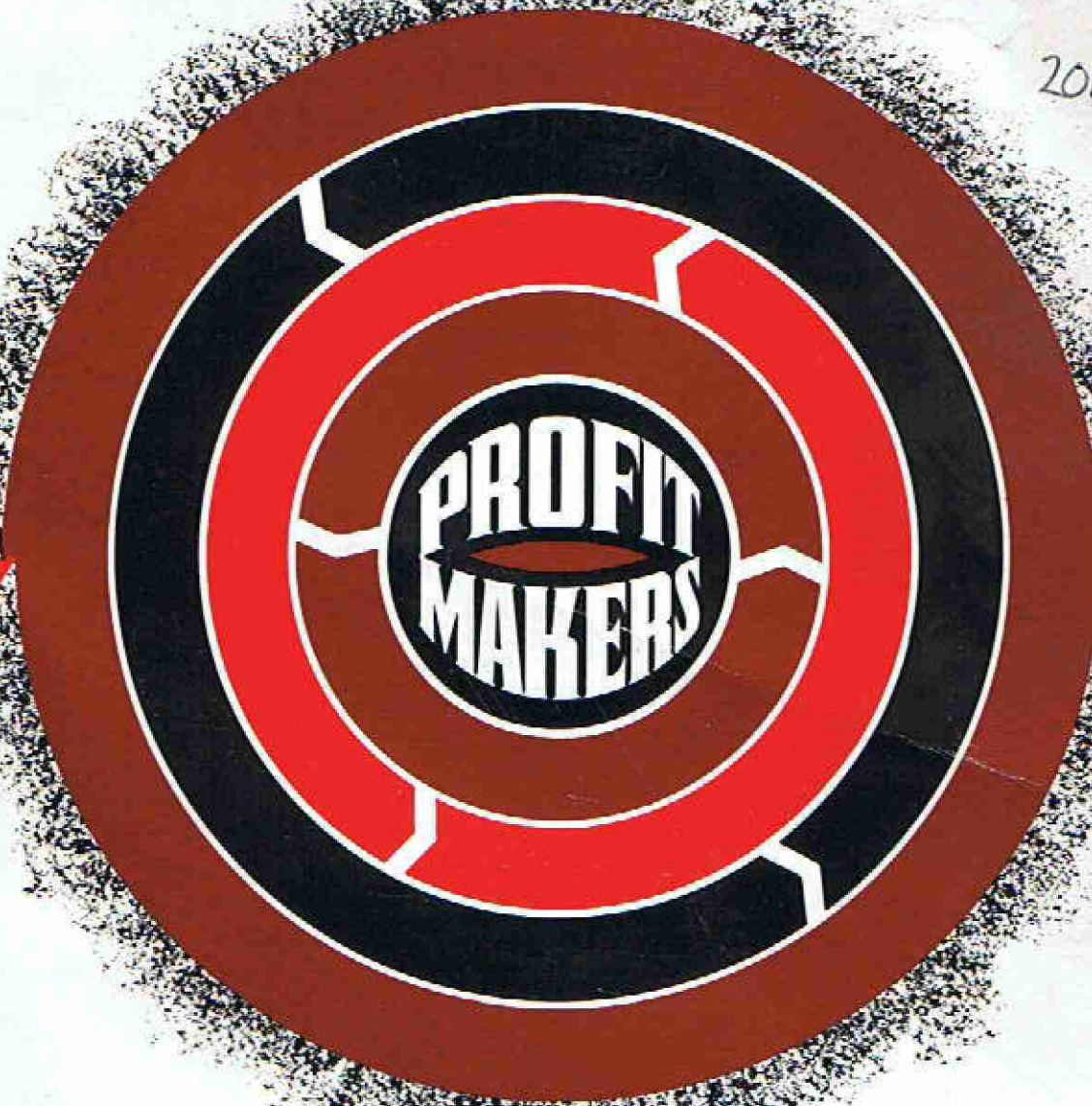


SOBEL MACHINERY
82 HERBERT AVE
OFFICE 93 GARRY RD.
CLOSTER NEW JERSEY
07024

201-768-9645



South Bend[®] LATHE ACCESSORIES

BUILDERS OF PRECISION MACHINE TOOLS SINCE 1906

VERSATILITY . . .

FROM A COMPLETE LINE OF ACCESSORIES FOR SOUTH BEND LATHES

INDEX

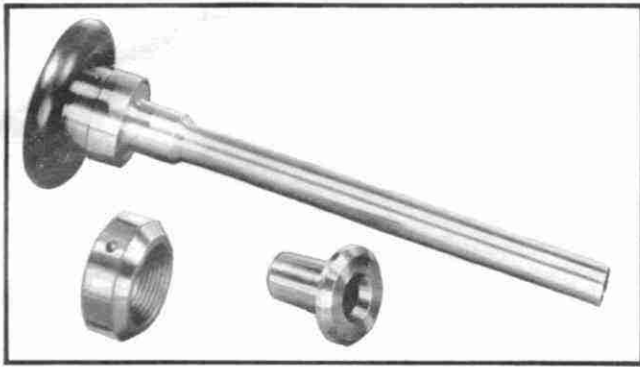
Angle Plates	6	Handlever Turrets	11
Arbors, Milling	6	Inch/Metric Dials	2
Belts	12	Knurling Tools	8
Belt Guards for Bench Lathe	12	Lights	9
Belt Splicing Kits, Clamps	12	Live Centers	11
Benches	12	Lubricants	13
Boring Tools	9	Milling Attachments	6
Carriage Stops	6	Paint, Standard Gray Enamel	12
Centers for Lathes	10, 11	Pipe Centers	10
Chucks, Drill, etc.	10	Rests, Steady and Follower	4
Chucks, Lathe (See separate chuck catalog or individual lathe brochures)		Splash Pans	12
Chuck and Tool Assortments	11	Surface Plates	6
Collets	1, 2	Tailstock Assemblies, Complete	11
Collet Attachments	1	Tailstock Spindles, Hardened	11
Collet Chucks	2	Taper Attachments	5
Collet Racks	2	Taper Reducing Sleeves	4
Coolant Equipment	8	Thread Cutting Stops	6
Cross Slides, Double Tool	5	Thread Indicator Dials	5
Cutter Bit Grinding Blocks	6	Threading Tools	9
Cutter Bits	7, 8	Tool Assortments	11
Die Holders	11	Tool Holders, Lathe	7
Dogs, Lathe	4	Tool Holders, 10 in 1	2, 8
Face Plates	3	Tool Posts, Extra	8
Grinding Attachments	3	Transposing Gears, Metric	4
		Turrets	5, 11



HOW TO ORDER ATTACHMENTS

Many practical attachments and accessories designed especially for South Bend machine tools are shown in this catalog. Most of them may be ordered, either with the machine or later. You will save time and expense by selecting a wide range of appropriate equipment for the most efficient lathe operation.

When ordering attachments, chucks, or tools for South Bend Lathes, always state the swing of the lathe and also give the serial number of the lathe, which is stamped on top of the lathe bed at the tailstock end between the front V-way and the flat way, or may be found on the plate affixed to the bed.



HANDWHEEL COLLET ATTACHMENTS

A great time saver, especially when extremely accurate centering is required. Bar and tube stock can be fed through the hollow drawbar which operates the collet. When handwheel is tightened, collet automatically grips and centers work. Equipment includes steel drawbar with handwheel, spindle nose cap, spanner wrench, and heat-treated steel closing sleeve if required.

FOR 4" TYPE D1 CAM LOCK SPINDLE

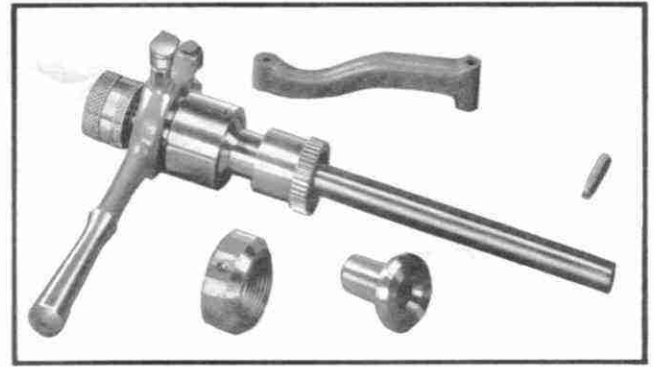
Catalog Number	Size of Lathe	Collet Used	Max. Collet Cap.	Shipping Weight
CB4306L	10"-1 1/16" Collet	No. 5	1 1/16"	10 lbs.
CB4306T	13"	No. 5	1 1/16"	14 lbs.
CB4306H	16"-16-24"	No. 5	1 1/16"	15 lbs.

FOR THREADED SPINDLE

CL4306N	9"	No. 3	1/2"	5 lbs.
CL4306K	10-K	No. 6K	5/8"	5 lbs.
CL4306L	10"-1 1/16" Collet	No. 5	1 1/16"	10 lbs.
CL4306Q	13"	No. 5	1 1/16"	14 lbs.
CL4306H	16"-16-24"	No. 5	1 1/16"	15 lbs.

FOR TYPE L00 LONG TAPER KEY DRIVE SPINDLE

CA4306L	10"-1 1/16" Collet	No. 5	1 1/16"	10 lbs.
CA4306T	13"	No. 5	1 1/16"	14 lbs.
CA4306H	16"-16-24"	No. 5	1 1/16"	15 lbs.



