



South Bend[®] 10 INCH LATHE

BUILDERS OF PRECISION MACHINE TOOLS SINCE 1906

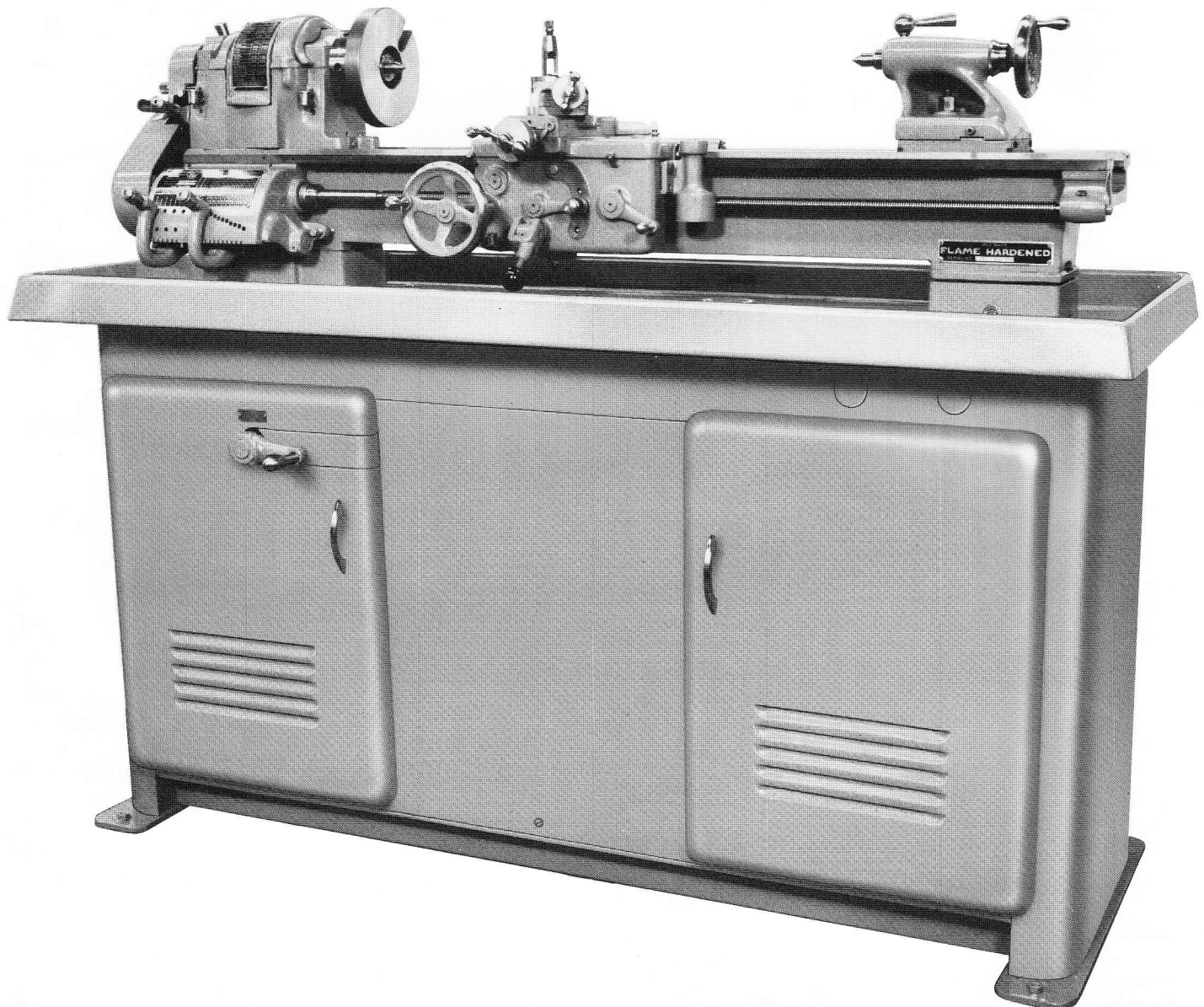
South Bend[®] 10 inch precision lathes

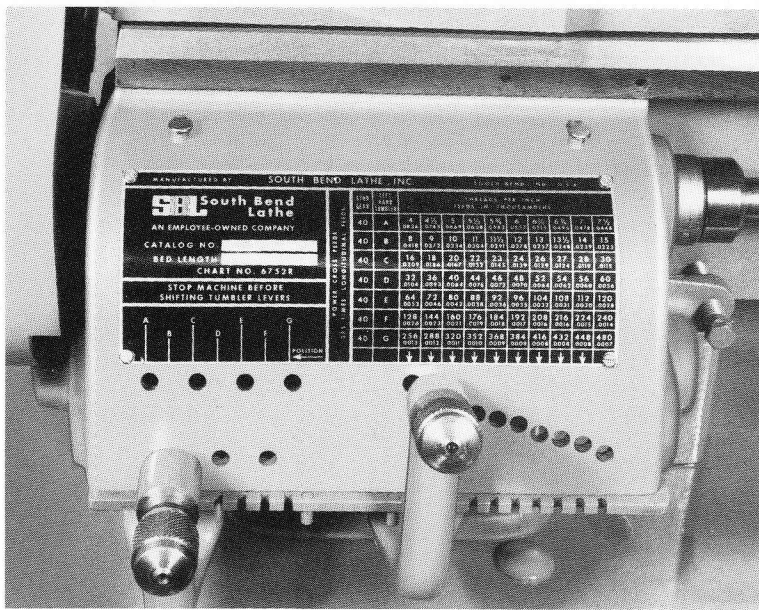
engine and toolroom models
with flame hardened bedways.

**Fast and accurate with
lots of power.**

South Bend 10" Precision Lathes are built with demanding care... they're fast... and they're extremely accurate. You get high spindle speeds for efficient machining, as well as plenty of power for heavy roughing cuts. With this lathe, you can perform finish turning and boring with such precision that subsequent grinding, honing and lapping operations can