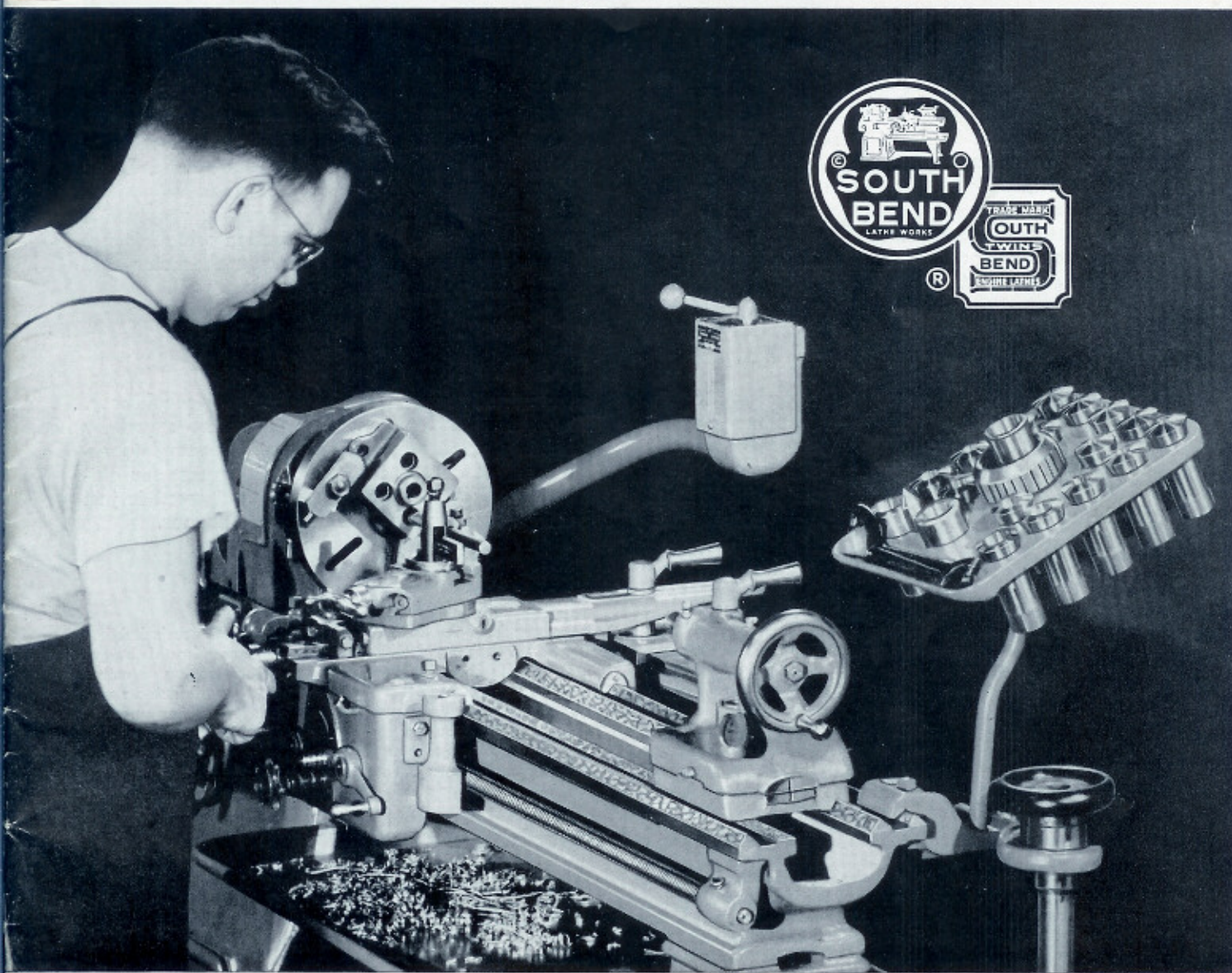


ATTACHMENTS AND ACCESSORIES
for
SOUTH BEND LATHES
DRILL PRESSES AND SHAPERS



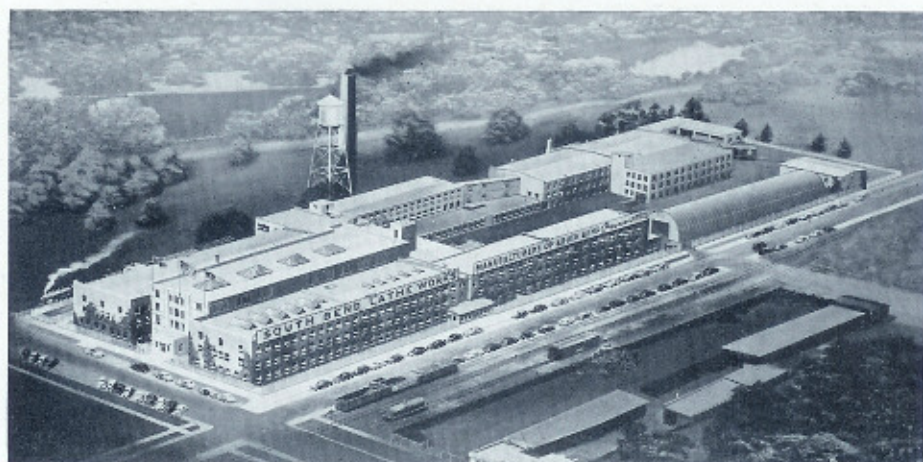
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SOUTH BEND LATHE WORKS

Building Better Tools Since 1906

425 E. MADISON ST., SOUTH BEND 22, IND., U.S.A.

Who is South Bend Lathe Works?



It is a machine tool company with offices and factory at South Bend, Indiana. Founded in 1906 and incorporated in 1914 it remained a closely held enterprise until its stock was listed in 1936 on one of the predecessor exchanges of the Midwest Stock Exchange, Chicago, where it is now listed. The South Bend Lathe Works is now owned by a diversified group of shareholders residing in all parts of the United States.

"South Bend" machine tools are used throughout the world. Such wide acceptance is the result of a long series of progressive developments to which the best efforts of the South Bend Lathe Works have been devoted for more than forty years. Thus every "South Bend" purchaser receives a product backed by an organization which is not only financially sound but strong in character, and rich in the machine tool tradition as well.

Attachments and Accessories for South Bend Machine Tools

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. This complete line of attachments and accessories enables South Bend machines to handle many operations which other-

wise might require special fixtures or machinery. Much time and expense can often be saved by selecting appropriate equipment. A complete assortment of chucks and tools is essential for efficient lathe operation. Complete equipment is just as important for the drill press and shaper.

Guarantee

The South Bend Lathe Works warrants its products to conform to or excel the specifications set forth in the manufacturer's 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. The South Bend Lathe Works warrants products of its own factory against defects of material or workmanship for a period of

one year from the date of sale. The manufacturer's liability 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 the manufacturer will not be responsible for transportation charges or consequential damages. The South Bend Lathe Works makes no warranty with respect to electrical equipment or other Purchased Extras described in the manufacturer's catalogs.

How to Order Attachments

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. When ordering attachments for a South Bend 14"

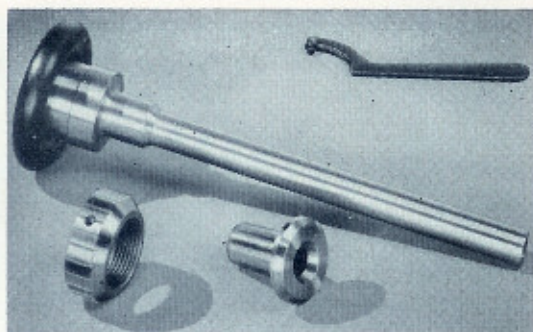
Drill Press, state the model number which will be found on the switch plate attached to the left side of the drill press head. When ordering attachments for the South Bend 7" Shaper, give the model number which is stamped on the left side of the column near the base.



SOUTH BEND LATHE WORKS

Building Better Tools Since 1906

425 E. MADISON ST., SOUTH BEND 22, INDIANA, U. S. A.

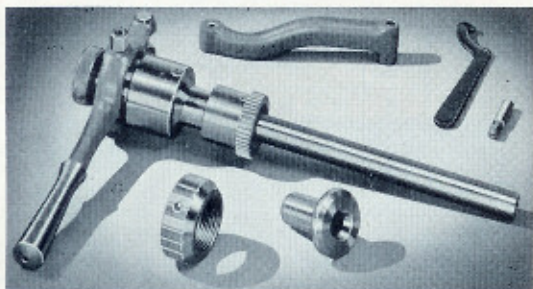


Handwheel Collet Attachment

This attachment will save you time and trouble in mounting small work in the lathe. It is used for chucking small parts, for production, toolroom, and maintenance operations, especially when extremely accurate centering is required.

Bar and tube stock can be fed through the hollow draw bar which operates the collet. When the handwheel is tightened, the collet automatically grips and centers the work. Equipment includes steel draw-bar with handwheel, spindle nose cap, spanner wrench, and heat-treated steel closing sleeve. Collets are not included. See page 4.

Catalog Number	Size of Lathe	Collet Used	Max. Collet Cap.	Shipping Weight
CL4306N	9" and Series 900	No. 3	$\frac{1}{2}$ "	5 lbs.
CL4306K	Light Ten	No. 6K	$\frac{5}{8}$ "	5 lbs.
CL4306R	10"-11 $\frac{1}{2}$ " Collet	No. 2	$\frac{11}{16}$ "	8 lbs.
CL4306L	10"-1" Col. & Ser. 1000	No. 5	1"	10 lbs.
CL4306Q	13"-1" Collet	No. 5	1"	14 lbs.
CL4306M	14 $\frac{1}{2}$ "-1" Collet	No. 5	1"	14 lbs.
CL4306H	16", 16-24", & 2-H	No. 5	1"	15 lbs.

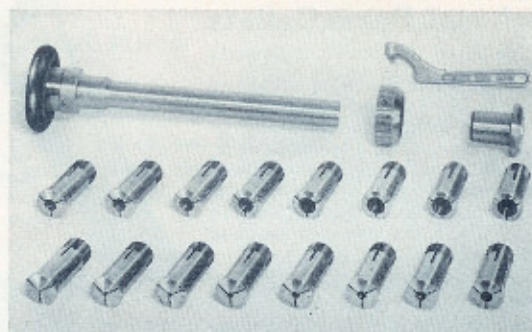


Handlever Collet Attachment

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. The gripping action of the collet is adjustable and can be set for any desired tension. For maximum production on bar stock use this attachment with the Pneumatic Bar Feed shown on page 12.

Equipment includes adjustable chuck closing mechanism and hollow draw-bar, spindle nose cap, spanner wrench for nose cap and heat-treated steel closing sleeve. Collets are not included. See page 4. This attachment should be ordered with the lathe so that it can be properly fitted to the lathe and tested before it is shipped from the factory.

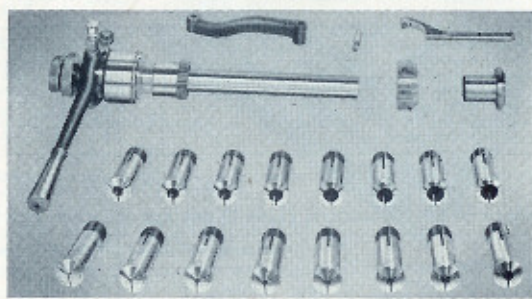
Catalog Number	Size of Lathe	Collet Used	Max. Collet Cap.	Shipping Weight
CL5206N	9" and Series 900	No. 3	$\frac{1}{2}$ "	10 lbs.
CL5206K	Light Ten	No. 6K	$\frac{5}{8}$ "	10 lbs.
CL5206R	10"-11 $\frac{1}{2}$ " Collet	No. 2	$\frac{11}{16}$ "	19 lbs.
CL5206L	10"-1" Col. & Ser. 1000	No. 5	1"	20 lbs.
CL5206Q	13"-1" Collet	No. 5	1"	25 lbs.
CL5206M	14 $\frac{1}{2}$ "-1" Collet	No. 5	1"	31 lbs.
CL5206H	16", 16-24", & 2-H	No. 5	1"	32 lbs.



Handwheel Collet Attachment Complete With Collets

You can save time and money by ordering your collet attachment complete with collets as listed below. Price includes Handwheel Collet Attachment with complete set of steel collets in sixteenths, in sizes from $\frac{1}{16}$ " capacity up to the maximum capacity shown in table. Each collet packed in individual plastic case. Additional collet sets in 32nds and 64ths may be selected from page 4.

Catalog Number	Size of Lathe	Number of Collets	Max. Collet Cap.	Shipping Weight
CL5415N	9" and Series 900	8	$\frac{1}{2}$ "	9 lbs.
CL5415K	Light Ten	10	$\frac{5}{8}$ "	10 lbs.
CL5415R	10"-11 $\frac{1}{2}$ " Collet	11	$\frac{11}{16}$ "	24 lbs.
CL5415L	10"-1" Col. & Ser. 1000	16	1"	28 lbs.
CL5415Q	13"-1" Collet	16	1"	33 lbs.
CL5415M	14 $\frac{1}{2}$ "-1" Collet	16	1"	35 lbs.
CL5415H	16", 16-24", & 2-H	16	1"	35 lbs.



Handlever Collet Attachment Complete With Collets

To be complete, your collet equipment should include a set of collets in sixteenths. Delay caused by waiting for a missing collet size can be more costly than the complete equipment. Price includes handlever collet attachment with a complete set of steel collets in sixteenths, in sizes from $\frac{1}{16}$ " capacity up to the maximum capacity shown in table. Each collet packed in individual plastic case. Additional collet sets in 32nds and 64ths may be selected from page 4. Also collets for square and hexagonal work.

Catalog Number	Size of Lathe	Number of Collets	Max. Collet Cap.	Shipping Weight
CL5416N	9" and Series 900	8	$\frac{1}{2}$ "	14 lbs.
CL5416K	Light Ten	10	$\frac{5}{8}$ "	15 lbs.
CL5416R	10"-11 $\frac{1}{2}$ " Collet	11	$\frac{11}{16}$ "	29 lbs.
CL5416L	10"-1" Col. & Ser. 1000	16	1"	35 lbs.
CL5416Q	13"-1" Collet	16	1"	44 lbs.
CL5416M	14 $\frac{1}{2}$ "-1" Collet	16	1"	51 lbs.
CL5416H	16", 16-24", & 2-H	16	1"	52 lbs.

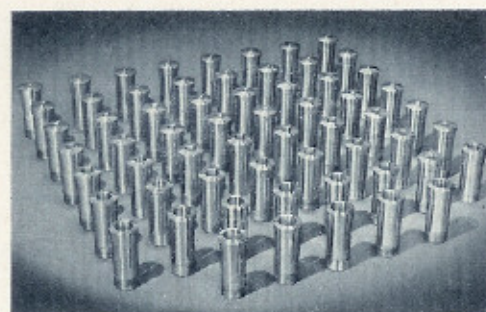
Steel and Brass Collets

For Use With Collet Attachments

South Bend Collets, manufactured with the same exacting care as South Bend Lathes, deliver long, dependable service on precision work. Each collet is carefully inspected and tested, and packed in a substantial plastic box with transparent lid through which the size can be read for easy selection.

Steel Collets are carefully heat-treated for maximum service and are precision ground to exceedingly close tolerances for size and concentricity.

Brass Collets, a South Bend innovation, have many practical applications. Their low cost makes them desirable for odd sizes or short run jobs. They give good service and can be readily machined on the job for holding tapered or irregular shapes. When worn, they can be rebored to larger diameters.



Collets in Sets

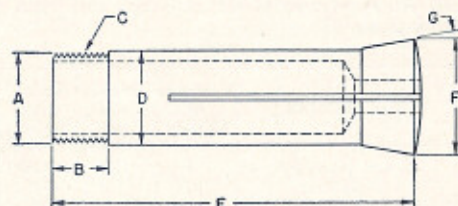
Collets for South Bend Lathes can be supplied in sets as listed in the tabulation below. A complete set of collets is especially helpful for toolroom and maintenance work. Often the time saved in getting out a single rush job without having to wait for a collet to come from the factory will more than compensate for the cost of a full set of collets. Each collet is individually packed in a plastic box with transparent lid.

Steel Collets in Sets

Collet No.	Catalog No.	Collets in Set	Size of Collets	Ship. Wt.
3	CE2047	8	$\frac{1}{8}$ " to $\frac{1}{4}$ " in 16ths	3 lbs.
	CE2476	7	$\frac{3}{8}$ " to $\frac{1}{2}$ " in odd 32nds	3 lbs.
	CE2477	14	$\frac{5}{8}$ " to $\frac{3}{4}$ " in odd 64ths	6 lbs.
6K	CE2441	10	$\frac{1}{8}$ " to $\frac{3}{8}$ " in 16ths	7 lbs.
	CE2442	9	$\frac{3}{8}$ " to $\frac{1}{2}$ " in odd 32nds	7 lbs.
	CE2443	18	$\frac{5}{8}$ " to $\frac{3}{4}$ " in odd 64ths	12 lbs.
2	CE2432	11	$\frac{1}{8}$ " to $\frac{1}{4}$ " in 16ths	6 lbs.
	CE2478	10	$\frac{3}{8}$ " to $\frac{1}{2}$ " in odd 32nds	6 lbs.
	CE2479	20	$\frac{5}{8}$ " to $\frac{3}{4}$ " in odd 64ths	12 lbs.
5	CE2435	16	$\frac{1}{8}$ " to 1 " in 16ths	11 lbs.
	CE2482	15	$\frac{3}{8}$ " to $\frac{1}{2}$ " in odd 32nds	11 lbs.
	CE2483	30	$\frac{5}{8}$ " to $\frac{3}{4}$ " in odd 64ths	20 lbs.

Brass Collets in Sets

Collet No.	Catalog No.	Collets in Set	Size of Collets	Ship. Wt.
3	CE2235	8	$\frac{1}{8}$ " to $\frac{1}{4}$ " in 16ths	3 lbs.
	CE2534	7	$\frac{3}{8}$ " to $\frac{1}{2}$ " in odd 32nds	3 lbs.
	CE2535	14	$\frac{5}{8}$ " to $\frac{3}{4}$ " in odd 64ths	6 lbs.
6K	CE2485	10	$\frac{1}{8}$ " to $\frac{3}{8}$ " in 16ths	7 lbs.
	CE2486	9	$\frac{3}{8}$ " to $\frac{1}{2}$ " in odd 32nds	7 lbs.
	CE2487	18	$\frac{5}{8}$ " to $\frac{3}{4}$ " in odd 64ths	12 lbs.
2	CE2238	11	$\frac{1}{8}$ " to $\frac{1}{4}$ " in 16ths	6 lbs.
	CE2536	10	$\frac{3}{8}$ " to $\frac{1}{2}$ " in odd 32nds	6 lbs.
	CE2537	20	$\frac{5}{8}$ " to $\frac{3}{4}$ " in odd 64ths	12 lbs.
5	CE2241	16	$\frac{1}{8}$ " to 1 " in 16ths	11 lbs.
	CE2540	15	$\frac{3}{8}$ " to $\frac{1}{2}$ " in odd 32nds	11 lbs.
	CE2541	30	$\frac{5}{8}$ " to $\frac{3}{4}$ " in odd 64ths	20 lbs.



Specifications of Collets for South Bend Lathes

Collet No.	3	6K	2	5
Sizes of Lathes Used on*	9" & Series 900	Light Ten	10"-11 1/2" Collet	10"-1" Col. 13", 14 1/2", 16", 16-24", & 2H
A, Thread Diameter, in.	.645	.770	.850	1.245
B, Thread Length, in.	3/4	3/4	3/4	3/4
C, Threads per in.	26	26	20	20
D, Body Diameter, in.	.6495	.8425	.8595	1.2495
E, Collet Length, in.	2 1/16	.34	3 3/8	3 3/8
F, Head Diameter, in.	.852	1.160	1.095	1.452
G, Angle of Head, deg.	12	15	15	10

*Collets can also be used on any other lathe or machine which they will fit.

Collets With Standard Hole Sizes for Round Work

Collet No.	Collet Capacity in 64ths for Round Work	Ship. Wt.	Brass Collets		Steel Collets	
			Cat. No.		Cat. No.	
3	$\frac{1}{8}$ " to $\frac{1}{4}$ "	6 ozs.	CE2825		CE2830	
6K	$\frac{1}{8}$ " to $\frac{3}{8}$ "	8 ozs.	CE2826		CE2831	
2	$\frac{1}{8}$ " to $\frac{1}{2}$ "	8 ozs.	CE2827		CE2832	
5	$\frac{1}{8}$ " to 1 "	1 lb.	CE2828		CE2833	

Collets With Decimal Hole Sizes for Round Work

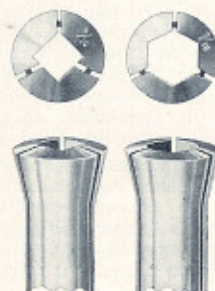
Collet No.	Collet Capacity for Round Work	Ship. Wt.	Brass Collets		Steel Collets	
			Cat. No.		Cat. No.	
3	.0625" to .500"	6 ozs.	CE2835		CE2841	
6K	.0625" to .625"	8 ozs.	CE2836		CE2842	
2	.0625" to .6875"	8 ozs.	CE2837		CE2843	
5	.0625" to 1.000"	1 lb.	CE2838		CE2844	

Collets With Metric Hole Sizes for Round Work

Collet No.	Collet Capacity in 0.5 mm Steps for Round Work	Ship. Wt.	Brass Collets		Steel Collets	
			Cat. No.		Cat. No.	
3	1.5 mm to 12.5 mm	6 ozs.	CE2850		CE2855	
6K	1.5 mm to 15.5 mm	8 ozs.	CE2851		CE2856	
2	1.5 mm to 17.0 mm	8 ozs.	CE2852		CE2857	
5	1.5 mm to 25.0 mm	1 lb.	CE2853		CE2858	

Collets for Square and Hexagon Work

Collets for holding square and hexagon stock can be supplied to order, as listed below. These collets are made of steel, and are properly heat-treated for long service. Collets are made in sixty-fourths, from $\frac{1}{8}$ " across flats up to maximum capacity shown in table.



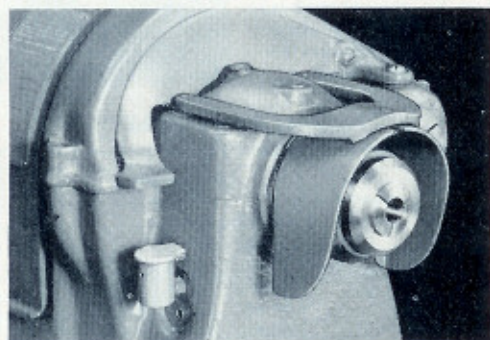
Collet No.	Shipping Weight	Collets for Square Work		Collets for Hexagon Work	
		Catalog No.	Max. Cap.	Catalog No.	Max. Cap.
3	6 ozs.	CE2176	$\frac{11}{32}$ "	CE2181	$\frac{7}{16}$ "
2	8 ozs.	CE2177	$\frac{15}{32}$ "	CE2182	$\frac{15}{32}$ "
5	1 lb.	CE2178	$\frac{25}{32}$ "	CE2183	$\frac{7}{8}$ "



Protect Your Collets With These Plastic Boxes

Collets will retain their accuracy indefinitely if protected from accidental damage, dirt, abrasive dust, and corrosion. Keep each collet in one of these substantial plastic boxes with time-saving transparent lid through which the collet size can easily be read. Boxes are square and can be stacked neatly on shelf as shown in illustration. Fitted with fibre lining tubes, any size of South Bend Collet will fit snugly into box. Can also be used for other makes not larger than No. 5 South Bend. See diagram on page 4. These boxes are $1\frac{1}{4}'' \times 2\frac{3}{4}''$ on inside and are ideal for keeping small tools and parts of all kinds.

Cat. No.	Description	Ship. Wt.
CE2190	One Collet Box	1 lb.
CE2191	Lot of 10 Collet Boxes	3 lbs.
CE2192	Lot of 20 Collet Boxes	5 lbs.
CE2193	Lot of 50 Collet Boxes	14 lbs.



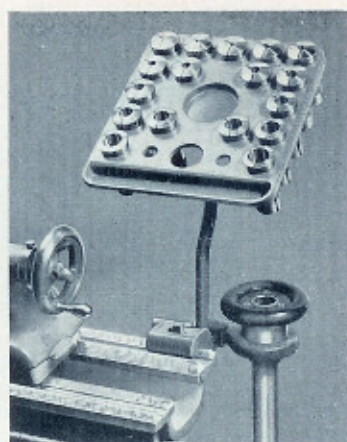
Collet Splash Guard

To prevent chips or coolant from flying off of lathe spindle, the collet splash guard is attached to the lathe headstock as shown above. Guard hooks into socket head cap screws and fits snugly around spindle nose and collet, but does not interfere with use of collet attachment. All lathes fitted with both collet attachment and coolant equipment should also be equipped with one of these guards.

Cat. No.	Size and Type of Lathe	Ship. Wt.
CL5223NK	9", Light Ten & Ser. 900 U.M.D.	2 lbs.
CL5200N	9" Horizontal M.D.	2 lbs.
CL5200K	Light Ten H.M.D.	2 lbs.
CL5223R	10" & Ser. 1000 U.M.D.	2 lbs.
CL5223T	13" Underneath M.D.	2 lbs.
CL5223F	14 1/2" Underneath M.D.	3 lbs.
CL5223H	16", 16-24", & 2-H U.M.D.	3 lbs.

Collet Rack

This collet rack provides a convenient place for keeping collets, centers, spindle sleeve, and draw-bar. Tray along lower edge of collet rack is provided for holding spanner wrench. Clamp for attaching to back V-way of lathe bed is supplied. Price does not include collets or collet attachment.



Collet Racks for South Bend Lathes

Catalog Number	Size of Lathe	Rack Holds	Ship. Wt.
CE1770N	9" and Series 900	19 Collets	9 lbs.
CE1770K	Light Ten	17 Collets	10 lbs.
CE1770R	10" 1 1/2" Collet	17 Collets	10 lbs.
CE1770L	10" 1" Collet & Series 1000	17 Collets	10 lbs.
CE1770Q	13" 1" Collet	17 Collets	12 lbs.
CE1770M	14 1/2" 1" Collet	17 Collets	14 lbs.
CE1770H	16", 16-24", and No. 2-H	17 Collets	15 lbs.

Collet Chest

for 9"
Lathe
Only

Protects
Collets
from
Damage



For Holding Collets and Collet Attachment

This is a well-constructed wooden chest for holding the handwheel collet attachment and up to 29 collets for a 9-inch South Bend Lathe. Hinged lid protects the collets and collet attachment from dust and dirt when not in use. Price does not include collet attachment or collets.

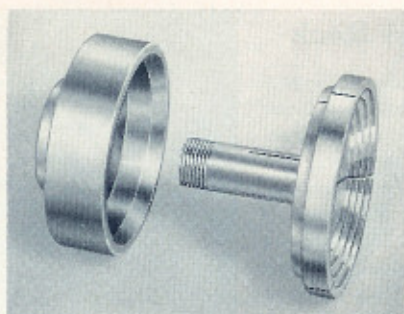
Cat. No. CE2225. Shipping weight 7 lbs.

Special Combination Sets

Collet Chest With Collet Attachment and Collets

The Collet Chest illustrated and described above can be supplied fitted with the handwheel type collet attachment for the 9-inch South Bend Lathe and various assortments of steel or brass collets. Space is provided for a full set of 29 collets, regardless of the number of collets included in the price of each of the smaller assortments. This permits adding collets as desired, until a full set is acquired.

Cat. No.	Description
CE2220	Collet chest, 9" handwheel collet attachment, 29 steel collets for round work, 1/8" to 1/2" in 64ths. Shipping weight 14 lbs.
CE2228	Collet chest, 9" handwheel collet attachment, 8 steel collets for round work, 1/8" to 1/2" in 16ths. Shipping weight 12 lbs.
CE2290	Collet chest, 9" handwheel collet attachment, 29 brass collets for round work, 1/8" to 1/2" in 64ths. Shipping weight 14 lbs.
CE2293	Collet chest, 9" handwheel collet attachment, 8 brass collets for round work 1/8" to 1/2" in 16ths. Shipping weight 12 lbs.