HANDLEVER COLLET ATTACHMENTS

Speed and accuracy are combined in the Handlever Collet Attachment. Without stopping the lathe spindle, the collet can be released, bar stock fed through the spindle, and the collet tightened again. Equipment includes adjustable chuck closing mechanism and hollow drawbar, spindle nose cap, spanner wrench and heat-treated steel closing sleeve if required.

FOR 4" TYPE D1 CAM LOCK SPINDLE

Catalog Number	Size of Lathe	Collet Used	Max. Collet Cap.	Shipping Weight
CB5206L	10"-1 1/16" Collet	No. 5	1 1/16"	20 lbs.
CB5206T	13"	No. 5	1 1/16"	25 lbs.
CB5206TT	14"	No. 5	1 1/16"	25 lbs.

FOR THREADED SPINDLE

CL5206N	9"	No. 3	1/2"	10 lbs.
CL5206K	10-K	No. 6K	5/8"	10 lbs.
CL5206L	10"-1 1/16" Collet	No. 5	1 1/16"	20 lbs.
CL5206Q	13"	No. 5	1 1/16"	25 lbs.
CL5206H	16"-16-24"	No. 5	1 1/16"	32 lbs.

FOR TYPE L00 LONG TAPER KEY DRIVE SPINDLE

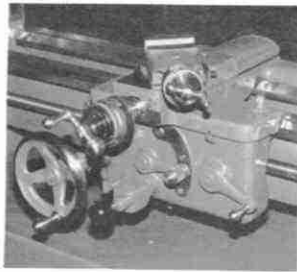
CA5206L	10"-1 1/16" Collet	No. 5	1 1/16"	20 lbs.
CA5206T	13"	No. 5	1 1/16"	25 lbs.
CA5206H	16"-16-24"	No. 5	1 1/16"	32 lbs.

BUY STEEL COLLETS IN COMPLETE SETS

Collet No.	Collets in Set	Ship. Wt. Lbs.	Sizes of Collets	Cat. No.
3	8	3	1/16" to 1/2" in 16ths.....	CE3065
	7	3	3/32" to 15/32" in odd 32nds...	CE3066
	14	6	5/64" to 31/64" in odd 64ths.....	CE3067
6K	10	7	1/16" to 5/8" in 16ths.....	CE3068
	9	7	3/32" to 17/32" in odd 32nds...	CE3069
	18	12	5/64" to 39/64" in odd 64ths.....	CE3070
5	16	11	1/16" to 1" in 16ths.....	CE3077
	15	11	3/32" to 31/32" in odd 32nds...	CE3078
	30	20	5/64" to 63/64" in odd 64ths.....	CE3079

SOUTH BEND STEEL COLLETS

Catalog Number	Collet No.	Sizes of Lathes Used on	Collet Capacities for Round Work	Shipping Weight
CE3050	3	9"	1/16" to 1/2" in 64ths.	6 ozs.
CE3051	6K	10-K	1/16" to 5/8" in 64ths.	8 ozs.
CE3054	5	10", 13", 14", 16", 16-24" 1 1/16" Col.	1/16" to 1 1/16" in 64ths.	1 lb.



INCH/METRIC DIALS

Provide inch or metric capability on Compound and/or Crossfeed dials. Available for new machines or as field retrofit.

CROSSFEED AND COMPOUND REST DIALS—FACTORY INSTALLED

Cat. No.	Size Lathe
CL2540K*	10K
CL2550L	10"
CL2550T	13" & 14"
CL2550H	16" & 16/24"
CL2550GJ	17" & 20"

*Sold only as kit for customer installation.

CROSSFEED DIALS FOR CUSTOMER INSTALLATION

Cat. No.	Size Lathe
CL2551L	10"
CL2551T	13", 14"
CL2551H	16", 16/24"
CL2551GJ	17", 20"

COMPOUND REST DIALS FOR CUSTOMER INSTALLATION

Cat. No.	Size Lathe
CL2542KD	10"
CL2552TH	13", 14", 16", 16/24"
CL2552GJ	17", 20"

SJOGREN SPINDLE NOSE COLLET CHUCKS & COLLETS

Fit D1-8" Camlock Spindle Nose.

CE917GJ. 1/8" to 1 3/8" capacity.

CE3017. #2J Collets for above.

CE918GJ. 1/8" to 1 3/4" capacity.

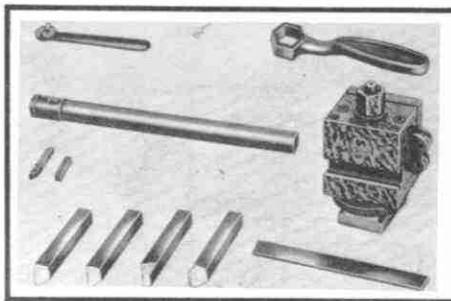
CE3018. #3J Collets for above.

CE919GJ. 1/8" to 2 1/4" capacity.

CE3019. #22J Collets for above.

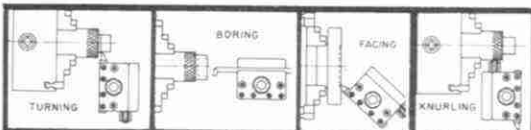
Note: Collets are available in increments of 1/64". Specify size.

10 IN 1 TOOL HOLDER KITS



Save money by purchasing this kit. It includes boring bar, cut-off blade, set of four ground high speed cutter bits, tool holder, knurling head, bolt, clamp and all other equipment regularly supplied with the 10 in 1 tool holder.

Catalog No. of Kit	Size of Lathe	Items Included in Kit			Ship. Weight
		Cutter Bits	Boring Bar	Cut-off Blade	
CE2930NK	9" & 10-K	CE2776	CE2419	CE876	7 lbs.
CE2930R	10"	CE2776	CE2419	CE876	7 lbs.



JACOBS COLLET CHUCKS

CE506. Jacobs Collet Chuck Model 91-82. Capacity 1/8" to 1 3/8". For direct mounting on threaded spindle of 10" and 13" lathes. Shipping weight 30 lbs.

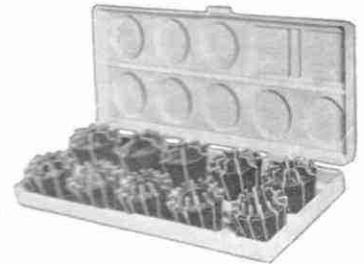
CE507. Jacobs Collet Chuck Model 91-83. Capacity 1/8" to 1 3/8". For direct mounting on threaded spindles of 14 1/2", 16" and 16-24" lathes. Shipping weight 30 lbs.

CE508. Jacobs Collet Chuck Model 91-C8. Capacity 1/8" to 1 3/8". For direct mounting on 8" D1 Cam Lock Spindle of 17" geared head lathe. Shipping weight 45 lbs.

CE511. Jacobs Collet Chuck Model 91-C4. Capacity 1/8" to 1 3/8". For direct mounting on 4" D1 Cam Lock Spindle. Shipping Weight 14 lbs.

COLLETS FOR JACOBS COLLET CHUCKS

CE920GJ. Set of 11 Rubber-Flex® Collets for use with CE506, CE507 or CE508 Collet Chuck. Capacity 1/8" through 1 3/8". Packed in two boxes.



COLLET RACK

This Collet Rack provides a convenient place for keeping collets, centers, spindle sleeve and draw-bar. Recess along lower edge of collet rack is provided for holding spanner wrench. Clamp for attaching to back V-way of lathe bed is supplied.



COLLET RACKS FOR SOUTH BEND LATHES

Catalog Number	Size of Lathe	Rack Holds	Shipping Weight
CE1770N	9"	19 Collets	9 lbs.
CE1770K	10-K	19 Collets	9 lbs.
CE1770L	10"-1 1/4" Collet	17 Collets	10 lbs.
CE1770Q	13", 14"	17 Collets	12 lbs.
CE1770H	16"—16-24"	17 Collets	15 lbs.

GRINDING ATTACHMENTS



EXTERNAL GRINDING ATTACHMENTS

Supplied with 1/4 h.p. constant speed motor and 4" x 1/2" CE2759 grinding wheel. Spindle speed is approximately 5275 r.p.m. Clamp bolt equipment is not included. See below.

Catalog Number	Motor Specifications			Shipping Weight
	Phase	Cycle	Volts	
CE301B	1	60	115	43 lbs.

CLAMP BOLT EQUIPMENT

The Clamp Bolt Equipment required for various sizes of South Bend Lathes is listed in the table below. Be sure to include this when ordering a grinding attachment.

Catalog Number	Size Lathe	Shipping Weight
CE307NK	9" & 10-K	1 lb.
CE307R	10"	1 lb.
CE307T	13"	3 lbs.
CE307H	16"-16-24"	4 lbs.
CE307GJ	17" & 20"	5 lbs.

INTERNAL GRINDING ATTACHMENT

SPECIFICATIONS

Grinding wheel speed.....20,000 r.p.m.
Maximum depth of ground hole with 1-inch wheel......378 inches
Maximum wheel diameter recommended......1-inch

Accessories supplied:

Four 1/4" wheel arbors: approx. lgths. 2 1/16", 2 1/16", 3 1/16", 4 1/16".
Two grinding wheels: 1/4" bore; 1/4" face; 5/8" and 3/4" diameters.
One chuck for mounted wheels......1/8" capacity
Eight-foot extension cord, plug, and switch. (115 volt motor only)

CE601B. Internal Grinding Attachment with 1 ph., 60 cy., 115 v., A.C. motor and accessories listed above, but without clamp bolt equipment.

CE603D/F. Same as above but with 3 ph., 60 cy., 230/460 v., A.C. motor less switch.

