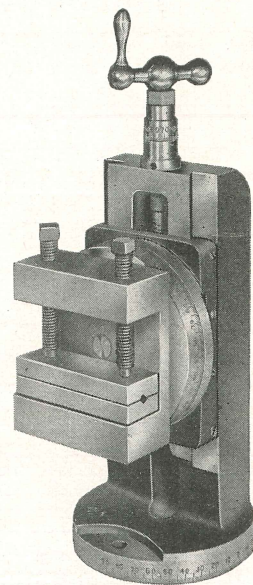


# LATHE ATTACHMENTS

## MILLING ATTACHMENT

The milling attachment equips the Clausing 12" lathe for face milling, cutting keyways and slots, milling dovetails, squaring shafts, making dies and moulds, etc. Quickly and easily installed by removing compound rest and clamping base of milling attachment in its place.

The milling attachment can be swiveled to hold work at any angle—base is graduated 90° right and left of center. Position of vise is controlled by a feed screw with micrometer graduated collar. Base of vise is graduated through a full circle and vise can be swiveled to any angle. Slide dovetail ways are precision-ground and fitted, have gib take-up for lasting accuracy. Two V-blocks furnished.



### SPECIFICATIONS

Vertical Feed ..... 3" Jaw Depth ..... 1"  
Vise Capacity ..... 2" Jaw Width ..... 3"

No. 7525 MILLING ATTACHMENT for Clausing 12" lathes. Complete as shown including graduated swivel vise, vertical feed screw with graduated collar, and two V-blocks. ZUVOG. 17 lb.

## WOODRUFF KEYWAY CUTTERS

For cutting Woodruff keyways, milling slots, grooves, T-slots, etc. 6 oz. each.

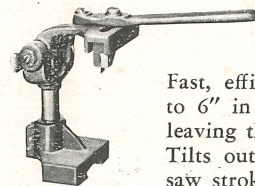
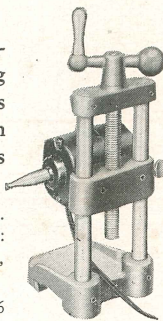
No.	Diameter	Thickness	Diam. Shank	Code
575A	1/2"	1/8"	1/2"	YALUH
575B	3/4"	3/16"	1/2"	YALYJ
575C	1"	1/4"	1/2"	YAMAD
575D	1 1/8"	5/16"	1/2"	YAMDA
575E	1 1/4"	3/8"	1/2"	YAMEF

## MICA UNDERCUTTER, ELECTRIC

For servicing armatures. Attaches to top of carriage saddle. Saw is fed through mica by turning lathe carriage handwheel. Height of cutter arbor is adjusted by elevation screw. Saw arbor is driven by a 105-130V, AC-DC, 25-60C motor. Handles armatures up to 6" in diameter.

No. 7516 MICA UNDERCUTTING ATTACHMENT. Motor has extension cord, switch and plug. Furnished: Set of 5 high speed undercutting saws (.015", .020", .025", .030" and .035"). ZUSBE. 10 lb.

No. 7520 SET OF 10 HIGH SPEED SAWS for No. 7516 undercutter (2 each of the following thickness: .015", .020", .025", .030" and .035"). ZUSOD. 1 oz.



## MICA UNDERCUTTER Hand Operated

Fast, efficient, easy-to-use—handles armatures up to 6" in diameter. Mounts on back of cross slide leaving the tool post free to hold the truing tool. Tilts out of the way when not in use. Length of saw stroke—2".

No. 7517 MICA UNDERCUTTER, Hand Operated. Complete with two saws—one .015" and one .020" thick. ZUSD0. 8 lb.

No. 7518 SIX .015" SAWS for No. 7517 Undercutter. ZUSEB. 1 oz.

No. 7519 SIX .020" SAWS for No. 7517 Undercutter. ZUSIC. 1 oz.

## METRIC CONVERSION GEARS

The Clausing 12" lathes in this catalog can be equipped for a wide range of metric threading operations with the assemblies listed below.

No. 7528 METRIC CONVERSION GEAR ASSEMBLY for 4800-series lathes with Quick-Change Gears. Includes metric transposing gears, quadrant, metal gear chart and additional change gears for cutting Metric threads from .75 to 6. mm. right or left hand. ZUWAD. 16 lb.

No. 7527 METRIC CONVERSION GEAR ASSEMBLY for 4800-Series lathes with Standard-Change Gears. Includes metric transposing gears, quadrant, metal gear chart and additional change gears for Metric threads from .2 to 6 mm. right or left hand. ZUVYJ. 17 lb.

## METRIC SCREWS AND COLLARS

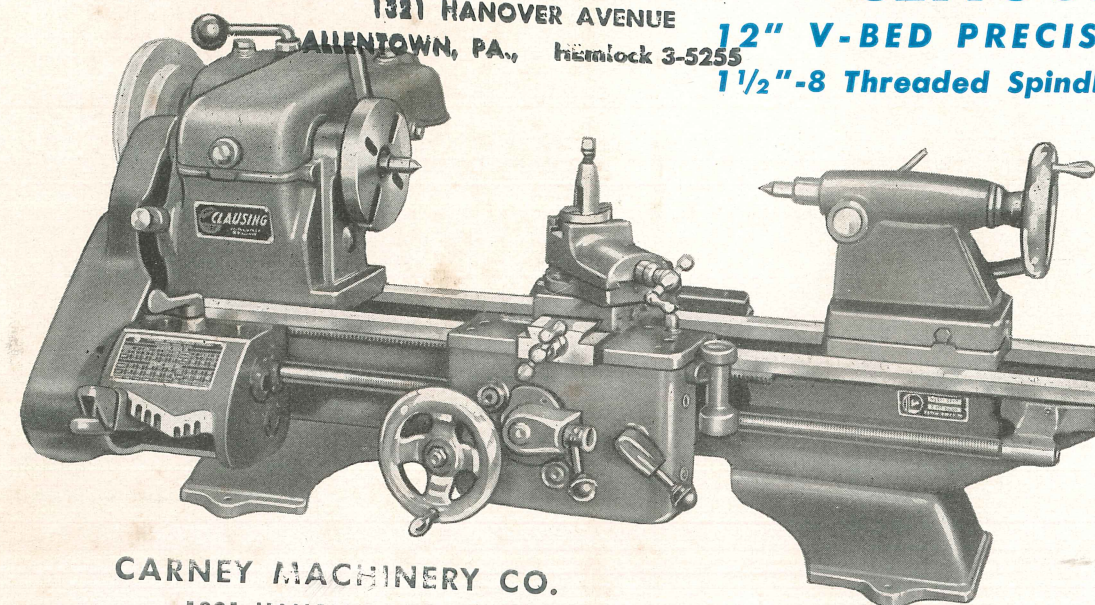
Metric screws and collars are available, as listed below, for direct reading in the metric system.

No.	Description	Code	Wt.
7583	Metric Cross Slide Lead Screw, 2 mm. Pitch.....	ZYJOG	3 lb.
7584	Metric Cross Slide Lead Screw Nut.....	ZYJUH	1 lb.
7586	Metric Compound Lead Screw, 2 mm. Pitch.....	ZYKAD	8 oz.
7587	Metric Compound Lead Screw Nut.....	ZYKDA	8 oz.
7585	Metric Micrometer Collars (2) .....	ZYJYJ	8 oz.

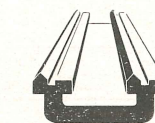
# CLAUSING

CARNEY MACHINERY CO.  
1321 HANOVER AVENUE  
ALLENTOWN, PA., HEmlock 3-5255

12" V-BED PRECISION LATHES  
1 1/2"-8 Threaded Spindle, 25/32" Bore



CARNEY MACHINERY CO.  
1321 HANOVER AVENUE  
ALLENTOWN, PA., HEmlock 3-5255



HEAVY DUTY  
PRECISION V-BED

★ 24" - 36" - 48" Centers ★ Wide Heavy Bed with 2 Vee Ways, 2 Flat Ways Precision Ground ★ Timken Bearings ★ 12 Speeds ★ Quick-Change Gears ★ 4-224 Thread Cutting Range ★ Automatic Apron with Splash Lubrication ★ Countershaft with Clutch and Brake ★ Hooded V-belt Drive ★ Integral Motor Mount

The Clausing is a rugged, heavy-duty general-purpose precision tool for production, tool room, maintenance, automotive, school and commercial shops.

The bed is thick-walled semi-steel grey-iron, 7 3/8" wide and 5 1/8" deep, with U shaped box ribs. Vee ways and flat ways are precision ground.

