindle nose; size. Center, Morse taper. Width, each step of 4-step cone pulley. Width, each step of 3-step cone pulley.	chuck or lathe chuck andlever type ds per inch	1.3/8" 1-1/16" 2-1/4"—8 4" type D1 LOO No. 2	1-3/8" 1-1/16" 2-1/4"—8 4" type D1 LOO No. 3 1-3/4"	1-3/8" 1-1/16" 2-3/8" — 6 4" type D1 LOO No. 3 2-1/16" 2-25/32"	1.3/8" 1.1/16" 2.3/8"—6 4" type D1 LOO No. 3 2-1/4"	1-3/8" 1-1/16" 2-3/8" — 6 4" type D1 10.0 10.0 No. 3 2-1/4"
Spindle Speeds, Standard (1-speed motor With 4-step cone pulley (2-speed motor	number approx. range, r.p.m. number approx. range, r.p.m.	\$: : : : : : : : : : : : : : : : : : :	8 40—940 16 20—940	8 30—875 16 15—875	8 30—980 16 15—980	8 15—470 16 15—900
With 3-step cone pulley With 3-step cone pulley 2-speed motor approx. range, r.p.m	1-speed motor { approx. range, r.p.m. 2-speed motor { approx. range, r.p.m. approx. range, r.p.m. approx. range, r.p.m.	12 55—1400 24 27—1400 2400 r.p.m.	6 40—940 12 20—940 1600 r.p.m.	6 30—875 12 15—875 1200 r.p.m.	6 32—945 12 20—945 1200 r.p.m.	6 14—405 12 15—790
Threads and Feeds Number of changes for threads and feeds. Range of threads cut. Range of longitudinal feeds Range of cross-feeds. Lead screw, 29° Acme thread, diameter and threads	d threads	70 4 to 480 .0007" to .0836" .0003" to .0303" 3/4"—8	48 4 to 224 .0015" to .0841" .0006" to .0315"	48 4 to 224 .0015" to .0841" .0006" to .0315" 1-1/8"—6	48 4 to 224 .0015" to .0841" .0006" to .0315" 1-1/8"—6	48 4 to 224 .0015" to .0841" .0006" to .0315" 1-1/8"—6
Compound Rest Cross slide travel, engine lathe model Cross slide travel, toolroom lathe model Angular hand feed, compound rest top slide		6-1/4" 5-7/8" 2" 3/8" × 13/16"	8-3/4" 8-1/8" 3-1/8" 1/2" x 1-1/8"	10" 9-1/2" 3-1/8" 5/8" x 1-3/8"	10-1/2" 10-1/16" 3-3/4" 5/8" x 1-3/8"	10-1/2" 3-3/4" 5/8" x 1-3/8"
Tailstock Center, Morse taper Spindle travel Set-over of top for taper turning		No. 2 2-1/8" 11/16"	No. 3 4-1/4" 15/16"	No. 3 5-1/4" 15/16"	No. 3 5-3/4" 1"	No. 3 5-3/4" 1"
Motor Recommended size, one-speed Recommended size, two-speed Optional size, one-speed Optional size, two-speed		3/4 h.p. 1 h.p.—1/2 h.p. 1 h.p.	1 h.p. 1-1/2 h.p.—3/4 h.p. 1-1/2 h.p. 2 h.p.—1 h.p.	2 h.p. 2 h.p.—1 h.p. 3 h.p.—1-1/2 h.p.	2 h.p. 2 h.p.—1 h.p. 3 h.p. 3 h.p.—1-1/2 h.p.	2 h.p. 2 h.p.—1 h.p. 3 h.p. 3 h.p.—1-1/2 h.p.

Only South Bend

OFFERS ALL THESE

Optional Features



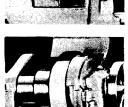
FOUR-STEP PULLEY (13" and larger lathes only)

Provides eight spindle speeds with one-speed motor, sixteen speeds with two-speed motor. Desirable for toolroom work and finishing operations.



COOLANT EQUIPMENT

Coolant pump, reservoir, oil pan and piping speed production and improve finish on many classes of work. Supplied at extra cost. See page 44.



THREE-STEP PULLEY

Provides 6 or 12 spindle speeds with one-speed motor, 12 or 24 with two-speed motor. Wide belt transmits maximum power for heavy roughing cuts.



HARDENED TAILSTOCK **TAPER**

Tailstock spindle with hardened and precision ground taper furnished in lieu of regular at small extra cost. See page 47.