GRINDING WHEELS

The grinding wheels listed below cover the more important classes of work. They are 4" in diameter with 1/2" face and 1/2" hole, to fit external grinding attachment. Shipping weight 2 lbs. each.

Cat. No.	Type of Work	Class of Work
CE2759	General Work	Rough or Finish
CE2758	Cutting Tools	Rough or Finish
CE2774	Automobile Valves	Rough or Finish
CE2757	Cast Iron	Finish Grinding
CE2769	Soft Steel	Finish Grinding

CUP GRINDING WHEELS

3 1/4" outside diameter, 1 1/4" face, 1/2" hole for use with External Grinding Attachment. Used for sharpening reamers, milling cutters, etc.

CE3236. Cup Grinding Wheel. Ship. wt. 2 lbs.



LARGE FACE PLATES

Heavily constructed and ribbed on back. Accurately machined and ground with milled thread for precision fit on lathe spindle. Slots provided for clamping work or fixtures.

FOR TYPE D1 CAM LOCK SPINDLES:

Catalog No.	Size Lathe	Outside Dia.	Spindle Nose	No. of Slots	Shipping Weight
CB2180L	10"-11 1/16" Collet	8 3/8"	4" D1	6	10 lbs.
CB2180T	13", 14"	10 3/4"	4" D1	6	19 lbs.
CB2180FH	16"-16-24"	13 1/4"	4" D1	8	38 lbs.
CL2180GL	17", 20"	15"	8" D1	6	70 lbs.

FOR THREADED SPINDLES:

Catalog No.	Size Lathe	Outside Dia.	Spindle Nose	No. of Slots	Shipping Weight
CL2180NK	9" and 10-K	7 3/8"	1 1/2"-8	6	8 lbs.
CL2180L	10"-1 1/16" Collet	8 3/8"	2 1/4"-8	8	10 lbs.
CL2180Q	13"	10 3/4"	2 1/4"-8	8	19 lbs.
CL2180MH	16"-16-24"	13 1/4"	2 3/8"-6	8	38 lbs.
CL2180V*	16-24"	22 3/4"	2 3/8"-6	12	96 1/2 lbs.

*This is an extra large face plate for mounting large diameter work in 16-24" lathe only.



SMALL FACE PLATES

Heavily constructed and accurately finished with milled thread for precision fit on lathe spindle. Have slot for driving lathe dog.

FOR TYPE D1 CAM LOCK SPINDLES:

Catalog No.	Size Lathe	Outside Dia.	Spindle Nose	No. of Slots	Shipping Weight
CB2175LT	10"-1 1/16" Collet 13", 14"	5 5/8"	4" D1	1	5 lbs.
CB2175FH	16" — 16-24"	8 1/16"	4" D1	1	13 lbs.
CL2175GL	17", 20"	8 7/8"	8" D1	1	35 lbs.

FOR THREADED SPINDLES:

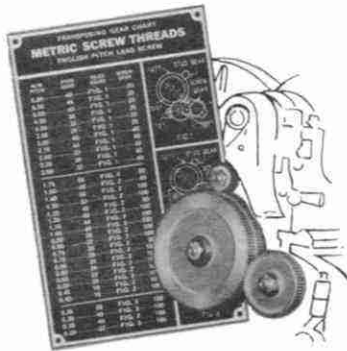
Catalog No.	Size Lathe	Outside Dia.	Spindle Nose	No. of Slots	Shipping Weight
CL2175NK	9" and 10-K	5 1/8"	1 1/2"-8	1	4 lbs.
CL2175L	10"-1 1/16" Collet	5 5/8"	2 1/4"-8	1	5 lbs.
CL2175Q	13"	6 3/8"	2 1/4"-8	4	4 lbs.



MULTI-TAPPED FACE PLATES

Have six slots and thirty tapped holes for clamping work or special work holding fixtures. The cored slots are 3/16" wide, and the tapped holes have 5/16"—18 threads. Plates are 7/8" thick.

Catalog No.	Size Lathe	Outside Diameter	Spindle Thread	Shipping Weight
CL1483NK	9" & 10-K	8 1/2"	1 1/2"-8	13 lbs.
CL1483LQ	10"-1 1/16" Collet & 13"	8 1/2"	2 1/4"-8	13 lbs.



METRIC TRANSPOSING GEARS

Permit right-hand and left-hand metric threads to be cut (in addition to the regular English pitches) on South Bend Lathes having an English lead screw. When "English" lathes are ordered with metric transposing gears, the graduations on the tailstock spindle, the

cross-feed screw, and the compound rest screw are supplied with English graduations and the compound rest screw and cross-feed screw have English pitch threads. Any deviation will be handled on a special order basis. Write for information for older lathes with single tumbler gear box.

METRIC TRANSPOSING GEARS ORDERED WITH LATHE

Size of Lathe	With English Graduations Catalog Number
10"	CL1955R
13"	CL1955T
14"	CL1955TT
16"-16-24"	CL1955H
17"	CL1955GJ
20"	CL1955GL

METRIC TRANSPOSING GEARS ORDERED SEPARATE FROM LATHE

Size of Lathe	Shipping Weight	Catalog Number
9"	8 lbs.	CL1957NK
10-K	8 lbs.	CL1957NK
10"	51 lbs.	CL1957R
13"	73 lbs.	CL1957T
16"-16-24"	65 lbs.	CL1957H

LATHE DOGS

Should correspond in capacity with diameter of work to be held. Malleable iron. Hollow, headless set screws.

Catalog Number	Cap. In.	Ship. Wt.	Catalog Number	Cap. In.	Ship. Wt.
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LATHE DOGS FOR 13"-16-24" AND LARGER LATHES

CE3826	1/2	1 lb.	CE3832	2	4 lbs.
CE3827	3/4	1 lb.	CE3833	2 1/2	5 lbs.
CE3828	1	2 lbs.	CE3834	3	6 lbs.
CE3829	1 1/4	2 lbs.	CE3835	3 1/2	7 lbs.
CE3830	1 1/2	3 lbs.	CE3836	4	9 lbs.
CE3831	1 3/4	3 lbs.			

LATHE DOGS FOR 9" AND 10" LATHES

CE3820	3/8	1 lb.	CE3823	1	2 lbs.
CE3821	1/2	1 lb.	CE3824	1 1/4	3 lbs.
CE3822	3/4	2 lbs.	CE3825	1 1/2	3 lbs.

SETS OF LATHE DOGS

Having the correct size of lathe dog at hand for any job will more than compensate for the cost of a full set. Two or more dogs of each size will often save time on production work, as this permits changing one dog while the other is in use.

Cat. No. CE2103. Set of 11 Lathe Dogs, 1/2" to 4" capacity for 13" and larger lathes. Ship. wt. 36 lbs.

Cat. No. CE2107. Set of 6 Lathe Dogs, 3/8" to 1 1/2" capacity for 9" and 10" lathes. Ship. wt. 6 lbs.



CLAMP LATHE DOGS

For holding round, hexagonal or rectangular work. The nuts permit adjusting screws for minimum projection of screw heads beyond body of lathe dog. Each is boxed separately.

Catalog Number	Capacity		Size Lathe Used With	Shipping Weight
	Maximum Opening	Distance Between Screws		
CE161	1 7/8"	2 1/4"	13" & larger	2 lbs.
CE162	2 1/2"	2 3/4"	13" & larger	3 lbs.
CE163	3 1/4"	3 1/2"	14 1/2" & larger	4 lbs.

TAPER REDUCING SLEEVES



Standard Morse Taper Reducing Sleeves for fitting drills, reamers, and other taper shank tools to spindle taper of lathe or other machine.

Catalog No.	Morse Taper		Shipping Weight
	Outside	Inside	
CE2525	2	1	8 ozs.
CE2526	3	1	12 ozs.
CE2527	3	2	12 ozs.

STEADY RESTS AND FOLLOWER RESTS

TELESCOPING JAW STEADY REST



Wrenchless adjustment and locking of jaws. Tops are hinged to facilitate inserting and removing shafts or bars. Clamp to inside of bedway. Jaws and other parts are replaceable.

Catalog Number	Size Lathe	Maximum Capacity	Minimum Capacity	Shipping Weight
CL2400N	9 inch	3 in.	3/8 in.	11 lbs.
CL2400K	10-K	3 in.	3/8 in.	11 lbs.
CL2400R	10 inch	3 in.	3/8 in.	13 lbs.
CL2400T	13 inch	3 3/4 in.	3/8 in.	21 lbs.
CL2400TT	14 inch	3 3/4 in.	3/8 in.	21 lbs.
CL2400H	16 inch	4 3/4 in.	3/8 in.	30 lbs.
CL2400V	16-24 inch	4 3/4 in.	3/8 in.	47 lbs.
CL2400GJ	17 inch	6 in.	3/8 in.	50 lbs.
CL2400GL	20 inch	6 in.	3/16 in.	55 lbs.

TELESCOPING JAW FOLLOWER REST

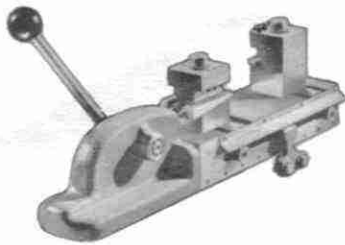


The follower rest is attached to the lathe carriage and travels with it. Used to support long, slender shafts while being machined between the lathe centers.