The headstock spindle turns on selected Timken tapered roller bearings that carry all radial and thrust loads with a minimum of friction. Back gears are enclosed in headstock casting. Hood guard covers top of headstock and countershaft—raising guard slacks drive belt for easy belt changes.

Built-in countershaft has friction-clutch and brake that permit instant starts and stops of spindle without stopping motor. Countershaft spindle turns on roller bearings.

The automatic apron is one-piece, double-walled, box-type. Power cross and longitudinal feeds are driven by slot in lead screw thru positive clutch. Split nut feed is used for threading only. Built-in safety lock. Splash lubrication.

Quick-change mechanism provides instant selection of 48 threads or feeds. All gear box shafts are ground, turn on ball bearings—gears are 1/2" wide steel.

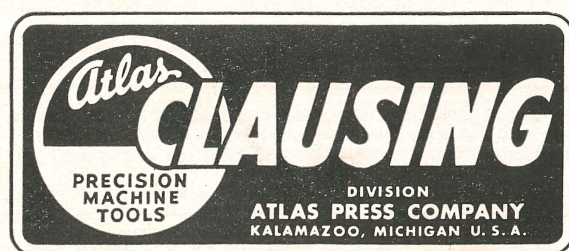
These are but a few of the features that assure greater accuracy, ease of operation, production and longer service with a Clausing. Read on the following pages the complete details of its design and construction.

No. 4803 CLAUSING LATHE, 12" swing, 24" centers, quick-change gears w/ clutch countershaft, less motor. 500 lb. ZUOJS.  
No. 4804 CLAUSING LATHE, 12" swing, 36" centers, quick-change gears w/ clutch countershaft, less motor. 535 lb. ZUOKT.  
No. 4805 CLAUSING LATHE, 12" swing, 48" centers, quick-change gears w/ clutch countershaft, less motor. 610 lb. ZUORC.  
STANDARD EQUIPMENT includes: 6" Face Plate, Two 60° Centers; Integral Motor Mount; Belts and Pulleys for complete B-belt drive; Wrenches; Instruction Book.

## SPECIFICATIONS

CAPACITY	Swing: 12 3/4" over bed; 12 1/4" over saddle wings; 7 1/2" over saddle. 24"-36"-48" between centers.
BED	7 3/8" wide, 5 1/8" deep. Two vee, two flat ways and underside of bed are precision-ground.
THREAD RANGE	48 selections. 4 to 224 Standard, right or left.
SPINDLE SPEEDS	Direct: 192, 338, 536, 768, 1080, 2170 RPM. Backgeared: 32, 57, 90, 128, 180, 362 RPM.
POWER LONGITUDINAL FEEDS	From .00065" to .037" (left or right) per revolution of spindle.
POWER CROSS FEED	From .00016" to .00917" per revolution of spindle Cross feed travel is 9".
LEAD SCREW	7/8" diam., 8 Acme threads per inch.
CROSS FEED SCREW	1/2" diam. Acme threads. Collar is graduated 0 to 1" by .001".
SPINDLE	1 1/2" diam. 8 threads. Bored for No. 3 Morse Taper, with reducing sleeve to take No. 2 M.T. 25/32" hole thru spindle. 1/2" collet capacity.
TAILSTOCK	1 3/16" diam. ram, 3" travel. No. 2 Morse Taper. 1" set-over.
COMPOUND REST	Graduated 0 to 90° right and left. 2 3/4" travel.
TOOL POST	Slot is 7/16" x 3/4" high. Takes 3/8" tool bits or tool holder for 1/4" tool bits.
MOTOR RECOMMENDED	1/2 to 3/4 HP, 1725 RPM.
COUNTERSHAFT DRIVE	Built-in. Has roller bearing equipped shaft; clutch and brake. 5/8" wide B-belts. 3-step drive pulley, 2-step motor pulley.

**CLAUSING 12" Precision Lathes and Accessories**  
Are Sold by:



# CONSTRUCTION FEATURES

**for Accuracy and Efficiency  
in Every Lathe Operation**

## PRECISION GROUND BED

The bed is a single, massive, semi-steel iron casting,  $7\frac{3}{8}$ " wide and  $5\frac{1}{8}$ " deep, thickly ribbed and braced. The ways are rough milled, seasoned, finish milled and then *precision ground*. Vee-ways, flat ways and under sides are ground — all eight surfaces align to within .001". The Clausing bed is a rugged precision foundation that maintains alignment of headstock, carriage and tailstock under heavy loads. Feet have jackscrews for quick, accurate leveling of the bed.

## TIMKEN EQUIPPED SPINDLE

Headstock spindle turns on *selected Timken tapered roller bearings*. These fine bearings carry all radial and thrust loads with a minimum of friction. They permit high-spindle-speed work as well as turning at normal speeds — assure long accuracy life. Have take-up nut for adjustment. The headstock is thick-walled grey-iron, rib-braced and reinforced for permanent rigidity and strength.

Headstock spindle is machined from a solid bar of alloy steel. Spindle and spindle taper are precision ground. Spindle has  $25/32$ " bore.

Backgears are housed in the headstock casting. Hood guard covers top of headstock and countershaft. Lifting guard slacks drive belt — changing speeds is a quick, easy job. Backgears are engaged by pulling the bull gear lock pin and shifting the backgear lever forward.

## CLUTCH AND BRAKE EQUIPPED COUNTERSHAFT

Countershaft is built-in — turns on roller bearings. Has friction clutch and brake that permit instant starts and stops of headstock spindle without stopping motor. Moving clutch lever to right engages spindle drive, moving lever to left disengages it, and shoving lever to extreme left tightens brake band, stopping the spindle. For safety, headstock hood will not open unless clutch is disengaged, and clutch won't engage unless hood is closed. Drive is powered by B-belts. Motor mount is integral.

## DOUBLE WALLED AUTOMATIC APRON

Apron is thick, one-piece, double walled — a rugged housing

for the gears and clutch. Gears in apron are  $\frac{1}{2}$ " wide, run on ground steel shafts supported by wide bearings in *both* front and back wall of apron. Gears and shafts *run in bath of oil*.

Power feeds are engaged by a positive clutch working thru worm and worm gear. Shift knob on face of apron is pushed in and down to set cross feed — pulled out and up for longitudinal feed. Slot in lead screw drives cross and longitudinal feeds — split-nut feed is used for threading only. Built-in safety lock makes it impossible to engage feeds and half nuts at same time.

Saddle bearing surfaces are accurately machined and hand fitted. Heavy plate on each side of saddle bears on bottom of bed ways to prevent lift and twist. Four bed wipers, one at each corner of carriage, clean and oil the ways. Cross slide bridge is wide and deep — a rigid support for the compound rest. Cross slide dovetails are precision ground square with saddle ways.

Top of cross slide, underside of compound rest base, tool post slide ways and top of tool post slide are precision ground. Cross slide and tool post slide have gib-adjustment for take-up. Compound is machine graduated  $180^\circ$  — turns complete circle and locks rigidly in any position. Cross slide travel is 9", tool post slide travel is  $2\frac{3}{4}$ ".

Tool post, ring and rocker are tough, heat-treated alloy steel. Tool post slot takes  $\frac{3}{8}$ " tool bits or holder for  $\frac{1}{4}$ " bits.