HARDENED BED WAYS

Hardened and ground bed ways resist wear and scoring. They are supplied to order in lieu of regular bed ways at extra cost. See page 28.



HANDLEVER TAILSTOCK

Supplied in lieu of regular tailstock at extra cost. Also available as an extra. Speeds drilling and reaming operations. See page 39.



THREADED SMNDLE

Supplied unless cam lock or long taper key drive spindle is specified. Precision milled thread assures perfect interchangeability of chucks, face plates and work fixtures.



GROUND THREAD CROSS-FEED SCREW

Special cross-feed screw assembly with hardened and ground thread supplied in lieu of regular at small extra cost. See page 47.



CAM LOCK SPINDLE

4" Type D1 Cam Lock Spindle supplied to order in lieu of regular threaded spindle at extra cost. Chucks, face plates and other accessories available. See pages 28 and 29.



SPECIAL FINISH

Any desired color or combination of colors can be supplied in lieu of the regular gray enamel finish on South Bend Lathes. See page 38 for extra charges.



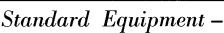
LONG TAPER SPINDLE

Size LOO Long Taper Key Drive Spindle supplied to order in lieu of regular threaded spindle at extra cost. Chucks, face plates, and other accessories available. See pages 28 and 29.



METRIC EQUIPMENT

Metric lead screw, metric quick change box and metric graduations supplied in lieu of English at no extra cost. Metric transposing gears at extra cost. See page 59.



ENGINE LATHES (10"-11/16" Collet and larger)

Equipment supplied and included in the price of each South Bend Engine Lathe is as follows:

Thread indicator dial Thread cutting stop Small face plate
Round tool post assembly
60° Centers and spindle sleeve
Necessary belting and motor Wrenches, installation plan and manual Prices of 10"-11/4" Collet Bench Lathes also include steel bench with built-in chip pan. Electrical equipment is not included. See pages 60-63.

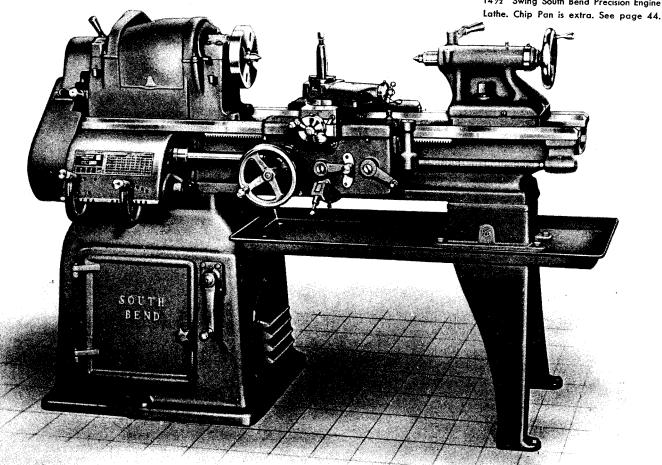
TOOLROOM LATHES (10"-11/4" Collet and larger)

South Bend Toolroom lathes are built to ultra-precision tolerances even closer than our Engine Lathes. Special lead screw and spindle —even closer train out Engine Latties. Special reduscrew and spinder alignment tests are made on each toolroom lathe as it is assembled to assure precision for the most exacting toolroom work. In addition to all regular equipment supplied with South Bend Engine Lathes, the Toolroom Lathes have the following equipment:

Precision lead screw Handwheel collet attachment (less collets) Collet rack

Telescopic taper attachment Large face plate Chip pan Micrometer carriage stop

141/2" Swing South Bend Precision Engine



141/2 SOUTH BEND Precision LATHES

Careful design and conscientious workmanship are combined in South Bend 141/2" Lathes to give you a machine tool that you can depend on for years of satisfactory service. Continual research has resulted in many improvements and refinements which contribute to accuracy, durability, and ease of operation. This superbly engineered model will appeal to the most discriminating technician. We know of no other lathe selling at a competitive price that can match its performance.