Catalog Number	Size Lathe	Maximum Capacity	Minimum Capacity	Shipping Weight
CL2395N	9 inch	2 in.	3/8 in.	7 lbs.
CL2395K	10-K	2 in.	3/8 in.	7 lbs.
CL2395R	10 inch	2 1/2 in.	3/8 in.	9 lbs.
CL2395T	13 inch	3 1/4 in.	3/8 in.	11 lbs.
CL2395TT	14 inch	3 1/4 in.	3/8 in.	11 lbs.
CL2395H	16 inch	4 1/4 in.	3/8 in.	17 lbs.
CL2395V	16-24 inch	4 1/4 in.	3/8 in.	21 lbs.
CL2395GJ	17 inch	4 1/4 in.	3/8 in.	35 lbs.
CL2395GL	20 inch	4 1/4 in.	1/8 in.	40 lbs.

EXTRA LARGE STEADY RESTS for large dia. work.

Cat. No.	Lathe	Capacity	Ship. Wt.
CL2266H	16 inch	4 3/4" to 10 3/4"	65 lbs.
CL2266V	16-24 inch	4 3/4" to 10 3/4"	85 lbs.
CL2266GJ	17 inch	4 3/4" to 10 3/4"	100 lbs.
CL2266GL	20 inch	4 3/4" to 10 3/4"	115 lbs.



COMBINATION DOUBLE TOOL SLIDES

This combination Handlever and Screw Feed Double Tool Cross Slide is mounted on the saddle cross slide dovetail in place of the compound rest assembly. The power cross-feed can be used by removing the handlever and replacing it with the cross-feed screw. This cross slide has front and back square tool blocks in which $\frac{3}{16}$ " square cutter bits can be mounted. The front tool block takes two cutter bits, and the back tool block takes one.

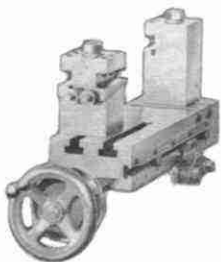
Cat. No.	Size Lathe	Swing over Cross Slide	Ship. Wt.
CL2030N	9"	$3\frac{9}{16}$ "	36 lbs.
CL2030R	10"	$3\frac{9}{16}$ "	45 lbs.

SQUARE TURRETS



For Double Tool Cross Slides. Designed for use only on screw feed double tool cross slide. Cannot be used with handlever feed or with compound rest cross slide. Four cutting tools can be mounted in the turret tool block. The turret indexes accurately, permitting each tool to be used in proper sequence. A quick acting lever locks the turret securely in each of the four positions.

Catalog Number	Size of Lathe	Size Square	Takes Tools	Shipping Weight
CL3376NR	9" and 10"	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	10 lbs.
CL3376T	13", 14"	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	20 lbs.
CL3376H	16"	4"	$\frac{5}{8}$ " x $\frac{5}{8}$ "	28 lbs.



SCREW FEED DOUBLE TOOL SLIDES

For 13" to 16" lathes. This cross slide fits on the saddle dovetail in place of the compound rest assembly. The crossfeed may be operated by power through the friction clutch in the apron, as well as by the cross-feed handwheel.

Adjustable stops are provided for locating the position of the front and rear tools for repetitive operations. The front tool block takes two square cutter bits and the back tool block takes one. T-slots in the cross slide base are provided for adjusting the position of the tool blocks. Should be ordered with the lathe. Cannot be used on lathe with taper attachment.

Catalog Number	Size Lathe	Swing over Cross Slide	Cross-Feed	Size Bit	Shipping Weight
CL2027T	13"	$6\frac{7}{8}$ "	ENGLISH	$\frac{1}{4}$ " sq.	60 lbs.
CL2027TT	14"	$6\frac{7}{8}$ "		$\frac{1}{4}$ " sq.	60 lbs.
CL2027H	16"	$6\frac{7}{8}$ "		$\frac{3}{8}$ " sq.	95 lbs.

SQUARE TURRETS

For Compound Rest Cross Slide. It cannot be used on the double tool cross slide. Four cutting tools can be mounted in the turret tool block. The turret indexes accurately, permitting each tool to be used in sequence. A quick acting lever locks the turret securely in each of the four positions.



Catalog Number	Size of Lathe	Size Square	Takes Tools	Shipping Weight
CL3375N	9"	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	13 lbs.
CL3375R	10"	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	15 lbs.
CL3375T	13"	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	24 lbs.
CL3375TT	14"	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	24 lbs.
CL3375H	16"—16-24"	4"	$\frac{5}{8}$ " x $\frac{5}{8}$ "	40 lbs.
CL3375GJ	17"	4"	$\frac{5}{8}$ " x $\frac{5}{8}$ "	43 lbs.
CL3375GL	20"	4"	$\frac{5}{8}$ " x $\frac{5}{8}$ "	45 lbs.

TAPER ATTACHMENT



Supplied on 10"—1 $\frac{1}{4}$ " Collet and larger lathes. A telescopic cross-feed screw eliminates the necessity of disconnecting the cross-feed nut when tapers are machined. The

cross-feed screw may be used to adjust the lathe tool for the required diameter. When the binding lever is tightened, the cross slide base is rigidly locked to the taper attachment swivel slide, and the thrust is removed from the cross-feed screw. A plain taper attachment is supplied for the 9" and 10-K lathes.

TAPER ATTACHMENT WITH ENGLISH GRADUATIONS

Catalog Number	Size of Lathe	Swing Over Cross Slide	Maximum Taper			Approx. Shipping Weight
			At One Setting	Per Foot	In Degrees	
CL428NK	9"	5"	7"	$3\frac{1}{2}$ "	16 $\frac{1}{2}$	35 lbs.
CL428NK	10-K	$5\frac{1}{8}$ "	7"	$3\frac{1}{2}$ "	16 $\frac{1}{2}$	35 lbs.
CL1545R	10"	$5\frac{3}{4}$ "	$8\frac{1}{2}$ "	$3\frac{1}{2}$ "	16 $\frac{1}{2}$	40 lbs.
CL1545T	13"	8"	$9\frac{1}{4}$ "	$3\frac{1}{2}$ "	16 $\frac{1}{2}$	65 lbs.
CL1545TT	14"	8"	$9\frac{1}{4}$ "	$3\frac{1}{2}$ "	16 $\frac{1}{2}$	65 lbs.
CL1545H	16"	$9\frac{5}{8}$ "	$11\frac{1}{2}$ "	$3\frac{1}{2}$ "	16 $\frac{1}{2}$	100 lbs.
CL1545H	16-24"	$18\frac{3}{4}$ "	$11\frac{1}{2}$ "	$3\frac{1}{2}$ "	16 $\frac{1}{2}$	100 lbs.
CL1545GJ	17", 20"	$9\frac{1}{2}$ "	16"	4"	18 $\frac{1}{2}$	100 lbs.



THREAD INDICATOR

Eliminates reversing the lathe spindle when cutting threads. Dial is numbered and graduated to show when to close half-nuts on lead screw to catch the thread on each successive cut.

Catalog Number	Size Lathe	Shipping Weight
CL810NK	9" & 10-K	2 lbs.
CL810R	10"	3 lbs.
CL810TH	13", 14", 16" — 16-24"	5 lbs.
CL810GJ	17", 20"	5 lbs.

MILLING ATTACHMENTS



They mount on the compound rest base, permitting the power cross-feeds and power longitudinal feeds to be employed for milling and boring operations on work held in the milling attachment vise. The angle plate to which the vertical slide is attached is graduated 180° in both the horizontal and vertical planes. Includes: milling and keyway cutting attachment, two V-blocks for holding round work, one crank handle for feed screw, one double end wrench, and necessary bolts and nuts for installing attachment on lathe.

Catalog Number	Size of Lathe	Vert. Feed Ins.	Cross Feed Ins.	Vise Holds Ins.	Jaw Depth Ins.	Jaw Width Ins.	Ship. Wt. Lbs.
CL2680NK	9-10-K	3	5/8	1 1/2	1 3/16	3	13
CL2680R	10"	3	5/8	1 3/4	1 5/16	3 1/2	25
CL2680T	13", 14"	4 1/2	8/8	2 7/8	1 1 1/16	4 7/8	40
CL2680H	16"	6	10 1/2	4	2	5 3/4	65
CL2680H	16-24"	6	10 1/2	4	2	5 3/4	65



PLAIN MILLING ARBORS

For milling cutters with 1-inch hole. Have No. 3 Morse taper shank, nut and spacing collars.

CE109. Plain Arbor. Ship. wt. 3 lbs.

OFFSET BASE FOR MILLING ATTACHMENTS

For the 9" and 10-K lathes. When used, the position of the milling attachment is 1 1/2" farther away from the center line of the lathe spindle. Permits milling parts that might otherwise be too large for machining. Includes screws for mounting.

CL2408NK. Offset Base for milling attachment. Fits 9" and 10-K lathes only. Ship. wt. 5 lbs.

SURFACE PLATES

Made of close-grained normalized cast iron. Top surface is precision ground and is supported by heavy ribs on back. Wooden cover is supplied to protect ground surface. Size 12" x 17" x 3" with top 3/4" thick.

CE2215. Surface Plate. Shipping weight 75 lbs.

ANGLE PLATES

For clamping work on the face plate or compound rest base of the lathe. Also for setting up work on the shaper, drill press, milling machine, etc. Size 4 1/2" x 3" x 2".

CE9640. Angle Plate. Shipping weight 4 lbs.



MICROMETER CARRIAGE STOPS

Have accurately graduated micrometer collars. Stops may be locked for repetitive operations on duplicate work.