## QUICK-CHANGE MECHANISM

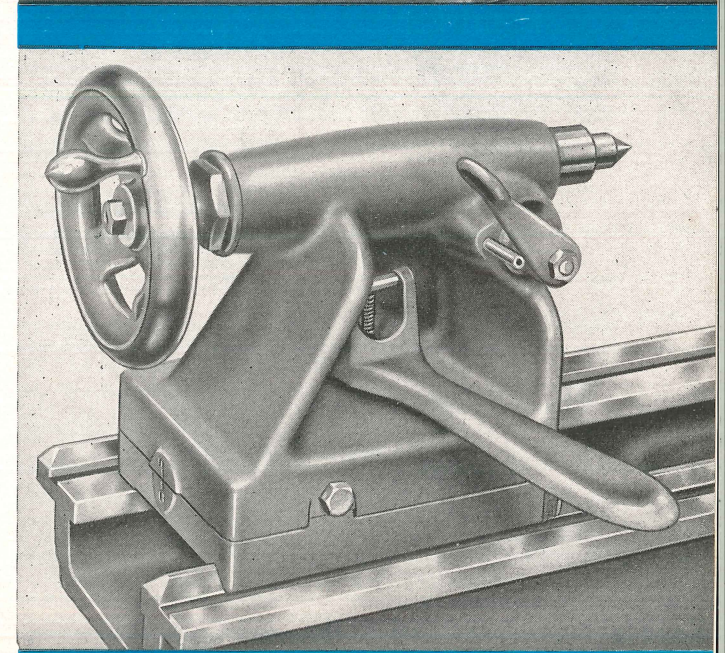
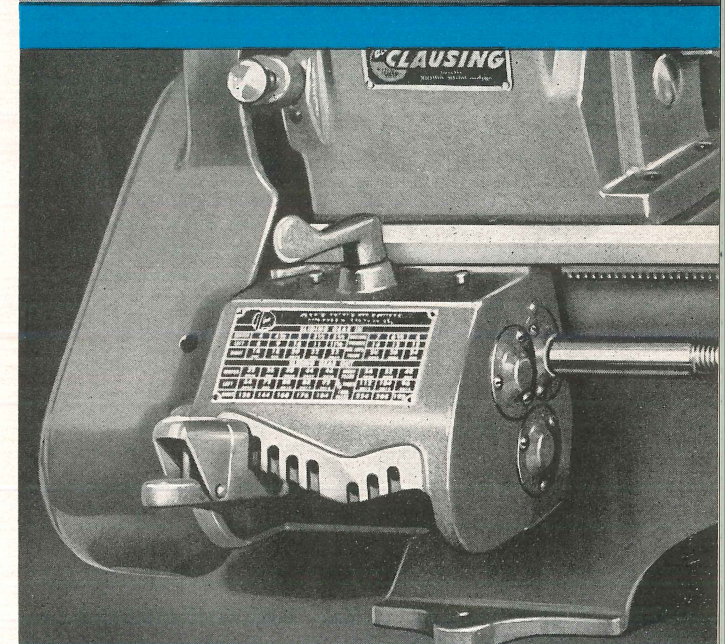
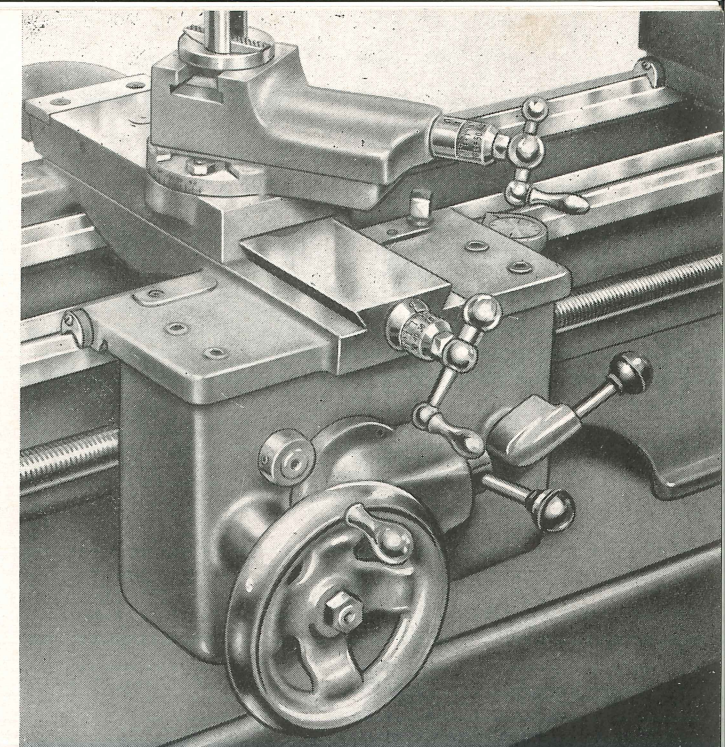
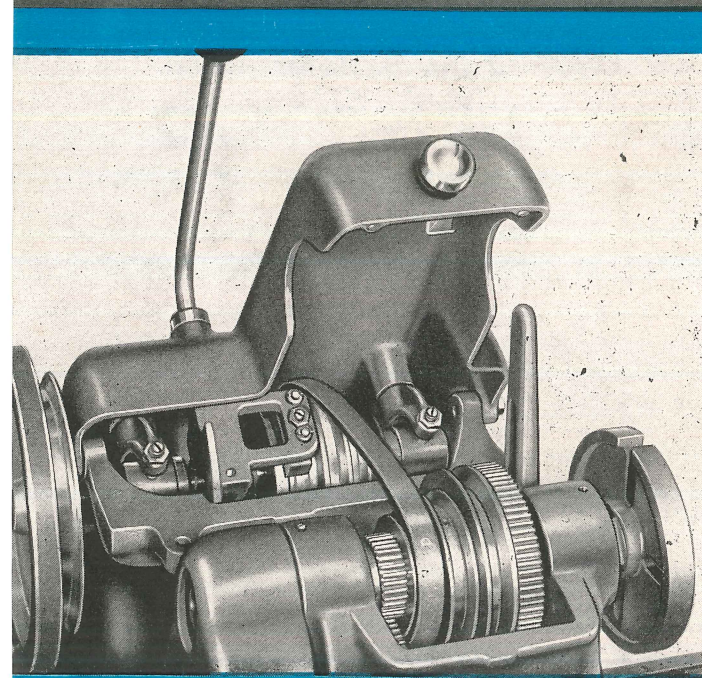
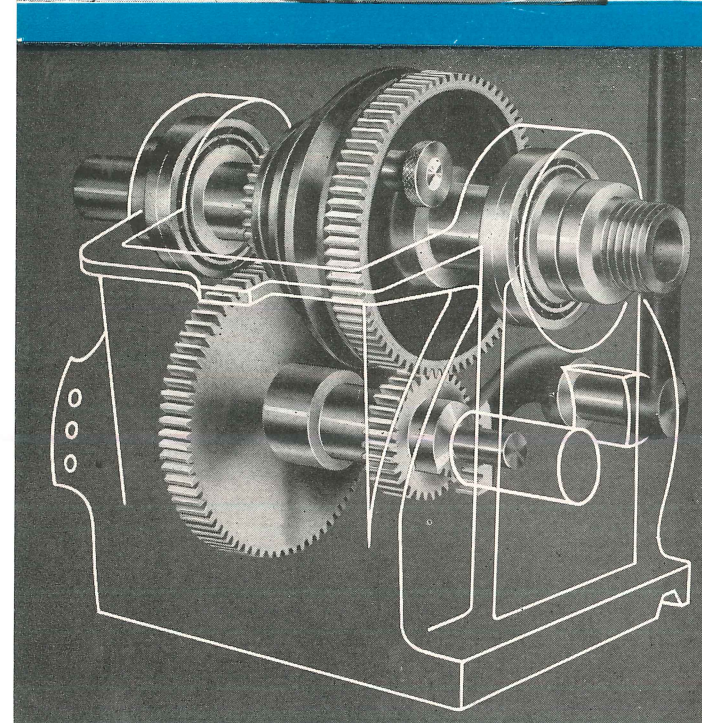
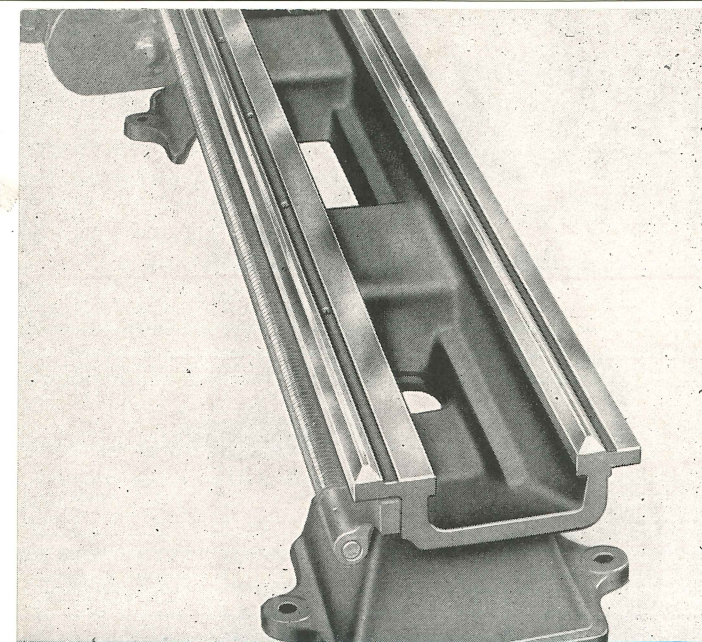
The quick-change mechanism provides instant selection of 48 threads or feeds — twenty-four are obtained by merely shifting two levers on the gear box, and an additional twenty-four by shifting the position of a sliding gear. Lever and gear positions are shown on large direct-reading chart mounted on front of gear box.