often be eliminated. You'll also find that this lathe is unsurpassed for cutting screw threads to the

exacting tolerances required for precision thread gauges, taps, dies, instruments, etc. Satin finish direct reading micrometer dials make fine adjustments easier and offer less chance for operator error. Through the years no lathe has been more popular than the South Bend 10" model. Always reliable... exceptionally accurate. Set-up is simple. Operation is easy. This is especially important when short production is required or for tool-room and maintenance operations.

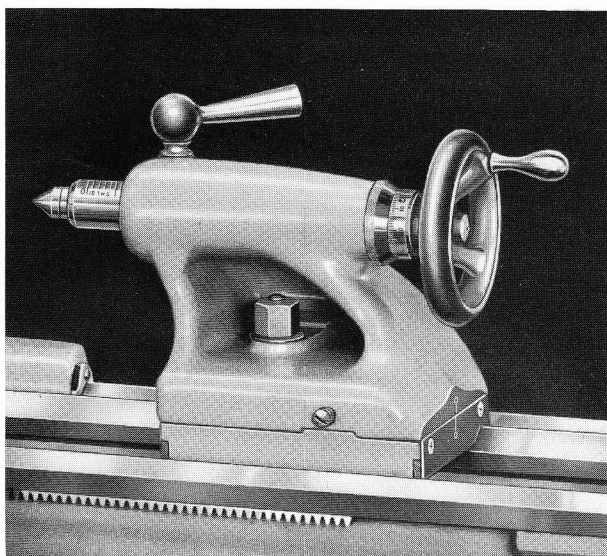
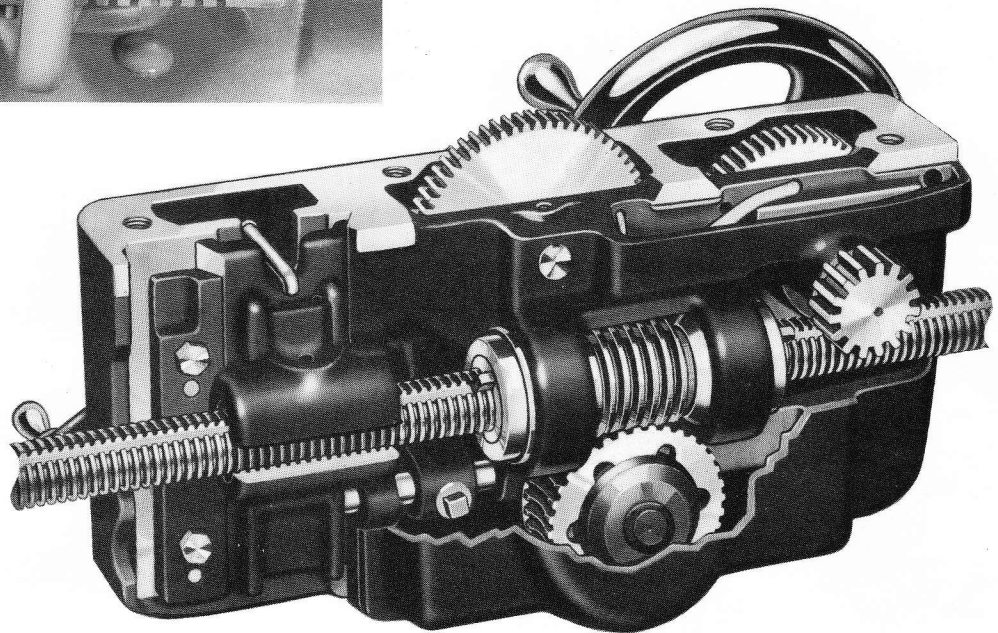