Catalog Number	Size Lathe	Shipping Weight
CL968NK	9" & 10-K	2 lbs.
CL968R	10"	4 lbs.
CL968T	13"	4 lbs.
CL968TT	14"	4 lbs.
CL968FH	16" — 16-24", 17", 20"	7 lbs.

DIAL INDICATOR CARRIAGE STOPS

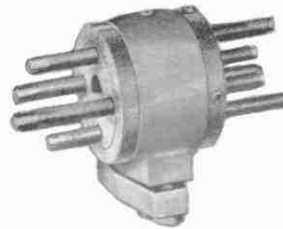


Position of carriage is clearly shown on face of dial which has a total movement of .250". Indicator support bar has 5/2" adjustment in bracket.

Case is so constructed that indicator is protected from accidental damage by excessive pressure of carriage against the indicator.

Two mounting brackets are supplied, one for work close to headstock, and the other for any position along length of bed.

CL2795RT. Dial Indicator Carriage Stop for 10", 13" or 14" Lathe. Shipping wt. 10 lbs.



FOUR POSITION CARRIAGE STOPS

Each of the four adjustable stops may be set for a different tool position and may be revolved into position to locate the carriage for each of four successive cuts.

Catalog Number	Size Lathe	Shipping Weight
CL2185NK	9" & 10-K	6 lbs.
CL2185R	10"	6 lbs.
CL2185T	13", 14"	6 lbs.
CL2185TT	14"	6 lbs.
CL2185FH	16" — 16-24"	10 lbs.
CL2185GJ	17", 20"	10 lbs.



THREAD CUTTING STOPS

Used to regulate the depth of cut for each successive chip when cutting screw threads.

Catalog Number	Size Lathe	Shipping Weight
CL2250NK	9" & 10-K	1/2 lb.
CL2250R	10"	1/2 lb.
CL2250T	13" & 14"	1 lb.
CL2250H	16"	2 lbs.
CL2250GJ*	17"	2 lbs.
CL2251GJ	17", 20"	2 lbs.

*For service only.



PLAIN CARRIAGE STOPS

Locate the position of the cutting tool for facing, necking, cutting shoulders, machining grooves and similar operations.

Catalog Number	Size Lathe	Shipping Weight
CL758NK	9" & 10-K	2 lbs.
CL758RT	10", 13"	4 lbs.
CL758FH	16" — 16-24"	7 lbs.

TURNING TOOL HOLDERS



Straight

Right-Hand

Left-Hand

Include tool holder with hardened steel set screw, one unground hardened high-speed steel cutter bit, and a hardened drop-forged steel wrench.

Catalog Number	Size Lathe	Size Shank	Size Cutter	Ship. Wt.
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STRAIGHT SHANK TURNING TOOL HOLDERS

CE847S	9", 10-K & 10"	3/8" x 1 3/16"	1/4" x 1/4"	1 lb.
CE846S	9", 10-K & 10"	3/8" x 7/8"	1/4" x 1/4"	2 lbs.
CE852S	13" & 14"	1/2" x 1 1/8"	5/16" x 5/16"	3 lbs.
CE853S	16"—16-24"	5/8" x 1 3/8"	3/8" x 3/8"	3 lbs.

RIGHT-HAND TURNING TOOL HOLDERS

CE847R	9", 10-K & 10"	3/8" x 1 3/16"	1/4" x 1/4"	1 lb.
CE846R	9", 10-K & 10"	3/8" x 7/8"	1/4" x 1/4"	2 lbs.
CE852R	13" & 14"	1/2" x 1 1/8"	5/16" x 5/16"	3 lbs.
CE853R	16"—16-24"	5/8" x 1 3/8"	3/8" x 3/8"	3 lbs.

LEFT-HAND TURNING TOOL HOLDERS

CE847L	9", 10-K & 10"	3/8" x 1 3/16"	1/4" x 1/4"	1 lb.
CE846L	9", 10-K & 10"	3/8" x 7/8"	1/4" x 1/4"	2 lbs.
CE852L	13" & 14"	1/2" x 1 1/8"	5/16" x 5/16"	3 lbs.
CE853L	16"—16-24"	5/8" x 1 3/8"	3/8" x 3/8"	3 lbs.

CUTTING-OFF TOOL HOLDERS



Straight

Right-Hand

Left-Hand

Include tool holder, one cutter blade and wrench.

Catalog Number	Size Lathe	Size Shank	Size Cutter	Ship. Weight
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Straight Shank Cutting-off Tool Holders

CE833S	9", 10-K & 10"	3/8" x 1 3/16"	3/32" x .595"	1 lb.
CE736S	9", 10-K & 10"	5/16" x 1 3/16"	5/64" x .475"	2 lbs.
CE883S	13" & 14"	1/2" x 1 1/8"	1/8" x .735"	3 lbs.
CE884S	16"—16-24"	5/8" x 1 3/8"	1/8" x .870"	3 lbs.

Right-Hand Cutting-off Tool Holders

CE833R	9", 10-K & 10"	3/8" x 1 3/16"	3/32" x .595"	1 lb.
CE736R	9", 10-K & 10"	5/16" x 1 3/16"	5/64" x .475"	2 lbs.
CE883R	13" & 14"	1/2" x 1 1/8"	1/8" x .735"	3 lbs.
CE884R	16"—16-24"	5/8" x 1 3/8"	1/8" x .870"	3 lbs.

Left-Hand Cutting-off Tool Holders

CE736L	9", 10-K & 10"	5/16" x 1 3/16"	5/64" x .475"	2 lbs.
CE883L	13" & 14"	1/2" x 1 1/8"	1/8" x .735"	3 lbs.
CE884L	16"—16-24"	5/8" x 1 3/8"	1/8" x .870"	3 lbs.

BLADES FOR CUTTING-OFF TOOL HOLDERS



Made from high-speed steel, heat-treated, hardened, ground on the edges.

Cat. No.	Size of Blade	Ship. Wt.
CE876	3/32" x .595" x 5"	5 ozs.
CE1192	3/32" x .475" x 4 1/2"	5 ozs.
CE878	1/8" x .735" x 5"	6 ozs.
CE879	1/8" x .870" x 6"	8 ozs.

CARBIDE TURNING TOOL HOLDERS FOR LATHES 17" AND LARGER



Straight

Right-Hand

Left-Hand

Include tool holder with hardened steel set screw and a hardened, drop-forged steel wrench. Cutter bit not included.

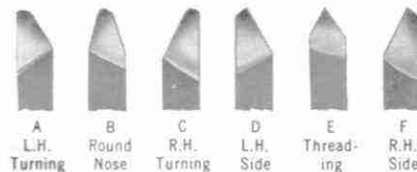
CE817S. Straight Carbide Turning Tool Holder. For 3/8" cutter bits. Shipping weight 3 lbs.

CE817R. Right-Hand Carbide Turning Tool Holder. For 3/8" cutter bits. Shipping weight 3 lbs.

CE817L. Left-Hand Carbide Turning Tool Holder. For 3/8" cutter bits. Shipping weight 3 lbs.

GROUND CUTTER BITS FOR TURNING TOOL HOLDERS

Finish ground and ready for use when mounted in tool holder. When ordering, be sure to specify the catalog numbers and the letters designating shapes of bits wanted.



A
L.H.
Turning

B
Round
Nose

C
R.H.
Turning

D
L.H.
Side

E
Thread-
ing

F
R.H.
Side

Size Square Inch	Length Cutter Inches	Single Bit		Set of 6 Bits	
		Cat. No.	Shpg. Wt.	Cat. No.	Ship. Wt.
1/4	2	CE1305	4 ozs.	CE1779	10 ozs.
5/16	2 1/2	CE1313	5 ozs.	CE1777	10 1/2 ozs.
3/8	3	CE1316	5 ozs.	CE1778	11 ozs.

UNGROUND CUTTER BITS

These cutter bits are made of good quality high-speed steel. They are heat-treated and hardened and are ready for use when sharpened.

UNGROUND HIGH SPEED STEEL CUTTER BITS

Catalog Number	Size Square	Length Cutter	Shipping Weight
CE3531	3/16"	1"	3 ozs.
CE3532	3/16"	1 1/2"	3 ozs.
CE3533	1/4"	2"	4 ozs.
CE3534	5/16"	2 1/2"	5 ozs.
CE3535	3/8"	3"	5 ozs.
CE3536	7/16"	3 1/2"	7 ozs.
CE3537	1/2"	4"	12 ozs.
CE3538	5/8"	4 3/8"	1 lb.

UNGROUND HIGH SPEED STEEL CUTTER BITS IN LOTS

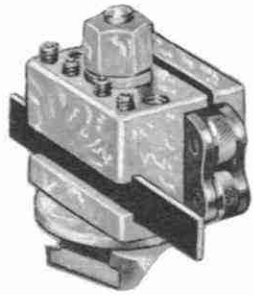
Size Square Inch	Length Cutter Inches	Lot of 6 Bits		Lot of 24 Bits	
		Cat. No.	Ship. Wt.	Cat. No.	Ship. Wt.
3/16	1			CE2370	1 lb.
3/16	1 1/2			CE2371	1 lb.
1/4	2	CE1629	10 ozs.	CE2372	2 lbs.
5/16	2 1/2	CE1632	10 1/2 ozs.	CE2373	3 lbs.
3/8	3	CE1633	11 ozs.	CE2374	4 lbs.



CUTTER BIT GRINDING BLOCKS

Just dial your angle and grind! These new cutter bit grinding blocks come complete with master block—4 bit holders— $\frac{3}{16}$ "¹, $\frac{1}{4}$ "², $\frac{5}{16}$ "³ and $\frac{3}{8}$ "⁴ capacity. Wrench included.