Step Chuck Equipment

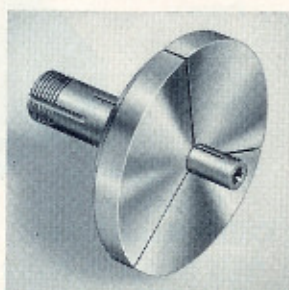
Step Chucks are used with either the handwheel type or the handlever type draw-in chuck attachment for holding discs, gear blanks, and similar round work. The construction of the step chuck is similar to that of the collet, except that it is designed for holding larger diameters. A closer screws onto the threaded end of the lathe spindle nose and the step chuck screws into the threaded hole in the draw bar of the draw-in collet chuck attachment. As the step chuck is drawn back into the closer by the draw-bar of the collet attachment, the three jaws of the step chuck are tightened on the work by the taper inside the step chuck closer.

The work is rigidly supported and can be chucked quickly and accurately. The large gripping surface prevents distortion of thin walled parts such as tubing, and also prevents marring the work. Locating pins may be placed in the step chuck closer, and clearance hole drilled through the step chuck, to position work so that it can be accurately machined to a predetermined length.

Step Chuck Blanks

Extreme precision can be attained by mounting a step chuck blank in the closer of the lathe on which it is to be used, and machining either multiple steps or a single cavity to receive the work. The cavity obviously will run dead true, and should chuck the work to be machined with perfect concentricity.

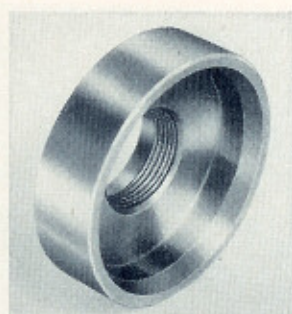
Step chuck blanks are made in various sizes having a maximum capacity of 2", 3", 4", 5", and 6" respectively. The 2" size fits directly into the collet sleeve and does not require a closer, but all other sizes must be used with a closer of required size. See upper table in right hand column.



Step Chuck Blanks

Catalog Number	Nominal Size	Size Lathe	Max. Cap.	Shipping Weight
CE5916*	2"	9" and Series 900	2"	2 lbs.
CE5917	3"		3"	3 lbs.
CE5918	4"		4"	5 lbs.
CE5919	5"		5"	8 lbs.
CE5920	6"		6"	12 lbs.
CE5936*	2"	Light Ten	2"	3 lbs.
CE5937	3"		3"	4 lbs.
CE5938	4"		4"	6 lbs.
CE5939	5"		5"	8 lbs.
CE5940	6"		6"	12 lbs.
CE5921*	2"	10"-11 1/2" Collet	2"	4 lbs.
CE5922	3"		3"	4 lbs.
CE5923	4"		4"	5 lbs.
CE5924	5"		5"	9 lbs.
CE5925	6"		6"	13 lbs.
CE5926*	2"	10", Series 1000, 13", 14 1/2", 16", 16-24", & 2-H	2"	4 lbs.
CE5927	3"		3"	4 lbs.
CE5928	4"		4"	5 lbs.
CE5929	5"		5"	9 lbs.
CE5930	6"		6"	13 lbs.

*This step chuck fits directly into collet sleeve and does not require a closer.



Closers for Step Chucks

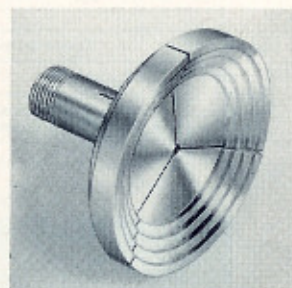
A closer is required for each size of step chuck, with the exception of the 2" size which fits directly into the collet sleeve included in the equipment of the collet attachment. Step chuck closers are made of cast iron or steel, and are threaded to fit the spindle nose of the lathe.

Step Chuck Closers

Catalog Number	Size Lathe	Takes Step Chuck Sizes	Shipping Weight
CL6309NK CL6311NK	9", Light Ten, & Series 900	3" and 4" 5" and 6"	3 lbs. 5 lbs.
CL6309R CL6311R	10"-11 1/2" Collet	3" and 4" 5" and 6"	4 lbs. 5 lbs.
CL6309LQ CL6311LQ	10", Series 1000 & 13"-1" Collet	3" and 4" 5" and 6"	4 lbs. 6 lbs.
CL6309MH CL6311MH	14 1/2", 16", 16-24", & 2-H	3" and 4" 5" and 6"	5 lbs. 7 lbs.

Finished Step Chucks

Finished step chucks are the same as the step chuck blanks listed at left, except that the steps are finished to the diameters indicated in table below. Steps are 1/16" deep, and may be remachined as required to any larger diameter up to the maximum capacity of the step chuck.

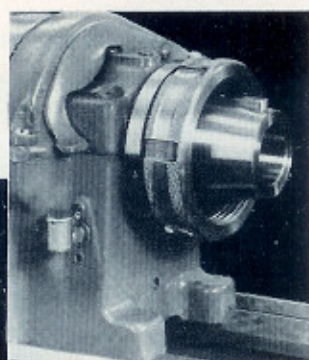


Finished Step Chucks

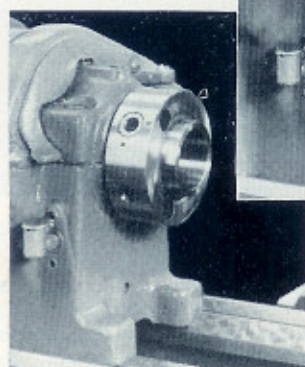
Cat. No.	Nominal Size	Size Lathe	Diameters of Steps	Ship. Wt. Lbs.
CE5960*	2"	9" & Series 900	2", 1 3/4", 1 1/2", 1"	2 lbs.
CE5961	3"		3", 2 3/4", 2 1/2", 2 1/4", 2", 1 1/2"	3 lbs.
CE5962	4"		4", 3 1/2", 3 1/4", 3", 2 3/4", 2 1/2"	5 lbs.
CE5963	5"		5", 4 1/2", 4", 3 1/2", 3 1/4", 3"	8 lbs.
CE5964	6"		6", 5 1/2", 5", 4 1/2", 4 1/4", 4"	12 lbs.
CE5965*	2"	Light Ten	2", 1 3/4", 1 1/2", 1"	3 lbs.
CE5966	3"		3", 2 3/4", 2 1/2", 2 1/4", 2", 1 1/2"	4 lbs.
CE5967	4"		4", 3 1/2", 3 1/4", 3", 2 3/4", 2 1/2"	6 lbs.
CE5968	5"		5", 4 1/2", 4", 3 1/2", 3 1/4", 3"	8 lbs.
CE5969	6"		6", 5 1/2", 5", 4 1/2", 4 1/4", 4"	12 lbs.
CE5970*	2"	10"-11 1/2" Col.	2", 1 3/4", 1 1/2", 1"	4 lbs.
CE5971	3"		3", 2 3/4", 2 1/2", 2 1/4", 2", 1 1/2"	4 lbs.
CE5972	4"		4", 3 1/2", 3 1/4", 3", 2 3/4", 2 1/2"	5 lbs.
CE5973	5"		5", 4 1/2", 4", 3 1/2", 3 1/4", 3"	9 lbs.
CE5974	6"		6", 5 1/2", 5", 4 1/2", 4 1/4", 4"	13 lbs.
CE5975*	2"	Series 1000, 10", 13", 14 1/2", 16", 16-24", & 2-H—1" Col.	2", 1 3/4", 1 1/2", 1"	4 lbs.
CE5976	3"		3", 2 3/4", 2 1/2", 2 1/4", 2", 1 1/2"	4 lbs.
CE5977	4"		4", 3 1/2", 3 1/4", 3", 2 3/4", 2 1/2"	5 lbs.
CE5978	5"		5", 4 1/2", 4", 3 1/2", 3 1/4", 3"	9 lbs.
CE5979	6"		6", 5 1/2", 5", 4 1/2", 4 1/4", 4"	13 lbs.

*This step chuck fits directly into collet sleeve and does not require a closer.

Right—Type L Long Taper Key Drive Spindle Nose.



Left—Type D1 Cam Lock Spindle Nose.



Type L and Type D1 Spindles for South Bend Lathes

All South Bend Lathes, 10"-1" Collet and larger, can be supplied with Type L Long Taper Key Drive Spindles, or Type D1 Cam Lock Spindles in lieu of the regular threaded spindles at extra cost. Price includes fitting large and small face plates which are supplied with the lathe, but does not include fitting chucks, draw-in collet attachments, or other accessories.

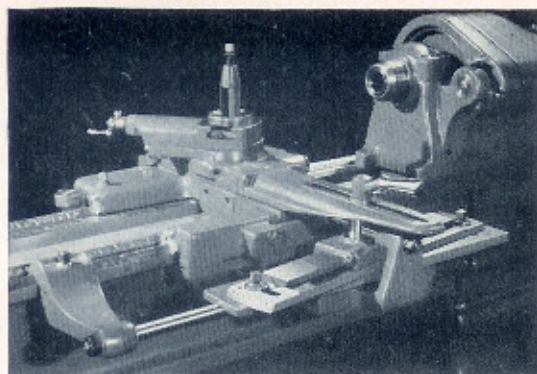
Size of Lathe	Long Taper Key Drive Spindle Nose In Lieu of Regular Threaded Spindle Nose		Cam Lock Spindle Nose In Lieu of Regular Threaded Spindle Nose	
	Cat. No.	Size	Cat. No.	Size
10"-1" C. & Ser. 1000	CA8050L	00	CB8050L	4"
13"-1" Collet	CA8050T	00	CB8050T	4"
14 1/2"-1" Collet	CA8050F	00	CB8050F	4"
16", 16-24", & 2-H	CA8050H	00	CB8050H	4"

Accessories for Lathes With Type L Long Taper Key Drive Spindles

Description	For 10" Lathe		For 13" Lathe		For 14 1/2" Lathe		For 16", 16-24", 2-H	
	Catalog Number		Catalog Number		Catalog Number		Catalog Number	
Handwheel Collet Attachment.....	CA4306L		CA4306T		CA4306F		CA4306H	
Handlever Collet Attachment.....	CA5206L		CA5206T		CA5206F		CA5206H	
Closer for Step Chucks 3" and 4" maximum capacity.....	CA6309LH		CA6309LH		CA6309LH		CA6309LH	
Closer for Step Chucks 5" and 6" maximum capacity.....	CA6311LH		CA6311LH		CA6311LH		CA6311LH	
Small Face Plate.....	CA2175L		CA2175T		CA2175FH		CA2175FH	
Large Face Plate.....	CA2180L		CA2180T		CA2180FH		CA2180FH	
Fixture Plate.....	CA46LT		CA46LT		CA46FH		CA46FH	
6" 4-Jaw Independent Chuck.....	CA4006		CA4206					
6" 4-Jaw Independent Chuck.....	CA4206		CA4207		CA4207		CA4207	
7 1/2" 4-Jaw Independent Chuck.....	CA4207		CA4209		CA4209		CA4209	
9" 4-Jaw Independent Chuck.....					CA4210		CA4210	
10" 4-Jaw Independent Chuck.....							CA4212	
12" 4-Jaw Independent Chuck.....								
5" 3-Jaw Universal Chuck with one set of reversible jaws.....	CA6005		CA6005					
5" 3-Jaw Universal Chuck with two sets of jaws—one pinion.....	CA3005		CA3005		CA3505		CA3505	
5" 3-Jaw Universal Chuck with two sets of jaws—three pinions.....	CA3505		CA6506		CA6506		CA6506	
6" 3-Jaw Universal Chuck with one set of reversible jaws.....	CA6506		CA3506		CA3506		CA3506	
6" 3-Jaw Universal Chuck with two sets of jaws.....	CA3506		CA3507		CA3507		CA3507	
7 1/2" 3-Jaw Universal Chuck with two sets of jaws.....					CA3509		CA3509	
9" 3-Jaw Universal Chuck with two sets of jaws.....					CA2935		CA2935	
Chuck Plate fitted to chuck.....	CA2935		CA2704RH		CA2704RH		CA2704RH	
Semi-Machined Chuck Plate—5".....	CA2704RH		CA2707RH		CA2707RH		CA2707RH	
Semi-Machined Chuck Plate—6 1/4".....	CA2707RH		CA2709RH		CA2709RH		CA2709RH	
Semi-Machined Chuck Plate—9".....	CA2709RH		CA5223L		CA5223F		CA5223H	
Collet Splash Guard.....	CA5223L		CA5223T					

Accessories for Lathes With Type D1 Cam Lock Spindles

Description	For 10" Lathe		For 13" Lathe		For 14 1/2" Lathe		For 16", 16-24", 2-H	
	Catalog Number		Catalog Number		Catalog Number		Catalog Number	
Handwheel Collet Attachment.....	CB4306L		CB4306T		CB4306F		CB4306H	
Handlever Collet Attachment.....	CB5206L		CB5206T		CB5206F		CB5206H	
Closer for Step Chucks 3" and 4" maximum capacity.....	CB6309LH		CB6309LH		CB6309LH		CB6309LH	
Closer for Step Chucks 5" and 6" maximum capacity.....	CB6311LH		CB6311LH		CB6311LH		CB6311LH	
Small Face Plate.....	CB2175L		CB2175T		CB2175FH		CB2175FH	
Large Face Plate.....	CB2180L		CB2180T		CB2180FH		CB2180FH	
Fixture Plate.....	CB46LT		CB46LT		CB46FH		CB46FH	
6" 4-Jaw Independent Chuck.....	CB4006							
6" 4-Jaw Independent Chuck.....	CB4206		CB4206					
7 1/2" 4-Jaw Independent Chuck.....	CB4207		CB4207		CB4207		CB4207	
9" 4-Jaw Independent Chuck.....			CB4209		CB4209		CB4209	
10" 4-Jaw Independent Chuck.....					CB4210		CB4210	
12" 4-Jaw Independent Chuck.....							CB4212	
5" 3-Jaw Universal Chuck with one set of reversible jaws.....	CB6005		CB6005					
5" 3-Jaw Universal Chuck with two sets of jaws—one pinion.....	CB3005		CB3005		CB3505		CB3505	
5" 3-Jaw Universal Chuck with two sets of jaws—three pinions.....	CB3505		CB6506		CB6506		CB6506	
6" 3-Jaw Universal Chuck with one set of reversible jaws.....	CB6506		CB3506		CB3506		CB3506	
6" 3-Jaw Universal Chuck with two sets of jaws.....	CB3506		CB3507		CB3507		CB3507	
7 1/2" 3-Jaw Universal Chuck with two sets of jaws.....					CB3509		CB3509	
9" 3-Jaw Universal Chuck with two sets of jaws.....					CB2935		CB2935	
Chuck Plate fitted to chuck.....	CB2935		CB2704RH		CB2704RH		CB2704RH	
Semi-Machined Chuck Plate—5".....	CB2704RH		CB2707RH		CB2707RH		CB2707RH	
Semi-Machined Chuck Plate—6 1/4".....	CB2707RH		CB2709RH		CB2709RH		CB2709RH	
Semi-Machined Chuck Plate—9".....	CB2709RH		CB5223L		CB5223F		CB5223H	
Collet Splash Guard.....	CB5223L		CB5223T					



Taper Attachment

Taper turning and boring are as easily accomplished as straight turning on lathes equipped with the South Bend Telescopic Taper Attachment. The taper attachment swivel bar is graduated in degrees on one end and taper in inches per foot on the other end.

A telescopic taper attachment is supplied on 10"-11 1/16" Collet and larger lathes. A telescopic cross-feed screw eliminates the necessity of disconnecting the cross-feed nut when the 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-inch and Light Ten lathes. This taper attachment has plain cross-feed screw and straight gibs. The cross-feed screw and nut must be disconnected before the taper attachment can be engaged for taper turning and boring.

The taper attachment is permanently mounted on the lathe carriage and is always ready for use. It does not in any way interfere with straight turning and boring, and only a few seconds are required to change over from straight to taper work. Accuracy and smooth operation are assured by the practical design and rugged construction of this attachment.

The taper attachment must be fitted to lathe at factory.

Taper Attachment With English Graduations

Cat. No.	Size of Lathe	Swing Over Cross Slide	Maximum Taper			Approx. Ship. Wt.
			At One Setting	Per Foot	In Degrees	
CL428NK	9"	5"	7"	3 1/2"	16 1/2	35 lbs.
CL428NK	Lt. 10	5 1/4"	7"	3 1/2"	16 1/2	35 lbs.
CL154SR	10"	5 3/4"	8 1/2"	3 1/2"	16 1/2	40 lbs.
CL154ST	13"	8"	9 1/2"	3 1/2"	16 1/2	65 lbs.
CL154SF	14 1/2"	8 1/4"	9 1/2"	3 1/2"	16 1/2	80 lbs.
CL154SH	16"	9 3/8"	11 1/2"	3 1/2"	16 1/2	100 lbs.
CL154SH	16-24"	19"	11 1/2"	3 1/2"	16 1/2	100 lbs.

Taper Attachment With Metric Graduations

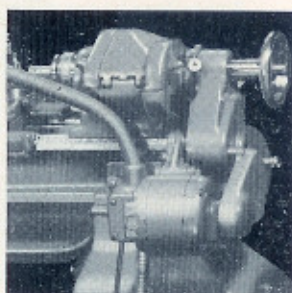
Taper attachments similar to those described above can be supplied to order with metric graduations in addition to the usual English graduations. The metric graduations show the taper in mm per cm. Maximum taper is 3 mm per cm.

Taper Attachment With Metric Graduations

Catalog No.	Size of Lathe	Swing Over Cross Slide	Maximum Taper			Approx. Ship. Wt.
			At One Setting	Per cm	In Degrees	
CL428NK/M	9"	5"	7"	3 mm	16 1/2	35 lbs.
CL428NK/M	Lt. 10	5 1/4"	7"	3 mm	16 1/2	35 lbs.
CL154SR/M	10"	5 3/4"	8 1/2"	3 mm	16 1/2	40 lbs.
CL154ST/M	13"	8"	9 1/2"	3 mm	16 1/2	65 lbs.
CL154SF/M	14 1/2"	8 1/4"	9 1/2"	3 mm	16 1/2	80 lbs.
CL154SH/M	16"	9 3/8"	11 1/2"	3 mm	16 1/2	100 lbs.
CL154SH/M	16-24"	19"	11 1/2"	3 mm	16 1/2	100 lbs.

Independent Power Feed Attachment

Extremely fine feeds can be obtained by using the independent power feed attachment for the 10-inch swing lathe. This attachment is especially desirable for manufacturing dental amalgam, diamond turning and diamond boring operations, and other work requiring extremely smooth, fine feeds, or high spindle speeds. It consists of a separate motor drive and necessary gearing to permit operating the power carriage feed mechanism independently from the lathe spindle.



A 1/4 h.p. motor is mounted on the back of the lathe and geared directly to the quick change gear mechanism. The quick change gear box provides 48 changes for both the power longitudinal feeds and the power cross-feeds. The approximate range of power longitudinal feeds is from .725" to 40" per minute. Feeds travel to right or left, in or out.

The feed in thousandths of an inch per revolution of the spindle is obtained by dividing the feed per minute by the r.p.m. of the lathe spindle. Usually the lathe is operated at a spindle speed higher than standard in order to obtain extremely fine feeds. For example, when the spindle revolves at 2500 r.p.m., the approximate power longitudinal feeds range from .00029" to .016" per revolution of the spindle.

The independent power feed attachment can be disconnected when it is not needed, and the regular power feed gearing connected with the lathe spindle for cutting screw threads or regular turning feeds.

This attachment should be ordered with the lathe and fitted at the factory. Power feed attachments with popular motors are listed below. Write for information on attachments with motors for other current characteristics.

Independent Power Feed Attachment for 10-Inch Lathe

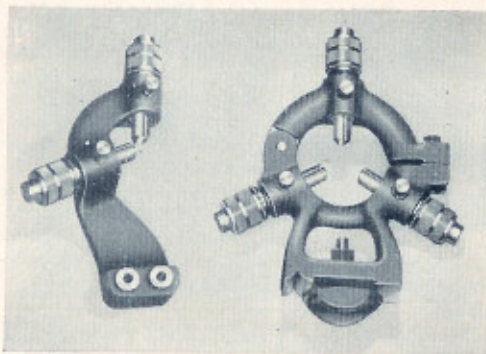
Catalog Number	Motor Specifications			
	Current	Phase	Cycle	Voltage
CL333DR	A.C.	3	60	220
CL333FR	A.C.	3	60	440
CL331BR	A.C.	1	60	115
CL331DR	A.C.	1	60	230

Lubricating Oil

Recommended for South Bend Lathes and other machinery requiring a high quality lubricant.



Cat. No.	Quantity	Ship. Wt.	
Oil for General Lubrication of Lathe and Other Machinery			
CE1603	1 quart	3 lbs.	
CE1906	12 quarts	31 lbs.	
Oil for Spindle Bearings of 9" Lathes and Apron Clutch Mechanism of All Sizes of Lathes			
CE1602	1 quart	3 lbs.	
CE1904	12 quarts	31 lbs.	
Oil for Spindle Bearings of 10" and Larger Lathes			
CE1600	1 quart	3 lbs.	
CE1905	12 quarts	31 lbs.	



Telescoping Jaw Steady Rest and Follower Rest

To provide quicker and more efficient operation, the Telescoping Jaw Follower Rest and Steady Rest have been developed. Principal features of both the Follower Rest and Steady Rest are wrenchless adjustment and locking of the telescoping jaws. Each jaw has a large knurled knob for adjusting the jaw position, and a thumb screw for locking. An ingeniously designed double acting compound screw thread provides approximately 3/16" jaw movement for each revolution of the adjusting knob.

The jaws are made of brass and slide through precision steel sleeves which are pressed into the supporting frame. Manufactured to close tolerances throughout, the jaws and other parts are replaceable.

Steady Rest

The Steady Rest is clamped to the inside bed ways, and is used to support long, slender shafts mounted between the lathe centers. It is also used to support the outer end of a bar or shaft in such a way that it may be drilled, bored, reamed, etc., with tools mounted in the tailstock or in the tool post of the lathe. The top of the steady rest is hinged to facilitate inserting and removing shafts.

Telescoping Jaw Steady Rest

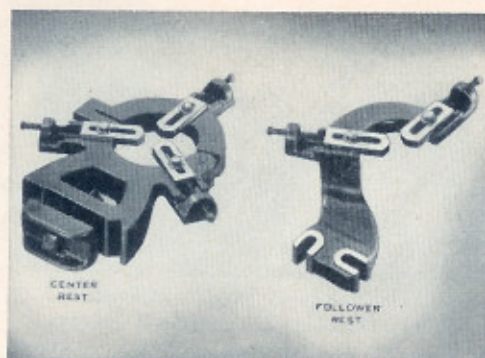
Catalog Number	Size Lathe	Maximum Capacity	Minimum Capacity	Shipping Weight
CL2400N	9 inch	3 in.	3/8 in.	11 lbs.
CL2400K	Light Ten	3 in.	3/8 in.	11 lbs.
CL2400R	10 inch	3 in.	3/8 in.	13 lbs.
CL2400T	13 inch	3 3/4 in.	3/8 in.	21 lbs.
CL2400F	14 1/2 inch	4 3/4 in.	3/8 in.	28 lbs.
CL2400H	16" & 2-H	4 3/4 in.	3/8 in.	30 lbs.
CL2400V	16-24"	4 3/4 in.	3/8 in.	47 lbs.

Follower Rest

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

Telescoping Jaw Follower Rest

Catalog Number	Size Lathe	Maximum Capacity	Minimum Capacity	Shipping Weight
CL2395N	9 inch	2 in.	3/8 in.	7 lbs.
CL2395K	Light Ten	2 in.	3/8 in.	7 lbs.
CL2395R	10 inch	2 1/2 in.	3/8 in.	9 lbs.
CL2395T	13 inch	3 3/4 in.	3/8 in.	11 lbs.
CL2395F	14 1/2 inch	4 3/4 in.	3/8 in.	15 lbs.
CL2395H	16" & 2-H	4 3/4 in.	3/8 in.	17 lbs.
CL2395V	16-24"	4 3/4 in.	3/8 in.	21 lbs.



Regular Steady Rest and Follower Rest

The Regular Steady Rest and Follower Rest are ruggedly designed to provide a rigid support for the work. The jaws are made of cast iron, are machined all over and have adjusting screws and lock screws for setting and securing them in the desired position.

Steady Rest

The Steady Rest clamps onto the inside ways of the lathe bed and is used for supporting long shafts, boring spindles, etc. The top of the center rest is hinged to facilitate inserting and removing shafts.

Regular Steady Rest

Catalog Number	Size Lathe	Maximum Capacity	Minimum Capacity	Shipping Weight	
CL1177N	9 in.	3 in.	3/4 in.	10 lbs.	Not Made
CL1177R	Light Ten	3 in.	3/4 in.	11 lbs.	
CL1177T	10 in.	3 3/4 in.	3/8 in.	19 lbs.	
CL1177F	13 in.	4 3/4 in.	3/8 in.	27 lbs.	
CL1177H	14 1/2 in.	4 3/4 in.	3/8 in.	29 lbs.	
CL1177V	16" & 2-H	4 3/4 in.	3/8 in.	47 lbs.	
CL1177V	16-24 in.	4 3/4 in.	3/8 in.	47 lbs.	

Follower Rest

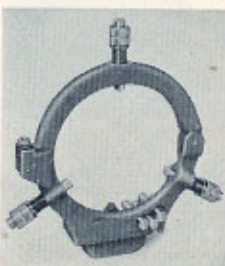
The Follower Rest is attached to the lathe carriage and travels with the carriage. The Follower Rest is used to support long, slender shafts while being machined between the lathe centers. Slots used for attaching follower rest to carriage permit attaching or removing quickly as it is not necessary to remove the screws from the saddle.

Regular Follower Rest

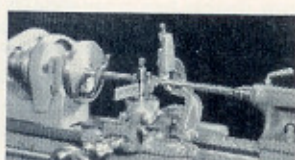
Catalog Number	Size Lathe	Maximum Capacity	Minimum Capacity	Shipping Weight	
CL1353N	9 in.	2 in.	3/8 in.	4 lbs.	Not Made
CL1353R	Light Ten	2 in.	3/8 in.	6 lbs.	
CL1353T	10 in.	2 1/2 in.	3/8 in.	9 lbs.	
CL1353F	13 in.	3 3/4 in.	3/8 in.	12 lbs.	
CL1353H	14 1/2 in.	4 3/4 in.	3/8 in.	13 lbs.	
CL1353V	16 in.	4 3/4 in.	3/8 in.	18 lbs.	
CL1353V	16-24 in.	4 3/4 in.	3/8 in.	18 lbs.	

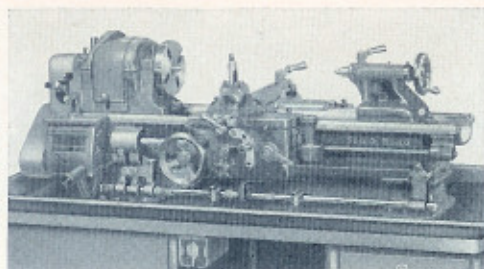
Extra Large Steady Rest

Similar to steady rests described above, but with capacity for large diameter work. Takes from 4-3/4" diameter to 10-3/4" diameter.



Cat. No.	Lathe	Ship. Wt.
Telescoping Jaw Extra Large Steady Rest		
CL2266H	16" & No. 2-H	65 lbs.
CL2266V	16-24"	85 lbs.
Regular Style Extra Large Steady Rest		
CL2258H	16" & No. 2-H	75 lbs.
CL2258V	16-24"	95 lbs.





Automatic Carriage Stop

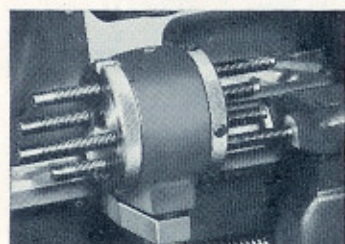
In shops where one man may operate two or more machines, it is sometimes desirable to have lathes equipped with automatic carriage stops, as shown above. This enables the operator to place the work in the lathe, engage the power longitudinal feed for the cut and then proceed to other work. When the end of the cut is reached, the power longitudinal carriage feed is automatically disconnected.

The automatic carriage stop is especially desirable for production operations which require fairly long cuts at one setting of the cutting tool. While a cut is being taken on one lathe, the operator can remove a finished piece from another lathe and replace it with a new piece. In this way both the machines and the operator are busy most of the time and the work is done efficiently.

This attachment must be ordered with the lathe so that it can be fitted to the lathe at the factory.

Cat. No.	Size Lathe	Cat. No.	Size Lathe
CL1662R	10"	CL1662F	14 1/4"
CL1662T	13"	CL1662H	16" & 16-24"

Four Position Carriage Stop

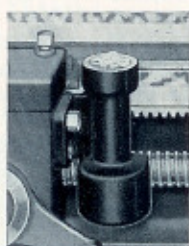


Much time can be saved in positioning the cutting tool for repetitive operations, by using this four position carriage stop. Each of the four adjustable stops may be set for a different tool position, and may be revolved into position to locate the carriage for each of four successive cuts. This attachment is especially desirable for spacing shoulders in shafts and similar operations.