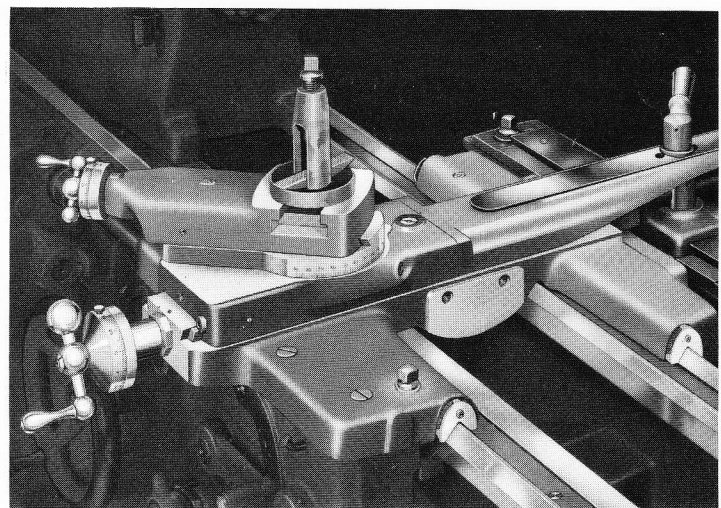
WIDE RANGE QUICK CHANGE GEAR BOX
 With the full quick change mechanism supplied on South Bend 10" Lathes, you have at your finger tips 70 pitches of screw threads, 70 changes for power longitudinal feeds and 70 power cross feeds. Thread cutting range is from 4 to 480 per inch.

ONE-PIECE DOUBLE-WALL APRON
 The one-piece double-wall apron is rigidly constructed and provides plenty of support for both ends of the gear shafts. Large diameter handwheel and swivel machine handle contribute to ease of operation.

Features like these make South Bend precision 10 inch lathes... Profit Makers



STURDY TAILSTOCK
 Generous bearing surfaces of the tailstock are carefully fitted to assure precision alignment of the tailstock spindle with the bedways and the headstock spindle. Internal clutch device locks the spindle without altering the alignment of the centers.



SOLID-AS-A-ROCK SADDLE AND COMPOUND REST
 Saddle has unusually long bearing surfaces that are carefully hand-scraped to conform with the outer V-ways of the flame hardened and precision ground bed. Cross-slide bridge is wide and deep, providing a solid support for the tool rest.

SPECIFICATIONS

CAPACITY

Swing over bed and saddle wings	10 $\frac{1}{8}$ "	[257]
Swing over cross slide, engine lathes ...	5 $\frac{7}{8}$ "	[149]
Swing over cross slide, tool room lathes ..	5 $\frac{3}{4}$ "	[146]
Swing over cross slide without chip guard, engine lathes	6 $\frac{3}{4}$ "	[171]
Center distances	19", 33"	[483, 838]

HEADSTOCK

Capacity through spindle, nose type collet chuck or jaw chuck	1 $\frac{3}{8}$ "	[35]
Maximum collet capacity, drawbar type ..	1 $\frac{1}{4}$ "	[27]
Cam lock spindle nose, size and type ...	4"-D1	
Threaded spindle nose, diameter and threads per inch (optional)	2 $\frac{1}{4}$ "-8	
Long taper key drive spindle nose, size (optional)	L00	
Size of center, Morse taper	No. 2	

SPINDLE SPEEDS (Approx.)