TYPE OF LATHE	TYPE OF HEADSTOCK	CATALOG NUMBER	BED LENGTH FEET	BETWEEN CENTERS INCHES	CUBIC FEET BOXED	BOXED WEIGHT POUNDS	CRATED WEIGHT POUNDS	PRICE F.O.B. FACTORY
ENGINE	THREE-STEP CONE PULLEY	CL129B CL129C CL129D CL129E	5 6 7 8	24 36 48 60	82 89 96 105	2500 2600 2750 2900	1995 2070 2145 2225	\$2074 2134 2194 2254
LATHES	FOUR-STEP CONE PULLEY	CL 185B CL 185C CL 185D CL 185E	5 6 7 8	24 36 48 60	82 89 96 105	2500 2600 2750 2900	1995 2070 2145 2225	2074 2134 2194 2254
TOOLROOM	THREE-STEP CONE PULLEY	CL8129B CL8129C CL8129D CL8129E	5 6 7 8	24 36 48 60	92 100 106 117	2685 2785 2935 3085	2180 2255 2330 2405	2629 2696 2763 2830
LATHES	FOUR-STEP CONE PULLEY	CL8185B CL8185C CL8185D CL8185E	5 6 7 8	24 36 48 60	92 100 106 117	2685 2785 2935 3085	2180 2255 2330 2405	2629 2696 2763 2830

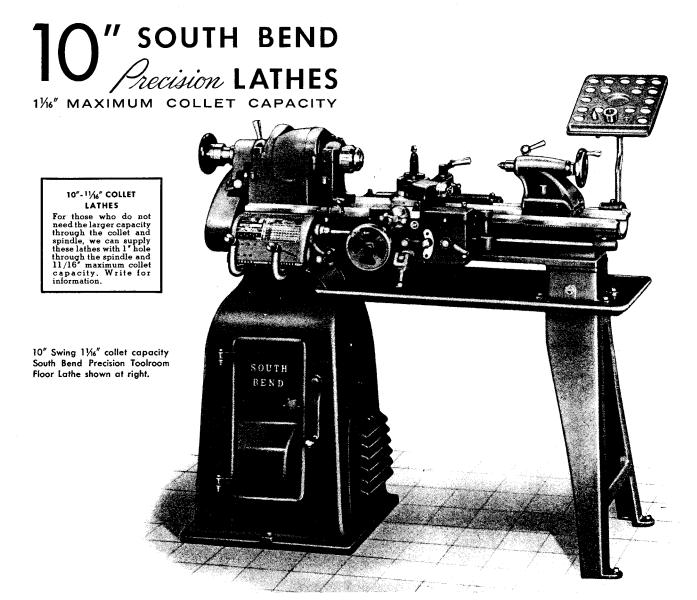


13" Swing South Bend Precision Engine Lathe Chip Pan, chuck, and tools are extra.

The South Bend 13-inch Lathe is especially popular for small and medium sized jobs requiring speed and accuracy. Conveniently placed controls make for ease of operation that reduces fatigue to

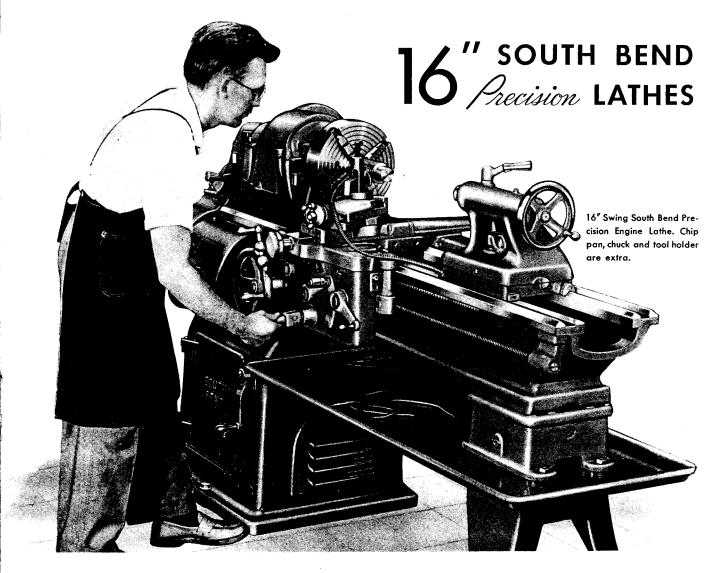
a minimum. Special accuracy tests are made to assure extreme precision. Having greater sensitivity and speed than larger lathes, this lathe will save you time and effort on all work within its capacity.

