

The South Bend 13-inch Precision Lathe is especially popular for small and medium sized jobs requiring speed and accuracy. Conveniently placed controls reduce operator fatigue. Special accuracy tests are made during assembling to assure extreme precision. You can save on first cost, cost of operation and floor space by selecting one or more of these lathes for your shop.

Headstock is made with 4-step cone pulley or wide belt 3-step cone pulley. The 4-step pulley headstock provides eight or sixteen spindle speeds, depending on whether a single-speed or a two-speed motor is used. The 3-step pulley headstock provides either six or twelve spindle speeds.

SOUTH BEND 13-INCH Precision LATHES

TYPE OF LATHE	TYPE OF HEADSTOCK	CATALOG NUMBER	BED LENGTH FEET	BETWEEN CENTERS INCHES	FEET BOXED	BOXED WEIGHT POUNDS	CRATED WEIGHT POUNDS	PRICE F.O.B. FACTOR
TOOLROOM LATHES	THREE-STEP CONE PULLEY	CL8175B CL8175C CL8175D	5 6 7	28 40 52	84 89 96	1995 2150 2305	1665 1715 1770	\$2408 2472 2536
	FOUR-STEP CONE PULLEY	CL8145B CL8145C CL8145D	5 6 7	28 40 52	84 89 96	1995 2150 2305	1665 1715 1770	2408 2472 2536
ENGINE LATHES	THREE-STEP CONE PULLEY	CL175A CL175B CL175C CL175D	4 5 6 7	16 28 40 52	63 73 77 82	1835 1940 2045 2150	1460 1510 1560 1615	1809 1870 1931 1992
	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	1809 1870 1931 1992

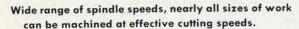
13" SOUTH BEND Precision LATHES

EXTRAS for 13" Lathes

Most commonly used attachments and accessories

Catalog Number			Factory Price	
CL4306Q	Handwheel Collet Attachment*	38	\$ 68.75	
CL5206Q	Handlever Collet Attachment	38	158.00	
CE3077	Set of 16 ←R-S-B- Steel Collets		-	
	for Round Work	40	97.00	
CE1770Q	Collet Rack*	38	27.00	
CL1545T	Taper Attachment*	50	245,00	
CL2400T	Telescoping Jaw Steady Rest	43	27.50	
CL2395T	Telescoping Jaw Follower Rest	43	16.65	
CL968T	Micrometer Carriage Stop*	53	28.35	
CL4207LQ	71/2" 4-Jaw Independent Chuck	59	111.00	
CL3506LQ	6" 3-Jaw Universal Chuck	59	137.00	
CE1202	3/4" Drill Chuck	59	17.10	
CE2305	Drill Chuck Arbor	59	2.10	
CE2103	Set of 11 Safety Lathe Dogs	64	31.75	
CE1475QH	Center Knock-out Bar	57	4.40	
CE8525	Turning Tool Holder, Straight	60	8,44	
CE883R	Cutting-off Tool Holder, R.H.	60	9.28	
CE431	Boring Tool, Style "B"	61	15.10	
CE893	Knurling Tool	62	17.49	
CE2815	Work Light	54	14.20	
CE2698	Plastic Cover for Lathe	-57.07.7		
	(7' bed)	54	7.80	
CE2218	12" Precision Level	54	17.15	
A CONTRACTOR	Chip Pan*	1090F0		

^{*}These items are supplied with and included in prices of 13" Toolroom Lathes.



Two lever gear box permits instantaneous selection of power feeds for any turning, facing or thread cutting operation.

Three V-ways and one flat way assure permanent alignment of headstock, carriage and tailstock.

Microfinished sleeve type spindle bearings give greater support to the work, smoother operation, long life and deliver extremely fine finish.

48 longitudinal and 48 cross feeds.

Easy reading, satin chrome, graduated dials—swivel machine handles, tapered gibs, all standard equipment.