CE2168. Cutter Bit Grinding Block. Ship. wt. 3 lbs.



10 IN 1 TOOL HOLDERS

Provide rigid support and are equipped with self-aligning knurling heads having No. CE3151 medium diamond knurls. Screw adjustments for tool height are easily made, and they stay put. No readjustment is required when replacing tools. Cut off blade shown in illustration is not included.

Catalog Number	Size Lathe Inches	Holds Cutter Bits Inch	Holds Boring Bars Inch	Holds Cut-off Blades Inch	Ship. Wt. Lbs.
CE1413NK	9 & 10-K	$\frac{3}{8}$ x $\frac{3}{8}$	$\frac{3}{8}$ to $\frac{3}{4}$	$\frac{3}{32}$ x .595	5

GROUND CUTTER BITS FOR 10 IN 1 TOOL HOLDERS



For use in 10 in 1 tool holder listed above. Made in four shapes: T for turning, H for threading, R for facing on right side of work, and L for facing on left side of work. When ordering single bits be sure to specify shape wanted.

Size Square Inch	Length Cutter Inches	Single Bit		Set of 4 Bits	
		Cat. No.	Ship. Wt.	Cat. No.	Ship. Wt.
$\frac{3}{8}$	3	CE2267	5 ozs.	CE2776	1 lb.

COOLANT PUMP AND RESERVOIR FITTED TO 10", 13", 16" & 16-24"

Catalog Number	Lathe Size	Phase	Cycle	Voltage
CL501BR	10"	1	60	115
CL501BT	13"	1	60	115
CL501TT	14"	1	60	115
CL501BH	16"	1	60	115

EXTRA TOOL POSTS



Made of heat-treated steel. Price includes tool post assembly complete.

Catalog No.	Size Lathe	Shipping Weight
CE2450 NK	9" & 10K	2 lbs.
CE2450 R	10"	2 lbs.
CE2450 T	13" & 14"	3 lbs.
CE2450 H	16"	5 lbs.
CE2450 GJ	17"	6 lbs.



KNURLING TOOLS

Holder is made of drop-forged steel, heat-treated and hardened. Knurls are made of tool steel, hardened and tempered. Supplied with medium diamond knurls only.

Cat. No.	Size Lathe	Shank Size	Ship. Wt.
CE820	9", 10-K & 10"	$\frac{3}{8}$ " x $\frac{3}{4}$ "	2 lbs.
CE893	13" & 14"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	2 lbs.
CE894	16"—16-24", 17" & 20"	$\frac{5}{8}$ " x $1\frac{3}{8}$ "	3 lbs.



REVOLVING HEAD KNURLING TOOLS

Revolving head carries three sets of knurls for fine, medium and coarse diamond patterns.

Cat. No.	Size Lathe	Shank Size	Ship. Wt.
CE3615	9", 10-K & 10"	$\frac{3}{8}$ " x $\frac{7}{8}$ "	2 lbs.
CE3616	13" & 14"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	2 lbs.
CE3617	16"—16-24", 17" & 20"	$\frac{5}{8}$ " x $1\frac{3}{8}$ "	3 lbs.

EXTRA KNURLS FOR KNURLING TOOLS



For use with Knurling Tools and with 10 in 1 Tool Holder. Illustrations above show actual style of knurling produced. Supplied in pairs.

Catalog Number	Pattern	Size	Fits Knurling Tools	Ship. Wt.
CE3150†	Fine Diamond	$\frac{5}{8}$ " x $\frac{5}{16}$ "	CE820 & CE665	4 ozs.
CE3151†	Med. Diamond	$\frac{5}{8}$ " x $\frac{5}{16}$ "	CE820 & CE665	4 ozs.
CE3152†	Coarse Diamond	$\frac{5}{8}$ " x $\frac{5}{16}$ "	CE820 & CE665	4 ozs.
CE3153†	Fine Straight	$\frac{5}{8}$ " x $\frac{5}{16}$ "	CE820 & CE665	4 ozs.
CE3154†	Med. Straight	$\frac{5}{8}$ " x $\frac{5}{16}$ "	CE820 & CE665	4 ozs.
CE3155†	Coarse Straight	$\frac{5}{8}$ " x $\frac{5}{16}$ "	CE820 & CE665	4 ozs.
CE3156	Fine Diamond	$\frac{3}{4}$ " x $\frac{3}{8}$ "	CE893 & CE894	5 ozs.
CE3157	Med. Diamond	$\frac{3}{4}$ " x $\frac{3}{8}$ "	CE893 & CE894	5 ozs.
CE3158	Coarse Diamond	$\frac{3}{4}$ " x $\frac{3}{8}$ "	CE893 & CE894	5 ozs.
CE3159	Fine Straight	$\frac{3}{4}$ " x $\frac{3}{8}$ "	CE893 & CE894	5 ozs.
CE3160	Med. Straight	$\frac{3}{4}$ " x $\frac{3}{8}$ "	CE893 & CE894	5 ozs.
CE3161	Coarse Straight	$\frac{3}{4}$ " x $\frac{3}{8}$ "	CE893 & CE894	5 ozs.

†Fits all sizes of 10 in 1 Tool Holders.

WORK LIGHTS

When attached to the carriage the light travels with the cutting tool. With quick acting snap-on arrangement, light can be put into use or removed in seconds.

CE2815. Work Light for Lathe, including snap bolt for attaching to lathe bed. Shipping weight 5 lbs.

HEAVY DUTY BORING AND TURNING TOOLS



Holder takes bars from $\frac{3}{8}$ " up to capacity listed in tabulation. Tool may be swiveled to any angle and holder may be reversed for turning extra large diameters. Bar has slots for holding bit at 90° and 45°. Supplied either with or without boring bar.

Size Lathe	9" & 10-K	10"	13" & 14"	16" & 16-24"
Max. Bar Cap.	$\frac{3}{4}$ "	$\frac{3}{8}$ "	$1\frac{1}{4}$ "	$1\frac{1}{2}$ "
Size Boring Bar	$\frac{3}{4}$ " x 12"	$\frac{3}{4}$ " x 12"	1" x 16"	$1\frac{1}{8}$ " x 18"
Size Cutter Bit	$\frac{1}{4}$ " x $\frac{1}{4}$ "	$\frac{1}{4}$ " x $\frac{1}{4}$ "	$\frac{5}{16}$ " x $\frac{5}{16}$ "	$\frac{3}{8}$ " x $\frac{3}{8}$ "
Holder Only				
Cat. No.	CE3677NK	CE3677R	CE3677T	CE3677H
Ship. Wt. Lbs.	3	3	5	7
Holder and Bar				
Cat. No.	CE469NK	CE469R	CE469T	CE469H
Ship. Wt. Lbs.	8	8	14	18



STYLE "B" BORING TOOLS

Includes drop-forged steel boring tool holder with hardened steel set screws, sleeve bar, end cap, two wrenches and two unground high-speed steel cutter bits. Will take the following sizes of boring bars: No. **CE423**, $\frac{1}{8}$ " to $\frac{1}{2}$ "; No. **CE431**, $\frac{1}{4}$ " to $\frac{3}{4}$ "; No. **CE432**, $\frac{3}{8}$ " to 1".

Cat. No.	Size of Lathe	Size of Shank, Inches	Size Bar Inch	Size of Cutter, Inch	Ship. Wt. Lbs.
CE423	9", 10-K, & 10"	$\frac{5}{16}$ x $\frac{3}{4}$	$\frac{1}{2}$ x $7\frac{3}{8}$	$\frac{3}{16}$ x $\frac{3}{16}$	2
CE431	13" & 14"	$\frac{1}{2}$ x $1\frac{1}{8}$	$\frac{3}{4}$ x 11	$\frac{1}{4}$ x $\frac{1}{4}$	5
CE432	16", 16-24"	$\frac{3}{8}$ x $1\frac{3}{8}$	$1\frac{1}{16}$ x $13\frac{1}{4}$	$\frac{5}{16}$ x $\frac{5}{16}$	8



SOLID BORING BARS

For use with Style "B" and "D" Boring Tools and in the 10 in 1 Tool Holder. Can be ground for boring or internal thread cutting.

Cat. No.	Bar Inches	Ship. Wt.
CE3856	$\frac{1}{8}$ x 4	3 ozs.
CE3857	$\frac{3}{16}$ x $4\frac{1}{2}$	4 ozs.
CE3858	$\frac{1}{4}$ x 5	5 ozs.
CE3859	$\frac{5}{16}$ x 6	5 ozs.
CE3860	$\frac{3}{8}$ x 7	8 ozs.
CE3861	$\frac{7}{16}$ x 8	1 lb.



SLEEVE BORING BARS

For use with Style "B" and "D" Boring Tools, Heavy Duty Boring Tool and in the 10 in 1 Tool Holder. Sleeve can be adjusted to hold square high speed steel cutter bit at 45° and 90° angles for boring and inside thread cutting operations. Includes two cutter bits and wrench.

Cat. No.	Size of Bar	Size of Cutter Bit	Ship. Wt.
CE2419	$\frac{1}{2}$ " x $7\frac{3}{8}$ "	$\frac{3}{16}$ " x $\frac{3}{16}$ "	1 lb.
CE2420	$\frac{3}{4}$ " x 11"	$\frac{1}{4}$ " x $\frac{1}{4}$ "	2 lbs.
CE2421	$1\frac{5}{16}$ " x $13\frac{1}{4}$ "	$\frac{5}{16}$ " x $\frac{5}{16}$ "	4 lbs.