TYPE OF LATHE	TYPE OF HEADSTOCK	CATALOG NUMBER	BED LENGTH FEET	BETWEEN CENTERS INCHES	CUBIC FEET BOXED	BOXED WEIGHT POUNDS	CRATED WEIGHT POUNDS	PRICE F.O.B. FACTORY
ENGINE	THREE-STEP CONE PULLEY	CL 175A CL 175B CL 175C CL 175D	4 5 6 7	16 28 40 52	63 73 77 82	1835 1940 2045 2150	1460 1510 1560 1615	\$1675 1733 1791 1849
LATHES	FOUR-STEP CONE PULLEY	CL145A CL145B CL145C CL145D	4 5 6 7	16 28 40 52	63 73 77 82	1835 1940 2045 2150	1460 1510 1560 1615	1675 1733 1791 1849
TOOLROOM	THREE-STEP CONE PULLEY	CL8175B CL8175C CL8175D	5 6 7	28 40 52	84 89 96	1995 2150 2305	1665 1715 1770	2246 2307 2368
LATHES	FOUR-STEP CONE PULLEY	CL8145B CL8145C CL8145D	5 6 7	28 40 52	84 89 96	1995 2150 2305	1665 1715 1770	2246 2307 2368



Modern in design and built with extreme care, the South Bend 10" Engine and Toolroom Lathes are fast, accurate, and versatile. They have the high spindle speeds and rigidity required for efficient machining with carbide or diamond tipped tools, and plenty of power for heavy roughing cuts. They are capable of finish turning and boring with such precision that subsequent grinding, honing, or lapping operations can often be eliminated. These lathes have $1\frac{1}{16}$ maximum collef capacity.

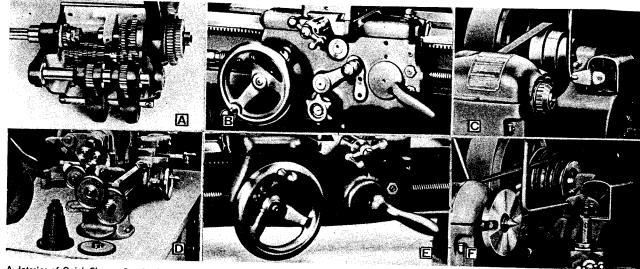
TYPE OF Lathe	TYPE OF MOUNTING	CATALOG NUMBER	BED LENGTH FEET	BETWEEN CENTERS INCHES	CUBIC FEET BOXED	BOXED WEIGHT POUNDS	CRATED WEIGHT POUNDS	PRICE F.O.B. FACTORY
ENGINE	FLOOR	CL187Y CL187Z CL187A CL187R	3 3½ 4 4½	14 20 27 34	50 50 50 54	1230 1250 1270 1290	930 950 970 990	\$1282 1308 1334 1371
LATHES	BENCH	CL187YB CL187ZB CL187AB CL187RB	3 3½ 4 4½	14 20 27 34	56 56 68 68	1200 1250 1300 1350	850 880 950 980	1385 1411 1451 1488
TOOLROOM	FLOOR	CL8187Y CL8187Z CL8187A	3 3½ 4	14 20 27	54 54 54	1290 1310 1330	990 1010 1030	1698 1725 1753
LATHES	BENCH	CL8187YB CL8187ZB CL8187AB	3 3½ 4	14 20 27	56 56 68	1310 1360 1410	960 990 1060	1760 1786 1826



Capable of heavy cuts at high speeds, South Bend 16" swing lathes are among the most popular for general production work. Because of their exceptionally smooth operation and ease of set-up they are also widely used for toolroom and experimental work. They can be equipped with square turret tool block, bed turret, handlever collet attachment and many other time saving accessories.

TYPE OF LATHE	TYPE OF HEADSTOCK	CATALOG NUMBER	BED LENGTH FEET	BETWEEN CENTERS INCHES	CUBIC FEET BOXED	BOXED WEIGHT POUNDS	CRATED WEIGHT POUNDS	PRICE F.O.B. FACTORY
ENGINE	THREE-STEP CONE PULLEY	CL155C CL155D CL155E CL155G CL155H CL155K	6 7 8 10* 12* 14*	33 45 57 81 105 129	89 96 105 123 141 167	2700 2950 3150 3550 3900 4380	2300 2380 2460 2800 2975 3200	\$2468 2530 2592 2764 2936 3251
LATHES	FOUR-STEP CONE PULLEY	CL117C CL117D CL117E CL117G CL117H CL117K	6 7 8 10* 12* 14*	33 45 57 81 105 129	89 96 105 123 141 167	2700 2950 3150 3550 3900 4380	2300 2380 2460 2800 2975 3200	2468 2530 2592 2764 2936 3251
TOOLROOM	THREE-STEP CONE PULLEY	CL8155C CL8155D CL8155E	6 7 8	33 45 57	100 106 117	2925 3175 3375	2525 2605 2685	3077 3147 3217
LATHES	FOUR-STEP CONE PULLEY	CL8117C CL8117D CL8117E	6 7 8	33 45 57	100 106 117	2925 3175 3375	2525 2605 2685	3077 3147 3217

^{*}Center leg is supplied with 10', 12', and 14' beds.