Catalog Number	Size Lathe	Shipping Weight
CL2185NK	9" & Light Ten	6 lbs.
CL2185RT	10" & 13"	6 lbs.
CL2185FH	14 1/4", 16", 16-24", & 2-H	10 lbs.

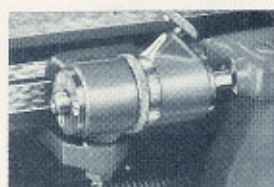
Thread Dial Indicator

Eliminates reversing of 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, after returning carriage to the starting point. For English pitches only. See page 28 for metric thread dial.



Catalog Number	Size Lathe	Shipping Weight
CL810NK	9" & Light Ten	2 lbs.
CL810R	10"	3 lbs.
CL810TH	13", 14 1/4", 16", 16-24", 2-H	5 lbs.

Micrometer Stop



This attachment is useful for accurate facing, turning, boring, etc. It is used for locating the carriage at any point along lathe bed. Can be used on either side of carriage. Has accurately graduated micrometer collar. Either English or metric graduations can be supplied.

The stop is hardened on both ends and may be locked for repetitive operations on duplicate work.

Size Lathe	Ship Wt.	English Graduations	Metric Graduations
		Cat. No.	Cat. No.
9" & Light Ten	2 lbs.	CL968NK	CL968NKME
10"	4 lbs.	CL968R	CL968RME
13"	4 lbs.	CL968T	CL968TME
14 1/4", 16", 16-24", & 2-H	7 lbs.	CL968FH	CL968FHME

Plain Carriage Stop



This stop may be clamped onto the front V-way of the lathe bed, on either side of the saddle, to locate the position of the cutting tool for facing, necking, cutting shoulders, machining grooves, and similar operations.

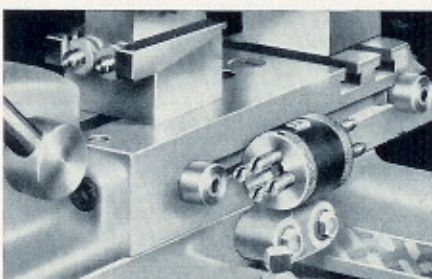
Catalog Number	Size Lathe	Shipping Weight
CL758NK	9" & Light Ten	2 lbs.
CL758R	10"	4 lbs.
CL758T	13"	4 lbs.
CL758FH	14 1/4", 16", 16-24", & 2-H	7 lbs.

Thread Cutting Stop



The Thread Cutting Stop is clamped onto the saddle cross-slide dovetail and is used for regulating the depth of cut for each successive chip when cutting screw threads. Price includes stop complete with clamp and knurled thumb screw.

Catalog Number	Size Lathe	Shipping Weight
CL2250NK	9" & Light Ten	1/2 lb.
CL2250R	10"	3/4 lb.
CL2250T	13"	1 lb.
CL2250F	14 1/4"	1 lb.
CL2250H	16" & 16-24"	2 lbs.

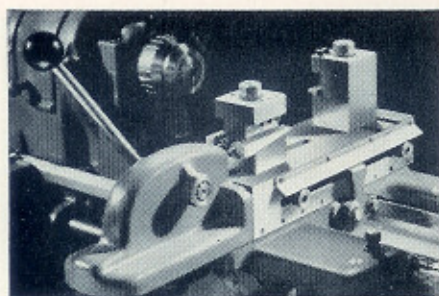


Four Position Cross Slide Stop

This stop fits onto the saddle and is used with the hand-lever double tool cross slide in place of the regular cross slide stop. It has four adjustable stops for locating the position of the cutting tools for each of four successive operations.

CL2154NR. Four Position Stop for Double Tool Cross Slide for 9" and 10" lathes. Shipping weight 2 lbs.

CL2154H. Four Position Stop for Double Tool Cross Slide for 16" and 2-H lathes. Shipping weight 3 lbs.

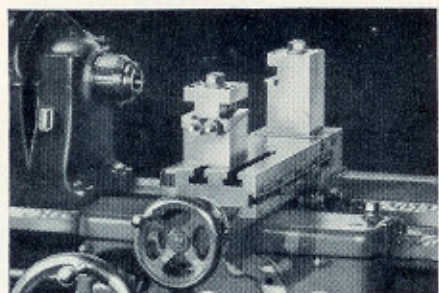


Handler Double Tool Cross Slide for 9" and 10" South Bend Lathes

This Handler Double Tool Cross Slide is mounted on the saddle cross slide dovetail in place of the compound rest assembly. It does not interfere with the power longitudinal carriage feeds. The power cross-feed can be used by removing the handler and replacing it with the cross-feed screw. Cross-feed nut is supplied for either English or metric pitch thread. Adjustable stops limit the movement of the cross slide in either direction, in or out. The handler can be used on either the right side or the left side of the cross slide.

This cross slide has front and back square tool blocks in which $\frac{7}{16}$ " square cutter bits can be mounted. T-slots in the cross slide base permit adjusting the positions of the tool blocks. The front tool block takes two cutter bits, and the back tool block takes one cutter bit. Tapered wedges and thumb screws provide precision adjustment for the height of the cutter bits.

Cat. No.	Size Lathe	Cross-Feed	Ship. Wt.
CL2030N	9"	ENGLISH	36 lbs.
CL2030K	Light Ten		37 lbs.
CL2030R	10"		45 lbs.
CL2030NME	9"	METRIC	36 lbs.
CL2030KME	Light Ten		37 lbs.
CL2030RME	10"		45 lbs.

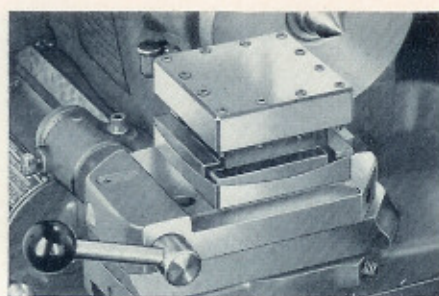


Screw Feed Double Tool Cross Slide for 13" and 16" South Bend Lathes

This cross slide fits on the saddle dovetail in place of the compound rest assembly. The cross-feed may be operated by power through the friction clutch in the apron, as well as by the cross-feed handwheel. A large diameter micrometer graduated collar permits adjusting the cutting tools with extreme precision. Cross-feed screw and graduations are supplied in either English or metric system.

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 square cutter bit. Tapered wedges are provided for adjusting the height of the cutter bits. T-slots in the cross slide base are provided for adjusting the position of the tool blocks. Should be ordered with the lathe.

Catalog Number	Size Lathe	Cross-Feed	Size Bit	Shipping Weight
CL2027T	13"	ENGLISH	$\frac{7}{8}$ " sq.	60 lbs.
CL2027H	16"		$\frac{7}{8}$ " sq.	95 lbs.
CL2027TME	13"	METRIC	$\frac{7}{8}$ " sq.	60 lbs.
CL2027HME	16"		$\frac{7}{8}$ " sq.	95 lbs.



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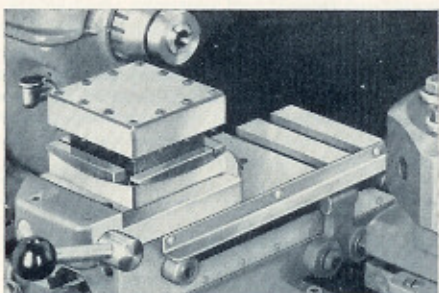
Square Turret Tool Block for Compound Cross Slide

The Square Turret Tool Block shown above is designed for use on the base of the compound 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 for rough turning, finish turning, facing, boring, cutting-off, or other operations as required. A quick acting lever locks the turret securely in each of the four positions. Rocker adjustment is provided for adjusting the height of the cutting edge of each tool.

Square Turret Tool Block for Compound Cross Slide

Catalog Number	Size of Lathe	Size Square	Takes Tools	Shipping Weight
CL3375N	9" and Ser. 900	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	13 lbs.
CL3375K	Light Ten	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	14 lbs.
CL3375R	10" and Ser. 1000	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	15 lbs.
CL3375T	13"	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	24 lbs.
CL3375F	14 $\frac{1}{2}$ "	4"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	36 lbs.
CL3375H	16" and 16-24"	4"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	40 lbs.



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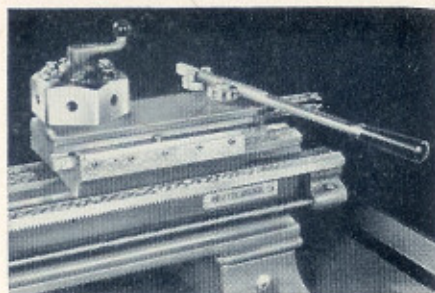
Square Turret Tool Block for Double Tool Cross Slide

The Square Turret Tool Block shown above is designed for use on the screw feed double tool cross slide. It cannot be used on the 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 sequence for rough turning, finish turning, facing, boring, cutting-off, or other operations as required. A quick acting lever locks the turret securely in each of the four positions. Rocker adjustment is provided for adjusting the height of the cutting edge of each tool.

Square Turret Tool Block for Double Tool Slide

Catalog Number	Size of Lathe	Size Square	Takes Tools	Ship. Weight
CL3376NR	9", Series 900, 10" & Series 1000	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	10 lbs.
CL3376K	Light Ten	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	11 lbs.
CL3376T	13"	3"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	20 lbs.
CL3376H	16" & No. 2-H	4"	$\frac{3}{8}$ " x $\frac{3}{8}$ "	28 lbs.



Handlever Bed Turret for 9", 10", and 13" South Bend Lathes

The Handlever Bed Turret mounts on the inside bed ways and can be locked in position at any point along the length of the bed. The turret base clears the saddle wings of the lathe carriage, which slides on the outer bed ways. This construction permits the turret to be placed close to the headstock and eliminates excessive overhang of the work or the turret tools.

With this turret mounted on the lathe, small precision parts can be economically manufactured. It equips the lathe for fast, efficient production, yet the lathe may easily be adapted to other classes of work.

The turret slide has gibs on both sides which provide adjustment for wear. The turret head indexes automatically when the feed lever is pushed to the extreme right. Each face of the turret has an independently adjustable feed stop screw which accurately regulates the length of the cut. The stop screw roll rotates automatically so that each screw is brought in line with the stop as the corresponding face of the turret head is revolved to the working position.

Accurate indexing of the turret head (within plus or minus .0005" measured 4" from turret face) is assured by the use of hardened, ground, and superfinished index pin which operates in heat-treated steel bushings. The index bushings are replaceable. The turret head may be back-indexed or spun when it is desired to skip tool positions. A substantial binder permits locking the turret head securely for taking heavy cuts.

The effective feed of the turret slide is 4". Center of turret hole to top of turret slide 1 1/2". Takes standard turret tools with 5/8" diameter shank*. Distance between opposite flats on turret head is 4 1/4". When turret is ordered separate from lathe, the purchaser must assume the responsibility of fitting turret to lathe and boring turret head.

Catalog Number	Size Lathe	Shipping Weight
CL1611N	9"	76 lbs.
CL1611K	Light Ten	76 lbs.
CL1611R	10"	83 lbs.
CL1611T	13"	130 lbs.

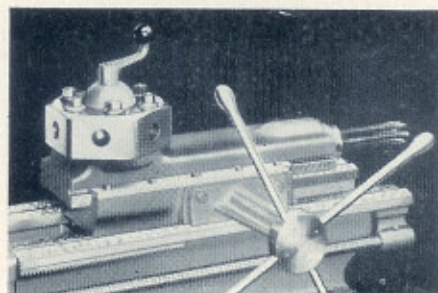
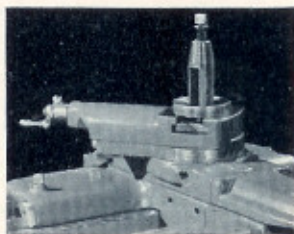
*Can be supplied to order with 3/4" holes in turret face. No extra charge.

Compound Rest Cross Slide for No. 2-H Turret Lathe

The compound rest type cross slide can be supplied for use on the saddle cross slide dovetail of the No. 2-H Turret Lathe in place of the double tool cross slide. This compound rest is the same as is regularly supplied with the 16" swing lathe.

Price includes compound rest top, swivel, and base assembly complete with tool post and cross-feed screw. Cannot be used with double tool slide. When this unit is required, it must be ordered with the lathe and fitted at the factory.

Cat. No. CL2200P. Compound Rest Cross Slide for No. 2-H Turret Lathe. Ship. wt. 22 lbs.



Hand Feed Turnstile Bed Turret for 16" South Bend Lathe

The Hand Feed Turnstile Bed Turret is mounted on the inside bed ways of the lathe. The large turnstile is provided for hand operated turret slide feeds. No power feed is available*.

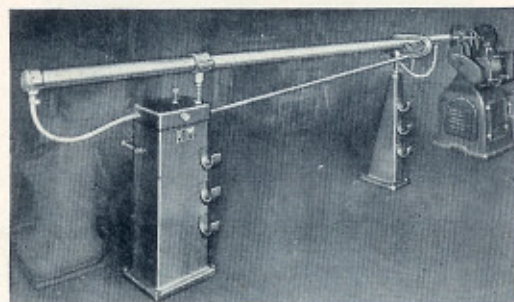
The turret head is hexagonal in shape, having six accurately machined faces. It indexes automatically when the turret slide is returned to the starting position. An individual feed stop is provided for each face of the turret. The stop accurately regulates the length of the cut. The turret head may be back indexed or spun when it is desired to skip tool positions.

Accurate indexing (within plus or minus .0005" measured 4" from turret face) is assured by the use of a hardened, ground, and superfinished index pin which operates in heat-treated steel bushings. The indexing bushings are replaceable. The main central bearing is tapered for adjustment. The turret head is locked securely in position by a substantial binder. The turret slide has tapered gibs on both sides which provide adjustment for wear and alignment.

Effective feed of turret slide 6 1/4". Center of turret hole to top of turret slide 2 1/2". Takes standard turret tools with 1 1/2" diameter shank. Distance between opposite turret flats is 9 3/8". Maximum distance between spindle nose and turret face at beginning of indexing movement is 28 1/4" on 6' bed lathe. When turret is ordered separate from lathe, the purchaser must assume the responsibility of fitting and boring.

Cat. No. CL1917H. Hand Feed Turnstile Bed Turret for 16" South Bend Lathe. Ship. wt. 505 lbs.

*If power feed is wanted, write for Turret Lathe catalog.



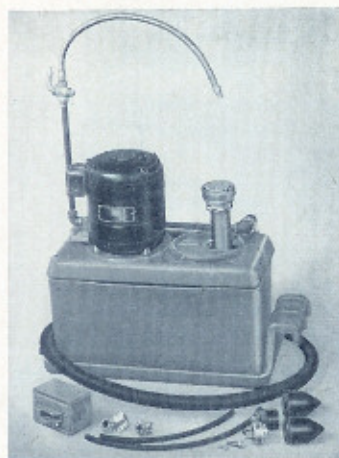
Pneumatic Bar Feed

This Pneumatic Bar Feed unit takes a twelve foot bar of stock, any shape or size, up to the maximum capacity through the bar feed cylinder, provided the bar is no larger than the hole through the lathe spindle or collet. Air pressure forces the stock forward instantly when the collet or chuck is opened. The stock is held firmly against the stop until the collet is closed.

Low air pressure is required for operating the pneumatic bar feed unit. (Price does not include air compressor). Shipped direct from factory in New York.

Cat. No. CE1881. Lipe Pneumatic Bar Feed Unit, 1" maximum bar capacity. Shipping weight 385 lbs.

Cat. No. CE1882. Lipe Pneumatic Bar Feed Unit, 2" maximum bar capacity. Shipping weight 410 lbs.



Coolant Pump and Reservoir

The coolant equipment listed below is for use with South Bend Lathes equipped with oil pans. The oil pump is self-priming as it is below the oil level. Equipment includes coolant pump, tubing, reservoir, $\frac{1}{4}$ h.p. motor, and switch. Price includes fitting to lathe at factory.

Coolant Pump and Reservoir Fitted to 10" - $\frac{11}{16}$ " Collet or Larger Floor Leg Lathes, No. 2-H, or Series 1000 Floor Leg Turret Lathes

Cat. No.	Current	Phase	Cycle	Voltage
CL503C	A.C.	3	50	220
CL503D	A.C.	3	60	220
CL503E	A.C.	3	50	440
CL503F	A.C.	3	60	440
CL503G	A.C.	3	50	550
CL503H	A.C.	3	60	550
CL502C	A.C.	2	50	220
CL502D	A.C.	2	60	220
CL501A	A.C.	1	50	115
CL501B	A.C.	1	60	115
CL501C	A.C.	1	50	230
CL501D	A.C.	1	60	230
CL500K	D.C.	...	...	115
CL500L	D.C.	...	...	230

Coolant Pump and Reservoir Fitted to 9" Light Ten or Series 900 U.M.D. Lathes, or 10" or Series 1000 Bench Lathes on Tubular Steel Bench

Cat. No.	Current	Phase	Cycle	Voltage
CL513C	A.C.	3	50	220
CL513D	A.C.	3	60	220
CL513E	A.C.	3	50	440
CL513F	A.C.	3	60	440
CL513G	A.C.	3	50	550
CL513H	A.C.	3	60	550
CL512C	A.C.	2	50	220
CL512D	A.C.	2	60	220
CL511A	A.C.	1	50	115
CL511B	A.C.	1	60	115
CL511C	A.C.	1	50	230
CL511D	A.C.	1	60	230
CL510K	D.C.	...	...	115
CL510L	D.C.	...	...	230

When ordered for 9" or Light Ten U.M.D. Lathes or 10-inch U.M.D. Lathes on steel bench, there is an additional charge for making chip pan oil tight and installing necessary drain pipes, splash guards, and oil tight seal. This does not apply to turret lathes.

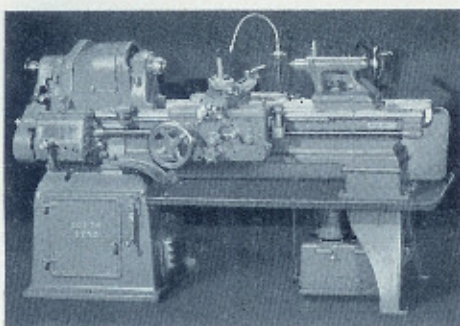
Cat. No. CL2195NK—Making chip pan oil tight on 9" or Light Ten Lathe.

Cat. No. CL2196R—Making chip pan oil tight on 10" Lathe.

Coolant Pump Not Fitted to Lathe

The above coolant equipment may be ordered for application to lathes, drill presses, or other machine tools. Reservoir may be set on floor or attached to machine. Equipment consists of: coolant pump, tubing, reservoir, tray, $\frac{1}{4}$ h.p. motor, switch, and wire for connecting motor and switch. Shipping weight approximately 110 lbs.

Cat. No.	Current	Phase	Cycle	Voltage
CE2003C	A.C.	3	50	220
CE2003D	A.C.	3	60	220
CE2003E	A.C.	3	50	440
CE2003F	A.C.	3	60	440
CE2003G	A.C.	3	50	550
CE2003H	A.C.	3	60	550
CE2002C	A.C.	2	50	220
CE2002D	A.C.	2	60	220
CE2001A	A.C.	1	50	115
CE2001B	A.C.	1	60	115
CE2001C	A.C.	1	50	230
CE2001D	A.C.	1	60	230
CE2000K	D.C.	...	...	115
CE2000L	D.C.	...	...	230



Oil Pans, Splash Pans, and Chip Pans

Oil Pans, Splash Pans, and Chip Pans for South Bend Lathes are made of heavy gauge sheet steel with welded corners and roll rim. Pans should be specified at the time the lathe is ordered so that they can be properly fitted at the factory.

Oil Pans are designed for collecting both oil and chips and are oil tight. Oil pans extend from the headstock leg to the tailstock end of bed as shown. Oil return troughs are provided at the headstock end of the lathe.

Splash Pans are an essential addition to the oil pans for all lathes that are equipped with taper attachments and for all turret lathes. The splash pans are attached to the back of the oil pans, as shown in the illustration above.

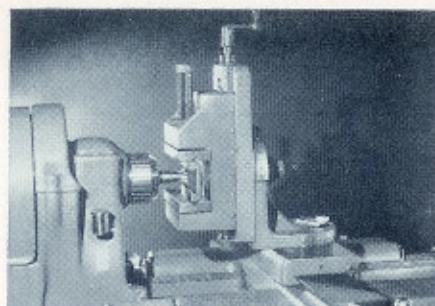
Chip Pans are intended for collecting chips only and are not necessarily oil tight. Chip pans extend from the headstock leg to the tailstock end of bed.

Pans for Floor Leg South Bend Lathes

Size Lathe	Oil Pan		Chip Pan		Splash Pan	
	Cat. No.		Cat. No.		Cat. No.	
Series 900	.....		.....		CL2057Z	
9" x 3 1/2"	.....		.....		CL2057Z	
10" x 3"	CL2020Y		CL1987Y		CL2059Z	
10" x 3 1/2"	CL2020Z		CL1987Z		CL2059Z	
Series 1000	.....		.....		CL2059Z	
10" x 4"	CL2020A		CL1987A		CL2059R	
10" x 4 1/2"	CL2020R		CL1987R		CL2059R	
13" x 4"	CL2022A		CL1989A		CL2060A	
13" x 5"	CL2022B		CL1989B		CL2060B	
13" x 6"	CL2022C		CL1989C		CL2060C	
13" x 7"	CL2022D		CL1989D		CL2060D	
14 1/2" x 5"	CL2023B		CL1990B		CL2062B	
14 1/2" x 6"	CL2023C		CL1990C		CL2062C	
14 1/2" x 7"	CL2023D		CL1990D		CL2062D	
14 1/2" x 8"	CL2023E		CL1990E		CL2062H	
16" x 6"	CL2024C		CL1991C		CL2062C	
16" x 7"	CL2024D		CL1991D		CL2062D	
16" x 8"	CL2024E		CL1991E		CL2062H	
16" x 10"	CL2024G		CL1991G		CL2062H	
16" x 12"	CL2024H		CL1991H		CL2062H	
16-24" x 6"	.....		CL1991C		.....
16-24" x 7"	.....		CL1991D		.....
16-24" x 8"	.....		CL1991E		.....
16-24" x 10"	.....		CL1991G		.....
16-24" x 12"	.....		CL1991H		.....
2-H x 6"	.....		.....		CL2062C	
2-H x 7"	.....		.....		CL2062D	

Pans for South Bend Bench Lathes

Size Lathe	Oil Pan		Chip Pan		Splash Pan	
	Cat. No.		Cat. No.		Cat. No.	
9" x 3"		CL1297Y		CL2056Y	
9" x 3 1/2"		CL1297Z		CL2057Z	
9" x 4"		CL1297A		CL2057R	
9" x 4 1/2"		CL1297R		CL2057R	
10" x 3"		CL1377Y		CL2057Z	
10" x 3 1/2"		CL1377Z		CL2057Z	
Series 1000		CL2057Z	
10" x 4"		CL1377A		CL2057R	
10" x 4 1/2"		CL1377R		CL2057R	



Milling and Keyway Cutting Attachment

The Milling and Keyway Cutting Attachment is excellent equipment for the shop that does not have a milling machine. It is mounted on the compound rest base of the lathe, 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 plane and vertical plane, permitting the vise to be swiveled in any direction. The vertical slide adjusting screw is equipped with a micrometer graduated collar.

The equipment included consists of: 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. Milling cutters and arbors are not included.

Milling and Keyway Cutting Attachment

Cat. No.	Size Lathe Ins.	Vert. Feed Ins.	Cross-Feed Ins.	Vise Holds Ins.	Jaw Depth Ins.	Jaw Width Ins.	Ship. Wt. Lbs.
CL2680NK	9"-11.10"	2 1/2"	5 1/4"	1 1/2"	1 1/2"	3"	13
CL2680R	10"	3"	5 1/4"	1 1/2"	1 1/2"	3 1/2"	25
CL2680T	13"	4 1/4"	8 1/4"	2 1/4"	1 1/2"	4 1/2"	40
CL2680F	14 1/2"	6"	10"	4"	2"	5 1/4"	50
CL2680H	16"	6"	10 1/2"	4"	2"	5 1/4"	65
CL2680H	16-24"	6"	10 1/2"	4"	2"	5 1/4"	65

Metric Milling Attachment

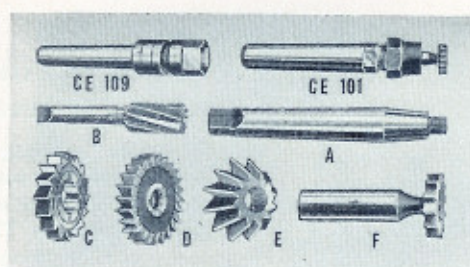
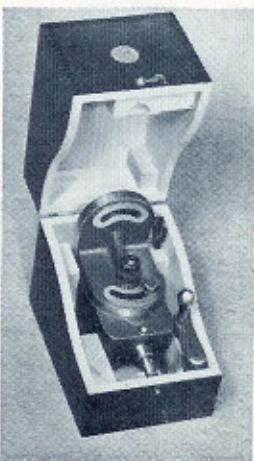
The milling and keyway cutting attachments shown above can be supplied with metric graduations in lieu of English graduations. Prices and specifications are same as for corresponding sizes with English graduations. Specify catalog numbers listed below for milling attachments with metric graduations.

Catalog Number	Size Lathe	Catalog Number	Size Lathe
CL2680NKME	9" & L.T. Ten	CL2680FME	14 1/2"
CL2680RME	10"	CL2680HME	16" & 16-24"
CL2680TME	13"		

Milling Attachment Chest

This substantially constructed wooden chest holds the 9" and Light Ten milling attachment, milling attachment crank, and milling attachment wrench. This protects the attachment from dirt, dust, and other abuse, when it is not in use. Price does not include milling attachment.

CL2224. Hinged Wooden Chest for No. CL2680NK Milling and Keyway Cutting Attachment. Shipping wt. 4 lbs.



Milling Arbors and Cutters

Milling Arbors CE109, CE101, and A

All arbors and chucks listed below have No. 3 Morse taper shanks.

CE109. Plain Arbor for milling cutters with 1-inch hole. Shipping weight 3 lbs.

CE829. Screw Arbor (A) for Angular cutters (E) with right-hand thread. Shipping weight 2 lbs.

CE830. Screw Arbor (A) for angular cutters (E) with left-hand thread. Shipping weight 2 lbs.

CE101. Collet Chuck for Woodruff Cutters (F) with 1/2" diameter shank. Shipping weight 2 lbs.

Spiral End Mills (B)

High Speed Steel, Right-hand Cut, Right-hand Spiral

Cat. No.	Dia. Mill	Morse Taper	Cat. No.	Dia. Mill	Morse Taper
CE3893	1 1/8"	No. 2	CE3808	3/8"	No. 3
CE3894	1 1/4"	No. 2	CE3809	7/8"	No. 3
CE3895	1 1/2"	No. 2	CE3810	1"	No. 3
CE3896	1 3/4"	No. 2	CE3811	1 1/8"	No. 3
CE3897	1 7/8"	No. 2	CE3812	1 1/4"	No. 3

Plain Milling Cutters (C)

High Speed Steel With 1" Hole. Cut on Face Only

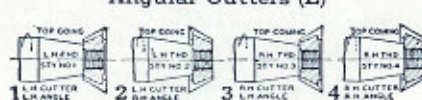
Cat. No.	Face Width	O.D.	Cat. No.	Face Width	O.D.
CE3920	1 1/8"	2 1/8"	CE3924	1 1/4"	2 1/4"
CE3921	1 1/4"	2 1/4"	CE3925	1 1/2"	2 1/2"
CE3922	1 1/2"	2 1/2"	CE3926	1 3/4"	2 3/4"
CE3923	1 3/4"	2 3/4"	CE3927	2"	2 1/2"

Side Milling Cutters (D)

High Speed Steel With 1" Hole. Cut on Face and Sides

Cat. No.	Face Width	O.D.	Cat. No.	Face Width	O.D.
CE3930	1 1/8"	3"	CE3934	1 1/4"	3"
CE3931	1 1/4"	3"	CE3935	1 1/2"	4"
CE3932	1 1/2"	3"	CE3936	1 3/4"	4"
CE3933	1 3/4"	3"			

Angular Cutters (E)



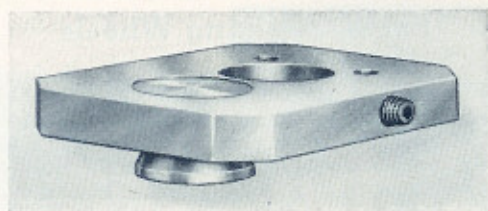
High Speed Steel With Threaded Hole
1 1/4" O.D., 1/8" Face, 60° Included Angle

Cat. No.	Style	Description
CE667S1	1	L.H. thread, L.H. angle.....
CE667S2	2	L.H. thread, R.H. angle.....
CE667S3	3	R.H. thread, L.H. angle.....
CE667S4	4	R.H. thread, R.H. angle.....