Work range includes forty-eight feeds from .00065" to .037" per revolution of spindle, and right and left hand threads from 4 to 224. Metric threads from .75 to 6. mm can be cut by varying the gear train with Clausing Metric Conversion Gears (extra).

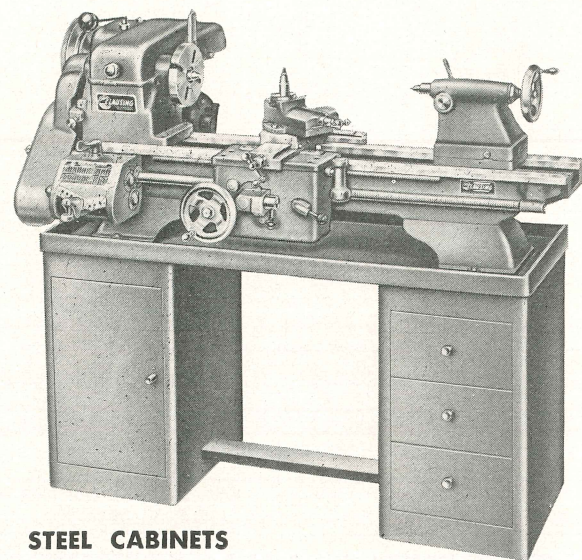
All gears in box are  $\frac{1}{2}$ " wide steel. Gear shafts are ground steel, turn on ball bearings for smoothness and long service.

## MASSIVE TAILSTOCK

Tailstock is a massive grey-iron casting, carefully machined and hand fitted — a rugged, accurate work support. Ram is ground steel —  $1\frac{3}{16}$ " diameter,  $5\frac{7}{8}$ " long — has long key guide that absorbs heavy torque loads — large co-ordinate-type lock. Ram is graduated 0 to 3" by 16ths, bored for No. 2 Morse Taper center. Swing-type wrench, permanently attached, controls bed lock. Opposed screws permit 1" set-over.



# LATHE ATTACHMENTS



## STEEL CABINETS

Heavy-gauge steel with welded joints, scientifically ribbed and braced — an attractive rigid support for accurate lathe work. Top is built-in chip pan. Left compartment has two shelves, right compartment, three smooth-sliding drawers for tool and attachment storage. Less motor mount.

**No. 7507 STEEL CABINET** for 4800-series lathes, 24" between centers. Less motor mount. 48" x 18" x 29<sup>3</sup>/<sub>8</sub>" high. ZYHBA. 264 lb.

**No. 7508 STEEL CABINET** for 4800-series lathes, 36" between centers. Less motor mount. 60" x 18" x 29<sup>3</sup>/<sub>8</sub>" high. ZYHCE. 285 lb.

**No. 7509 STEEL CABINET** for 4800-series lathes, 48" between centers. Less motor mount. 72" x 18" x 29<sup>3</sup>/<sub>8</sub>" high. ZYHEC. 306 lb.

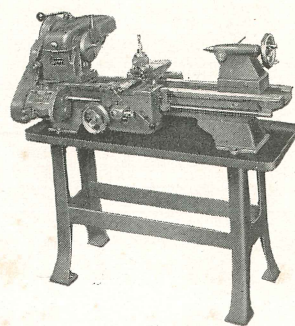
## LATHE BENCHES

A rugged, low-cost foundation for the lathe. Heavy grey-iron legs line up with lathe feet mounting holes for maximum rigidity. Has steel cross braces. Lathes can be mounted directly.

**No. 7503 LATHE BENCH** for 4800-series lathes, 24" between centers. Less top. ZUPUB. 140 lb.

**No. 7504 LATHE BENCH** for 4800-series lathes, 36" between centers. Less top. ZUPVA. 140 lb.

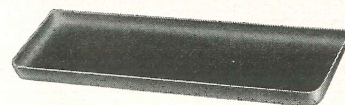
**No. 7590 LATHE BENCH** for 4800-series lathes, 48" between centers. Less top. ZYEPK. 140 lb.



**No. 7504 Lathe Bench and No. 7501 Chip Pan**

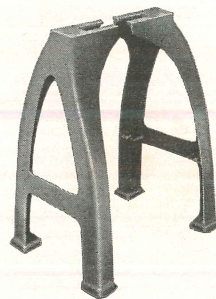
## CHIP PANS

**No. 7591 CHIP PAN** for use with No. 7503 lathe bench. 17" wide, 2" deep. ZYERM. 45 lb.



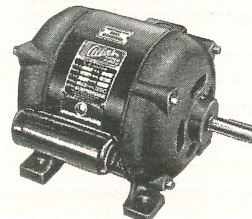
**No. 7501 CHIP PAN** for use with No. 7504 lathe bench. 17" wide, 2" deep. ZUPIX. 50 lb.

**No. 7592 CHIP PAN** for use with No. 7590 lathe bench. 17" wide, 2" deep. ZYEWB. 55 lb.



## FLOOR LEGS

**No. 7505 PAIR OF FLOOR LEGS** for 4800-series lathes. Cast-iron floor legs replace lathe bed feet — an ideal mount for jobs where chips can fall clear. No. 7506 motor mount, extra, required. ZUPWE. 150 lb. per pair.



## Atlas BALL BEARING MOTORS

Atlas motors are powerful, quiet, smooth-running — have large ball bearings — may be operated in any position. Built to exacting Atlas standards, their sound design and rugged construction insure long service life at peak motor performance. Switch, cord and plug are not furnished.

### SINGLE PHASE, CAPACITOR START

No.	HP	Volts	Cycle	RPM	Shaft Dia.	Code	Wt. Lb.
2730	1/3	115/230	60	1725	3/8"	YIDFA	28
2720	1/2	115/230	60	1725	5/8"	YIDGE	32
2790	3/4	115/230	60	1725	3/4"	YIEWZ	50

All Atlas motors will operate satisfactorily on a 10% voltage variation.

### MOTOR CORDS

**No. 2710** 10 ft. Extension Cord and Plug for 1/4, 1/3 and 1/2 HP single phase motors. YIDEG. 1 1/4 lb.

**No. 2712** 10 ft. Extension Cord and Plug for 3/4 HP single phase motors. YIECF. 2 1/2 lb.

### THREE PHASE

No.	HP	Volts	Cycle	RPM	Shaft Dia.	Code	Wt. Lb.
2831	1/3	220/440	50/60	1425/1725	5/8"	YIHEK	26
2821	1/2	220/440	50/60	1425/1725	5/8"	YIHAI	32
2840	3/4	220/440	50/60	1425/1725	3/4"	YIHIL	48

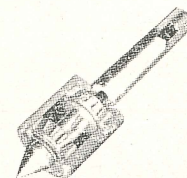
### REVERSING SWITCH

**No. 7582 REVERSING SWITCH.** A 3/4 HP drum-type switch for voltages up to 220-440V, AC. For use with single phase or three phase motors. ZYFIB. 2 lb.

# LATHE ATTACHMENTS

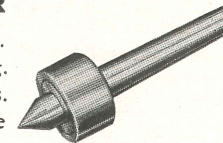
## TIMKEN BEARING CENTER

**No. 349 TIMKEN BEARING CENTER.** Has pair of matched precision Timken tapered roller bearings. Bearings are grease packed, preloaded and sealed. Ideal for high speeds, deep cuts. No. 2 MT shank. YIHYP. 1 1/2 lb.



## BALL BEARING TAILSTOCK CENTER

**No. 348 BALL BEARING CENTER.** Center rotates on enclosed ball bearing. Recommended for high speed operations. Ideal for the average shop. No. 2 Morse taper shank. YEMMO. 1 lb.



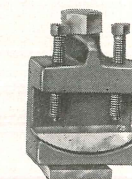
## 60° LATHE CENTER

**No. 9-88 60° LATHE CENTER** with No. 2 Morse taper shank for headstock or tailstock. YAVAM. 8 oz.

**No. 138 REDUCING SLEEVE.** No. 3 to No. 2 Morse taper. YEYLN. 6 oz.

## OPEN-SIDE TOOL POST

**No. 7533 OPEN-SIDE TOOL POST.** A rigid support for No. 7532 boring bar (below) and other large tool bits and special turning tools. Replaces standard tool post. Throat opening 1" x 2 1/2" x 1" high. ZUWYK. 4 lb.