A. Interior of Quick Change Box for Model A and Toolroom Lathes B. Patented Apron used on Toolroom, Model A and Model B Lathes

- C. Patented Twelve-speed Flat Belt Horizontal Motor Drive

NDLE

ON

are hand-operated. Otherwise the equipment is the same. Bench and electrical equipment are not included. See pages 48 and 60 to 63.

TOOLROOM 10-K Bench Lathes are the same as Model A Lathes, and have the same regular equipment. In addition, the following toolroom attachments are supplied: precision lead screw; handwheel type draw-in collet attachment (without collets); collet rack; plain taper attachment; thread indicator; thread cutting stop; large face plate; and micrometer carriage stop. Bench and electrical equipment are not included. See pages 48 and 60 to 63.

D. Change Gears Supplied for Models B and C

E. Apron supplied on Model C Lathe

F. Patented Sixteen-speed V-belt Horizontal Motor Drive

TWO TYPES OF DRIVES Twelve or Sixteen Spindle Speeds

All models of 10-K Horizontal Motor Drive Bench Lathes can be supplied with either flat belt or V-belt cone pulleys for the headstock. The flat belt drive provides twelve spindle speeds. Power is transmitted with extreme smoothness at all speeds making this drive popular with those who require high precision and a fine finish. The sixteen-speed V-belt drive is well adapted to production work, especially for heavy roughing cuts at slow speeds. When worn out, the endless V-belt can be replaced easily by using a spliced leather V-belt. It is not necessary to disassemble the headstock.

10-K South Bend Bench Lathes

MODEL	BED LENGTH FEET	BETWEEN CENTERS INCHES	CUBIC FEET BOXED	BOXED WEIGHT	CRATED WEIGHT	WITH 16-SP HORIZONTAL	EED V-BELT MOTOR DRIVE	WITH 12-SPEE HORIZONTAL A	D FLAT BELT
				POUNDS	POUNDS	CAT. NO.	PRICE	CAT. NO.	PRICE
TOOLROOM	3	16	26	650	520	CL8770Y	\$793	CL8670Y	\$776
	3½	22	26	665	535	CL8770Z	817	CL8670Z	800
	4	28	29	690	550	CL8770A	841	CL8670A	824
MODEL A	3	16	22	600	490	CL770Y	563	CL670Y	546
	3½	22	22	615	505	CL770Z	587	CL670Z	570
	4	28	25	640	520	CL770A	611	CL670A	594
	4½	34	29	670	535	CL770R	645	CL670R	628
MODEL B	3	16	22	585	475	CL767Y	480	CL667Y	463
	3½	22	22	600	490	CL767Z	504	CL667Z	487
	4	28	25	625	505	CL767A	528	CL667A	511
	4½	34	29	655	520	CL767R	562	CL667R	545
MODEL C	3	16	22	575	465	CL753Y	403	CL653Y	388
	3½	22	22	590	480	CL753Z	427	CL653Z	412
	4	28	25	615	495	CL753A	451	CL653A	436
	4½	34	29	645	510	CL753R	485	CL653R	470

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CAPACITY OF LATHE
Swing over bed, maximum
TAILSTOCK
Size of center, Morse taper No. 2 Spindle travel 2½/6 Each graduation on tailstock spindle ½/6/ Tailstock top set-over for taper turning ½/6/
COMPOUND REST
Cross slide travel (models A, B, C)
TOOL POST Size of tool holder shank 3/8" x 13/6" Size of cutter bit for tool holder 1/4" sq.
sac of content of foot holder

With Flat Belt	OS (approximate, Direct Drive	Back-Geared
High, r.p.m.		27/ 1/5 2/
Low, r.p.m.	706, 415, 244	276, 165, 96 137, 80, 48
With V-belt		
High, r.p.m.	1365, 1010, 760, 570	265, 195,
Low, r.p.m.	670, 495, 370, 285	150, 112 130, 95, 75, 52
EADSTOCK		
Spindle nose d Size of center, Width of cone Small face pla	pindle t capacity ameter and thread Morse taper pulley step for flo te diameter earing diameter	5/8 Is per inch. 1 ½"-1 No. 1 Is belt

•	3
	THREAD CUTTING RANGE Toolroom and Model A— 48 pitches, R.H. or L.H
	POWER LONGITUDINAL FEEDS Toolroom and Model A—
	POWER CROSS-FEEDS Toolroom and Model A— 48 feeds

Standard size of motor recommended ½ h.p.