Woodruff Keyseat Cutters (F)

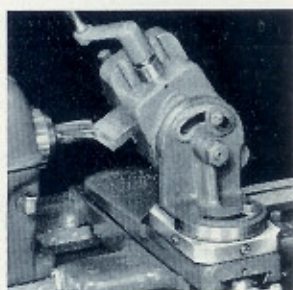
High Speed Steel With 1/2" Diameter Straight Shanks
Right-hand Cutters

Cat. No.	Cutter Dia.	Cutter Face	Cat. No.	Cutter Dia.	Cutter Face
CE3940	1 1/8"	1 1/8"	CE3948	1"	1 1/8"
CE3941	1 1/4"	1 1/4"	CE3949	1 1/4"	1 1/4"
CE3942	1 1/2"	1 1/2"	CE3950	1 1/2"	1 1/2"
CE3943	1 3/4"	1 3/4"	CE3951	1 3/4"	1 3/4"
CE3944	2"	2"	CE3952	1 3/4"	1 3/4"
CE3945	2 1/8"	2 1/8"	CE3953	1 3/4"	1 3/4"
CE3946	2 1/4"	2 1/4"	CE3954	1 3/4"	1 3/4"
CE3947	1"	1"	CE3955	1 1/4"	1 1/4"



Off-set Base for Milling Attachment

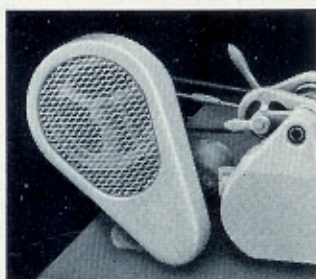
To increase the capacity of the milling attachment for the 9" and Light Ten lathes, the off-set base illustrated above is used. The base consists of a steel plate which is mounted between the compound rest base of the lathe and the milling attachment base. When the off-set base is used, the position of the milling attachment is $1\frac{1}{2}$ " farther away from the center line of the lathe spindle. This permits milling parts that might otherwise be too large for machining. See illustration at right. Price of off-set base includes necessary screws.



CL2408NK. Off-set Base for milling attachment. Fits 9" and Light Ten lathes only. Shipping weight 5 lbs.

Motor Belt Guard for 9" Bench Lathe

Fabricated of expanded metal cast into a rigid frame, this guard is designed to enclose the motor pulley, motor V-belt, and countershaft drive pulley of 9-inch Horizontal Motor Driven Bench Lathes. It can be used with any 9-inch Horizontal Motor Drive Unit made since Feb. 1940. Guard is attached to the motor drive frame by a cap screw or bolt and a dowel pin. Frame must be drilled for pin and bolt or tapped for screw.

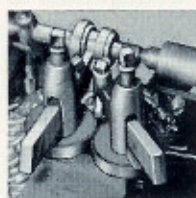


CL2885. Motor Belt Guard for 9" Horizontal Motor Drive with $\frac{1}{2}$ h.p. or $\frac{1}{4}$ h.p. motor. Ship. wt. 26 lbs.

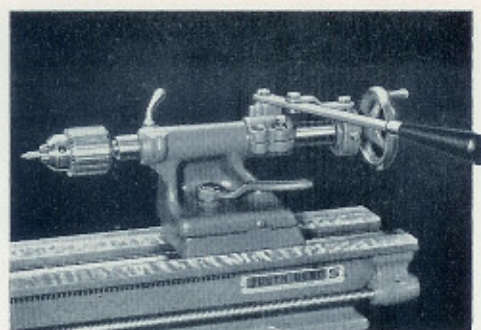
CL2886. Motor Belt Guard for 9" Horizontal Motor Drive with $\frac{1}{2}$ h.p. motor. Ship. wt. 27 lbs.

Extra Tool Posts

Machining time can often be saved by using tool posts simultaneously. Tool posts may be mounted close together by grinding off sides of tool post rings. Made of heat-treated steel. Price includes tool post assembly complete.



Catalog Number	Size Lathe	Dimensions In Inches			Ship. Wt.
		Dia.	Opening	Block	
CE2450NK	9" & Lt. Ten	$2\frac{1}{2}$ "	$1\frac{1}{2}$ " x $\frac{3}{4}$ "	$\frac{1}{4}$ " x $\frac{1}{4}$ " x $1\frac{1}{2}$ "	2 lbs.
CE2450R	10"	$2\frac{1}{2}$ "	$1\frac{1}{2}$ " x 1"	$\frac{1}{4}$ " x $1\frac{1}{2}$ " x $1\frac{1}{2}$ "	2 lbs.
CE2450T	13"	$1\frac{1}{2}$ "	$1\frac{1}{2}$ " x $1\frac{1}{4}$ "	$\frac{1}{4}$ " x $1\frac{1}{4}$ " x $1\frac{1}{4}$ "	3 lbs.
CE2450F	$14\frac{1}{2}$ "	$1\frac{1}{2}$ "	$1\frac{1}{2}$ " x $1\frac{3}{4}$ "	$\frac{1}{2}$ " x 2" x $2\frac{3}{4}$ "	4 lbs.
CE2450H	16"	$1\frac{1}{2}$ "	$2\frac{1}{2}$ " x $1\frac{3}{4}$ "	$\frac{1}{2}$ " x $2\frac{1}{2}$ " x $2\frac{1}{2}$ "	5 lbs.

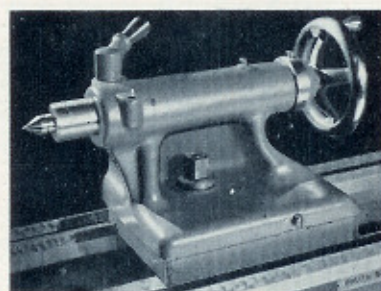


Handlever Tailstock

The Handlever Tailstock is a practical attachment for drilling, reaming, tapping, and centering operations. The convenient lever operation of the spindle saves much time on production work. The spindle may be set for drilling to any depth up to maximum length of feed. This tailstock is similar to the regular tailstock, except for the spindle construction. The tailstock top may be set over for taper turning. The spindle may be operated by the handlever or by turning the tailstock handwheel. This tailstock is interchangeable with the regular tailstock, and can be used for machining work between centers if desired.

Handlever Tailstock for South Bend Lathes

Size Lathe	Lgth. of Feed Inches	Shpg. Weight Lbs.	In Lieu of Regular Tailstock		In Addition to Regular Tailstock	
			Cat. No.		Cat. No.	
9"	$2\frac{5}{8}$ "	25	CL519N		CL1197N	
Light Ten	$2\frac{5}{8}$ "	25	CL519K		CL1197K	
10"	$2\frac{5}{8}$ "	33	CL519R		CL1197R	

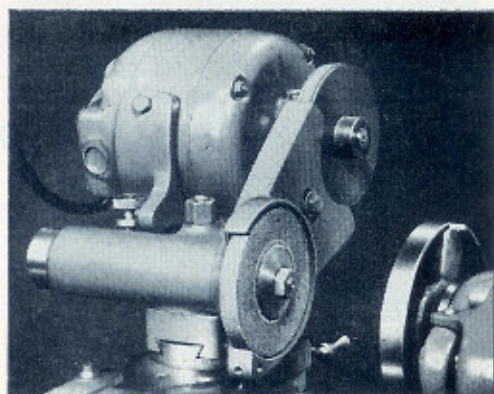


Tailstock

for South Bend Turret Lathes

Prices of South Bend No. 2-H, Series 900, and Series 1000 Turret Lathes do not include tailstock, but a standard set-over type tailstock as illustrated above can be supplied to order. The tailstock mounts on the lathe bed, in place of the turret, for machining work between centers. Tailstock spindle is graduated in 16ths of an inch, and is fitted with a 60° hardened center. Tailstock top has set-over for taper turning. This unit should be ordered with the lathe and fitted at the factory.

Catalog No.	Size Lathe	Size Center	Shipping Weight
CL2036P	No. 2-H	No. 3 M.T.	133 lbs.
CL2036R	Series 1000	No. 2 M.T.	42 lbs.
CL2036N	Series 900	No. 2 M.T.	22 lbs.



External Grinding Attachment

This powerful and efficient grinding attachment is recommended for refacing valves, sharpening reamers and cutters, and other external grinding. Designed to fit the various sizes of South Bend Lathes, it is easily adaptable for use on other makes of lathes. The spindle revolves in pre-lubricated, precision ball bearings which are sealed to protect them from damage by dust, grit and metal particles produced when grinding. Supplied with $\frac{1}{4}$ h.p., constant speed continuous duty motor, and 4" x $\frac{1}{2}$ " No. CE2759 general purpose grinding wheel. Grinders with popular motors are listed below. Write for information on grinders having motors with other current characteristics. Shipping weight approximately 55 lbs.

External Grinding Attachment and Motors

Catalog Number	Size Lathe	Dia. Will Grind	Motor Specifications		
			Volts	Phase	Cycle
CE300KNK	9" and Light Ten	5 1/4"	115 D.C.	..	..
CE300LNK		5 1/4"	230 D.C.	..	..
CE301ANK		5 1/4"	115 A.C.	1	50
CE301BNK		5 1/4"	115 A.C.	1	60
CE301CNK		5 1/4"	230 A.C.	1	50
CE301DNK		5 1/4"	230 A.C.	1	60
CE303CNK		5 1/4"	220 A.C.	3	50
CE303DNK		5 1/4"	220 A.C.	3	60
CE303FNK		5 1/4"	440 A.C.	3	60
CE300KR	10"	5 1/4"	115 D.C.	..	..
CE300LR		5 1/4"	230 D.C.	..	..
CE301AR		5 1/4"	115 A.C.	1	50
CE301BR		5 1/4"	115 A.C.	1	60
CE301CR		5 1/4"	230 A.C.	1	50
CE301DR		5 1/4"	230 A.C.	1	60
CE303CR		5 1/4"	220 A.C.	3	50
CE303DR		5 1/4"	220 A.C.	3	60
CE303FR		5 1/4"	440 A.C.	3	60
CE300KT	13"	8"	115 D.C.	..	..
CE300LT		8"	230 D.C.	..	..
CE301AT		8"	115 A.C.	1	50
CE301BT		8"	115 A.C.	1	60
CE301CT		8"	230 A.C.	1	50
CE301DT		8"	230 A.C.	1	60
CE303CT		8"	220 A.C.	3	50
CE303DT		8"	220 A.C.	3	60
CE303FT		8"	440 A.C.	3	60
CE300KF	14 1/2"	9"	115 D.C.	..	..
CE300LF		9"	230 D.C.	..	..
CE301AF		9"	115 A.C.	1	50
CE301BF		9"	115 A.C.	1	60
CE301CF		9"	230 A.C.	1	50
CE301DF		9"	230 A.C.	1	60
CE303CF		9"	220 A.C.	3	50
CE303DF		9"	220 A.C.	3	60
CE303FF		9"	440 A.C.	3	60
CE300KH	16"	9 1/4"	115 D.C.	..	..
CE300LH		9 1/4"	230 D.C.	..	..
CE301AH		9 1/4"	115 A.C.	1	50
CE301BH		9 1/4"	115 A.C.	1	60
CE301CH		9 1/4"	230 A.C.	1	50
CE301DH		9 1/4"	230 A.C.	1	60
CE303CH		9 1/4"	220 A.C.	3	50
CE303DH		9 1/4"	220 A.C.	3	60
CE303FH		9 1/4"	440 A.C.	3	60
CE300KH	16-24"	18 1/4"	115 D.C.	..	..
CE300LH		18 1/4"	230 D.C.	..	..
CE301AH		18 1/4"	115 A.C.	1	50
CE301BH		18 1/4"	115 A.C.	1	60
CE301CH		18 1/4"	230 A.C.	1	50
CE301DH		18 1/4"	230 A.C.	1	60
CE303CH		18 1/4"	220 A.C.	3	50
CE303DH		18 1/4"	220 A.C.	3	60
CE303FH		18 1/4"	440 A.C.	3	60

Extra Grinding Wheels



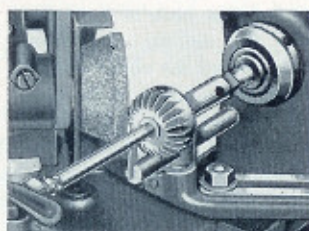
For rapid grinding and smooth finish, the correct grade of grinding wheel should be selected. The grinding wheels listed cover the more important classes of work. Wheels listed in table are 4" in diameter with $\frac{1}{2}$ " face and $\frac{1}{2}$ " hole, to fit external grinding attachment. Shipping weight 2 lbs.

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

No. CE3236. Cup Grinding Wheel, 3 1/4" O.D., 3" I.D., 1 1/4" face, 1/2" hole for sharpening reamers and cutters.

Reamer Grinding Stops

For sharpening reamers, milling cutters, etc., having either straight or spiral flutes. Also used for holding the No. CE18 Diamond Dresser listed below.



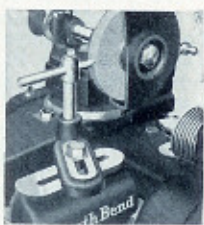
Cat. No.	Size Lathe	Ship. Wt.
CE1512N	9"	7 lbs.
CE1512K	Lt. Ten	8 lbs.
CE1512R	10"	9 lbs.
CE1512T	13"	14 lbs.
CE1512F	14 1/2"	20 lbs.
CE1512H	16"	24 lbs.
CE1512V	16-24"	30 lbs.

Diamond Dresser



For satisfactory operation, the grinding wheel should be trued frequently with a diamond dresser. This dresser must be mounted in the Reamer Grinding Stop fixture, listed above. Price does not include the fixture.

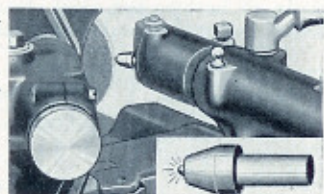
No. CE18. Diamond Dresser only. Shipping weight 1 lb.



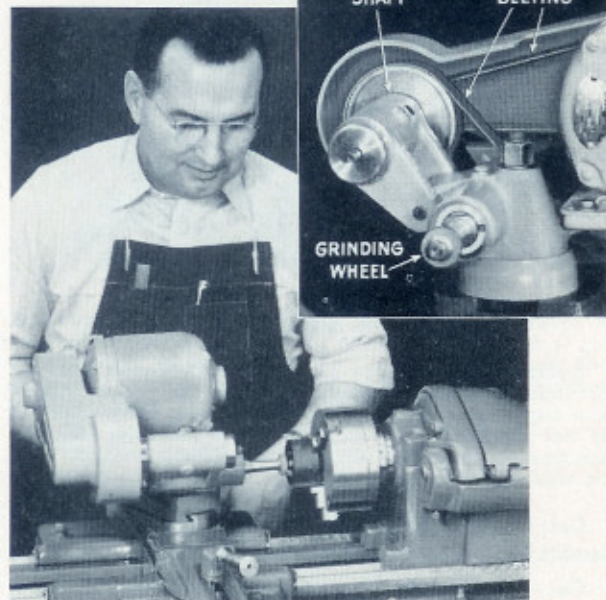
Tailstock Diamond Holding Fixture

Clamps to tailstock spindle of lathe for holding the No. CE406 diamond dresser (shown in inset) for truing grinding wheel. Cannot be used while work is mounted between the lathe centers. Price does not include diamond dresser, which is listed below.

Cat. No.	Size Lathe	Ship. Wt.
CE91NK	9" & Lt. Ten	3 lbs.
CE91R	10"	3 lbs.
CE91T	13"	4 lbs.
CE91F	14 1/2"	4 lbs.
CE91H	16" & 16-24"	5 lbs.



No. CE406. Diamond Dresser. Shipping weight 1 1/2 lb.



Internal Grinding Attachment

This new South Bend Constant Speed Precision Grinder has been developed to meet the long felt need for an internal grinding attachment having sufficient power to maintain a more constant wheel speed under varying loads and to prevent stalling under comparatively heavy cuts.

The grinder is powered by a standard type, constant speed, continuous duty 1/6 h.p., 3450 r.p.m., A.C. motor which has proved to be far superior to the universal type A.C.-D.C. motors ordinarily used. The motor is compound belted, through an intermediate shaft, to obtain a quill spindle speed of 30,000 r.p.m. Tests have shown that less than 1000 r.p.m. drop in spindle speed occurs when taking cuts as heavy as .003" on a side in hardened steel. Power loss is negligible.

The grinding wheel and intermediate shaft spindle run on high precision, high speed ball bearings which require no adjustment. Lubricant is supplied from built-in oil wells. Oil is effectively sealed in the spindle units, and dust sealed out in such a way that the bearings will retain their precision indefinitely. The compound belting and the three pulleys are enclosed by a one-piece guard.

This grinder can be easily adapted for use on other makes of lathes or on other machine tools. Grinders have 1 ph., 60 cy., 115 v., A.C. motor, and accessories as listed below under specifications. Shipping weight 51 lbs.

Specifications

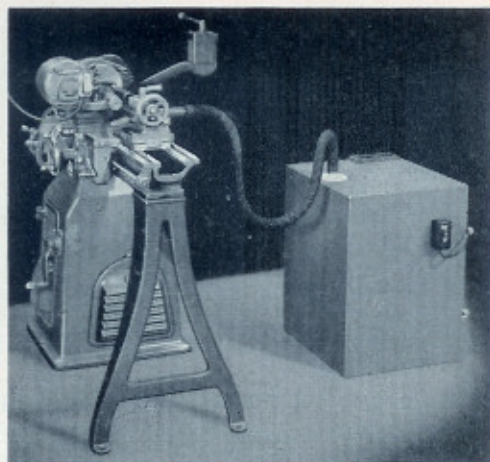
Grinding wheel speed.....30,000 r.p.m.
Maximum depth of ground hole with 1-inch wheel.....3 1/2 inches
Maximum wheel diameter recommended.....1 inch

Accessories supplied:

Four 1/4" wheel arbors; lengths 2 1/8", 2 3/8", 3 1/8", and 4 1/8".
Four grinding wheels: 1/4" bore; 1/4" face; 5/8", 3/4", 7/8", and 1" diameters.
One chuck for mounted wheels.....1/8" capacity
Eight-foot extension cord, plug, and switch.

Catalog Number	Lathe Size	Base to Center of Wheel
CE601BNK	9" & Light Ten	1 1/8 in.
CE601BR	10 in.	1 1/2 in.
CE601BT	13 in.	1 3/4 in.
CE601BF	14 1/2 in.	1 7/8 in.
CE601BH	16" & 16-24"	2 1/8 in.

Write for information and prices of grinders equipped with motors for other current characteristics.



Dust Collecting Unit for Electric Grinding Attachment

Abrasive dust from the grinding wheel and grindings from the work can be collected and filtered from the air with this unit. This provides greater comfort for the operator and protects the lathe from the abrasive action of emery dust and grindings.

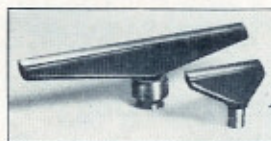
The dust collecting unit consists of a steel cabinet containing highly efficient chemically treated spark resistant filters and a powerful blower driven by a 1/3 h.p. electric motor. A non-collapsible flexible exhaust tube carries the dust from the grinding wheel to the dust collecting unit. The grinding wheel is almost totally enclosed in a guard to which the exhaust tube is connected.

Equipment included in price consists of dust collecting unit complete with motor, switch, blower, filters, exhaust tube, and special grinding wheel guard, but does not include grinding attachment.

Dust Collecting Unit for Use With Electric Grinding Attachment

Cat. No.	Current	Phase	Cycle	Voltage	Ship. Wt.
CE311B	A.C.	1	60	115	160 lbs.
CE311D	A.C.	1	60	230	160 lbs.
CE313D	A.C.	3	60	220	160 lbs.
CE313F	A.C.	3	60	440	160 lbs.
CE313K	A.C.	3	25	220	160 lbs.
CE313VA	A.C.	3	25	440	160 lbs.

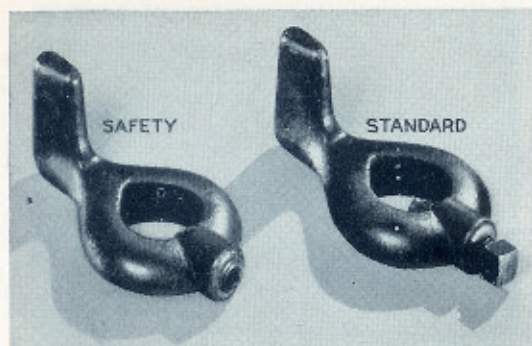
Wood Turning Rest



The Wood Turning Rest mounts on the compound rest base of the lathe to permit the use of hand tools for wood turning. Price of hand rest includes socket, one small rest 4" wide, and one large rest 12" wide. See page 20 for spur centers and cup centers for wood turning.



Cat. No.	Size Lathe	Shipping Weight
CL896N	9"	6 lbs.
CL896K	Light Ten	6 lbs.
CL896R	10"	7 lbs.
CL896T	13"	9 lbs.
CL896F	14 1/2"	12 lbs.
CL896H	16" & 16-24"	14 lbs.



Standard and Safety Lathe Dogs

Lathe dogs should correspond in capacity to the diameter of the work if the work is to be held securely. These lathe dogs are made of heavy malleable iron and are properly designed for maximum strength and long service. Tail of dog is shaped to fit slot in drive plate. The Standard Lathe Dog has square head alloy steel set screw. The Safety Lathe Dog has a headless alloy steel set screw. Wrenches required for headless set screws are listed in right-hand columns.

Lathe Dogs for 13" and Larger Lathes

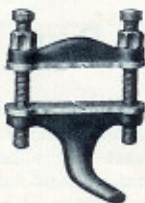
Cap. In.	Ship. Wt.	STANDARD		SAFETY		Wrenches for Safety Dogs	
		Cat. No.		Cat. No.		Cat. No.	
3/4	1 lb.	CE3843		CE3826		CE2385	
3/4	1 lb.	CE3844		CE3827		CE2386	
1	2 lbs.	CE3845		CE3828		CE2387	
1 1/4	2 lbs.	CE3846		CE3829		CE2388	
1 1/2	3 lbs.	CE3847		CE3830		CE2389	
1 3/4	3 lbs.	CE3848		CE3831		CE2389	
2	4 lbs.	CE3849		CE3832		CE2389	
2 1/2	5 lbs.	CE3850		CE3833		CE2390	
3	6 lbs.	CE3851		CE3834		CE2390	
3 1/2	7 lbs.	CE3852		CE3835		CE2390	
4	9 lbs.	CE3853		CE3836		CE2390	

Lathe Dogs for 9" and 10" Lathes

Cap. In.	Ship. Wt.	STANDARD		SAFETY		Wrenches for Safety Dogs	
		Cat. No.		Cat. No.		Cat. No.	
3/8	1 lb.	CE3837		CE3820		CE2385	
3/8	1 lb.	CE3838		CE3821		CE2385	
3/4	2 lbs.	CE3839		CE3822		CE2386	
1	2 lbs.	CE3840		CE3823		CE2387	
1 1/4	3 lbs.	CE3841		CE3824		CE2388	
1 1/2	3 lbs.	CE3842		CE3825		CE2388	

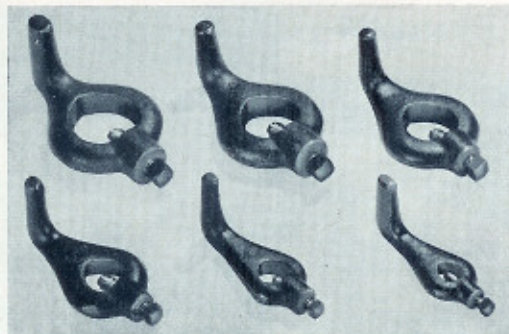
Clamp Lathe Dog

Made of heavy drop-forged steel, carefully machined and hardened. Practical for holding round, hexagonal or rectangular work. Screws have U. S. Standard thread and are hardened and tempered. The nuts permit adjusting screws for minimum projection of screw heads beyond body of lathe dog. Each clamp lathe dog is boxed separately.



Clamp Lathe Dogs

Catalog Number	Capacity		Size Lathe Used With	Shipping Weight
	Maximum Opening	Distance Between Screws		
CE160	1 1/8"	1 1/4"	9" & larger	1 lb.
CE161	1 1/2"	2 1/4"	13" & larger	2 lbs.
CE162	2 1/2"	2 1/4"	13" & larger	3 lbs.
CE163	3 1/4"	3 1/2"	14 1/2" & larger	4 lbs.



Sets of Lathe Dogs

A complete set of dogs for each lathe will save time and contribute to efficient operation. 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. CE2102. Set of 11 Standard Lathe Dogs, 1/2" to 4" capacity for 13" and larger lathes. Ship. wt. 36 lbs.

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

Cat. No. CE2105. Set of 6 Standard Lathe Dogs, 3/8" to 1 1/2" capacity for 9" and 10" lathes. Ship. wt. 6 lbs.

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

Center Gauge

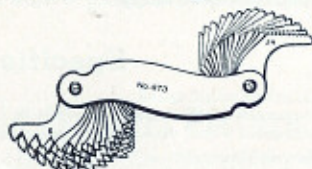
The center gauge is a useful tool for the lathe operator. The 60° included angle is used for checking the angle of the lathe center point. The two small 60° notches in the side of the tool are used for grinding and setting the point of the lathe tool for cutting screw threads. Engine divided graduations in each corner are in 32nds, 24ths, 20ths, and 14ths respectively. Made of good quality tool steel, hardened and tempered. Accurately ground on all faces, and lapped in the notches to a light tight fit with a standard.



No. CE650 Center Gauge. Shipping weight 2 ozs.

Screw Thread Pitch Gauges

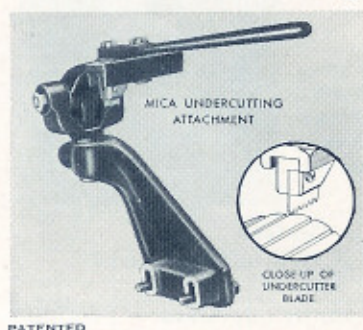
With one of these handy gauges you can check the pitches of internal and external screw threads quickly and accurately. Made of steel, with each blade marked to indicate threads per inch. Each blade has standard 60° U. S. thread form accurately milled and held well within commercial tolerances. Can be used for checking V, American National, and U. S. Standard threads.



CE2188. Ace screw pitch gauge with 14 blades for 10, 11, 12, 13, 14, 16, 18, 20, 24, 27, 28, 32, 36, and 40 threads per inch. Shipping weight 4 ozs.

CE2171. Starrett screw pitch gauge with 30 blades for 6, 7, 8, 9, 10, 11, 11 1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42, 48, 50, 56, and 60 threads per inch. Shipping weight 5 ozs.

Mica Undercutting Attachment



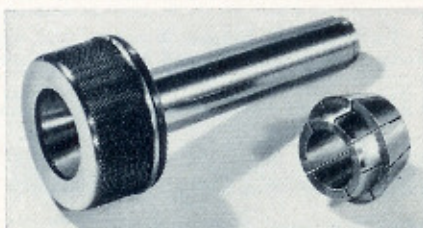
PATENTED

This prevents cutting into copper and throwing up burrs. A screw adjustment is provided for regulating the depth of the cut. Maximum length of stroke is 3". When not in use, the undercutter may be tilted back out of the way. Price includes one cutter blade .020" thick.

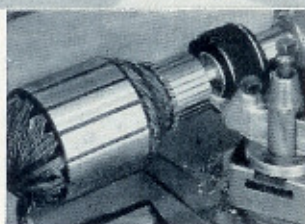
Catalog No.	Size Lathe	Ship. Weight
CL67SN	9"	7 lbs.
CL67SKR	Lt. Ten & 10"	10 lbs.
CL67ST	13"	12 lbs.
CL67SF	14 1/2"	15 lbs.
CL67SH	16"	17 lbs.

CE2028. Extra cutter .015" thick. Ship. wt. 1/2 lb.
CE2029. Extra cutter .020" thick. Ship. wt. 1/2 lb.