## BORING BAR

**No. 7532 BORING BAR.** Use with No. 7533 open-side tool post, above. 7" x 3/4", tapered to 3/8" dia. Takes 1/4" round tool bit. ZUWUJ. 3 lb.

**No. 7547 1/4" dia. TOOL BIT** for No. 7532 Boring Bar. ZUZIJ. 3 oz.



## LATHE DOGS

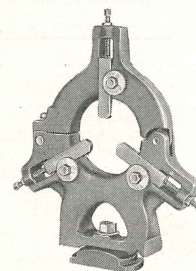
Drop-forged steel with heat-treated square head screws.

No.	Opening	Weight	Code
7543	1/2"	1 lb.	ZUYZM
7544	3/4"	1 lb.	ZUZAG
7545	1"	1 lb.	ZUZGA
7546	1 1/2"	2 lb.	ZUZHE



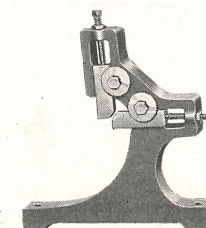
## STEADY REST

**No. 7661 STEADY REST.** Provides a rigid support for accurately machining long pieces and for end turning. Clamps to bed ways. Top is hinged. Jaws adjust easily — handle work 3/16" to 3/2" in dia. ZUVCA. 17 lb.



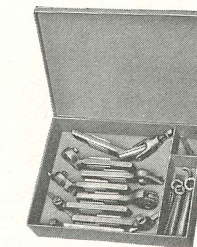
## FOLLOWER REST

**No. 7662 FOLLOWER REST.** Insures accurate work on long slender rods. Quickly mounted on top of carriage saddle — follows cutting tool, holding work in rigid position. ZUVDE. 9 lb.



## SET OF 8 TOOL HOLDERS

**No. 7542 SET OF 8 TOOL HOLDERS,** in metal case. Consists of the 8 tool holders listed below, high-speed cutter bits, cut off blades, boring tool and wrenches. Holders are drop-forged steel, accurately machined and heat-treated. Have 3/8" x 3/4" shank — fit directly in tool post slot. ZUYUK. 18 lb.



**No. 7534 STRAIGHT SHANK TOOL HOLDER,** with 1/4" bit, wrench. ZUYAF. 2 lb.

**No. 7535 R.H. OFFSET TOOL HOLDER,** with 1/4" bit, wrench. ZUYEG. 2 lb.

**No. 7536 L.H. OFFSET TOOL HOLDER,** with 1/4" bit, wrench. ZUYFA. 2 lb.

**No. 7538 STRAIGHT SHANK CUT-OFF TOOL HOLDER,** with 5" ready-ground blade, wrench. ZUYJO. 2 lb.

**No. 7539 R. H. OFFSET CUT-OFF TOOL HOLDER,** with 5" ready-ground blade, wrench. ZUYMZ. 2 lb.

**No. 7531 EXTRA BLADE** for Nos. 7538 and 7539 holders. 3/32" x 5/8" x 5" long. ZUWOH. 4 oz.

**No. 7541 60° THREADING TOOL** with bit, wrench. ZUYOJ. 2 lb.

**No. 7589 EXTRA THREADING BIT** for No. 7541 holder. ZUZMY. 6 oz.

**No. 7540 KNURLING TOOL,** medium diamond shaped. ZUYNB. 2 lb.

**No. 7537 BORING TOOL HOLDER,** with 1/4" ready-ground bar, 1/4" square cutter bit. Reversible. Capacity: 3/8" dia. bar and 1/4" tool bits. 3/8" x 3/4" shank. ZUYGE. 2 lb.



## 1/4" AND 3/8" CUTTER BITS

High speed 1/4" cutter bits, ready-ground for use in tool holders — permit wide range of operations. Set includes R.H. and L.H. turning and facing, round nose, 60° V-threading. 3/8" unground bits listed below are for use in tool post.

**No. 386 SET OF 6 FORMED CUTTER BITS** 1/4" x 1/4". YARJA. 1 lb.

No.	Description	Code
3865	6 Unground 1/4" cutter bits	YARKE
386T	12 Unground 1/4" cutter bits	YARMO
3855	6 Unground 3/8" cutter bits	YARPY

## BORING TOOLS

High speed, ready-ground, for use with No. 7537 holder.

No. 6601	3/8" Boring Tool	YOKWY	7 oz.
No. 6602	5/16" Boring Tool	YOLAR	6 oz.
No. 6603	1/4" Boring Tool	YOLIT	5 oz.
No. 6604	3/16" Boring Tool	YOLOV	5 oz.
No. 6605	1/4" Internal Threading Tool	YOLRA	5 oz.

## PIPE CENTERS

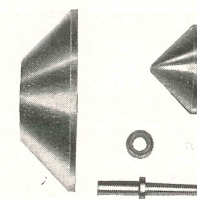
Support pipe in tailstock for machining and threading.

**No. 755 SET OF PIPE CENTERS.** Includes: cones listed below, tailstock arbor and ball thrust bearing. YAWAN. 14 lb.

**No. 757 PIPE CENTER CONE,** capacity 4" to 8". YEYTA. 9 lb.

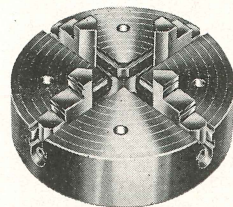
**No. 756 PIPE CENTER CONE,** capacity 1/4" to 4". YEYUZ. 3 lb.

**No. 758A TAILSTOCK ARBOR and THRUST BEARING.** No. 2 MT shank. YEYVE. 2 lb.



# LATHE ATTACHMENTS

## 4-JAW INDEPENDENT CHUCKS



Rugged and accurately built. One-piece body is high strength semi-steel casting—entire face and outer edge are ground. Hand fitted jaws are heat-treated alloy steel—deep shoulders have raised and ground steps. Jaws are reversible. Screws are heat-treated alloy steel.

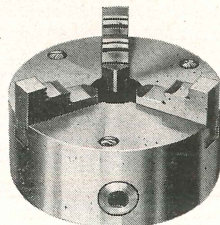
**No. 6606** 6" MEDIUM DUTY INDEPENDENT CHUCK, body threaded for 1½"-8 lathe spindle. YIAGH. 9½ lb.

**No. 10-8858** 8" LIGHT DUTY INDEPENDENT CHUCK, body threaded for 1½"-8 lathe spindle. YIGIK. 16 lb.

**No. 7611** 8" HEAVY DUTY INDEPENDENT CHUCK, with adapter fitted to chuck and 1½"-8 lathe spindle. ZYGAZ. 25 lb.

## 3-JAW UNIVERSAL CHUCKS

Has self-centering jaws controlled by turning one screw. Body is high-strength semi-steel. Scroll is special heat-treated alloy steel. Furnished with two sets of jaws (inside and outside) and wrench. Handles rods through headstock.



**No. 10-795B** 6" MEDIUM DUTY UNIVERSAL CHUCK, body threaded for 1½"-8 lathe spindle. YIGLO. 11½ lb.

**No. 7610** 6" HEAVY DUTY UNIVERSAL CHUCK, with adapter fitted to chuck and 1½"-8 lathe spindle. ZYGBE. 25 lb.

## SEMI-MACHINED CHUCK BACKS

Threaded for 1½"-8 lathe spindle. Face and O.D. rough machined to permit accurate fitting to chuck.

**No. 7621** 6" dia. CHUCK BACK. ZWEHV. 5 lb.

**No. 7622** 8" dia. CHUCK BACK. ZWEKY. 9 lb.

## 10" FACE PLATE

**No. 7524** 10" dia. SLOTTED FACE PLATE. Ready bored and threaded for 1½"-8 lathe spindle. ZUVIF. 10 lb.

## DRILL CHUCKS

**No. 40-60** JACOBS DRILL CHUCK, capacity No. 70 drill to ½", complete with key-type wrench. Adapted to headstock and tailstock spindles with No. 378 arbor (below). YAHIB. 2 lb.

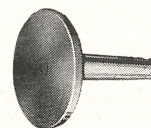
**No. 378** ARBOR required to adapt No. 40-60 chuck to lathe headstock or tailstock. YAHYA. 8 oz.

**No. 1897** JACOBS DRILL CHUCK, capacity ¾" drill to ¾", complete with key-type wrench. Adapted to headstock and tailstock with No. 7620 arbor. YUNZA. 3½ lb.