	Direct Drive	Back Geared	
1-speed motor	6-304 to 1400	6-55 to 250	
2-speed motor	12-152 to 1400	12-27 to 250	
Max. spindle speed, optional extra	1800 r.p.m.		
Recommended motor	1 h.p.	[.75 KW]	
Recommended 2-speed motor	1- $\frac{1}{2}$ h.p.	[.75-.37 KW]	

GEAR BOX - THREADS AND FEEDS

Number of threads and feeds	70	
Range of threads per inch	4 to 480	
Longitudinal feeds per spindle revolution0007" to .0836"	[.02 to 2.12]
Cross feeds per spindle revolution0003" to .0303"	[.01 to .77]
Lead screw, diameter and threads	3/4"-8	

COMPOUND REST

Cross slide travel, engine lathes (without taper attachment)	6 $\frac{1}{4}$ "	[159]
Cross slide travel, toolroom lathes (with taper attachment)	5 $\frac{7}{8}$ "	[149]
Angular hand feed of top slide	2"	[50]
Tool post opening for tool holder shank ..	3/8" x 1 $\frac{1}{4}$ "	[9.5 x 20.5]

TAILSTOCK

Size of center, Morse taper	No. 2	
Spindle travel	2 $\frac{1}{8}$ "	[54]
Set-over of top for taper turning	1 $\frac{1}{8}$ "	[17.5]

Specifications are subject to change without notice.



SOUTH BEND LATHE...

offers you a complete line of metalworking Profit Makers ... including

- Precision Lathes, 10" to 25"
- NC and Tracer Production Lathes
- Radial Drills • Milling Machines
- Bench Shapers • Deka • Drill®
- Automatic Multiple Spindle Drilling and Tapping Machines
- Johnson® Mechanical Power Presses • Dynablast®
- Deflashing & Deburring Equipment

STANDARD EQUIPMENT

Included as standard equipment with each 10" engine lathe are hardened and ground bedways, necessary belting and motor pulley, thread indicator dial, small face plate, round tool post assembly, 60° centers and spindle sleeve, chip pan, wrenches, installation plan and manual. In addition to the above, on 10" toolroom models, standard equipment includes micrometer carriage stop, large face plate, telescoping taper attachment, hand wheel type draw-in collect attachment and collet rack (without collets). Electrical equipment is not included.

Type of Lathe	Catalog Number	Bed Length Feet	Between Centers Inches	Crated Weight Pounds
ENGINE LATHES	CL187ZB CL187RB	3 $\frac{1}{2}$ 4 $\frac{1}{2}$	19 33	960 1000
TOOLROOM LATHES	CL8187ZB CL8187RB	3 $\frac{1}{2}$ 4 $\frac{1}{2}$	19 33	1010 1060

MOTORS AND CONTROLS

Cat. No.	H.P.	Speed	Phase	Cycle	Voltage	Select One	
						Drum Control	P.B. Linestarter
CE2628B	1	1	1	60	115	EQ790	EQ841A0
CE2628D	1	1	1	60	230	EQ790	EQ841CT0
CE2625P	1	1	3	60	208	EQ790	EQ841PT0
CE2625D	1	1	3	60	230	EQ790	EQ841CT0
CE2625F	1	1	3	60	460	EQ790	EQ841DT0
CE3384	1/2-1	2	3	60	208	EQ765	EQ843PT0
CE3385	1/2-1	2	3	60	230	EQ765	EQ843CT0
CE3386	1/2-1	2	3	60	460	EQ765	EQ843DT0

Electrical equipment not included.

ACCESSORIES A good way to get more work out of your lathe is to equip it with the right accessories. Those listed below should be specified when you order your lathe. See the separate accessory catalog for a complete listing of all available accessories.

- CL1955R** Metric Transposing Gears — ordered with lathe
- CL1545R** Taper Attachment — fitted to lathe
- CL2195R** Preparing lathe for coolant
Coolant Pump and Reservoir fitted to lathe
- CL501B** 115v., 1 ph.
- CL513P** 208v., 3 ph.
- CL513D/F** 230/460 v., 3 ph.
- CA8050L** Size L00 Long Taper Key Drive Spindle Nose in lieu of Regular Camlock Spindle Nose
- CA8051L** Same as above for Toolroom lathes
- CL8050L** Threaded Spindle Nose in lieu of Regular Camlock Spindle Nose
- CL8051L** Same as above for Toolroom lathes
- CL5522** Special Paint Colors
- CL2540L** Inch/Metric Compound and Crossfeed Dials.

DISTRIBUTED BY

South Bend Lathe
SBL

400 WEST SAMPLE STREET SOUTH BEND, INDIANA 46621