PLAIN BORING BARS

For use with 10 in 1 Tool Holder and other Boring Tool Holders. Bars will hold cutter bit at 45° and 90° angles. Includes cutter bit and wrench.

Cat. No.	Bar Size	Cutter Bit	Ship. Wt.
CE2943	$\frac{3}{4}$ " x 12"	$\frac{1}{4}$ " x $\frac{1}{4}$ "	3 lbs.
CE2944	1" x 16"	$\frac{5}{16}$ " x $\frac{5}{16}$ "	5 lbs.
CE2945	$1\frac{1}{8}$ " x 18"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	7 lbs.



PRECISION BORING BARS FOR CHUCK

Designed especially for boring holes in turret head with extreme precision. Can be used for any similar operation in which the work is mounted on the lathe carriage or turret and the boring bar is held in the lathe chuck.

CE3420. Precision Boring Bar for Chuck. Shipping weight 1 lb.



THREADING TOOLS

Includes threading tool holder, wrench and one high speed steel single point cutter. Choice of 60° cutter for U. S. Standard, V, or metric thread.

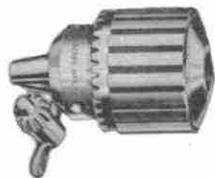
Cat. No.	Size of Lathe	Size of Shank	Ship. Wt.
CE845	9", 10-K & 10"	$\frac{3}{8}$ " x $\frac{3}{4}$ "	2 lbs.
CE867	13" & 14"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	3 lbs.
CE868	16"	$\frac{5}{8}$ " x $1\frac{3}{8}$ "	4 lbs.



EXTRA CUTTERS FOR THREADING TOOLS

Formed cutters properly heat-treated and ground, ready for use with Threading Tools described above. Made of high speed steel.

Catalog Number 60° Angle	Fits Thread Tools	Shipping Weight
CE3480	CE845 & CE648	3 ozs.
CE3481	CE867	4 ozs.
CE3482	CE868	5 ozs.



DRILL CHUCKS

Constructed so they will hold the drill securely and accurately. Jaws are tempered steel. Includes pinion key, but does not include arbor.

Catalog Number	Make of Chuck	Capacity of Chuck	Net Wt. Lbs.	Ship. Wt. Lbs.
CE1200	Jacobs	.0 to 3/8 in.	1 1/4	1 7/8
CE1201	Jacobs	0 to 1/2 in.	1 3/4	2 3/8
CE1202	Jacobs	3/16 to 3/4 in.	3 1/8	3 1/2
CE1206	Jacobs	3/8 to 1 in.	6 3/8	7 1/2

TAPER ARBOR FOR DRILL CHUCKS

Have short taper to fit chuck and Morse taper shank to fit taper of lathe headstock spindle or tailstock spindle.

For Catalog Number	No. 2 Morse Taper		No. 3 Morse Taper	
	Cat. No.	Ship. Wt.	Cat. No.	Ship. Wt.
CE1200	CE2300	3/8 lb.	CE2301	3/4 lb.
CE1201	CE2302	1/2 lb.	CE2303	7/8 lb.
CE1202	CE2304	1/2 lb.	CE2305	3/4 lb.
CE1206	CE2306	1 1/8 lb.	CE2307	1 1/2 lb.
CE1200			CE8002	1 1/2 lb.
CE1201			CE8003	1 1/2 lb.
CE1202			CE8004	1 1/2 lb.
CE1206			CE8005	1 1/2 lb.

SEMI-MACHINED DRILL CHUCK ARBORS

Have either straight or taper shanks for fitting drill chucks and other tools to lathe spindle or turret head. Must be machined to fit drill chuck or other tool.

Cat. No.	Shank	Ship. Wt.
CE1500	No. 2 Morse Taper	1 lb.
CE1501	No. 3 Morse Taper	2 lbs.
CE8001	No. 3 Morse Taper	2 lbs.

TAPER ARBORS FOR 17" LATHES

#4 MT. Has tang to be used with CE1206, drill chuck.

CE1217GJ, shipping weight 2 lbs.

CE1218GJ, same as above, but with #5 MT.



LATHE CENTERS

Description	No. 2 Morse Taper Shank		No. 3 Morse Taper Shank	
	Catalog Number	Ship. Wt.	Catalog Number	Ship. Wt.
A — 60° Center	CE2401	1 lb.	CE2402	2 lb.
B — 60° Carbide Center	CE1889	1 lb.	CE1890	2 lb.
A — 60° Center			CE8006	2 lb.
B — 60° Carbide Center			CE8008	2 lb.



BALL BEARING LIVE CENTERS

For high speeds and heavy roughing cuts. Available with a 60° external point or 60° hollow. Both are made with No. 2 and No. 3 Morse standard tapers.

Catalog Number	Style of Center	Morse Taper	Shipping Weight
CE3900	60° Point	No. 2	3 lbs.
CE3901	60° Point	No. 3	5 lbs.
CE3903	60° Hollow	No. 2	3 lbs.
CE3904	60° Hollow	No. 3	5 lbs.
CE3908	60° Point	No. 4	5 lbs.
CE3909	Extended Point	No. 4	5 lbs.
CE3910	60° Point	No. 5	10 lbs.
CE8011	60° Point	No. 3	5 lbs.



PIPE CENTERS

For mounting tubing, pipe, etc., between the lathe centers. Centers have accurately ground 90° cone, and revolve on steel shanks with plain bearings.

PIPE CENTERS

Catalog Number	Takes Pipe	Requires Shank	Shipping Weight
CE2160	1/2" to 3"	CE2172	4 lbs.
CE2161	3" to 5"	CE2174 or CE8015	6 lbs.

PIPE CENTER SHANKS

Catalog Number	Shank Taper	Takes Centers	Shipping Weight
CE2172	No. 2	CE2160 & CE2161	2 lbs.
CE2174	No. 3	CE2160 & CE2161	3 lbs.
CE8015	No. 3	CE2160 & CE2161	3 lbs.

BALL BEARING PIPE CENTERS

Fitted with large, double row ball bearings, these extra large precision centers provide rigid support for pipe and other large diameter work.



Catalog Number	Style of Center	Capacity	Morse Taper	Shipping Weight
CE2445	90° Point	7/32" to 3/8"	No. 2	9 lbs.
CE2446	90° Point	7/64" to 3/8"	No. 3	9 lbs.
CE2449	90° Point	3/16" to 8/16"	No. 3	20 lbs.
CE8012	90° Point	7/32" to 3/8"	No. 3	9 lbs.
CE8013	90° Hollow	7/16" to 3 1/16"	No. 3	12 lbs.



DIE HOLDER

Die holder has 1/2" hole, 3" deep for stock clearance.

Catalog Number	Takes Dies	Taper Shank	Shipping Weight
CE1829	1" Diameter	No. 2	2 lbs.
CE1838	1 1/2" Diameter	No. 2	2 lbs.

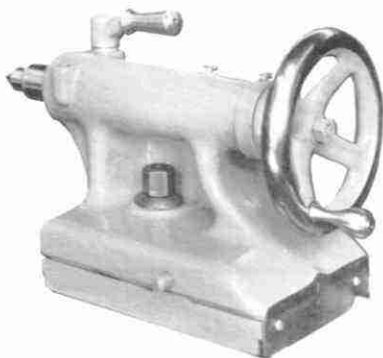
ORDER COMPLETE CHUCK AND TOOL ASSORTMENT

Several practical assortments of equipment are listed on this page. You can save time and money by purchasing one or more of these assortments rather than individual items. For use with threaded spindles only.

20-TOOL ASSORTMENT FOR 9" AND 10-K LATHES

Item	Cat. No.	Description
1	CL4906NK	6" Four-Jaw Independent Lathe Chuck, fitted.
2	CL3705NK	5" Three-Jaw Universal Lathe Chuck, fitted.
3		Jacob's Three-Jaw Drill Chuck, 1/2" capacity.
4		Taper Shank Arbor (No. 2 M.T.) fitted to Drill Chuck.
5	CE847S	Straight Shank Turning Tool Holder.
6	CE847R	Right-Hand Turning Tool Holder.
7	CE847L	Left-Hand Turning Tool Holder.
8	CE833R	Right-Hand Cutting-off Tool Holder.
9	CE833S	Straight Shank Cutting-off Tool Holder.
10	CE1779	Set (6) Ground Cutter Bits for Turning Tools.
11 12	CE1629	Two Sets (6) Unground Cutter Bits for Turning Tools.
14	CE423	Style "B" Boring Tool Holder.
15	CE3820	3/8" Lathe Dog.
16	CE3821	1/2" Lathe Dog.
17	CE3822	3/4" Lathe Dog.
18	CE3823	1" Lathe Dog.
19	CE3824	1 1/4" Lathe Dog.
20	CE3825	1 1/2" Lathe Dog.

CL2970NK. Shipping weight 52 lbs.



COMPLETE TAILSTOCK ASSEMBLIES

Standard set-over type tailstock can be supplied for replacement of lost or damaged units.

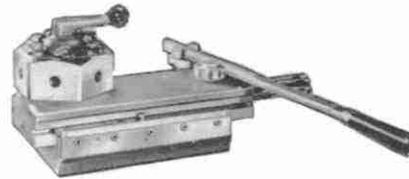
Catalog No.	Size Lathe	Shipping Weight
CL2036 K	10K	22 lbs.
CL2036 R	10"	42 lbs.
CL2036 T	13"	90 lbs.
CL2036 TT	14"	70 lbs.
CL2036 H	16"	133 lbs.
CL2036GJ	17"	150 lbs.