**No. 7620** ARBOR, required to adapt No. 1897 chuck to lathe headstock or tailstock. ZYGOD. 13 oz.

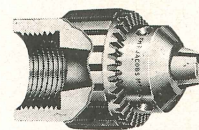
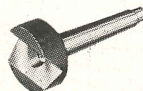
## DRILL PAD

**No. 360** DRILL PAD. Mounts in tailstock ram as rigid brace for drilling flat or square work with drill in headstock. No. 2 Morse taper shank. 3½" diameter face. YATOP. 1½ lb.



## CROTCH CENTER

**No. 356** CROTCH CENTER. V-slot carefully machined. 2" diameter slot. Ground steel shank is No. 2 Morse taper. YATRY. 1 lb.



## HEADSTOCK CHUCKS

Thread directly on 1½"-8 lathe spindle—No. 375 can be used in tailstock with 377 arbor (below).

**No. 375** JACOBS HEADSTOCK CHUCK, capacity ⅛" to ⅝". Wrench furnished. Can be used in tailstock with 377 arbor. YAGYE. 4 lb.

**No. 377** ARBOR for 375 chuck. YAHUD. 8 oz.

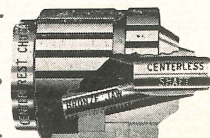
**No. 375B** JACOBS HEADSTOCK CHUCK, capacity ⅜" to ¾". Wrench furnished. Not adaptable to tailstock. YAHCO. 5 lb.

## CENTER REST CHUCK

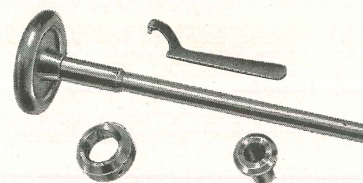
Supports centerless shafts in the lathe tailstock—ideal for armatures.

**No. 445** JACOBS CENTER REST CHUCK, capacity ¼" to ¾". YAHOC. 3 lb.

**No. 377** ARBOR to adapt 445 chuck to No. 2 M.T. lathe tailstock. YAHUD. 8 oz.



## DRAW-IN COLLET CHUCK



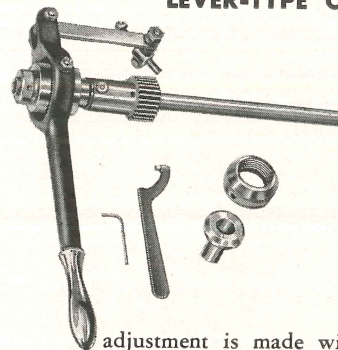
The draw-in collet chuck attachment is the most accurate method for chucking work between ⅛" and ½" in diameter.

Hollow construction permits rods to be passed through the lathe spindle—handwheel releases and tightens the collet on the work. Tapered sleeve is ground inside and outside to insure extreme accuracy. Lathe must be stopped to open and close collet.

**No. 7521** DRAW-IN COLLET CHUCK ATTACHMENT. Includes draw-in spindle, tapered closing sleeve, wrench and spindle nose cap, less split holding collet. Give length of lathe spindle when ordering. ZUVAC. 7lb.

**No. 7530** SPLIT HOLDING COLLET for round work—use with Nos. 7521 and 7514 collet chucks. Available in ⅛"s from ⅛" to ½". Specify diameter. ZUWHO. 8 oz. each.

## LEVER-TYPE COLLET CHUCK

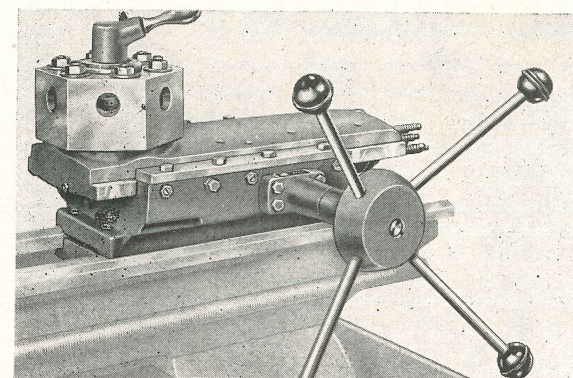


The ideal chucking method for fast, accurate duplicate work on bar stock between ⅛" and ½" diameter. Work is fed through hollow torque tube of lever-type attachment, chucked, machined and released *without stopping the lathe*. Moving hand lever to left tightens collet on work—collet is released by moving lever to right. Collet tension adjustment is made with knurled collar at left end of torque tube. Tapered collet sleeve is ground inside and out to insure concentric closing of collet. Nose cap protects lathe spindle threads.

**No. 7514** LEVER-TYPE COLLET CHUCK ATTACHMENT, with tapered closing sleeve, spindle nose cap, wrenches, less collet. Please give length of lathe spindle when ordering. ZURZE. 11 lb.

**No. 7530** SPLIT HOLDING COLLET for round work—use with No. 7514 and 7521 collet chucks. Available on 1/64"s from 1/16" to ½". Specify diameter. ZUWHO. 8 oz. each.

# LATHE ATTACHMENTS



## BED TURRET

The Clausing heavy-duty bed turret equips Clausing 12" lathes for accurate machining of duplicate parts on a production basis—at low cost.

The 6½" working travel, 4" tool clearance over ram and 2½" minimum working stroke give unmatched versatility. Extra weight of base, ram and head provide the rigidity for taking heavy cuts. And for long work stock up to ¾" can be passed through the turret head.

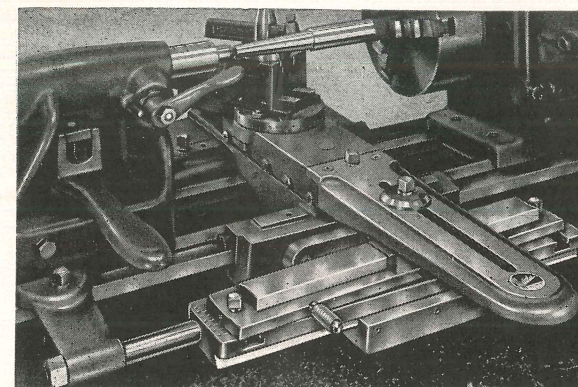
Bed and ram are massive grey-iron castings—it's heavy, net weight is 100 pounds! ¾" x ⅝" thick ways are precision-ground—both sides are gibbed for take up. Turret stations are located by a spring-actuated tapered pin sliding in a sleeve and engaging a tapered bushing in turret head. Pin, sleeve and bushing are hardened and finish ground—seven other key operating parts are also hardened steel.

Head indexes automatically clockwise and may be moved in either direction by hand if the operator desires. Head locks with the most convenient handle yet devised—handle stays in the position the operator wants it—doesn't turn with head. Heavy spring tension makes locking unnecessary on all light jobs. Simply unscrewing the handle releases the head for instant removal. Speed wrench is furnished for quick positioning of stop screws. Easy-to-reach Allen cap screws lock bed in position.

Number of tool positions, 6. Turret head, 5⅝" hex. Recommended tool hole diameter, 1". Ram is 16¾" long.

**No. 7616** BED TURRET for Clausing 12-inch Lathes, with head rough bored to 7/8". (Head must be finish bored on lathe with which it is to be used.) ZURUD. 130 lb.

**No. 7615** BED TURRET with head finish bored for 1" tool shanks when ordered from the factory installed on a Clausing 12-inch Lathe. ZURYA. 130 lb.



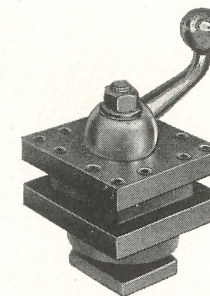
## TAPER ATTACHMENT

Equips lathe for accurate, efficient handling of every taper job—turning, boring, threading. Has the extra weight and precision construction required for extreme accuracy in production taper work.

Rigidly supported by carriage saddle, cross slide and bed, the

## TOOL POST TURRET

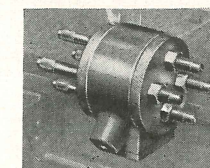
**No. 7511** TOOL POST TURRET. Mounts quickly and easily in tool post slot. Holds four, ⅜" cutting tools. A turn of the handle swings tool in position—positive indexing is assured by four steel balls under spring tension. 2½" square head is cut from solid tool steel, heat-treated. ⅜" tool bits not furnished. ZUROC. 4 lb.