Adjustable Collet Bushing Chuck



The adjustable Collet Bushing Chuck provides an extremely accurate, but inexpensive equipment for mounting centerless armature shafts, and similar parts in the lathe. Can be used in either head or tail spindle of lathe. Collets are made of brass, and may be adjusted for either running fit or driving fit on shaft.



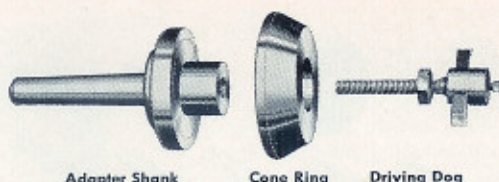
Description	Cat. No.	Shank	Shipping Weight
Adjustable Collet Bushing Chuck only.....	CE1615NR	No. 2	2 lbs.
	CE1615TH	No. 3	2 lbs.
Adjustable Collet Bushing Chuck with set of 3 collets, 3/16", 5/16", and .637" capacity for popular armatures...	CE1608NR	No. 2	3 lbs.
	CE1608TH	No. 3	4 lbs.

Cat. No. CE1659. Extra Collets for round work, any capacity 1/8" to 1" round by 16ths, ship. wt. 1 lb.

Complete Armature Service Equipment Kit

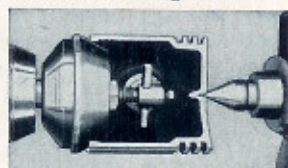
Consisting of mica undercutting attachment with two cutter blades; adjustable collet bushing chuck with set of three collets; drill chuck, 1/8" to 3/4" capacity for driving armatures; taper shank arbor with No. 3 shank for drill chuck; straight shank turning tool with cutter bit and wrench; and cutter bit ground for truing commutators.

Catalog No.	Size Lathe	Shipping Weight
CL2330N	9"	20 lbs.
CL2330K	Light Ten	22 lbs.
CL2330R	10"	22 lbs.
CL2330T	13"	26 lbs.
CL2330F	14 1/2"	28 lbs.
CL2330H	16"	30 lbs.



Self-Centering Piston Adapter

The Self-Centering Piston Adapter, shown at right is used for mounting semi-machined pistons in the lathe for machining to finished size. The long tapered shank fits into the lathe spindle and the short pilot centers various sizes of cone rings. The driving dog screws into the threaded hole in the end of the adapter, and is adjustable for driving any size of piston having a center hole in head.



Cat. No. CE144. Self-Centering Piston Adapter complete, consisting of Adapter Shank with No. 3 Morse taper, No. CE3645 Cone Ring for pistons 2 1/2" to 3 1/2" in dia., and Driving Dog. Shipping weight 7 lbs.

Extra Cone Rings

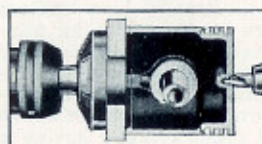
Cone Rings are used on the piston adapter, shown above, to center pistons in the lathe. Cone rings are listed below for centering pistons from 2 1/2" to 5" outside diameter. The No. CE3645 Cone Ring is included in the price of the piston adapter listed above.



Catalog Number	For Pistons Diameter	Shipping Weight
CE3645	2 1/2" to 3 1/2"	2 lbs.
CE3646	3 1/2" to 4 1/2"	3 lbs.
CE3647	3 1/2" to 4 1/2"	3 lbs.
CE3648	4 1/2" to 5"	4 lbs.

Piston Centering Ring

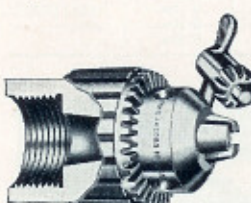
The Piston Centering Ring and Eye Bolt Driver are used with the No. CE144 Piston Adapter shank for holding pistons when it is necessary to drill a center hole in the head of the piston in order to mount it in the lathe. Centering Ring is 5 7/16" in diameter.



Cat. No. CE3644. Centering Ring and Eye Bolt Driver. Shipping weight 8 lbs.

Jacobs Valve Chuck

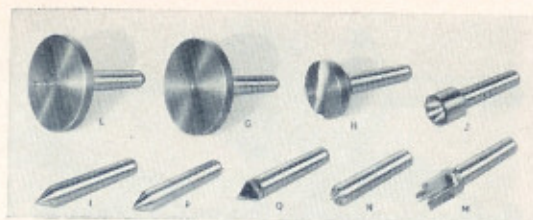
Chuck has 1 1/2"—8 thread to fit spindle nose of 9" and Light Ten lathes only. Has hollow body for holding automobile engine valves for relacing. Also used for holding small rods, bars, and tubes for machining. 5/8" chuck can be used in tailstock of lathe when fitted with solid arbor No. CE2304 or CE2305. Price and weight includes pinion key.



Cat. No.	Capacity	Ship. Wt.
CE907	1/8" to 5/8"	3 3/4 lbs.
CE925	5/8" to 1 1/2"	4 1/4 lbs.

Ground Cutter Bits for Truing Commutators

Size of Bit	Single Bit		Lot of Six Bits	
	Cat. No.	Ship. Wt.	Cat. No.	Ship. Wt.
1/4" sq.	CE1363	4 ozs.	CE1744	10 ozs.
5/16" sq.	CE1365	5 ozs.	CE1746	10 1/2 ozs.
3/8" sq.	CE1366	5 ozs.	CE1747	11 ozs.



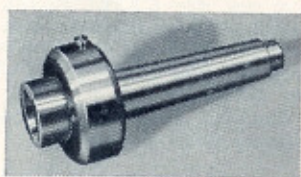
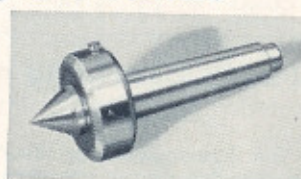
Lathe Centers and Drill Pads

G—Drill Pad, used in tailstock to support flat work for drilling.
H—Crotch Center, used in tailstock for drilling round work.
I—60° Center made of tool steel, heat-treated, hardened, and ground all over. For use in headstock or tailstock.
J—60° Hollow Center for supporting centerless armature shafts, etc.
L—Screw Center for wood turning.
M—Spur Center for wood turning.
N—Cup Center for wood turning.
P—Carbide Tipped Center for heavy duty use in tailstock.
Q—Half Center, used in tailstock for facing ends of shafts.

Catalog Number	Description	Morse Taper	Ship. Wt.
CE2396	G—Drill Pad.....	No. 2	3 lbs.
CE2397	G—Drill Pad.....	No. 3	4 lbs.
CE2398	H—Crotch Center.....	No. 2	2 lbs.
CE2399	H—Crotch Center.....	No. 3	3 lbs.
CE2401	I—60° Center.....	No. 2	1 lb.
CE2402	I—60° Center.....	No. 3	2 lbs.
CE1896	J—Hollow Center.....	No. 2	2 lbs.
CE1897	J—Hollow Center.....	No. 3	2 lbs.
CE2413	L—Screw Center.....	No. 2	3 lbs.
CE2414	L—Screw Center.....	No. 3	4 lbs.
CE2416	M—Spur Center.....	No. 2	2 lbs.
CE2417	M—Spur Center.....	No. 3	5 lbs.
CE2422	N—Cup Center.....	No. 2	1 lb.
CE2423	N—Cup Center.....	No. 3	2 lbs.
CE1889	P—Carbide Center.....	No. 2	1 lb.
CE1890	P—Carbide Center.....	No. 3	2 lbs.
CE2424	Q—Half Center.....	No. 2	1 lb.
CE2425	Q—Half Center.....	No. 3	2 lbs.

Ball Bearing Live Centers

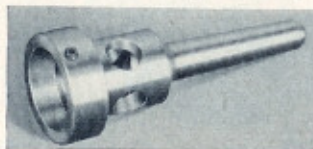
Designed for maximum strength and rigidity, the Ball Bearing Live Centers are recommended for high speeds and heavy roughing cuts. Two styles are available, one having a 60° external point as shown above at right, and one having a 60° hollow as shown in the lower illustration. Both styles are made with No. 2 and No. 3 Morse standard tapers. The substantial precision ball bearing in which the center runs is easily replaceable.



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.

Die Holder

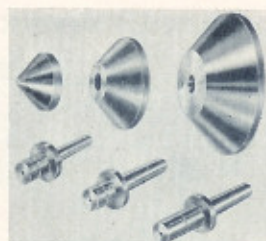
For holding standard 1" or 1½" diameter button dies in tailstock spindle of lathe for cutting screw threads on work held in lathe chuck. Die holder has ½" hole, 3" deep for stock clearance. Made of a single piece of steel.



Catalog Number	Takes Dies	Taper Shank	Shipping Weight
CE1829	1" diameter	No. 2	2 lbs.
CE1834	1" diameter	No. 3	3 lbs.
CE1838	1½" diameter	No. 2	2 lbs.
CE1839	1½" diameter	No. 3	3 lbs.

Pipe Centers

For mounting tubing, pipe, etc., between the lathe centers for machining. Centers have accurately ground 45° cone, and revolve on steel shanks.



Pipe Centers

Cat. No.	Takes Pipe	Requires Shank	Shipping Weight
CE2160	½" to 3"	CE2172	4 lbs.
CE2161	3" to 5"	CE2174	6 lbs.
CE2162	5" to 8"	CE2173	17 lbs.

Pipe Center Shanks

Cat. No.	Shank Taper	Take Centers	Shipping Weight
CE2172	No. 2	CE2160 & CE2161	2 lbs.
CE2174	No. 3	CE2160 & CE2161	3 lbs.
CE2173	No. 3	CE2162	4 lbs.



Knock-out Bar

For removing headstock center and sleeve from spindle. Made of steel, with knurled handle and brass bushing.

Catalog Number	Size Lathe	Outside Dia.	Total Length	Ship. Weight
CE1475NK	9" & L. Ten	¾"	16"	4 lbs.
CE1475R	10" 11/16" Col.	1"	17 1/8"	5 lbs.
CE1475L	10" 1" Col.	1 1/8"	17 1/8"	7 lbs.
CE1475QH	13", 14 1/8", 16", 16-24" & 2-H	1 3/8"	28 1/8"	7 lbs.

Combination Center Drill and Countersink

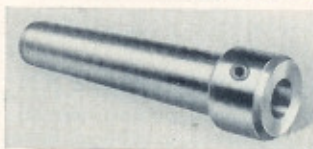


For drilling center hole and countersinking 60° angle for lathe center. Made of high speed tool steel.

Dia. of Drill	Dia. of Body	Single Drill		Lot of Twelve	
		Cat. No.	Ship. Wt.	Cat. No.	Ship. Wt.
1/8"	1/8"	CE2087	4 ozs.	CE2555	8 ozs.
1/4"	1/4"	CE2041	4 ozs.	CE2556	8 ozs.
3/8"	3/8"	CE2088	4 ozs.	CE2557	8 ozs.
1/2"	1/2"	CE2042	4 ozs.	CE2558	8 ozs.
3/4"	3/4"	CE2043	4 ozs.	CE2559	1 lb.
1"	1"	CE2044	6 ozs.	CE2560	2 lbs.

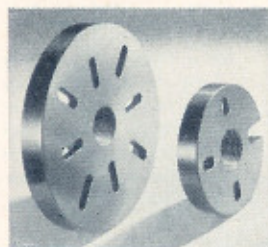
Cat. No. CE2554—Set of 6 Combination Center Drills and Countersinks, one of each.

Center Drill Holder



The Center Drill Holder is designed for greater accuracy in center drilling operations. Holds drill rigidly.

Catalog Number	Taper Shank	Diameter Will Hold	Shipping Weight
CE2338	No. 2	1/8"	1 lb.
CE2340	No. 2	1/4"	1 lb.
CE2339	No. 2	3/8"	1 lb.
CE2341	No. 2	.302"	1 lb.
CE2342	No. 2	7/16"	1 lb.
CE2346	No. 3	1/8"	2 lbs.
CE2343	No. 3	1/4"	2 lbs.
CE2347	No. 3	3/8"	2 lbs.
CE2344	No. 3	.302"	2 lbs.
CE2345	No. 3	7/16"	2 lbs.



Face Plates

Face Plates are heavily constructed and ribbed on the back. Threaded to fit spindle nose of the lathe. Large Face Plates have slots for clamping work or special face plate fixtures. Small Face Plates have slots for driving lathe dog.

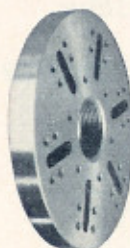
Small Face Plates for South Bend Lathes

Catalog Number	Size Lathe	Outside Dia.	Thread	Shipping Weight
CL2175NK	9", Lt. Ten & Series 900	5 1/2"	1 1/2"-8	4 lbs.
CL2175R	10"-11 1/16" Collet	5 3/8"	1 1/2"-8	5 lbs.
CL2175L	10"-1" Collet & Series 1000	5 3/8"	2 1/4"-8	5 lbs.
CL2175Q	13"-1" Collet	6 3/8"	2 1/4"-8	8 lbs.
CL2175MH	14 1/2", 16", 16-24", 1" Collet, & No. 2-H	8 1/8"	2 3/8"-6	13 lbs.

Large Face Plates for South Bend Lathes

Catalog Number	Size Lathe	Outside Dia.	Thread	Shipping Weight
CL2180NK	9", Lt. Ten & Series 900	7 3/8"	1 1/2"-8	8 lbs.
CL2180R	10"-11 1/16" Collet	8 3/8"	1 1/2"-8	10 lbs.
CL2180L	10"-1" Collet & Series 1000	8 3/8"	2 1/4"-8	10 lbs.
CL2180Q	13"-1" Collet	10 3/8"	2 1/4"-8	19 lbs.
CL2180MH	14 1/2", 16", 16-24", & 2-H	13 1/4"	2 3/8"-6	38 lbs.
CL2180V*	16-24"	22 3/8"	2 3/8"-6	96 1/2 lbs.

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



Multi-Tapped Face Plate

This heavily constructed face plate has 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 3/16"-18 threads. The face plate is made of cast iron, and is accurately machined all over. It has a precision milled thread for the spindle nose of the lathe, and is 7/8" thick.

Catalog Number	Size Lathe	Outside Dia.	Spindle Thread	Shipping Weight
CL1483NK	9", Lt. Ten & Ser. 900	8 1/2"	1 1/2"-8	13 lbs.
CL1483R	10"-11 1/16" Col.	8 1/2"	1 1/2"-8	13 lbs.
CL1483LQ	10" & 13", 1" Col. & Ser. 1000	8 1/2"	2 1/4"-8	13 lbs.

Sleeve for 10"-11 1/16" Collet Lathe



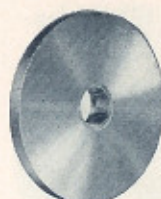
Cat. No. CL205RT. Special Spindle Sleeve with No. 3 Morse taper inside for fitting Piston Adapter Shank, Milling Arbor etc. to spindle of 10"-11 1/16" Collet Lathe. Shipping weight, 1 lb.

Taper Reducing Sleeve

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.



Fixture Plate

This Fixture Plate is used for mounting special fixtures, jigs, holding devices, and tools on the spindle nose of the lathe. Being accurately machined all over, and threaded to fit the spindle nose of the lathe, its use will save much time and expense when tooling up a lathe for a production operation which calls for a special holding fixture fitted to the spindle nose.

Catalog Number	Size Lathe	Outside Dia.	Spindle Thread	Shipping Weight
CL46NK	9", Lt. Ten & Ser. 900	7 1/2"	1 1/2"-8	9 lbs.
CL46R	10"-11 1/16" Col.	9"	1 1/2"-8	14 lbs.
CL46L	10"-1" Col. & Ser. 1000	9"	2 1/4"-8	14 lbs.
CL46Q	13"-1" Collet	10 1/4"	2 1/4"-8	22 lbs.
CL46MH	14 1/2", 16", 16-24", & No. 2-H	11 1/4"	2 3/8"-6	29 lbs.

Threaded Chuck Plate

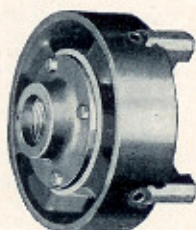
Semi-machined threaded chuck plates are supplied for those who wish to fit their own chucks to South Bend Lathes. These are heavily constructed cast-iron plates, accurately threaded to fit the spindle nose of the lathe. The back of the plate is finished, and the outside diameter and face are rough machined. When ordering, be sure to specify the correct plate to fit the diameter of the recess in back of chuck. Stock is allowed for finishing to diameter shown in the table.



Catalog Number	Size Lathe	Spindle Nose Th'd	O.D. of Plate	Shipping Weight
CE2703NK	9", Lt. Ten and Series 900	1 1/2"-8	3 1/2"	3 lbs.
CE2704NK			5"	4 lbs.
CE2709NK			7 1/2"	10 lbs.
CE2703LQ	10"-1" Col. Ser. 1000	2 1/4"-8	3 1/2"	4 lbs.
CE2704LQ			5"	5 lbs.
CE2705LQ			5 1/2"	6 lbs.
CE2707LQ			6 1/4"	7 lbs.
CE2708LQ			7 1/2"	11 lbs.
CE2709LQ			9"	13 lbs.
CE2710LQ	10"-11 1/16" Col.	1 1/2"-8	10 1/4"	18 lbs.
CE2703RT			3 1/2"	4 lbs.
CE2704RT			5"	6 lbs.
CE2705RT			5 1/2"	8 lbs.
CE2707RT			6 1/4"	9 lbs.
CE2708RT			7 1/2"	12 lbs.
CE2709RT	14 1/2", 16", 16-24", 1" Col., & 2-H	2 3/8"-6	9"	16 lbs.
CE2710RT			10 1/4"	20 lbs.
CE2704MH			5"	8 lbs.
CE2706MH	14 1/2", 16", 16-24", 1" Col., & 2-H	2 3/8"-6	5 1/2"	8 lbs.
CE2706MH			6"	9 lbs.
CE2707MH			6 1/4"	9 lbs.
CE2708MH			7 1/2"	13 lbs.
CE2710MH			10 1/4"	20 lbs.
CE2711MH			11 1/4"	24 lbs.

Chuck Plates Fitted to Chucks

Catalog numbers listed below cover fitting charges when chucks are shipped to us to be fitted with chuck plates threaded to fit South Bend Lathes. Fitting charges do not include transportation costs.

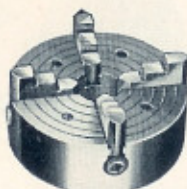


Catalog Number	Size Lathe
CE2935NK	9", Light Ten, & Series 900
CE2935RT	10"-11 1/16" Collet
CE2935LO	10"-1" Collet, Series 1000, & 13"-1" Collet
CE2935MH	14 1/2", 16", 16-24", 1" Collet, & 2-H

4-Jaw Independent Lathe Chucks

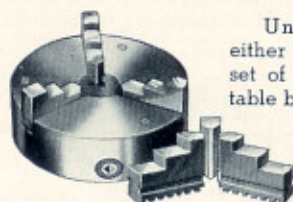
These chucks have four reversible jaws with individual screw adjustment. Chuck body is ground and chuck jaws are hardened and ground.

Price includes wrench, and chuck plate fitted to lathe spindle and chuck. Size chuck recommended for each size lathe is shown in **bold face type**.



Catalog Number	Size of Chuck	Size of Lathe	Ship. Wt.
CL4006NK	6"	9" and Light Ten	13 lbs.
CL4206NK	6"	9" and Light Ten	18 lbs.
CL4006R	6"	10"-1 1/4" Collet	13 lbs.
CL4206R	6"	10"-1 1/4" Collet	18 lbs.
CL4207R	7 1/2"	10"-1 1/4" Collet	37 lbs.
CL4006L	6"	10"-1" Collet	13 lbs.
CL4206LQ	6"	10"-1" Collet	18 lbs.
CL4207LQ	7 1/2"	10"-1" Collet	38 lbs.
CL4206LQ	6"	13"-1" Collet	18 lbs.
CL4207LQ	7 1/2"	13"-1" Collet	38 lbs.
CL4209Q	9"	13"-1" Collet	46 lbs.
CL4207MH	7 1/2"	14 1/2"-1" Collet	38 lbs.
CL4209MH	9"	14 1/2"-1" Collet	46 lbs.
CL4210MH	10"	14 1/2"-1" Collet	57 lbs.
CL4207MH	7 1/2"	16", 16-24", & 2-H	38 lbs.
CL4209MH	9"	16", 16-24", & 2-H	46 lbs.
CL4210MH	10"	16", 16-24", & 2-H	57 lbs.
CL4212H	12"	16", 16-24", & 2-H	96 lbs.

3-Jaw Universal Lathe Chucks



Universal Chucks are supplied either with two sets of jaws or with one set of reversible jaws as indicated in table below. Chuck body is ground and jaws are hardened. Chuck jaws are moved simultaneously by a scroll, and work is automatically centered. Price includes wrench and threaded chuck

plate fitted to lathe spindle. Size of chuck recommended for each size lathe is shown in **bold face type**.

Catalog Number	Size of Chuck	Size of Lathe	Ship. Wt.
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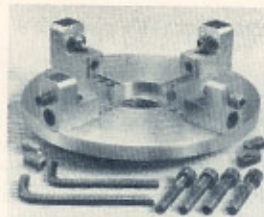
Universal Chucks With One Set of Reversible Jaws

CL6005NK	5"	9" and Light Ten	12 lbs.
CL6006NK	6"	9" and Light Ten	26 lbs.
CL6005R	5"	10"-1 1/4" Collet	12 lbs.
CL6005LQ	5"	10"-1" Collet	12 lbs.
CL6006R	6"	10"-1 1/4" Collet	26 lbs.
CL6006LQ	6"	10"-1" Collet	26 lbs.
CL6005LQ	5"	13"-1" Collet	12 lbs.
CL6006LQ	6"	13"-1" Collet	26 lbs.

Universal Chucks With Two Sets of Jaws

CL3005NK	5"	9" and Light Ten	13 lbs.
CL3505NK	5"	9" and Light Ten	19 lbs.
CL3506NK	6"	9" and Light Ten	28 lbs.
CL3005R	5"	10"-1 1/4" Collet	13 lbs.
CL3505R	5"	10"-1 1/4" Collet	19 lbs.
CL3506R	6"	10"-1 1/4" Collet	28 lbs.
CL3005L	5"	10"-1" Collet	13 lbs.
CL3505LQ	5"	10"-1" Collet	19 lbs.
CL3506LQ	6"	10"-1" Collet	28 lbs.
CL3505LQ	5"	13"-1" Collet	19 lbs.
CL3506LQ	6"	13"-1" Collet	28 lbs.
CL3507Q	7 1/2"	13"-1" Collet	47 lbs.
CL3505MH	5"	14 1/2"-1" Collet	19 lbs.
CL3506MH	6"	14 1/2"-1" Collet	28 lbs.
CL3507MH	7 1/2"	14 1/2"-1" Collet	47 lbs.
CL3509MH	9"	14 1/2"-1" Collet	59 lbs.
CL3505MH	5"	16", 16-24", & 2-H	19 lbs.
CL3506MH	6"	16", 16-24", & 2-H	28 lbs.
CL3507MH	7 1/2"	16", 16-24", & 2-H	47 lbs.
CL3509MH	9"	16", 16-24", & 2-H	59 lbs.

Face Plate Chuck

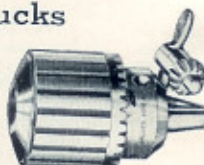


This inexpensive Face Plate Chuck can be used for holding round, square, or irregular work. Maximum capacity for round work is 7 1/2" in diameter. Face plate is 8" in diameter, with angular lines to aid in centering.

Catalog Number	Size of Lathe	Spindle Thread	Shipping Weight
CL2155NK	9" and Lt. Ten	1 1/2"-8	14 lbs.
CL2155R	10"-1 1/4" Col.	1 3/8"-8	16 lbs.
CL2155L	10"-1" Collet	2 1/4"-8	16 lbs.

3-Jaw Drill Chucks

These drill chucks are so constructed that they will hold the drill securely and accurately. Jaws are tempered steel. Price includes pinion key, but does not include arbor.



Cat. No.	Make of Chuck	Capacity of Chuck	Net Wt. Lbs.	Ship. Wt. Lbs.
CE1200	Jacobs	0 to 3/8 in.	1 1/2	17 1/2
CE1201	Jacobs	0 to 1/2 in.	1 3/8	2 1/2
CE1202	Jacobs	3/8 to 3/4 in.	3 1/2	3 1/2
CE1206	Jacobs	3/8 to 1 in.	6 3/8	7 1/2
CE219	Almond	0 to 3/8 in.	1 3/8	17 1/2
CE220	Almond	0 to 1/2 in.	1 3/8	2 1/2
CE327	Almond	3/8 to 3/4 in.	3 1/2	3 1/2
CE328	Almond	3/8 to 1 in.	5 3/8	6 3/8

Taper Arbors for Drill Chucks

For fitting drill chuck to taper of lathe headstock spindle or tailstock spindle.



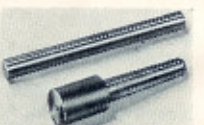
For Drill Chuck	No. 2 Morse Taper		No. 3 Morse Taper	
	Cat. No.	Ship. Wt.	Cat. No.	Ship. Wt.
CE1200	CE2300	3/8 lb.	CE2301	3/8 lb.
CE1201	CE2302	1/2 lb.	CE2303	3/8 lb.
CE1202	CE2304	1 1/2 lb.	CE2305	3/8 lb.
CE1206	CE2306	1 1/2 lbs.	CE2307	1 1/2 lbs.
CE219	CE2300	3/8 lb.	CE2301	3/8 lb.
CE220	CE2302	1/2 lb.	CE2303	3/8 lb.
CE327	CE2304	1 1/2 lb.	CE2305	3/8 lb.
CE328	CE2306	1 1/2 lb.	CE2307	1 1/2 lbs.

Straight Arbors for Drill Chucks

For Fitting Drill Chuck to Hole in Turret Head

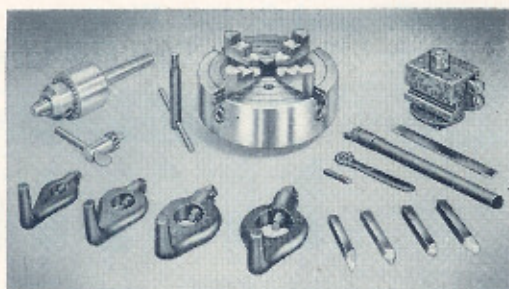
For Drill Chucks	3/8" Diameter		1/2" Diameter		1 1/4" Diameter	
	Cat. No.		Cat. No.		Cat. No.	
CE1200 or CE219	CE2360		CE2361		CE2377	
CE1201 or CE220	CE2362		CE2363		CE2378	
CE1202	CE2364		CE2365		CE2379	
CE1206	CE2366		CE2367		CE2380	
CE327 or CE328	CE2368		CE2369		CE2381	

Semi-Machined Drill Chuck Arbors



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.
CE2325	3/8" Diameter Straight	1 lb.
CE2326	1/2" Diameter Straight	1 lb.



Chuck and Tool Assortments

The chucks and tools in the assortments listed are recommended for use with the various sizes of South Bend Lathes. They include the basic equipment required for the average shop for general machine work, such as turning, boring, drilling, cutting-off, chucking, etc.

11-Tool Assortment with Independent Lathe Chuck

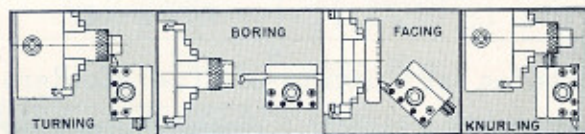
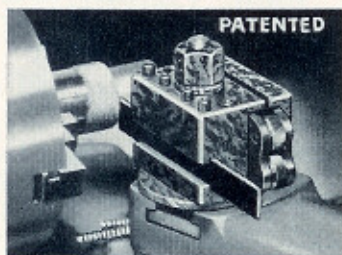
Item	Description
1	4-Jaw Independent Lathe Chuck fitted to lathe. Sizes: 6 in. on 9" and 10" Lathes; 7 1/2 in. on 13" Lathe; 9 in. on 14 1/2" Lathe; 10 in. on 16" and 16-24" Lathes.
2	Jacobs 3-Jaw Drill Chuck. Sizes: 1/2 in. on 9" and 10" Lathes; 3/4 in. on 13" and 14 1/2" Lathes; 1 in. on 16" and 16-24" Lathes.
3	Arbor Fitted to above Drill Chuck.
4	10 in 1 Tool Holder with medium diamond knurls.
5	4 Ground Cutter Bits for 10 in 1 Tool Holder.
6	Cut-off Blade for 10 in 1 Tool Holder.
7	Sleeve Boring Bar for 10 in 1 Tool Holder.
8-11	4 Malleable Lathe Dogs. Sizes: 1/2", 3/4", 1", and 1 1/4" on 9" and 10" Lathes; 1/2", 3/4", 1", and 1 1/2" on all others.