HARDENED TAPER TAILSTOCK SPINDLES

Can be supplied for 10" and larger South Bend Lathes. They are recommended for lathes that are to be used with taper shank tools in tailstock for drilling, reaming, and similar operations. If wanted in lieu of regular tailstock spindle, they must be specified when lathe is ordered.

Size Lathe	In Lieu of Regular Tailstock Spindle Catalog Number	As An Extra	
		Catalog Number	Ship. Wt.
10"	CL3870R	CL3875R	2 lbs.
13"	CL3870T	CL3875T	4 lbs.
14"	CL3870TT	CL3875TT	4 lbs.
16"—16-24"	CL3870H	CL3875H	7 lbs.



HANDLEVER BED TURRETS

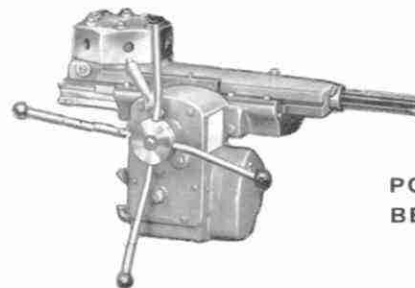
For 9", 10-K and 10" lathes. Can be locked into position at any point along the length of the bed. Indexes automatically. Each face of the turret has an independently adjustable feed stop screw which accurately regulates the length of the cut. Ram lock is provided.

Accurate indexing of the turret head is assured.

The effective feed of the turret slide is 4". Center of turret hole to top of turret slide 1 1/8". Takes standard turret tools with 5/8" diameter shank.* Distance between opposite flats on turret head is 4 7/8". When ordered separate from lathe, purchaser must assume responsibility of fitting and boring.

Catalog Number	Size Lathe	Shipping Weight
CL1611N	9"	76 lbs.
CL1611K	10-K	76 lbs.
CL1611R	10"	83 lbs.

*Can be supplied to order with 3/4" holes in turret face. No extra charge.



POWER FEED BED TURRETS

For 13" and 14" Lathes. Effective feed of slide is 6 1/2". Turret head revolves on a precision ball bearing and has six 1" diameter holes for tools. Locks automatically on the return stroke of the turret slide. Turret ram lock is provided. Clearance from center of tool hole to top of turret slide is 1 7/8".

Power feed turret has three feed changes in turret apron which, with gear box on lathe provide 144 feeds .0006" to .0193". Lever shift gears in turret apron provide quick selection of fast, intermediate or slow feeds. Direction of feed is reversed by changing gears in turret apron. When ordered separate from lathe, purchaser must assume responsibility of fitting and boring.

CL2620T. Power Feed Turnstile Bed Turret for 13" South Bend Lathe. Approx. ship. wt. 414 lbs.

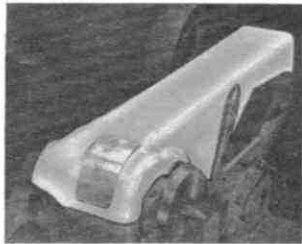
CL2620TT. Power Feed Turnstile Bed Turret for 14" South Bend Lathe. Approx. ship. wt. 414 lbs.



MOTOR BELT GUARDS

For 9" Lathes. They enclose the motor, motor V-belt, and countershaft drive of 9-inch Horizontal Motor Driven Bench Lathes.

CL2885. Motor Belt Guard for 9" Horizontal Motor Drive with 1/2 h.p. NEMA No. 56 frame motor. Ship. wt. 26 lbs.



FIBER GLASS BELT GUARDS

Cover the drive belt and cone pulleys on 9" and 10-K HMD Lathes.

CL2882NK. Belt Guard for 9" & 10-K HMD lathes. With instructions for installing.

FLAT BELTS

Recommended for use with South Bend Lathes. They withstand continual flexing without significant stretch or loss of efficiency. Skived on both ends. Cementing kit is included with each belt. Shipping weight each approx. 1/2 lb.

Type of Drive	Catalog No.	Type of Drive	Catalog No.
9" & 10-K HMD	CE3750N	13" 4-Step	CE3752T
10-K HMD*	CE3750K	13" 3-Step	CE3753T
9" UMD	CE3752N	16" 4-Step	CE3752H
10-K UMD	CE3752K	16" 3-Step	CE3753H
10" Met. Cab.	CE3753R	16-24" 4-Step	CE3752V
10" Floor	CE3752R	16-24" 3-Step	CE3753V

*Use only on 10-K HMD Codes HDV100/HDV104

BELT SPLICING KITS

For cold splicing skived ends of flat belts.

CE1789. Belt Splicing Kits.

BELT SPLICING CLAMPS



For gluing skived ends of cone pulley belts or other flat leather belts. Made of heavy steel plate with guide for aligning edges of belt ends.

Catalog Number	Maximum Size of Belt			Shipping Weight
	Width	Thickness	Skive Length	
CE1898	1 3/4"	1/2"	6 3/8"	4 lbs.
CE1899	3"	1/2"	6 3/8"	5 lbs.

SPLASH PANS

These are an essential addition to the oil tight chip pans for all lathes that are equipped with taper attachments.

SPLASH PANS FOR FLOOR LEG SOUTH BEND LATHES

Size Lathe	Splash Pans Catalog Number	Size Lathe	Splash Pans Catalog Number
14" x 40"	CL2061C	17", 20" x 8'	CL1763GJ
16-24" x 6'	CL2062C	17", 20" x 10'	CL1764GJ
16-24" x 8'	CL2062H	17", 20" x 12'	CL1765GJ
16-24" x 10'	CL2062H	17", 20" x 15'	CL1766GJ
16-24" x 12'	CL2062H		



MODERN CABINET STYLE BENCH

Designed especially for 9" and 10K lathes with horizontal motor drive.

The top is 25" x 60" x 1 3/4" thick. Cabinet legs are 16" wide by 21" deep and each

is provided with an adjustable steel shelf and door handle.

Bench is shipped unassembled in three units. Necessary hardware for assembling is included.

CE1731. Cabinet Style Bench 34" high with Hardwood Top. Shipping weight 216 lbs.

ANGLE STEEL BENCH



Heavy angle steel construction, 29 3/4" or 34" high with hardwood top 25" x 60" x 1 3/4" thick. For 9" and 10-K

Horizontal Motor Driven Bench Lathes, any bed length.

Bench is shipped knocked down with all necessary bolts for assembling.

CE1780. Steel Bench 29 3/4" high with wood top (less drawer). Shipping weight 124 lbs.

CE1849. Same as above but 34 3/16" high.

GRAY FINISH ENAMEL

For refinishing and touching up South Bend Lathes, Drill Presses, Shapers, and other machine tools. Cannot be shipped by parcel post.

Catalog Number	Size Can	Number of Cans	Ship. Wt.
CE3421	Pint	1	2 lbs.
CE3422	Quart	1	4 lbs.
CE3423	Gallon	1	12 lbs.

LUBRICATION

LUBRICATING OILS

Nothing is more important to the satisfactory operation and life of fine machinery than correct lubrication. The lubricating oils listed below have been thoroughly tested and are highly recommended. It is essential that the correct type of oil be used for the lathe spindle, lathe apron and shaper oil reservoirs and general lubrication. A supply of each kind of oil should be kept on hand and used as needed. The Saybolt viscosity of the various oils is indicated in seconds at 100°F.

GENERAL LUBRICATING OIL (SEE OIL CHART FOR INDIVIDUAL MACHINE)

Catalog Number	Viscosity	Quantity	Shipping Wt.
CE1603	240 500	1 quart	3 lbs.
CE1906	240 500	12 quarts	31 lbs.
CE2019	240 500	Gal. can	11 lbs.

OIL FOR SPINDLE BEARINGS OF SOUTH BEND LATHES (FOR OTHER COMPONENTS SEE OIL CHART FOR INDIVIDUAL MACHINES)

CE1600	100	1 quart	3 lbs.
CE1905	100	12 quarts	31 lbs.
CE2017	100	Gal. can	11 lbs.

OIL FOR LATHES AND SHAPERS (SEE OIL CHART FOR INDIVIDUAL MACHINES)

CE1602	150 240	1 quart	3 lbs.
CE1904	150 240	12 quarts	31 lbs.
CE2018	150 240	Gal. can	11 lbs.

"TEFLON" ALL-PURPOSE LUBRICANTS

CE1625. 1½ oz. tube "Teflon" Perfect All-Purpose Lube.

BED WAY LUBRICANTS

Specially refined lubricants of superior quality for bed ways and other flat bearing surfaces.

CE1671. Ship. wt. 3 lbs. Twelve ounce can.

HYDRAULIC OIL

For use in Power Quill Feed on Vertical Milling Machine. This Hydraulic Oil is also used in the headstock of the 17" Geared Head Lathe.

CE7053. 1 qt. can Hydraulic Oil.

CE7054. 1 gal. can Hydraulic Oil.



SOUTH BEND LATHE....

offers you a complete line of metalworking
PROFIT MAKERS... including

- Precision Lathes, 10" to 33"
- CNC Lathes
- Radial Drills
- Geared Head Column Drills
- Milling Machines
- Surface and Tool & Cutter Grinders
- Deka Drill® Automatic Multiple Spindle Drilling and Tapping Machines
- ~~Johnson~~ Mechanical Power Presses
- Rubber Roll Grinders
- Dynablast® Deburring and Deflashing Equipment

Why Do We Call Them *PROFIT MAKERS*?
Because our Users do! Need we say more?

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