**No. 3855** 6 UNGROUND ⅜" CUTTER BITS. YARPY. 1 lb.

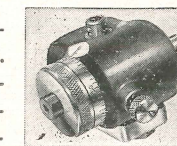
## 4-POSITION CARRIAGE STOP

**No. 7579** 4-POSITION CARRIAGE STOP with mounting bracket and four adjustable stop screws. Simplifies repetitive operations. Fast, accurate indexing is provided by four steel balls under spring tension. Mounts on front bed way. ZYEJD. 4 lb.



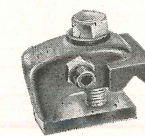
## MICRO CARRIAGE STOP

**No. 7588** MICRO CARRIAGE STOP. Simplifies duplicate work on turning, boring, facing. Clamps on front bed way. Will not automatically stop carriage. Micrometer control graduated in .001 inch—hardened stop locks securely in any position. ZUZKO. 4 lb.



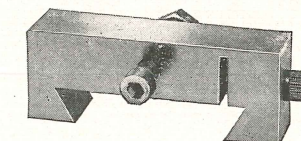
## STANDARD CARRIAGE STOP

**No. 7526** STANDARD CARRIAGE STOP. For repetitive turning, boring or facing jobs. Clamps to front bed way—will not automatically stop lathe. ZUVUH. 2 lb.



## THREAD CUTTING STOP

**No. 7529** THREAD CUTTING STOP. Sets depth of cut for cutting threads and other duplicate turning operations. Clamps to cross slide dovetail. Will not automatically stop cross feed. ZUWEF. 2 lb.



taper attachment becomes a permanent part of your lathe—it is not necessary to remove it for straight turning or facing jobs. Loosening one nut and tightening two others puts taper attachment in operation—there are no parts to remove.

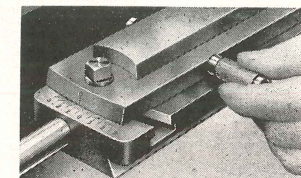
Taper attachment is set by loosening clamp screws at either end of slide, and turning Vernier adjusting screw, as shown at right, until index mark comes to desired position.

Cuts external or internal tapers up to 10" long at one setting—simply reset along bed for longer work. Two easy-to-read sets of graduations show degrees of taper and inches per foot. Range, 7½° (15° included angle) and 3" per foot, both sides of center line.

When ordered with lathe, taper attachment is installed at factory. Can be easily installed on current model lathes having chip guard on cross slide.

Lathes not having chip guard on cross slide require a milling cut and drilling and tapping—print furnished.

**No. 7515** TAPER ATTACHMENT for all Clausing 12" lathes. ZUSAZ. 40 lb.



ORDER NUMBER	DESCRIPTION	CODE WORD	PRICE
7569	R. H. Offset Tool Holder, $\frac{1}{8}$ " bit and wrench	ZYCVA	\$ 6.25
7570	L. H. Offset Tool Holder, $\frac{1}{8}$ " bit and wrench	ZYCWE	6.25
7571	Straight Shank Cut-off Tool Holder, 5" blade and wrench	ZYCZO	6.75
7572	R. H. Offset Cut-off Tool Holder, 5" blade and wrench	ZYDBO	6.75
7573	L. H. Offset Cut-off Tool Holder, 5" blade and wrench	ZYDIZ	6.75
7574	Boring Bar Holder	ZYDOB	10.50
7575	Threading Tool Holder	ZYDUC	9.25
7576	Knurling Tool Holder	ZYDWA	12.50
7577	Set of 9 Tool Holders in Metal Case	ZYDYE	75.00
7578	Tool Post Turret	ZYEDY	42.75
7579	4-Position Carriage Stop	ZYEJD	28.50
7582	Drum-Type Reversing Switch	ZYFIB	10.50
7583	Discontinued		
7584	Discontinued		
7585	Discontinued		
7586	Discontinued		
7587	Discontinued		
7588	Micro Carriage Stop	ZUZKO	16.50
7589	Extra Threading Bit for No. 7541 threading tool	ZUZMY	4.50
7590	Lathe Bench for 4800-series, 48" between centers	ZYEPK	50.00
7591	Chip Pan for No. 7503 lathe bench	ZYERM	23.00
7592	Chip Pan for No. 7590 lathe bench	ZYEWR	27.50
7606	6" Heavy Duty Universal Chuck, body threaded for $1\frac{1}{2}$ "-8 lathe spindle	ZYGBE	84.00
7610	Replaced by 7606		
7611	8" Heavy Duty Independent Chuck, body threaded for $1\frac{1}{2}$ "-8 lathe spindle	ZYGAZ	65.00
7615	Bed Turret, holes bored	ZURYA	250.00
7616	Bed Turret, holes not bored	ZURUD	250.00
7621	6" Diam. Semi-machined Chuck Back	ZWEHV	5.50
7622	8" Diam. Semi-machined Chuck Back	ZWEKY	6.00
7631	Double Tool Cross Slide only	ZUFME	85.00
7632	Four-Way Forward Tool Post only	ZUFOP	48.50
7633	Rear Tool Post only	ZUFPO	13.75
7634	Single Forward Tool Post only	ZUFYR	13.75
7635	Cross Slide Carriage Turret	ZUFLA	147.50
7636	Lever-Type Collet Chuck Attachment for 4800 lathes with Serial No. 15671 and above	ZURZE	75.00
7638	Belt Guard for Clausing 4800 series lathes with serial numbers above 15671	ZYMOK	19.50
7640	Karge Turner, $\frac{1}{2}$ " capacity for Clausing 4800 series lathes	ZUMTE	225.00
7650*	Tool Post Grinder for Clausing 4800 series lathes	ZUWIG	95.00
7651	Heavy Duty Grinder for Clausing 4800 lathes with Serial No. 16073 and above	ZYNUM	95.00
7661	Steady Rest	ZUVCA	15.75
7662	Follower Rest	ZUVDE	9.75

\*For use with 4800 lathes with Serial No. 16071 and lower.

**HEAVY DUTY MOTORS**

**SINGLE PHASE, CAPACITOR START, BALL BEARING**

2720	$\frac{1}{2}$ HP, 1725 RPM, 115-230V, 60C	YIDGE	47.90
2730	$\frac{1}{3}$ HP, 1725 RPM, 115-230V, 60C	YIDFA	40.50
2790	$\frac{3}{4}$ HP, 1725 RPM, 115-230V, 60C	YIEWZ	64.65

**THREE PHASE, BALL BEARING**

2821	$\frac{1}{2}$ HP, 1425-1725 RPM, 220-440V, 50-60C	YIHAI	46.00
2831	$\frac{1}{3}$ HP, 1425-1725 RPM, 220-440V, 50-60C	YIHEK	38.45
2840	$\frac{3}{4}$ HP, 1425-1725 RPM, 220-440V, 50-60C	YIHIL	61.45



11531B7M

# PRICE LIST FOR CLAUSING 4800 - SERIES 12" LATHES

WITH 1-1/2"-8 THREADED SPINDLE, 25/32" BORE

## AND ACCESSORIES



This list cancels all previous price lists and quotations. All prices are F. O. B. factory, Ottumwa, Iowa, U. S. A. and those in effect at date of shipment will apply. We reserve the right to make changes in price, design and specifications without notice.

### CLAUSING DIVISION ATLAS PRESS COMPANY

1915-2023 N. Pitcher St.

Kalamazoo, Michigan, U. S. A.