Complete Assortments as Listed Above

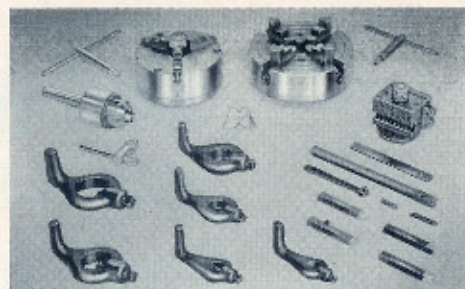
Catalog Number	Size Lathe	Shipping Weight
CL2820NK	9" & Lt. Ten	28 lbs.
CL2820R	10", 11 1/2" Collet	30 lbs.
CL2820L	10"-1" Collet	31 lbs.
CL2820O	13"-1" Collet	52 lbs.
CL2820M	14 1/2"-1" Collet	75 lbs.
CL2820H	16" & 16-24"	89 lbs.

10 in 1 Tool Holder

The 10 in 1 Tool Holder replaces the conventional tool post and various tool holders ordinarily used for general lathe work. It provides rigid support for turning, boring, threading, and cut-off tool bits. In addition, it is equipped with a self-aligning knurling head 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. This tool block can be adapted to fit other makes of lathes.



Catalog Number	Size Lathe Inches	Holds Cutter Bits Inch	Holds Boring Bars Inches	Holds Cut-off Blades Inch	Ship. Wt. Lbs.
CE1413NK	9 & Lt. Ten	3/8 x 3/8	3/8 to 3/4	3/8 x .595	5
CE1413R	10	3/8 x 3/8	3/8 to 3/4	3/8 x .595	5
CE1413T	13	3/8 x 3/8	3/8 to 1 1/4	3/8 x .735	7
CE1413F	14 1/2	3/8 x 3/8	3/8 to 1 1/4	3/8 x .870	10
CE1413H	16 & 16-24	3/8 x 3/8	3/8 to 1 1/4	3/8 x .870	10



15-Tool Assortment for 9" and Light Ten Lathes

This is a more complete assortment than those listed at left, and consists of the following equipment:

Item	Cat. No.	Description
1	CL4006NK	6" Four-Jaw Independent Lathe Chuck, fitted
2	CL6005NK	5" Three-Jaw Universal Lathe Chuck, fitted
3	CE1201	Jacobs Three-Jaw Drill Chuck, 1/2" capacity
4	CE2302	Taper Shank Arbor (No. 2 M.T.) fitted to Drill Chuck
5	CE1413NK	10 in 1 Tool Holder equipped with self-aligning knurling head having medium diamond knurls
6	CE2776	Set of 4 Ground Cutter Bits for 10 in 1 Tool Holder
7	CE876	Cutting-off Blade for 10 in 1 Tool Holder
8	CE2419	Sleeve Boring Bar for 10 in 1 Tool Holder. 1 1/2" x 7 1/2" Bar.
9	CE3837	3/8" Malleable Lathe Dog
10	CE3838	1/2" Malleable Lathe Dog
11	CE3839	3/4" Malleable Lathe Dog
12	CE3840	1" Malleable Lathe Dog
13	CE3841	1 1/4" Malleable Lathe Dog
14	CE3842	1 1/2" Malleable Lathe Dog
15	CE2169	Cutter Bit Grinding Gauge

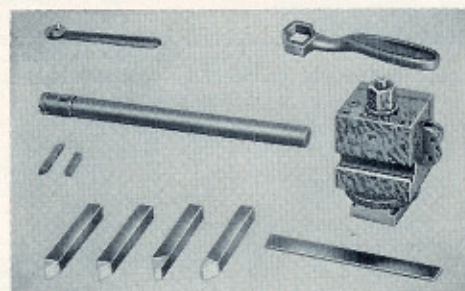
CL2845NK. Fifteen Tool Assortment as listed above. Shipping weight 38 lbs.

11-Tool Assortment With Universal Chuck

For 9-inch and Light Ten Lathes Only

This assortment is exactly the same as the No. CL2820NK assortment listed at left, except that a No. CL6005NK, 5" 3-jaw universal chuck is supplied in lieu of the 6" 4-jaw independent chuck.

CL2840NK. Eleven Tool Assortment with Universal Chuck for 9-inch and Light Ten Lathes. Ship. wt. 20 lbs.



10 in 1 Tool Holder Kit

You can save money by purchasing this 10 in 1 Tool Holder Kit complete with boring bar, cut-off blade, and set of four ground high speed steel cutter bits. Price also includes knurling head, bolt clamp, and all other equipment regularly supplied with the 10 in 1 tool holder.

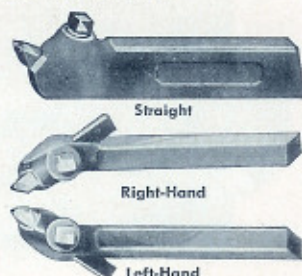
For specifications of tool holder see column at left. Descriptions and illustrations of cutter bits, boring bars, cut-off blades, and extra knurls, see pages 24 and 25.

Catalog No. of Kit	Size of Lathe	Items Included in Kit	Ship. Weight
CE2930NK	9" & Light 10	CE2776 Cutter Bits, CE2419 Boring Bar, CE876 Cut-off Blade	7 lbs.
CE2930R	10"	CE2776 Cutter Bits, CE2419 Boring Bar, CE876 Cut-off Blade	7 lbs.
CE2930T	13"	CE2777 Cutter Bits, CE2420 Boring Bar, CE878 Cut-off Blade	12 lbs.
CE2930F	14 1/2"	CE2778 Cutter Bits, CE2421 Boring Bar, CE879 Cut-off Blade	18 lbs.
CE2930H	16" & 16-24"	CE2778 Cutter Bits, CE2421 Boring Bar, CE879 Cut-off Blade	18 lbs.

Turning Tool Holders

Drop-forged steel, heat-treated and hardened lathe tool holders. Supplied in three styles: straight, right-hand, and left-hand as illustrated.

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



Cat. No.	Size Lathe	Size Shank	Size Cutter	Ship. Wt.
Straight Shank Turning Tool Holders				
CE847S	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	1 lb.
CE846S	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	2 lbs.
CE852S	13"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	3 lbs.
CE853S	14 $\frac{1}{2}$ ", 16" & 16-24"	$\frac{5}{8}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	3 lbs.

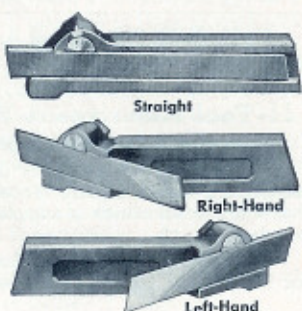
Right-Hand Turning Tool Holders				
CE847R	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	1 lb.
CE846R	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	2 lbs.
CE852R	13"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	3 lbs.
CE853R	14 $\frac{1}{2}$ ", 16" & 16-24"	$\frac{5}{8}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	3 lbs.

Left-Hand Turning Tool Holders				
CE847L	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	1 lb.
CE846L	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	2 lbs.
CE852L	13"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	3 lbs.
CE853L	14 $\frac{1}{2}$ ", 16" & 16-24"	$\frac{5}{8}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x $\frac{3}{4}$ "	3 lbs.

Cutting-off Tool Holders

Cutting-off tool holders are made of drop-forged steel, heat-treated and hardened. Supplied in three styles: straight, right-hand, and left-hand as illustrated.

Price includes: tool holder, one cutter blade, and wrench.



Cat. No.	Size Lathe	Size Shank	Size Cutter	Ship. Wt.
Straight Shank Cutting-off Tool Holders				
CE833S	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x .595"	1 lb.
CE736S	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x .475"	2 lbs.
CE883S	13"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x .735"	3 lbs.
CE884S	14 $\frac{1}{2}$ ", 16" & 16-24"	$\frac{5}{8}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x .870"	3 lbs.

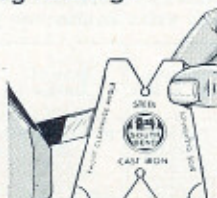
Right-Hand Cutting-off Tool Holders				
CE833R	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x .595"	1 lb.
CE736R	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x .475"	2 lbs.
CE883R	13"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x .735"	3 lbs.
CE884R	14 $\frac{1}{2}$ ", 16" & 16-24"	$\frac{5}{8}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x .870"	3 lbs.

Left-Hand Cutting-off Tool Holders				
CE736L	9", Lt. Ten. & 10"	$\frac{3}{8}$ " x $\frac{15}{16}$ "	$\frac{3}{8}$ " x .475"	2 lbs.
CE883L	13"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x .735"	3 lbs.
CE884L	14 $\frac{1}{2}$ ", 16" & 16-24"	$\frac{5}{8}$ " x $1\frac{1}{8}$ "	$\frac{3}{8}$ " x .870"	3 lbs.

Cutter Bit Grinding Gauge

For grinding the correct front clearance, side clearance, front rake, and side rake on lathe tool cutter bits for machining iron and steel. Made of stainless steel. Instructions for using are packed with each gauge.

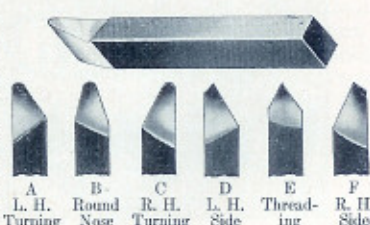
No. CE2169. Shipping weight $\frac{1}{2}$ lb.



Ground Cutter Bits for Forged Turning Tool Holders

These cutter bits are made of good quality high speed steel and are heat-treated and hardened.

When ordering, be sure to specify the catalog numbers and the letters designating shapes of bits wanted.



Ground High Speed Steel Cutter Bits

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

Ground Cutter Bits for 10 in 1 Tool Holders

High speed steel cutter bits ground for use in 10 in 1 tool holder listed on page 23. 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.
$\frac{1}{2}$	4	CE2268	8 ozs.	CE2777	2 lbs.
$\frac{5}{8}$	4 $\frac{1}{2}$	CE2269	1 lb.	CE2778	3 lbs.

Unground Cutter Bits

These cutter bits are the same quality as those listed above but they are not ground. They are heat-treated and hardened and are ready for use when sharpened. Specify catalog number and size when ordering cutter bits.

Unground High Speed Steel Cutter Bits

Catalog Number	Size Square	Length Cutter	Shipping Weight
CE3531	$\frac{1}{2}$ "	1"	3 ozs.
CE3532	$\frac{3}{8}$ "	1 $\frac{1}{2}$ "	3 ozs.
CE3533	$\frac{1}{4}$ "	2"	4 ozs.
CE3534	$\frac{1}{8}$ "	2 $\frac{1}{2}$ "	5 ozs.
CE3535	$\frac{1}{16}$ "	3"	5 ozs.
CE3536	$\frac{1}{32}$ "	3 $\frac{1}{2}$ "	7 ozs.
CE3537	$\frac{1}{64}$ "	4"	12 ozs.
CE3538	$\frac{1}{128}$ "	4 $\frac{1}{2}$ "	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.
$\frac{1}{8}$	1	.....	.....	CE2370	1 lb.
$\frac{1}{16}$	1 $\frac{1}{2}$	.....	.....	CE2371	1 lb.
$\frac{1}{32}$	2	CE1629	10 ozs.	CE2372	2 lbs.
$\frac{1}{64}$	2 $\frac{1}{2}$	CE1632	10 $\frac{1}{2}$ ozs.	CE2373	3 lbs.
$\frac{1}{128}$	3	CE1633	11 ozs.	CE2374	4 lbs.
$\frac{1}{256}$	3 $\frac{1}{2}$	CE2501	2 lbs.	CE2375	6 lbs.
$\frac{1}{512}$	4	CE2502	3 lbs.	CE2393	13 lbs.
$\frac{1}{1024}$	4 $\frac{1}{2}$	CE2503	4 lbs.	CE2376	15 lbs.

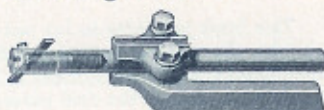
Blades for Cutting-off Tool Holders

Made from high-speed steel, heat-treated, hardened, ground on the edges, ready to use in tool holders or 10 in 1 Tool Holder.

Cat. No.	Size of Blade	Ship. Wt.
CE876	$\frac{3}{8}$ " x .595" x 5"	5 ozs.
CE1192	$\frac{5}{16}$ " x .475" x 4 $\frac{1}{2}$ "	5 ozs.
CE878	$\frac{1}{2}$ " x .735" x 6"	6 ozs.
CE879	$\frac{5}{8}$ " x .870" x 7"	8 ozs.

Style "B" Boring Tool

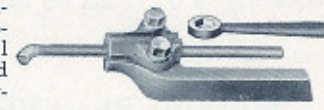
Made of drop-forged steel. Cutter can be set either straight or at a 45-degree angle. Price includes: drop-forged steel boring tool holder with hardened steel set screws, sleeve bar, end cap, two wrenches, and two unground high speed steel cutter bits. Will take the following sizes of boring bars: No. 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, Inches	Size of Cutter, Inch	Ship. Wt. Lbs.
CE423	9", Lt. 10, & 10"	$\frac{5}{16}$ x $\frac{3}{4}$	$\frac{1}{2}$ x $7\frac{1}{2}$	$\frac{1}{2}$ x $\frac{5}{16}$	2
CE431	13"	$\frac{1}{2}$ x $1\frac{1}{8}$	$\frac{3}{4}$ x 11	$\frac{1}{2}$ x $\frac{1}{2}$	5
CE432	14 $\frac{1}{2}$ ", 16", 16-24"	$\frac{5}{8}$ x $1\frac{1}{8}$	$1\frac{1}{2}$ x $13\frac{1}{4}$	$\frac{1}{2}$ x $\frac{1}{2}$	8

Style "D" Boring Tool

For boring or threading work of small internal diameter. Price includes drop-forged steel boring tool holder, one boring bar, and wrench. Will take the following sizes of boring bars: No. CE3175, $\frac{1}{8}$ " to $\frac{1}{2}$ "; No. CE3176, $\frac{1}{4}$ " to $\frac{3}{4}$ "; No. CE3177, $\frac{3}{8}$ " to 1".



Cat. No.	Size of Lathe	Size of Shank, Inches	Size Bar, Inches	Ship. Wt. Lbs.
CE3175	9", Lt. 10, & 10"	$\frac{5}{16}$ x $\frac{3}{4}$	$\frac{1}{4}$ x 5	2
CE3176	13"	$\frac{1}{2}$ x $1\frac{1}{8}$	$\frac{3}{8}$ x 7	4
CE3177	14 $\frac{1}{2}$ ", 16", 16-24"	$\frac{5}{8}$ x $1\frac{1}{8}$	$\frac{1}{2}$ x 8	6

Solid Boring Bar

For use with Style "B" and "D" Boring Tools and in the 10 in 1 Tool Holder. High speed steel tip welded onto carbon steel shank. Can be ground for either boring or internal thread cutting operations.



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

Sleeve Boring Bar

For use with Style "B" and "D" Boring Tools, 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. Price includes two cutter bits and wrench.



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

Plain Boring Bar

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



Cat. No.	Bar Size	Cutter Bit	Ship. Wt.
CE2119	$\frac{3}{4}$ " x $12\frac{1}{2}$ "	$\frac{1}{2}$ " x $\frac{1}{2}$ "	3 lbs.
CE2121	$1\frac{1}{4}$ " x 18"	$\frac{1}{2}$ " x $\frac{1}{2}$ "	8 lbs.

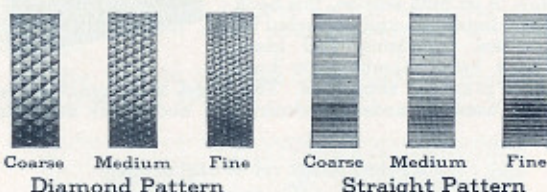
Knurling Tool

Knurling tool holder is made of drop-forged steel, heat-treated and hardened. Knurls are made of tool steel, hardened and tempered. Price includes: holder with choice of knurls in coarse, medium, or fine; straight, or diamond shape. When ordering specify pattern of knurls wanted; otherwise medium diamond knurls will be supplied.



Cat. No.	Size Lathe	Shank Size	Ship. Wt.
CE320	9", Lt. 10, & 10"	$\frac{5}{8}$ " x $\frac{3}{4}$ "	2 lbs.
CE365	9", Lt. 10, & 10"	$\frac{1}{2}$ " x $\frac{3}{4}$ "	2 lbs.
CE393	13"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	2 lbs.
CE394	14 $\frac{1}{2}$ ", 16", & 16-24"	$\frac{5}{8}$ " x $1\frac{1}{8}$ "	3 lbs.

Extra Knurls for Knurling Tool



For use with Knurling Tool listed above, and with 10 in 1 Tool Holder listed on page 23. Illustrations above show actual size of knurling produced. Supplied in pairs.

Cat. No.	Pattern	Size	Fits Knurling Tools	Ship. Wt.
CE3150	Fine Diamond	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE320 & CE365	4 ozs.
CE3151	Med. Diamond	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE320 & CE365	4 ozs.
CE3152	Coarse Diamond	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE320 & CE365	4 ozs.
CE3153	Fine Straight	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE320 & CE365	4 ozs.
CE3154	Med. Straight	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE320 & CE365	4 ozs.
CE3155	Coarse Straight	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE320 & CE365	4 ozs.
CE3156	Fine Diamond	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE393 & CE394	5 ozs.
CE3157	Med. Diamond	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE393 & CE394	5 ozs.
CE3158	Coarse Diamond	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE393 & CE394	5 ozs.
CE3159	Fine Straight	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE393 & CE394	5 ozs.
CE3160	Med. Straight	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE393 & CE394	5 ozs.
CE3161	Coarse Straight	$\frac{5}{8}$ " x $\frac{5}{8}$ "	CE393 & CE394	5 ozs.

(Fits all sizes of 10 in 1 Tool Holders.)

Threading Tool

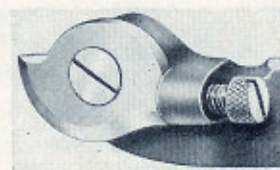
Made of drop-forged steel. Cutter requires grinding on top edge only to sharpen. Price includes: threading tool holder with hardened steel set screw; wrench; and one high speed steel single point cutter. Choice of 60° cutter for U.S. Standard, V, or metric thread; or 55° cutter for Whitworth Standard thread. When ordering specify cutter wanted. The 60° cutter will be furnished unless otherwise specified.



Cat. No.	Size of Lathe	Size of Shank	Ship. Wt.
CE345	9", Lt. 10, & 10"	$\frac{1}{2}$ " x $\frac{3}{4}$ "	2 lbs.
CE348	9", Lt. 10, & 10"	$\frac{1}{2}$ " x $\frac{3}{4}$ "	2 lbs.
CE367	13"	$\frac{1}{2}$ " x $1\frac{1}{8}$ "	3 lbs.
CE368	14 $\frac{1}{2}$ ", 16", & 16-24"	$\frac{5}{8}$ " x $1\frac{1}{8}$ "	4 lbs.

Extra Cutters for Threading Tool

For use with Threading Tools listed above. Made of high speed steel, thread angle ground to correct form and backed off for proper clearance. 60° cutters are for U.S. Standard, V, or metric threads. 55° cutters are for Whitworth Standard threads.



Catalog Number		Fits Thread Tools	Shipping Weight
60° Angle	55° Angle		
CE3480	CE3483	CE345 & CE348	3 ozs.
CE3481	CE3484	CE367	4 ozs.
CE3482	CE3485	CE368	5 ozs.

How to Run a Lathe

A Practical Handbook on Lathe Operation

"How to Run a Lathe" is a complete reference book and manual on the care and operation of the back-gear screw-cutting lathe. It is a practical handbook for the machinist, lathe operator, apprentice, or shop man. Clearly written in simple, non-technical language, the instruction material is easy for the beginner to understand. This authoritative text is illustrated with more than 360 photographs, diagrams, and sketches.

Now in its 50th edition, this book has been improved and perfected by suggestions, criticisms, and ideas that have been submitted by hundreds of practical shop men. The latest shop practices and methods used in modern industry are accurately described.



Partial List of Contents

History of the Lathe
Erecting and Leveling the Lathe
Operation of Lathe Controls
Lathe Tools and Their Application
How to Take Accurate Measurements

Machining Work Between Centers
Chuck Work
Taper Turning and Boring
Drilling, Reaming, and Tapping
Cutting Screw Threads
Special Classes of Work

How to Run a Lathe—Edition 50, 128 pages 5 1/8" x 7 7/8", more than 360 illustrations. Price postpaid to any address 25c in paper binding, \$1.00 in leatherette binding.



Motion Picture Films On Lathe Operation

The South Bend motion pictures on lathe operation may be borrowed without charge by industrial organizations, industrial and vocational schools, colleges, universities, Army and Navy training schools, industrial apprentice schools, and other recognized organizations teaching machine shop practice. When films are supplied on a free loan basis, the borrower pays the shipping charges both ways. All films supplied on a free loan basis are 16 mm sound films in full color.

Those who desire to keep these films permanently may purchase them at prices listed below. English language films are available in either color or black and white. Spanish and French language films are available in full color only. All are on 16mm sound film.

Subject	Black and White Films		Color Films	
	Catalog Number	Factory Price	Catalog Number	Factory Price
English Language Films				
Film No. I, "The Metal Working Lathe"	CE1620B	\$40.00	CE1620C	\$100.00
Film No. II, "Plain Turning"	CE1621B	43.00	CE1621C	110.00
Film No. III, "Grinding Cutter Bits"	CE1663B	47.00	CE1663C	115.00
Spanish Language Films				
Film No. I, "The Metal Working Lathe"			CE2714C	\$100.00
Film No. II, "Plain Turning"			CE2715C	110.00
Film No. III, "Grinding Cutter Bits"			CE2716C	115.00
French Language Films				
Film No. I, "The Metal Working Lathe"			CE2717C	\$100.00
Film No. II, "Plain Turning"			CE2718C	110.00

How to Run a Drill Press

This book tells how to lay out work, set up jobs, sharpen drills, and use drill press attachments and accessories. It identifies the various parts of the drill press, explains their functions and adjustment. Special classes of work such as drilling glass, buffing, mortising, etc., are included. Contains 32 pages 5 1/8" x 7 7/8" and more than 75 illustrations. Price postpaid \$0.25.



How to Run a Shaper

The care and operation of the small metal working bench shaper are fully covered in this manual. Clearly written text tells how to set up jobs and grind cutting tools. Various types of shaper operations are illustrated and described. Contains 32 pages 5 1/8" x 7 7/8", and 70 illustrations. Price postpaid \$0.25.



Machine Shop Book

The South Bend Machine Shop Course books are published in the English, French, Spanish, and Portuguese languages. They contain a series of projects ranging from simple articles beginners can make to useful tools requiring considerable skill and experience. Drawings show all dimensions clearly. Instruction sheets guide the student step by step through all operations for each project. These books are widely used by leading vocational schools.

Book No. 39-B. Printed in English, 32 pages, 8 1/2" x 11", twelve projects. Price postpaid, U. S. money.....\$0.50

Book No. 39-S. Printed in Spanish, 24 pages, 8 1/2" x 11", ten projects. Price postpaid, U. S. money.....\$0.25

Book No. 39-P. Printed in Portuguese, 24 pages, 8 1/2" x 11", ten projects. Price postpaid, U. S. money.....\$0.25



Machinery's Handbook

An engineering reference book for machinists, students, designers, engineers, and executives. It is a practical guide for use in conjunction with engineering and vocational courses. Has 1911 pages, 1310 illustrations.

Cat. No. CE700. Machinery's Handbook.

Wall Charts

These wall charts are printed on heavy paper, deep blue with white lines to simulate blue-prints. Suitable for framing.

Wall Chart CE260, "How to Become a Machinist." Size 13" wide by 22" high. Price each postpaid.....10c

Wall Chart CE777, "Decimal Equivalents." Size 13" wide by 19" high. Price each postpaid.....10c

Wall Chart CE890, "Principal Parts of a Lathe." Size 21 1/4" wide by 17 3/8" high. Price each postpaid.....10c

Wall Chart CE199, "Tap Drill Sizes." Size 13" wide by 19" high. Price each postpaid.....10c

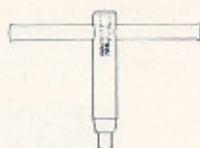
Wall Chart CE891, "Partes Principales Del Torno." Size 22" wide by 17" high. Printed in Spanish. Price each postpaid.....10c

Wall Chart CE800, "Como Llegar A Ser Un Maquinista." Size 15 1/2" wide by 20" high. Printed in Spanish. Price each postpaid.....10c

DECIMAL EQUIVALENTS			
1/16	0.0625	1/8	0.1250
1/8	0.1250	3/16	0.1875
3/16	0.1875	1/4	0.2500
1/4	0.2500	5/16	0.3125
5/16	0.3125	3/8	0.3750
3/8	0.3750	7/16	0.4375
7/16	0.4375	1/2	0.5000
1/2	0.5000	9/16	0.5625
9/16	0.5625	5/8	0.6250
5/8	0.6250	11/16	0.6875
11/16	0.6875	3/4	0.7500
3/4	0.7500	13/16	0.8125
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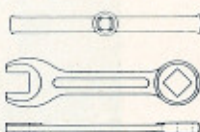
Chuck Wrenches

Catalog Number	Size Square	Shipping Weight
CE2741	.250"	2 lbs.
CE2748	.277"	2 lbs.
CE2742	.297"	1 lb.
CE2743	.375"	2 lbs.
CE2749	.400"	2 lbs.
CE2744	.420"	2 lbs.
CE2745	.437"	2 lbs.
CE2746	.570"	2 lbs.



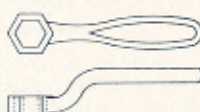
Tool Post Wrenches

Catalog Number	Size Lathe	Open End	Closed End	Lgth.	Thick-ness	Ship. Wt.
CE2650NK	9"	3/8"	3/8"	4"	3/8"	4 ozs.
CE2650R	10"	7/16"	7/16"	4"	3/8"	6 ozs.
CE2650T	13"	1/2"	1/2"	6"	3/8"	1 lb.
CE2650FH	14 1/2", 16", & 16-24"	9/16"	9/16"	6"	1/2"	1 lb.



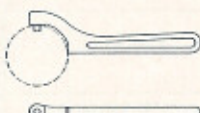
Tailstock Wrenches

Catalog Number	Size Lathe	Open- ing	Ex- treme Lgth.	Thick-ness	Ship. Wt.
CE2653NK	9"	13/16"	8 1/2"	1/4"	6 ozs.
CE2653R	10"	21/32"	6 5/8"	5/16"	1 lb.
CE2653T	13"	1 1/2"	7 7/8"	11/16"	2 lbs.
CE2653FH	14 1/2", 16", & 16-24"	1 1/2"	9 1/2"	1"	2 lbs.



Spanner Wrenches

Catalog No.	Circle Diameter	Extreme Length	Pin Size	Shipping Weight
CE2739	1 1/8"	4"	3/16"	5 ozs.
CE2740	1 1/2"	8"	7/16"	6 ozs.
CE2734	2 1/4"	6 1/2"	1 1/2"	1 lb.
CE2735	2 3/8"	7 1/2"	1 3/8"	1 lb.
CE2736	3"	8"	5/8"	1 lb.
CE2737	3 1/4"	8 1/2"	2 1/4"	1 lb.
CE2738	3 3/8"	9"	1 1/2"	2 lbs.



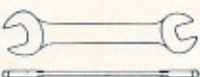
Hollow Hexagon Head Set Screw Wrenches

Catalog Number	Size Hex.	Extreme Length	Extreme Height	Shipping Weight
CE2391	3/8"	3 1/2"	3/8"	3 ozs.
CE2392	1/2"	2 1/2"	3/8"	3 ozs.
CE2385	3/8"	2 1/2"	1"	3 ozs.
CE2386	3/8"	2 1/2"	1 1/2"	4 ozs.
CE2387	1/2"	2 1/2"	1 1/2"	4 ozs.
CE2388	1/2"	3 1/2"	1 3/8"	4 ozs.
CE2389	3/4"	4 1/2"	1 3/8"	4 ozs.
CE2390	3/4"	4 1/2"	1 1/2"	6 ozs.