MOTOR

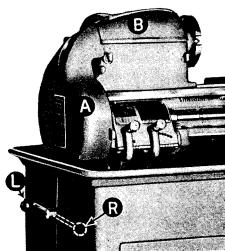
10-K

SOUTH BEND

Precision

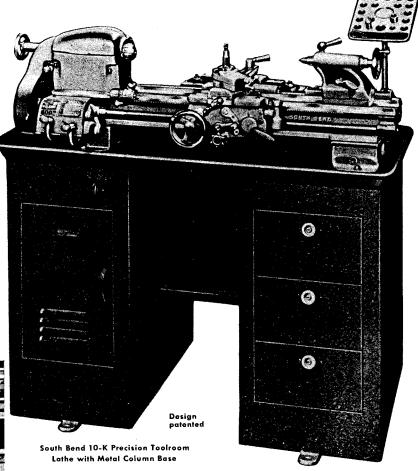
FLOOR LATHES

WITH METAL COLUMN
BASE UNDERNEATH
MOTOR DRIVE



UNUSUAL SAFETY FEATURES

South Bend 10-K Underneath Motor Drive Lathes have an automatic safety interlock which makes it impossible to open the end gear guard, "A", or the cone pulley cover, "B", until the belt tension lever, "L" is placed in position "R", disconnecting power.



These lathes are the same as corresponding models of 10-K Bench Lathes except for the underneath motor drive and the necessary alterations in the headstock. Lathe is supplied with headstock and drive shaft cone pulleys for either V-belt or flat belt drive. Fully enclosed in the metal column base, the motor and driving mechanism are protected from dust, dirt and chips. Base is available with three drawers, $1034'' \times 5\frac{1}{2}'' \times 14''$ as shown in illustration, or without drawers. A built-in chip pan with $\frac{5}{6}''$ bead around the edge forms the top of the metal column base. Equipment included in price of lathe is same as for corresponding models of bench lathes listed on preceding pages. Electrical equipment is not included in price of lathe. See pages 60 to 63.

Specifications are the same as for corresponding models of 10-K Bench Lathes except for spindle speeds, shipping weights, and cubic feet boxed. Approximate spindle speeds with V-belt drive: low range, 52, 75, 95, 130, 285, 370, 495, and 670 r.p.m.; high range: 112, 150, 195, 265, 570, 760, 1010, and 1365 r.p.m. Approximate spindle speed with flat belt drive: low range, 50, 78, 135, 240, 410, and 715 r.p.m.; high range 90, 155, 265, 460, 780, and 1365 r.p.m.

	BED	BETWEEN CENTERS	CUBIC FEET	BOXED WEIGHT	CRATED WEIGHT	WITH 16-SPEE UNDERNEATH M		WITH 12-SPEED UNDERNEATH M	
MODEL	LENGTH FEET	INCHES	BOXED			CAT. NO.	PRICE	CAT. NO.	PRICE
TOOLROOM	3½	22	56	940	750	CL78370ZD	\$1135	CL8370ZD	\$1117
	4	28	68	1000	780	CL78370AD	1167	CL8370AD	1149
MODEL A	3½	22	56	910	720	CL7370ZD	905	CL370ZD	887
	4	28	68	960	750	CL7370AD	937	CL370AD	919
	4½	34	68	970	760	CL7370RD	972	CL370RD	954
MODEL B	3 ½	22	56	895	705	CL7367ZD	821	CL367ZD	803
	4	28	68	945	730	CL7367AD	853	CL367AD	835
	4 ½	34	68	955	740	CL7367RD	888	CL367RD	870
MODEL C	3 ½	22	56	895	695	CL7353ZD	745	CL353ZD	727
	4	28	68	940	720	CL7353AD	777	CL353AD	759
	4 ½	34	68	950	730	CL7353RD	812	CL353RD	794

*The 3' and 31/2' bed lengths can be supplied without drawers, deduct \$38.00. 4' and 41/2' bed lengths without drawers, deduct \$38.00.