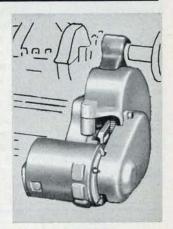
Rugged design for proven low maintenance.

Trouble-free, cord reinforced belt drive to spindle quiet, no vibration, no chatter marks.



INDEPENDENT POWER FEEDS

For 13-Inch Lathe. Equipment includes a special high speed drive which provides spindle speeds ranging from 67 to 1600 r.p.m. and a separate motor, pulleys and gear for driving the power carriage feeds independent of the lathe spindle speeds. This provides 40 quick changes of carriage feed from .517 to 14.48 inches per minute, through the lathe gear box. When spindle revolves 1600 r.p.m. a fine longi-tudinal feed of approximately .00032 inches per revolution of spindle can be obtained. The independent power feed may easily be disconnected and the regular power carriage feeds used in a normal manner.



Catalog		Price			
Number	Current	Phase	Cycle	Voltage	riice
CL331BT	A.C.	1	60	115	\$157.00
CL331DT	A.C.	1	60	230	164.00
CL333DT	A.C.	3	60	220	189.00
CL333FT	A.C.	3	60	440	199.00

Write for price of Independent Power Feed with motor for other current characteristics.

Specifications

10"-11/16"

10"

13"

CAPACITY Swing over bed and saddle wings Swing over cross slide, engine lathe. Swing over cross slide, toolroom lathe. Swing over cross slide without chip guard, engine lathe only Between centers (various bed lengths)		5-7/8" 5-3/4"		13-1/8" 7-3/4" 8" 8-3/4" 16", 28", 40", 52"	
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. 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.		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" 2-3/8"	
SPINDLE SPEEDS (approxima	ate, not exact)			Direct Drive	Back-Geared
With 4-Step Cone Pulley 1-speed motor,				940, 628, 418, 270	
	High speeds—r.p.m Low speeds—r.p.m			940, 628, 418, 270 470, 314, 209, 135	135, 90, 60, 4 67, 45, 30, 2
With 3-Step Cone Pulley 1-speed motor,	High speeds—r.p.m Low speeds—r.p.m.			940, 497, 270 940, 497, 270 470, 248, 135	135,71,4 135,71,4 67,35,2
1-speed motor	High speeds—r.p.m Low speeds—r.p.m	Direct Drive 1400, 898, 585 740, 470, 304	Back-Geared 250, 160, 105 130, 85, 55		
2-speed motor	High speeds—r.p.m	1400, 898, 585 740, 470, 304 700, 449, 292 370, 235, 152	250, 160, 105 130, 85, 55 125, 80, 52 65, 42, 27		
Higher spindle speeds available at extra	cost, up to	2400	r.p.m.	1600 r.;	o.m.
THREADS AND FEEDS Number of changes for threads and feeds		70 4 to 480 .0007" to .0836" .0003" to .0303" 3/4"—8		48 4 to 224 .0015" to .0841" .0006" to .0315" 1"—6	
COMPOUND REST Cross slide travel, engine lathe model. Cross slide travel, toolroom lathe model. Angular hand feed, compound rest top slide. Tool post opening for tool holder shank.		6-1/4" 5-7/8" 2" 3/8" x 13/16"		8-3/4" 8-1/8" 3-1/8" 1/2" x 1-1/8"	
TAILSTOCK				1/2 4/15	.,,,
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"	
MOTOR					New York
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.	

SOUTH BEND'S Precision LATHES ...

FOR over 50 years South Bend has lead the way in the manufacture of Precision Lathes. This has been possible only through a devoted program of testing, checking and refining every operation in the manufacturing process.

Inspect any South Bend Lathe. You'll see many of the reasons why South Bend's remain trouble free throughout long years of rough and tough service, why they deliver ultra-fine finish and why they last a lifetime if given proper care.