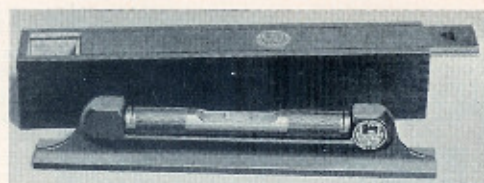
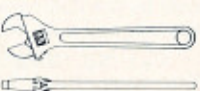
Double End Wrenches

Catalog No.	Large Opening	Small Opening	Length	Thick-ness	Shipping Weight
CE2655	1/4"	3/8"	4 7/8"	1/4"	8 ozs.
CE2656	5/16"	1/2"	6 1/2"	1/4"	1 lb.



8" Adjustable Wrench

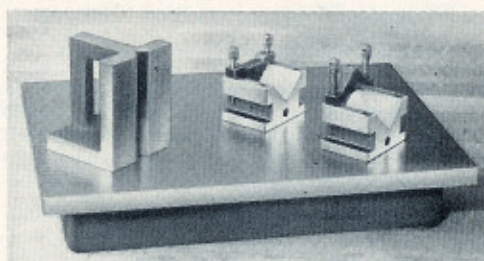
CE2747. Carbon steel drop-forged 8" adjustable wrench, maximum jaw opening 1 1/2". Ship. wt. 1 lb.



12" Precision Level

Precision tolerances can be maintained only when the lathe is properly leveled. With this 12" sensitive precision level, a lathe or other machine can be properly installed and leveled. The level has a ground and graduated vial mounted in a twelve inch cast iron frame with machined base having a V-way for leveling shafts. It has been carefully designed to provide just the right degree of sensitivity for quick and accurate leveling. Can be used only in horizontal position. We recommend that every shop be equipped with one of these levels.

Cat. No. CE2218. Precision Level. Packed in wooden case. Shipping weight 5 lbs.



Surface Plate

A heavy cast iron surface plate for laying out work, surfacing, checking flat surfaces, and general shop use. Top surface is precision ground and has wooden cover. Edges are machined and under side of edge is finished all around. Size 12" x 17" x 3", with top 3/4" thick. Approximate net wt. 64 lbs. CE2215. Shipping weight 75 lbs.

V-Blocks

These toolmaker's V-Blocks provide a rigid support for holding cylindrical parts and shafts for laying out and machining. Made of hardened steel with all surfaces precision ground. Each block is 2-15/16" wide, 1-15/16" high, 2 1/4" long. Holds round work 1/4" to 2" in diameter. Sold only in numbered sets. CE2216. Set of two V-Blocks. Shipping weight 8 lbs.

Angle Plate

Precision ground on six sides, this rigidly constructed cast iron angle plate has many uses. It serves as a square for laying out and setting up work. Size 3 1/4" x 3 1/4" x 4 1/4" with 5/8" V-groove.

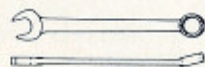
CE2214. Shipping weight 7 lbs.

Economy Surface Plate Kit

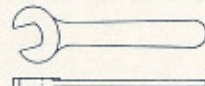
CE2931. Complete kit including Surface Plate, V-Blocks, and Angle Plate as described above. Shipping weight 90 lbs.

Open End Box Wrench

CE2675. Open End Box Wrench. 3/8" opening, 3/8" close. 1/2" thick, 10 1/2" long. Shipping weight 1 lb.

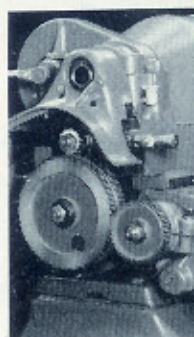


Single End Wrenches



Catalog Number	Opening	Length	Thickness	Shipping Weight
CE2657	3/8"	5 1/4"	3/16"	7 ozs.
CE2658	1/2"	5 1/2"	3/16"	8 ozs.
CE2670	3/8"	6 5/8"	1/4"	1 lb.
CE2671	1 1/8"	8 1/2"	5/16"	1 lb.

Right—Index Chart Showing Metric Screw Threads Cut with Metric Transposing Gears

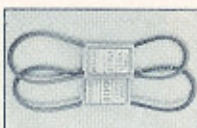


METRIC TRANSPOSING GEAR CHART
METRIC THREADS—CUTTER LEAD SCREW'S THREADS PER INCH

MM. PITCH	STANDARD	PLASTER	PLASTER
6.00	48	A	
2.00	144	A	
1.00	288	A	
0.50	576	A	
0.25	1152	A	
0.125	2304	A	
0.0625	4608	A	
0.03125	9216	A	
0.015625	18432	A	
0.0078125	36864	A	
0.00390625	73728	A	
0.001953125	147456	A	
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V-Belts

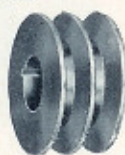
Rubber V-Belts for use with South Bend Lathes and other power driven machinery. Specify catalog number, maximum width, and outside circumference when ordering. Ship. wt. each, approximately $\frac{1}{2}$ lb.



Catalog Number	Maximum Width	Outside Circumference
CE4521A	13 $\frac{1}{2}$ in.	21 in.
CE4522A	13 $\frac{1}{2}$ in.	22 in.
CE4523A	13 $\frac{1}{2}$ in.	23 in.
CE4527A	13 $\frac{1}{2}$ in.	27 in.
CE4527B	13 $\frac{1}{2}$ in.	27 in.
CE4528B	13 $\frac{1}{2}$ in.	28 in.
CE4529B	13 $\frac{1}{2}$ in.	29 in.
CE4530B	13 $\frac{1}{2}$ in.	30 in.
CE4531B	13 $\frac{1}{2}$ in.	31 in.
CE4532B	13 $\frac{1}{2}$ in.	32 in.
CE4533C	13 $\frac{1}{2}$ in.	35 in.
CE4537C	13 $\frac{1}{2}$ in.	37 in.
CE4538C	13 $\frac{1}{2}$ in.	38 in.
CE4540C	13 $\frac{1}{2}$ in.	40 in.
CE4541C	13 $\frac{1}{2}$ in.	41 in.
CE4542C	13 $\frac{1}{2}$ in.	42 in.
CE4543C	13 $\frac{1}{2}$ in.	43 in.
CE4544B	13 $\frac{1}{2}$ in.	44 in.
CE4544C	13 $\frac{1}{2}$ in.	44 in.
CE4545B	13 $\frac{1}{2}$ in.	45 in.
CE4545C	13 $\frac{1}{2}$ in.	45 in.
CE4546B	13 $\frac{1}{2}$ in.	46 in.
CE4546C	13 $\frac{1}{2}$ in.	46 in.
CE4547B	13 $\frac{1}{2}$ in.	47 in.
CE4548B	13 $\frac{1}{2}$ in.	48 in.
CE4549B	13 $\frac{1}{2}$ in.	49 in.
CE4549C	13 $\frac{1}{2}$ in.	49 in.
CE4550C	13 $\frac{1}{2}$ in.	50 in.
CE4551C	13 $\frac{1}{2}$ in.	51 in.
CE4552C	13 $\frac{1}{2}$ in.	52 in.
CE4553B	13 $\frac{1}{2}$ in.	53 in.
CE4554B	13 $\frac{1}{2}$ in.	54 in.
CE4554C	13 $\frac{1}{2}$ in.	54 in.
CE4555C	13 $\frac{1}{2}$ in.	55 in.
CE4556B	13 $\frac{1}{2}$ in.	56 in.
CE4558B	13 $\frac{1}{2}$ in.	58 in.
CE4559C	13 $\frac{1}{2}$ in.	59 in.
CE4560B	13 $\frac{1}{2}$ in.	60 in.
CE4564B	13 $\frac{1}{2}$ in.	64 in.
CE4568B	13 $\frac{1}{2}$ in.	68 in.
CE4570B	13 $\frac{1}{2}$ in.	70 in.
CE4571B	13 $\frac{1}{2}$ in.	71 in.
CE4578B	13 $\frac{1}{2}$ in.	78 in.
CE4580B	13 $\frac{1}{2}$ in.	80 in.
CE4586B	13 $\frac{1}{2}$ in.	98 in.

Motor Pulleys for V-Belts

These motor pulleys are machined all over and have accurately reamed holes so that they will fit standard sizes of motor shafts properly and will run true. They are made of cast iron or aluminum, depending on size. Pulleys having $\frac{1}{2}$ " bore have a set screw for locking to motor shaft, all others have standard keyways.



Cat. No.	Dia.	Bore	Cat. No.	Dia.	Bore
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1-Groove Pulleys for $\frac{1}{2}$ " V-Belts

Approx. ship. wts., 2 $\frac{1}{2}$ " and 2 $\frac{3}{4}$ " pulleys $\frac{1}{2}$ lb., 3" and 3 $\frac{1}{2}$ " pulleys 1 $\frac{1}{2}$ lbs.

CE6342	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	CE6348	3"	1 $\frac{1}{2}$ "
CE6343	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "	CE6349	3"	1 $\frac{1}{2}$ "
CE6344	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	CE6350	3"	1 $\frac{1}{2}$ "
CE6345	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "	CE6351	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
CE6346	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	CE6352	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
CE6347	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "	CE6353	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "

2-Groove Pulleys for $\frac{1}{2}$ " V-Belts

Approx. ship. wts., 2 $\frac{1}{2}$ " pulleys 1 $\frac{1}{2}$ lbs., 2 $\frac{3}{4}$ " pulleys 2 lbs.

CE6354	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	CE6357	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "
CE6355	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	CE6358	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "
CE6356	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	CE6359	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "

4-Groove Pulleys for $\frac{1}{2}$ " V-Belts

Approx. ship. wts., 2 $\frac{1}{2}$ " and 2 $\frac{3}{4}$ " pulleys 2 lbs., 3 $\frac{1}{2}$ " and 3 $\frac{3}{4}$ " pulleys 4 lbs.

CE6360	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	CE6366	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
CE6361	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "	CE6367	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
CE6362	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	CE6368	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
CE6363	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "	CE6369	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
CE6364	2 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "	CE6370	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "
CE6365	2 $\frac{3}{4}$ "	1 $\frac{1}{2}$ "	CE6371	3 $\frac{1}{2}$ "	1 $\frac{1}{2}$ "

SOUTH BEND LATHE WORKS

Flat Leather Belts

Price includes belt lace and lacing instructions. Belts are long enough to permit skiving and gluing if desired. Ship. wt. each, approx. $\frac{1}{2}$ lb.



Catalog Number	Flat Leather Belt For Use On	Size and Kind of Belting
CE2323N	9" Horiz. M.D. Lathes with $\frac{1}{2}$ h.p. motor	Single Ply—Oak Tan $1\frac{1}{2}$ " x 58"
CE2312N	9" Horiz. M.D. Lathes with $\frac{1}{2}$ h.p. motor	Double Ply—Vim Oak $1\frac{1}{2}$ " x 58"
CE2323K	Light Ten Horiz. M.D. Lathes with $\frac{1}{2}$ h.p. motor	Single Ply—Oak Tan $1\frac{1}{2}$ " x 43"
CE2314K	Light Ten Horiz. M.D. Lathes with taper attachment, $\frac{1}{2}$ h.p. motor	Single Ply—Oak Tan $1\frac{1}{2}$ " x 81"
CE2312K	Light Ten Horiz. M.D. Lathes with $\frac{1}{2}$ h.p. motor	Double Ply—Vim Oak $1\frac{1}{2}$ " x 43"
CE2313K	Light Ten Horiz. M.D. Lathes with taper attachment, $\frac{1}{2}$ h.p. motor	Double Ply—Vim Oak $1\frac{1}{2}$ " x 51"
CE2315N	9" UMD Lathes	Double Ply—Vim Oak $1\frac{1}{2}$ " x 66 $\frac{1}{4}$ "
CE2316K	Light 10 UMD Lathes	Double Ply—Vim Oak $1\frac{1}{2}$ " x 67"
CE2315R	10" UMD Bench Lathes	Double Ply—Vim Oak $1\frac{1}{2}$ " x 64 $\frac{1}{4}$ "
CE2316R	10" UMD Floor Lathes	Double Ply—Vim Oak $1\frac{1}{2}$ " x 67 $\frac{1}{4}$ "
CE2316T	13" UMD Lathes	Double Ply—Vim Oak $1\frac{1}{2}$ " x 67 $\frac{1}{4}$ "
CE2316F	14 $\frac{1}{2}$ " UMD Lathes	Double Ply—Vim Oak $1\frac{1}{2}$ " x 70 $\frac{1}{4}$ "
CE2316H	16" UMD Lathes	Double Ply—Vim Oak $2\frac{1}{8}$ " x 74 $\frac{1}{4}$ "
CE2316V	16-24" UMD Lathes	Double Ply—Vim Oak $2\frac{1}{8}$ " x 82 $\frac{1}{2}$ "
CE2317H	16" UMD Lathes with 3 step cone pulley, or 2-H Turret Lathes	Double Ply—Vim Oak $2\frac{1}{8}$ " x 74 $\frac{1}{4}$ "

Belt Splicing Cement

Waterproof belt splicing cement for gluing endless leather belts with lapped joint. Four ounce can. Cannot be shipped by parcel post. CE1433. Shipping weight 6 ozs.



Touch-Up Enamel

For touching up and refinishing South Bend Lathes, Drill Presses, Shapers, and other machine tools. Made in two shades, light gray for current models, and dark gray to match older models of lathes. Cannot be shipped by parcel post.



Catalog Number		Size Can	Number of Cans	Ship. Wt.
Light Gray	Dark Gray			
CE2640	CE2455	Pint	1	2 lbs.
CE2641	CE2456	Quart	1	4 lbs.
CE2642	CE2457	Gallon	1	12 lbs.
CE2643	CE2470	Pint	6	10 lbs.
CE2644	CE2471	Pint	12	19 lbs.
CE2645	CE2472	Quart	6	19 lbs.
CE2646	CE2473	Quart	12	39 lbs.
CE2647	CE2474	Gallon	2	24 lbs.
CE2648	CE2475	Gallon	4	50 lbs.

Shop Aprons

Made of good quality 8 oz. white duck. Short apron (illustrated) is 22" long, 18" wide, with two roomy pouch type side pockets and one small center pocket 6 $\frac{3}{4}$ " deep suitable for carrying scale, calipers, micrometer, etc. Long apron (not illustrated) is 41" long, 28" wide, with one large pocket and two smaller pockets.

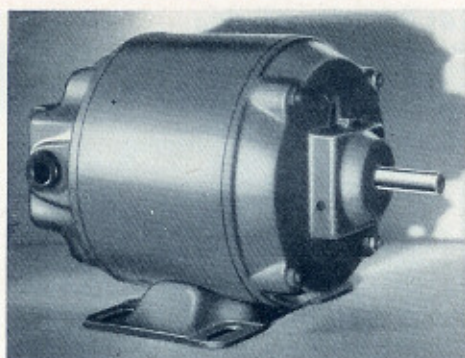
CE8520. Short Shop Apron. Ship. wt. 1 lb.

CE8521. Lot of six Short Shop Aprons. Ship. wt. 3 lbs.

CE8522. Long Shop Apron. Ship. wt. 1 lb.

CE8523. Lot of six Long Shop Aprons. Ship. wt. 3 $\frac{1}{2}$ lbs.





Motors for South Bend Lathes

All motors listed below are of the instant reversing type with the exception of Cat. No. CE3256B, which is a start-stop reversing motor. Single-phase A.C. motors $\frac{3}{4}$ h.p. and smaller are capacitor type with the exception of CE3256B which is split-phase. Information on motors for current characteristics other than those listed below supplied on request.

Catalog Number	Current Characteristics			
	Current	Phase	Cycle	Volts
2-1 h.p. 2-speed Motors for 16" and 16-24" Lathes				
CE2130	A.C.	3	60	220
1 $\frac{1}{2}$ h.p. Motors for 16", 16-24" and 14 $\frac{1}{2}$" Lathes				
CE2545D	A.C.	3	60	220
CE2548B	A.C.	1	60	115
CE2548D	A.C.	1	60	230
1 h.p. Motors for 13" Lathes				
CE2625D	A.C.	3	60	220
CE2628B	A.C.	1	60	115
CE2628D	A.C.	1	60	230
$\frac{3}{4}$ h.p. Motors for 10" Lathes				
CE2801D	A.C.	3	60	220
CE2804	A.C.	1	60	115
CE2805	A.C.	1	60	230
$\frac{1}{2}$ h.p. Motors for 9" Lathes				
CE3227D	A.C.	3	60	220
CE3228*	A.C.	1	60	115
$\frac{1}{4}$ h.p. Motors for 9" Lathes				
CE3250D	A.C.	3	60	220
CE3256B†	A.C.	1	60	115
CE3252*	A.C.	1	60	115
CE3253	A.C.	1	60	230

*Equipped with 6-ft. extension cord and plug when ordered with lathe.
†This is a $\frac{1}{2}$ h.p. split-phase motor.

Controls for Operating Motors

CE790. Heavy Duty Drum Reversing Control Switch for $\frac{1}{4}$ h.p. to $1\frac{1}{2}$ h.p. motors.

CE789. Drum Reversing Control Switch for use with $\frac{1}{4}$ h.p. and $\frac{1}{2}$ h.p. 115 v. motors for 9" and Light Ten Horizontal Motor Driven Bench Lathes only.

CE2567. Push-button operated Linestarter for 2-1 h.p. motor No. CE2130 only.



Motors for Drill Presses

CE4910B. Capacitor type $\frac{1}{2}$ h.p. motor for 115 v., 1 ph., 60 cy., A.C. Shipping weight 40 lbs.

CE3256B. Split-phase $\frac{1}{2}$ h.p. motor for 115 v., 1 ph., 60 cy., A.C. Shipping weight 40 lbs.

CE4920B. Capacitor type $\frac{1}{2}$ h.p. motor for 115 v., 1 ph., 60 cy., A.C. Shipping weight 50 lbs.

Motors for Shapers

CS4910B. Capacitor type $\frac{1}{2}$ h.p. motor for 115 v., 1 ph., 60 cy., A.C. Shipping weight 40 lbs.

CS3256B. Split-phase $\frac{1}{2}$ h.p. motor for 115 v., 1 ph., 60 cy., A.C. Shipping weight 40 lbs.

CS4920B. Capacitor type $\frac{1}{2}$ h.p. motor for 115 v., 1 ph., 60 cy., A.C. Shipping weight 50 lbs.



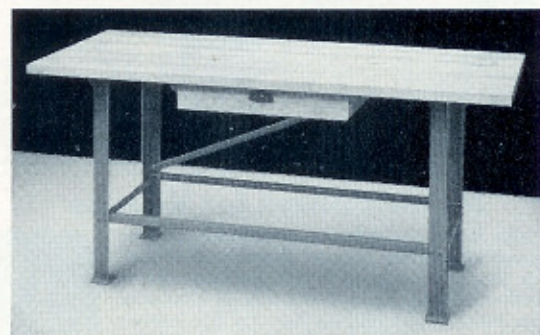
Patented Design

Tubular Steel Benches

Designed especially for our 9" and Light Ten Bench Lathes with horizontal motor drive, this sturdily constructed all steel bench will give your lathe the rigid support it needs for the most satisfactory operation. Bench is 32" high, 32" wide and 51 $\frac{1}{2}$ " long, large enough for lathes having beds up to 3 $\frac{1}{2}$ " long. May also be used for many other purposes.

Heavy gauge sheet metal panels are securely welded into the tubular frame. A built-in chip pan with $\frac{5}{8}$ " bead around the edge forms the top of the bench. This permits using a coolant if desired, and prevents chips from falling to the floor. Six drawers 10 $\frac{1}{2}$ " wide, 15" long, 5 $\frac{1}{2}$ " deep (inside dimensions) provide ample storage space for chucks, tools, lathe accessories, etc. Bench is nicely finished in gray wrinkle enamel.

CE1737. Tubular Steel Bench, 32" high, 32" wide, 51 $\frac{1}{2}$ " long, for 9" and Light Ten Horizontal Motor Driven Bench Lathes with 3' or 3 $\frac{1}{2}$ ' bed lengths. Shipping weight 336 lbs.



Angle Steel Bench With Wood Top

Heavy angle steel construction, 29 $\frac{3}{16}$ " high, with hardwood top 26" x 60" x 1 $\frac{1}{16}$ " thick. For 9" and Light Ten Horizontal Motor Driven Bench Lathes, any bed length. This also makes an ideal work bench for general shop use. Bench top is edge glued and has oil finish. Price does not include drawer, which is listed separately below.

Bench is shipped knocked down with all necessary bolts for assembling. Metal parts are finished with gray enamel. The sturdy construction of this bench makes it ideal for mounting a vise, surface plate, drill press, grinder, shaper, or other substantial equipment as well as the lathe. It is a big value and has many uses. Order several.

CE1780. Steel Bench with wood top (less drawer). Shipping weight, 84 lbs.

Drawer for Bench

CE1780D. Drawer for above bench, 20 $\frac{1}{8}$ " wide, 14" long, 3 $\frac{3}{16}$ " deep. Shipping weight 9 lbs.

Steel Machine Stand

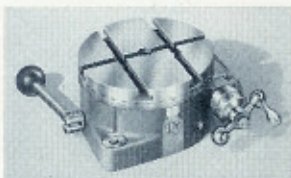
This sturdy, welded steel stand provides rigid support for a bench shaper, drill press, vise, jig saw, or other machine. Top has bolt holes punched for mounting shaper. A built-in chip pan forms the top of the stand permitting the use of coolant if desired. Three drawers 10 $\frac{1}{2}$ " x 5 $\frac{1}{2}$ " x 15 $\frac{3}{4}$ " inside, with key locks provide plenty of storage space for work, tools and accessories. Nicely finished with gray wrinkle enamel. Width 19", depth 36", height 25". Shipping weight 150 pounds.



CS9600. Steel Stand for Shaper.

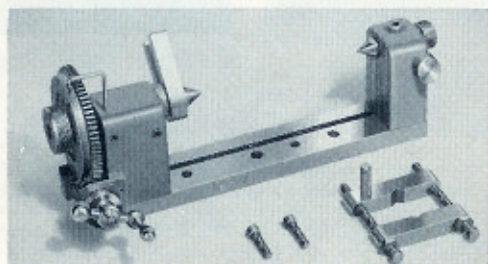
Indexing Table

You will find this rotary indexing table a great convenience for mounting small work on the milling machine, drill press, or shaper. Used for accurately spacing bolt holes, indexing clutch teeth, machining square, hexagonal or octagonal shapes, milling circular grooves or T-slots, etc. Table is 4 $\frac{1}{2}$ " in diameter and has three T-slots for clamping work. Edge of table is graduated 360°. Table is turned by worm gearing having graduated collar and ball crank. Each graduation indicates a table movement of 3 minutes. One complete revolution of the ball crank turns the table 5 degrees. Clamping device is provided for locking table in any position. Top of table is precision ground. Base has two bolt holes for clamping to machine table. Price includes eight clamping bolts with nuts and washers.



PATENT APPLIED FOR

CE9144. Indexing Table. Shipping weight 14 lbs.



PATENT APPLIED FOR

Indexing Centers

This is an indispensable device for cutting splines or flutes in shafts, laying out work, accurate cross drilling, gear cutting, milling or shaping hexagons, squares, etc. Base has bolt holes for clamping on table of drill press, milling machine or shaper. Takes work between centers up to 5" in diameter, 5 $\frac{3}{16}$ " long. Revolving center has large dial graduated 360°. Center is turned by worm gearing having graduated collar and ball crank. Each graduation indicates a center movement of 3 minutes. One complete revolution of the ball crank turns the center 5°. Worm gear can be disengaged for quick positioning of indexing center. Clamping device is provided for locking center in any position. Base has two bolt holes for clamping to machine table. Price includes two clamping bolts.

CE9635. Indexing Centers. Shipping weight 12 lbs.

Extension Shaper Tool

A rigid forged steel tool holder for internal work. Adapted for die work, internal keyways or for any work on the shaper in which extra clearance is needed. Size of bar is $\frac{1}{2}$ " x 7 $\frac{1}{2}$ ". Takes cutter bit $\frac{3}{16}$ " x $\frac{3}{16}$ ". Shipping weight 2 pounds.



CS9631. Extension Shaper Tool.

Wood Top Machine Stand

This is a heavily constructed angle steel stand 29 $\frac{3}{8}$ " high for mounting the bench shaper, drill press, or for other small machines. The glued wood top is 20" x 32" and is 1 $\frac{3}{16}$ " thick. Steel parts are finished in gray enamel. Shipping weight 52 lbs.

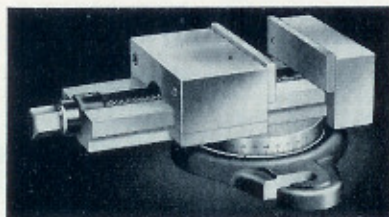


CE9141. Wood Top Machine Stand (less drawer).

Drawer for Machine Stand

Handy for keeping small tools, wrenches, etc. Finished to match stand CE9141. Drawer is 20 $\frac{1}{8}$ " wide, 14" long, 3 $\frac{3}{16}$ " deep. Price includes metal pull and wood slides. Shipping weight 9 lbs.

CE1780D. Drawer for use with Machine Stand.



Swivel Machine Vise

For holding work on drill press table, milling machine, shaper, etc. Swivel is graduated 180° to permit setting vise at any angle with slots in table. Jaws are hardened and are replaceable. Jaws are 4" wide and 1" deep. Maximum jaw opening is 4".

CE9100. Swivel Drill Press Vise. Shipping weight 18 pounds.

Tapping Attachment

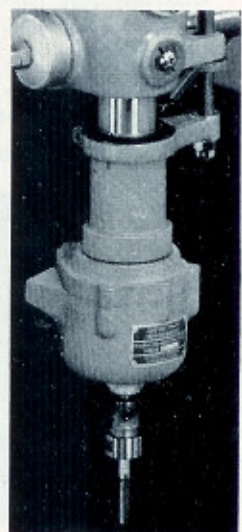
Jarvis Torqomatic Tapping Heads convert South Bend 14" Drill Presses into high speed, highly accurate tapping machines. Automatic reverse speed is twice forward speed. Quill mounting and No. 2 Morse taper spindle types shipped complete ready for use.

CE9145. Tapping head No. 0 to No. 10 tap capacity with No. 2 Morse taper arbor. Shipping weight 6 lbs.

CE9146. Tapping head No. 10 to $\frac{5}{16}$ " tap capacity with No. 2 Morse taper arbor. Shipping weight 7 $\frac{1}{2}$ lbs.

CD9147. Tapping head No. 0 to No. 10 tap capacity, quill mounting. Shipping weight 6 lbs.

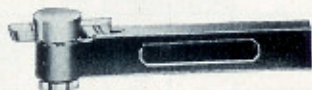
CD9148. Tapping head No. 10 to $\frac{5}{16}$ " tap capacity, quill mounting. Shipping weight 7 $\frac{1}{2}$ lbs.



Shaper Tool Holder

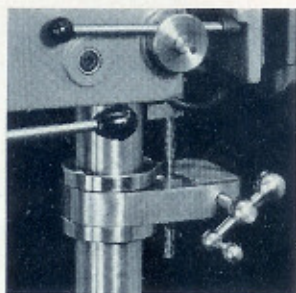
An extremely rigid forged steel tool holder for $\frac{1}{4}$ " square cutter bits. Adjustable to work at all angles. Head can be swiveled and locked at eight different positions for machining many odd shapes and for cutting various angles without shifting the work. Shipping weight 1 lb.

CS9630. Adjustable Shaper Tool Holder.



Head Positioning Attachment

The Head Positioning Attachment provides a quick and convenient means for adjusting the position of the drill press head on the column. The attachment can be used at any point on the column, and provides four inches of vertical adjustment at one setting. Enclosed worm gearing operated by a steel ball crank assures smooth, easy operation. The head positioning attachment can be swiveled around the column with the head to any desired angle. Designed for use with South Bend 14" Drill Presses, but can be fitted to any drill press having 2 3/4" column.

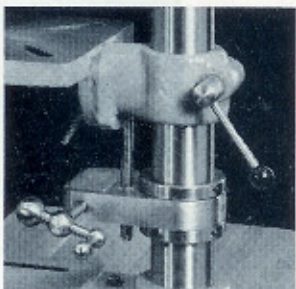


PATENT APPLIED FOR

CE9131. Head Positioning Attachment. Shipping weight 10 lbs. Price f.o.b. factory.

Table Positioning Attachment

This Table Positioning Attachment raises or lowers the drill press table. It provides precision adjustment and can be fitted to any drill press having a 2 3/4" diameter column. The attachment consists of a vertical screw operated by a steel ball crank through worm gearing. It is positioned on column by adjusting two lock rings and provides 4" of adjustment without resetting. The end of screw fits into a socket provided in table brackets of all South Bend Drill Presses. Table and attachment may be swiveled on column at any setting.



PATENT APPLIED FOR

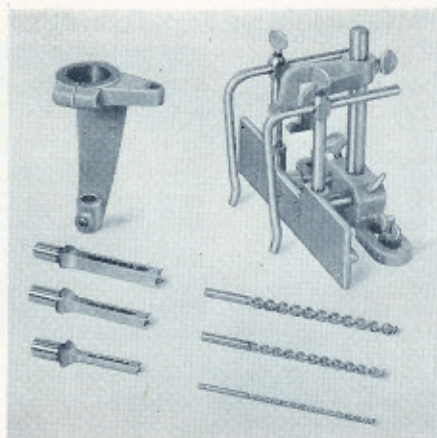
CE9130. Table Positioning Attachment. Shipping weight 10 lbs. Price f.o.b. factory.

Protect Your Machinery With Waterproof Service Covers

Use these durable waterproof oil resistant plastic machine tool service covers to protect your equipment overnight or whenever it is not in use. Effectively prevents dust and dirt from accumulating.

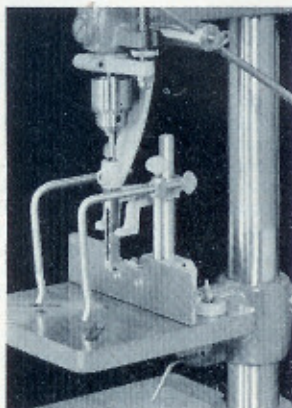


Catalog Number	Size, Inches			Suggested for	Ship. Wt.
	Wdth.	Lgth.	Ht.		
CE2693	12	28	28	14" Drill Press	2 lbs.
CE2694	21	37	24	7" Shaper	2 lbs.
CE2695	32	48	17	9" & 10" Lathe, 3' & 3 1/2' Bed	2 lbs.
CE2696	32	60	17	9" & 10" Lathe 4' & 4 1/2' Bed	3 lbs.
CE2697	38	72	25	13" & 14 1/2" Lathe, 4' & 5' Bed	3 lbs.
CE2698	38	96	25	13", 14 1/2", 16", 16-24" & 2-H Lathe, 6' & 7' Bed	3 lbs.



Mortising Attachment

This new South Bend Mortising Attachment converts any South Bend 14" Drill Press equipped with a 1/2" drill chuck into an efficient mortising machine. The improved fence assembly adjusts quickly and accurately for different thickness stock. The base clamps to the table and the fence adjusts on two steel posts. This design aids in eliminating alignment errors in the work. Two guide arms mount directly on the fence and are separately adjustable. A forked work hold down also adjusts on a vertical steel post mounted on the base. This fence assembly has many uses for guiding work other than mortising. It may be purchased separately.



The mortising chisel holder clamps on the drill press quill taking the place of the depth stop clamp.

Specifications

Capacity under work hold down, maximum.....	5 11/16"
Capacity guide rods to fence, maximum.....	4 1/8"
Distance fence adjusts without moving base on table.....	1"
Working depth of chisels:	
1 1/2".....	2 1/4"
1 3/4".....	2 3/4"
2".....	3 1/4"

Cat. No.

Description

- CE9151. Mortising Attachment Fence Assembly. Ship. wt. 10 lbs.
 CE9152. Mortising Chisel Holder. Shipping weight 3 lbs.
 CE9153. 1/2" Mortising Chisel and Bit. Shipping weight 1/2 lb.
 CE9154. 3/8" Mortising Chisel and Bit. Shipping weight 3/8 lb.
 CE9155. 1/2" Mortising Chisel and Bit. Shipping weight 1 lb.

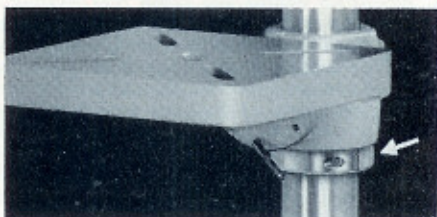


Table Support Ring

Clamped on the column beneath the drill press table, this support ring permits releasing the table clamp and swinging the table around the column to any position without danger of the table dropping down. Very convenient for surface grinding with cup wheel mounted in drill press spindle, and similar surfacing operations on wood or metal parts. Can also be used under drill press head.

CE9140. Table Support Ring. Ship. wt. 1 1/2 lbs.

Multi-Speed Attachment

The Multi-Speed Attachment for South Bend 14" Precision Model and Economy Model Drill Presses provides twelve spindle speeds 380 to 8,010 r.p.m. when used with 1725 r.p.m. motor. The attachment consists of an eccentric spindle, which is mounted in the drill press column to support a 4-step auxiliary cone pulley with two V-belts.



This attachment cannot be used with split phase motor No. CE3256B. Price includes eccentric spindle, 4-step cone pulley and two V-belts. Shipping weight 8 lbs.

CD9135A. For $\frac{1}{2}$ h.p. motor.
CD9135B. For $\frac{3}{4}$ h.p. motor.

Belt Guard

This belt guard provides complete enclosure for V-belt. Guard is hinged and may be raised for changing spindle speeds. May be used with or without Multi-Speed Attachment.



CD9136. Belt Guard for use with Precision Model Drill Press only. Shipping weight 16 lbs.

CD9137. Belt Guard for use with Economy Model Drill Press only, when supplied with drill press in lieu of regular guard.

CD9138. Belt Guard for use with Economy Model Drill Press only, when supplied separate from drill press. Shipping weight 50 lbs.

Balanced Pulleys for Economy Model Drill Press

Accurately machined and balanced spindle and motor pulleys for smooth operation at high speeds. Recommended for use with Multi-Speed Attachment on Economy Model Drill Presses. (Supplied as standard equipment on Precision Model Drill Presses.) Specify diameter of motor shaft when ordering. Shipping weight 8 $\frac{1}{2}$ lbs.



CE9133. Pair of pulleys with drill press in lieu of regular pulleys.

CE9160. Balanced Spindle Pulley only. Shipping weight 3 lbs.

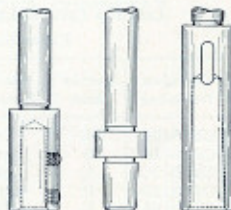
CE9161. Balanced Motor Pulley with $\frac{1}{2}$ " hole. Ship. wt. 3 lbs.

CE9162. Balanced Motor Pulley with $\frac{3}{4}$ " hole. Ship. wt. 3 lbs.

CE9163. Balanced Motor Pulley with $\frac{1}{2}$ " hole. Ship. wt. 3 lbs.

Extra Spindles for Drill Presses

Extra spindles are interchangeable with regular drill press spindles supplied with either the Economy Model or Precision Model Drill Presses.



CD9125. Spindle with No. 2 Morse taper hole for holding taper shank tools. Drift included. Shipping weight 3 lbs.

CD9126. Utility spindle with $\frac{1}{2}$ " x $1\frac{1}{2}$ " deep straight hole for holding routing tools, etc. Shipping weight 3 lbs.

CD9127. Spindle with short taper for $\frac{1}{2}$ " Drill Chuck No. CE1201. (Jacobs No. 34). Shipping weight 2 lbs.

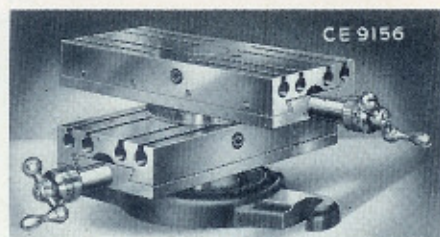
Chuck and Arbor for Drill Press

This drill chuck and arbor are recommended for use with drill presses having spindles with No. 2 Morse taper.



CE1201. Jacobs 3-jaw smooth body drill chuck, 0 to $\frac{1}{2}$ " capacity with pinion key. Shipping weight 2 $\frac{3}{4}$ pounds.

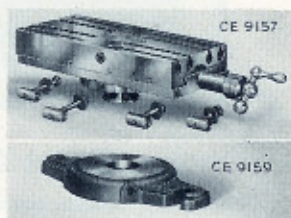
CE9110. No. 2 Morse taper shank arbor with tang, for fitting above chuck to drill press spindle No. CD9125. Shipping weight $\frac{3}{4}$ lb.



PATENT APPLIED FOR

Universal Table

Both upper and lower slides have graduated swivels and may be turned through full 360°. Slides can be used without graduated swivels to reduce height if desired. They can be positioned at any angle with each other and may be turned individually or together. Each slide has feed screw with micrometer collar reading in thousandths of an inch. Dovetails are equipped with full length gibs for take-up. The precision ground work surface is 4" x 8 $\frac{1}{4}$ " and maximum travel is 4" for either slide. Table has four slots for clamping work. Clamp bolts fit snugly into round slots in such a way that there is little danger of breaking out or otherwise damaging the slots. Supplied with base for use on drill press, milling machines, etc., also with a specially designed base for mounting on the South Bend 7" Shaper. Slides and bases may be purchased separately if desired.



CE9156. Universal Table complete with base for South Bend Drill Press or other machine tool, two slides, two graduated swivels, and eight clamp bolts with nuts. Shipping weight 43 lbs.

CE9150. Universal Table complete with base for South Bend 7" Shaper, two slides, two graduated swivels, and eight clamp bolts with nuts. Shipping weight 37 lbs.

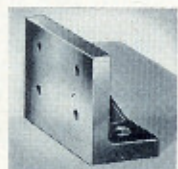
CE9157. Single Table with one graduated swivel and four clamp bolts with nuts. Shipping weight 19 lbs.

CE9158. Base only for adapting single table to South Bend 7" Shaper. Shipping weight 3 lbs.

CE9159. Base only for adapting single table to South Bend Drill Press or other machine tool. Shipping weight 8 lbs.

Angle Plate

A heavy cast iron angle plate for clamping work on shaper, drill press, milling machine, face plate of lathe, etc. Size 4 $\frac{1}{2}$ " x 3" x 2".



CE9640. Ship. wt. 4 lbs.

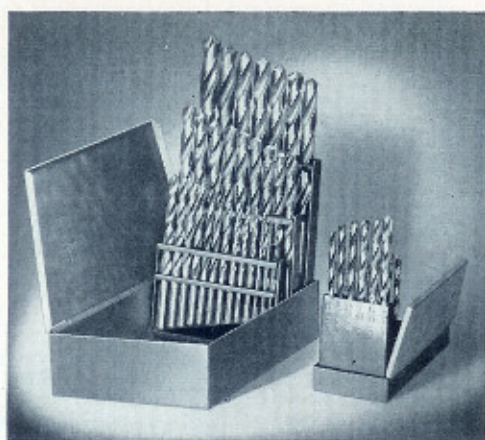
Tap and Die Sets

This is a Henry L. Hanson lightweight tap and die set packed in a compact tough composition case that will withstand hard usage. Set consists of one each No. 25 Die Stock,

No. 88 Tap and Reamer Wrench, No. 1E Tap wrench, No. 514 Screw Pitch Gauge, Screw Driver, and one each carbon steel Tap and Die in following sizes: 4 x 36, 6 x 32, 8 x 32, 10 x 24, 10 x 32, and 12 x 24 machine screw standard; $\frac{1}{4}$ x 20, $\frac{5}{16}$ x 18, $\frac{3}{8}$ x 16, $\frac{7}{16}$ x 14, and $\frac{1}{2}$ x 13 NC (U.S. Standard); $\frac{1}{4}$ x 28, $\frac{5}{16}$ x 24, $\frac{3}{8}$ x 24, $\frac{7}{16}$ x 20, and $\frac{1}{2}$ x 20 NF (SAE Standard, and $\frac{1}{8}$ " pipe thread. Dies are 1" outside diameter. Dies are supplied in adjustable type as listed. Shipping weight 6 lbs.



CE2187. Tap and Die Set with Adjustable Dies.



Twist Drill Sets

South Bend straight shank jobber length twist drills are made of high quality, high speed steel and are properly heat-treated for maximum strength and durability. Each drill is carefully finished and ground, and is stamped indicating its size. Drills are coated with rust resisting compound and packed in conveniently indexed steel cases. The drill size and decimal equivalent of each drill are clearly stamped in the case, indicating the hole into which the drill fits. The case for the number drill set is also stamped with tap drill and body drill sizes used for screw threads from No. 2-56 to No. 14-20 inclusive. Sold only in sets as listed. Individual drills are not supplied.

Sets of High Speed Steel Jobber Length Straight Shank Twist Drills in Metal Cases

Catalog Number	Description	Shipping Weight
CE6129	Set of 29 drills, fractional sizes, $\frac{1}{16}$ " to $\frac{1}{2}$ " inclusive by 64ths.....	5 lbs.
CE6113	Set of 13 drills, fractional sizes, $\frac{1}{16}$ " to $\frac{1}{4}$ " inclusive by 64ths.....	1 lb.
CE6121	Set of 21 drills, fractional sizes, $\frac{1}{16}$ " to $\frac{3}{8}$ " inclusive by 64ths.....	3 lbs.
CE6115	Set of 15 drills, fractional sizes, $\frac{1}{16}$ " to $\frac{1}{2}$ " inclusive by 32nds.....	3 lbs.
CE6260	Set of 60 drills, No. 1 to No. 60 inclusive..	2 lbs.
CE6326	Set of 26 drills, A to Z letter sizes, inclusive	5 lbs.

FRACTIONAL SIZES OF TWIST DRILLS

Each lot packed in paper envelope

Catalog Number	Frac. Size	Dec. Equiv.	Length Over-all	Quan. in Pkg.	Shipping Weight
CE6112.4	$\frac{1}{16}$ "	.0625	2 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6112.5	$\frac{3}{32}$ "	.0781	2 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6112.6	$\frac{1}{8}$ "	.0937	2 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6112.7	$\frac{5}{32}$ "	.1093	2 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6112.8	$\frac{3}{16}$ "	.125	2 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6112.9	$\frac{7}{32}$ "	.140	2 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6112.10	$\frac{1}{4}$ "	.156	2 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6112.11	$\frac{5}{16}$ "	.171	2 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6112.12	$\frac{3}{8}$ "	.187	2 $\frac{1}{2}$ "	12	4 ozs.
CE6112.13	$\frac{7}{16}$ "	.203	2 $\frac{1}{2}$ "	12	4 $\frac{1}{2}$ ozs.
CE6112.14	$\frac{1}{2}$ "	.218	2 $\frac{1}{2}$ "	12	5 $\frac{1}{2}$ ozs.
CE6112.15	$\frac{5}{8}$ "	.234	2 $\frac{1}{2}$ "	12	6 $\frac{1}{2}$ ozs.
CE6112.16	$\frac{3}{4}$ "	.250	2 $\frac{1}{2}$ "	12	7 $\frac{1}{2}$ ozs.
CE6112.17	$\frac{7}{8}$ "	.265	2 $\frac{1}{2}$ "	12	8 $\frac{1}{2}$ ozs.
CE6112.18	1"	.281	2 $\frac{1}{2}$ "	12	9 $\frac{1}{2}$ ozs.
CE6106.19	$\frac{1}{8}$ "	.296	4 $\frac{1}{2}$ "	6	5 $\frac{1}{2}$ ozs.
CE6106.20	$\frac{3}{16}$ "	.312	4 $\frac{1}{2}$ "	6	6 $\frac{1}{2}$ ozs.
CE6106.21	$\frac{1}{4}$ "	.328	4 $\frac{1}{2}$ "	6	7 $\frac{1}{2}$ ozs.
CE6106.22	$\frac{5}{16}$ "	.343	4 $\frac{1}{2}$ "	6	8 $\frac{1}{2}$ ozs.
CE6106.23	$\frac{3}{8}$ "	.359	4 $\frac{1}{2}$ "	6	9 $\frac{1}{2}$ ozs.
CE6106.24	$\frac{7}{16}$ "	.375	5 $\frac{1}{2}$ "	6	10 $\frac{1}{2}$ ozs.
CE6106.25	$\frac{1}{2}$ "	.390	5 $\frac{1}{2}$ "	6	11 $\frac{1}{2}$ ozs.
CE6106.26	$\frac{5}{8}$ "	.406	5 $\frac{1}{2}$ "	6	12 ozs.
CE6106.27	$\frac{3}{4}$ "	.421	5 $\frac{1}{2}$ "	6	14 ozs.
CE6106.28	$\frac{7}{8}$ "	.437	5 $\frac{1}{2}$ "	6	1 lb.
CE6106.29	1"	.453	5 $\frac{1}{2}$ "	6	1 lb.
CE6106.30	$\frac{1}{8}$ "	.468	5 $\frac{1}{2}$ "	6	1 lb. 4 ozs.
CE6106.31	$\frac{3}{16}$ "	.484	5 $\frac{1}{2}$ "	6	1 lb. 6 ozs.
CE6106.32	$\frac{1}{4}$ "	.500	6"	6	1 $\frac{1}{2}$ lbs.

NUMBER SIZES OF TWIST DRILLS

Each lot packed in paper envelope

Catalog Number	Gauge No.	Dec. Equiv.	Length Over-all	Quan. in Pkg.	Shipping Weight
CE6212.1	1	.2280	4"	12	6 $\frac{1}{2}$ ozs.
CE6212.2	2	.2210	3 $\frac{1}{2}$ "	12	6 $\frac{1}{2}$ ozs.
CE6212.3	3	.2130	3 $\frac{1}{2}$ "	12	5 $\frac{1}{2}$ ozs.
CE6212.4	4	.2090	3 $\frac{1}{2}$ "	12	5 $\frac{1}{2}$ ozs.
CE6212.5	5	.2055	3 $\frac{1}{2}$ "	12	5 $\frac{1}{2}$ ozs.
CE6212.6	6	.2040	3 $\frac{1}{2}$ "	12	5 $\frac{1}{2}$ ozs.
CE6212.7	7	.2010	3 $\frac{1}{2}$ "	12	4 $\frac{1}{2}$ ozs.
CE6212.8	8	.1990	3 $\frac{1}{2}$ "	12	4 $\frac{1}{2}$ ozs.
CE6212.9	9	.1960	3 $\frac{1}{2}$ "	12	4 $\frac{1}{2}$ ozs.
CE6212.10	10	.1935	3 $\frac{1}{2}$ "	12	4 $\frac{1}{2}$ ozs.
CE6212.11	11	.1910	3 $\frac{1}{2}$ "	12	4 $\frac{1}{2}$ ozs.
CE6212.12	12	.1890	3 $\frac{1}{2}$ "	12	4 $\frac{1}{2}$ ozs.
CE6212.13	13	.1850	3 $\frac{1}{2}$ "	12	4 $\frac{1}{2}$ ozs.
CE6212.14	14	.1820	3 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6212.15	15	.1800	3 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6212.16	16	.1770	3 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6212.17	17	.1730	3 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6212.18	18	.1695	3 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6212.19	19	.1660	3 $\frac{1}{2}$ "	12	3 $\frac{1}{2}$ ozs.
CE6212.20	20	.1610	3 $\frac{1}{2}$ "	12	2 $\frac{1}{2}$ ozs.
CE6212.21	21	.1590	3 $\frac{1}{2}$ "	12	2 $\frac{1}{2}$ ozs.
CE6212.22	22	.1570	3 $\frac{1}{2}$ "	12	2 $\frac{1}{2}$ ozs.
CE6212.23	23	.1540	3 $\frac{1}{2}$ "	12	2 $\frac{1}{2}$ ozs.
CE6212.24	24	.1520	3 $\frac{1}{2}$ "	12	2 $\frac{1}{2}$ ozs.
CE6212.25	25	.1495	3"	12	2 $\frac{1}{2}$ ozs.
CE6212.26	26	.1470	2 $\frac{1}{2}$ "	12	2 $\frac{1}{2}$ ozs.
CE6212.27	27	.1440	2 $\frac{1}{2}$ "	12	2 $\frac{1}{2}$ ozs.
CE6212.28	28	.1405	2 $\frac{1}{2}$ "	12	2 $\frac{1}{2}$ ozs.
CE6212.29	29	.1360	2 $\frac{1}{2}$ "	12	2 $\frac{1}{2}$ ozs.
CE6212.30	30	.1285	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.31	31	.1200	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.32	32	.1160	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.33	33	.1130	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.34	34	.1110	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.35	35	.1100	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.36	36	.1065	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.37	37	.1040	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.38	38	.1015	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.39	39	.0995	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.40	40	.0980	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.41	41	.0960	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.42	42	.0935	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.43	43	.0890	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.44	44	.0860	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.45	45	.0820	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.46	46	.0810	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.47	47	.0785	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.48	48	.0760	2 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.49	49	.0730	2"	12	1 $\frac{1}{2}$ ozs.
CE6212.50	50	.0700	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.51	51	.0670	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.52	52	.0635	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.53	53	.0595	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.54	54	.0550	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.55	55	.0520	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.56	56	.0465	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.57	57	.0430	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.58	58	.0420	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.59	59	.0410	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.
CE6212.60	60	.0400	1 $\frac{1}{2}$ "	12	1 $\frac{1}{2}$ ozs.

LETTER SIZES OF TWIST DRILLS

Each lot packed in paper envelope

Catalog Number	Letter Size	Dec. Equiv.	Length Over-all	Quan. in Pkg.	Shipping Weight
CE6312A	A	.234	3 $\frac{3}{8}$ "	12	7 $\frac{1}{2}$ ozs.
CE6312B	B	.238	3 $\frac{3}{8}$ "	12	7 $\frac{1}{2}$ ozs.
CE6312C	C	.242	3 $\frac{3}{8}$ "	12	7 $\frac{1}{2}$ ozs.
CE6312D	D	.246	4"	12	7 $\frac{1}{2}$ ozs.
CE6312E	E	.250	4"	12	8 ozs.
CE6312F	F	.257	4 $\frac{1}{8}$ "	12	8 $\frac{3}{4}$ ozs.
CE6312G	G	.261	4 $\frac{1}{8}$ "	12	8 $\frac{3}{4}$ ozs.
CE6312H	H	.266	4 $\frac{1}{8}$ "	12	9 ozs.
CE6312I	I	.272	4 $\frac{1}{8}$ "	12	9 $\frac{1}{2}$ ozs.
CE6312J	J	.277	4 $\frac{1}{8}$ "	12	9 $\frac{3}{4}$ ozs.
CE6312K	K	.281	4 $\frac{1}{8}$ "	12	10 $\frac{1}{4}$ ozs.
CE6306L	L	.290	4 $\frac{1}{4}$ "	6	5 $\frac{1}{2}$ ozs.
CE6306M	M	.295	4 $\frac{1}{4}$ "	6	6 ozs.
CE6306N	N	.302	4 $\frac{1}{4}$ "	6	6 $\frac{1}{4}$ ozs.
CE6306O	O	.316	4 $\frac{1}{4}$ "	6	6 $\frac{3}{4}$ ozs.
CE6306P	P	.323	4 $\frac{1}{4}$ "	6	7 $\frac{1}{4}$ ozs.
CE6306Q	Q	.332	4 $\frac{1}{4}$ "	6	7 $\frac{1}{2}$ ozs.
CE6306R	R	.339	4 $\frac{1}{4}$ "	6	8 $\frac{1}{4}$ ozs.
CE6306S	S	.348	4 $\frac{1}{4}$ "	6	8 $\frac{3}{4}$ ozs.
CE6306T	T	.358	4 $\frac{1}{4}$ "	6	9 $\frac{1}{4}$ ozs.
CE6306U	U	.368	5"	6	10 ozs.
CE6306V	V	.377	5"	6	10 $\frac{1}{4}$ ozs.
CE6306W	W	.386	5 $\frac{1}{8}$ "	6	11 ozs.
CE6306X	X	.397	5 $\frac{1}{8}$ "	6	12 ozs.
CE6306Y	Y	.404	5 $\frac{1}{8}$ "	6	12 $\frac{1}{2}$ ozs.
CE6306Z	Z	.413	5 $\frac{1}{8}$ "	6	13 $\frac{1}{4}$ ozs.

For Products Of
SOUTH BEND LATHE WORKS

Date....., 19.....

Distributor

Address

[illegible]

Mailing
Address _____
Street and Number

Amount of Order \$_____

City County State
 Shipping Address Street and Number

Payment Enclosed -----

Shipping Address	City	County	State

Street and Number			

City	County	State	

Please Ship By

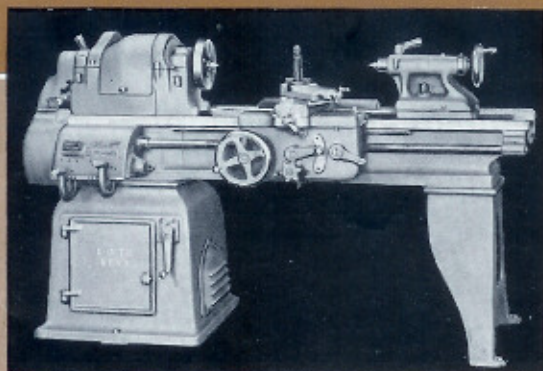
☐ Rail Freight ☐ Rail Express ☐ Motor Truck

Buyer's Signature

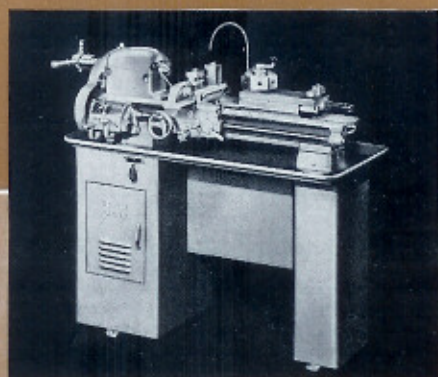
Name of Truck Line or Railroad

By _____
Partner if Partnership, Officer if Corporation

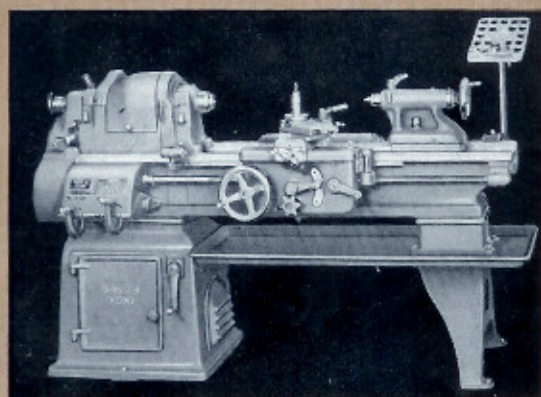
*For those
who want the best*



QUICK CHANGE GEAR LATHES
9" TO 16" SWING



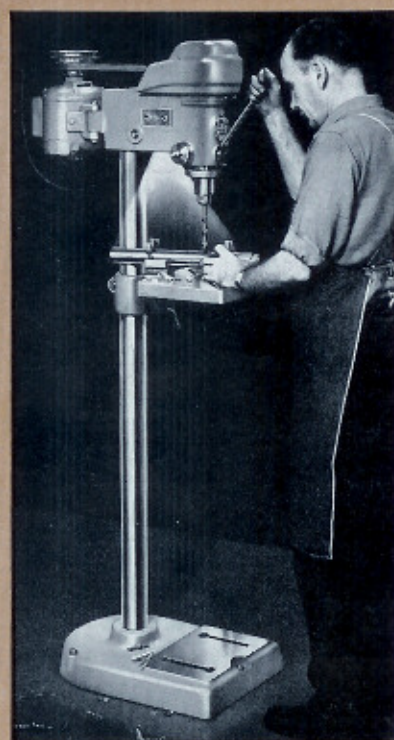
PRECISION TURRET LATHES
1/2" AND 1" COLLET CAPACITY



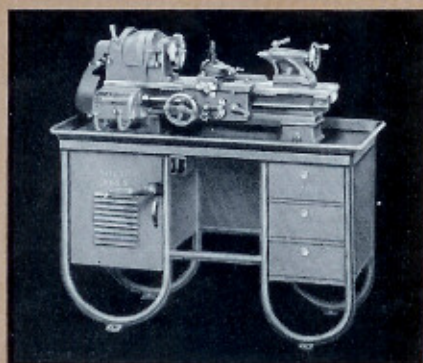
TOOLROOM LATHES, 9" TO 16" SWING



7" BENCH SHAPER



14" DRILL PRESS



BENCH LATHES, 9" AND 10" SWING

Write

FOR CATALOG, STATING SIZE AND TYPE OF
MACHINE IN WHICH YOU ARE INTERESTED.



SOUTH BEND LATHE WORKS

Building Better Tools Since 1906

425 E. Madison St., South Bend 22, Ind., U.S.A.