ORDER NUMBER	DESCRIPTION	CODE WORD	PRICE
<b>12" PRECISION LATHES</b>			
<b>1 1/2"-8 Threaded Spindle, 25/32" Bore</b>			
4803	Lathe, 12" swing, 24" centers, quick-change gears w/ clutch countershaft, less motor	ZUOJS	\$545.00
4804	Lathe, 12" swing, 36" centers, quick-change gears w/ clutch countershaft, less motor	ZUOKT	575.00
4805	Lathe, 12" swing, 48" centers, quick-change gears w/ clutch countershaft, less motor	ZUORC	660.00
<b>LATHE ACCESSORIES</b>			
9-88	60° Lathe Center, No. 2 M. T.	YAVAM	2.25
10-475	External Grinding wheel for steel, 3/8" thick	YENKA	2.65
10-476	External Grinding Wheel for cast iron, 3/8" thick	YENLE	2.65
10-478	2 3/4" Cup Wheel	YEVIT	2.80
10-795B	6" Medium Duty Universal Chuck, body threaded for 1 1/2"-8 lathe spindle	YIGLO	49.50
10-885B	8" Light Duty Independent Chuck, body threaded for 1 1/2"-8 lathe spindle	YIGIK	36.50
40-60	Jacobs Drill Chuck, No. 70 drill to 1/2" capacity	YAHIB	8.35
138	Reducing Sleeve, No. 3 to No. 2 M. T.	YEYLN	2.10
348	Ball Bearing Tailstock Center, No. 2 M. T.	YEMMO	19.75
349	Timken Bearing Tailstock Center, No. 2 M. T.	YIHYP	29.95
356	Crotch Center, 2" dia., 1" slot, No. 2 M. T.	YATRY	3.75
360	Drill Pad, 3 1/4" dia. face, No. 2 M. T.	YATOP	3.85
375	Jacobs Headstock Chuck, 1/8"-5/8" capacity	YAGYE	17.25
375B	Jacobs Headstock Chuck, 1/8"-3/4" capacity	YAHCO	20.65
377	Arbor to adapt Nos. 375 and 445 chucks to No. 2 M. T. tailstock	YAHUD	1.45
378	Arbor to adapt No. 40-60 chuck to No. 2 M. T. headstock or tailstock	YAHYA	1.45
3855*	6 Unground 3/8" Cutter Bits	YARPY	4.25
386*	Set of 6 Formed Cutter Bits, 1/4" x 1/4"	YARJA	3.15
3865*	6 Unground 1/4" Cutter Bits	YARKE	1.80
3867	Discontinued		
445	Jacobs Center Rest Chuck, 1/4"-3/4" capacity	YAHOC	11.50
477-1/4	1/4" Internal Grinding Wheel	YANJO	1.15
477-1/2	1/2" Internal Grinding Wheel	YANLY	1.15
477-3/4	3/4" Internal Grinding Wheel	YANOJ	1.20
477-1	1" Internal Grinding Wheel	YANUK	1.35
479	3/4" Saucer Wheel	YAODY	1.35
575A	Woodruff Keyway Cutter -- 1/2" dia., 1/8" thick, 1/2" shank	YALUH	3.75
575B	Woodruff Keyway Cutter -- 3/4" dia., 1/8" thick, 1/2" shank	YALYJ	4.10
575C	Woodruff Keyway Cutter -- 1" dia., 1/4" thick, 1/2" shank	YAMAD	5.10
575D	Woodruff Keyway Cutter -- 1 1/8" dia., 5/16" thick, 1/2" shank	YAMDA	6.00
575E	Woodruff Keyway Cutter -- 1 1/4" dia., 3/8" thick, 1/2" shank	YAMEF	6.75
755	Set of Pipe Centering Cones	YAWAN	35.00
756	Pipe Centering Cone, 1/4" to 4" capacity	YEYUZ	15.50
757	Pipe Centering Cone, 4" to 8" capacity	YEYTA	19.00
758A	No. 2 M. T. Arbor and Bearing	YEYVE	6.50
1897	Jacobs Drill Chuck, capacity 3/8"-3/4", for No. 3 Jacobs Taper	YUNZA	12.00
2400	Grinder-Hone	ZOOCH	31.50
2401	Grinding Wheel	ZOOFK	2.50
2402	Oilstone	ZOOHM	4.75
2403	Adapter	ZOOJN	1.75

\*For use with 4800 lathes with Serial No. 16071 and lower.

ORDER NUMBER	DESCRIPTION	CODE WORD	PRICE
2710	10 ft. Extension Cord and Plug for 1/4, 1/2 and 1/2 HP single phase motors	YIDEG	\$ 1.50
2712	10 ft. Extension Cord and Plug for 3/4 HP single phase motors	YIECF	2.75
6601*	3/8" Boring Tool for No. 7537 holder	YOKWY	2.25
6602*	1/8" Boring Tool for No. 7537 holder	YOLAR	1.85
6603*	1/4" Boring Tool for No. 7537 holder	YOLIT	1.85
6604*	1/8" Boring Tool for No. 7537 holder	YOLOV	1.60
6605*	1/4" Internal Threading Tool for No. 7537 holder	YOLRA	2.00
6606	6" Medium Duty Independent Chuck, body threaded for 1 1/2"-8 lathe spindle	ZYFZE	31.50
7501	Chip Pan, 17" wide, for No. 7504 lathe bench	ZUPIX	24.00
7503	Lathe Bench for 4800-series lathes, 24" between centers	ZUPUB	45.00
7504	Lathe Bench for 4800-series lathes, 36" between centers	ZUPVA	47.50
7505	Pair of Floor Legs for 4800-series lathes	ZUPWE	48.00
7507	Steel Cabinet for 4800-series lathes, 24" between centers	ZYHBA	165.00
7508	Steel Cabinet for 4800-series lathes, 36" between centers	ZYHCE	170.00
7509	Steel Cabinet for 4800-series lathes, 48" between centers	ZYHEC	180.00
7511*	Tool Post Turret	ZUROC	29.50
7512	Replaced by No. 7616		
7513	Replaced by No. 7615		
7514	Lever-type Collet Chuck for 4800 lathes with Serial No. 15670 and lower	ZURZE	75.00
7515	Taper Attachment	ZUSAZ	100.00
7516	Mica Undercutter, electric	ZUSBE	47.50
7517	Discontinued		
7518	Discontinued		
7519	Discontinued		
7520	Set of 10 Saws for No. 7516 undercutter	ZUSOD	4.75
7521	Hand Wheel, Drawn-in Collet Chuck—specify lathe spindle length	ZUVAC	32.00
7522	Replaced By No. 7661		
7523	Replaced by No. 7662		
7524	10" Dia. Slotted Face Plate	ZUVIF	12.75
7525	Milling Attachment, with swivel vise	ZUVOG	37.50
7526	Standard Carriage Stop	ZUVUH	4.75
7527	Metric Conversion Gears for 12" Standard Change Gear Lathes	ZUVYJ	35.00
7528	Metric Conversion Gears for 4800-Series Quick-Change Gear Lathes	ZUWAD	35.00
7529	Thread Cutting Stop	ZUWEF	5.00
7530	Collets, Round, 3C, for Nos. 7514 and 7521 collet chucks	ZUWHO	4.50
7531*	Extra Cut-off Blade for Nos. 7538 and 7539 holders	ZUWOH	1.20
7532*	Boring Bar for No. 7533 open-side tool post	ZUWUJ	3.50
7533*	Open-Side Tool Post	ZUWYK	5.75
7534*	Straight Shank Tool Holder	ZUYAF	2.50
7535*	R. H. Offset Tool Holder	ZUYEG	2.50
7536*	L. H. Offset Tool Holder	ZUYFA	2.50
7537*	Boring Tool Holder	ZUYGE	6.00
7538*	Straight Shank Cut-off Tool Holder	ZUYJO	3.15
7539*	R. H. Offset Cut-off Tool Holder	ZUYMZ	3.15
7540*	Knurling Tool	ZUYNB	6.00
7541*	Threading Tool	ZUYOJ	5.10
7542*	Set of 8 Tool Holders, in metal case	ZUYUK	28.50
7543	1/2" Drop Forged Lathe Dog	ZUYZM	1.20
7544	3/4" Drop Forged Lathe Dog	ZUZAG	1.35
7545	1" Drop Forged Lathe Dog	ZUZGA	1.65
7546	1 1/2" Drop Forged Lathe Dog	ZUZHE	1.80
7547	Extra Tool Bit for No. 7532 boring bar	ZUZIJ	.50
7568	Straight Shank Tool Holder, 1/8" bit and wrench	ZYCUB	6.25

\*For use with 4800 lathes with Serial No. 16071 and lower.

## TOOL POST ACCESSORIES FOR CLAUSING 4800 Series LATHES with Serial No. 16073 and higher

IMPORTANT - Refer to catalog No. C-1-A when ordering tool accessories for 4800-series lathes with Serial Nos. 16072 and lower.

### TOOL HOLDERS

No. 7577 SET OF 9 TOOL HOLDERS, in metal case. Handles turning, facing, cutting-off, threading, boring and knurling. Holders are drop-forged steel, accurately machined and heat-treated. Set consists of the 9 tool holders listed below and at right, high-speed cutter bits, cut-off blades and wrenches. Holders have 1/2" x 1 1/8" shank - fit directly in tool post slot. 24 lb.

No. 7568 STRAIGHT SHANK TOOL HOLDER, with 5/16" bit and wrench. 2 lb.

No. 7569 R.H. OFFSET TOOL HOLDER, with 5/16" bit and wrench. 2 lb.

No. 7570 L.H. OFFSET TOOL HOLDER, with 5/16" bit and wrench. 2 lb.

No. 7571 STRAIGHT SHANK CUT-OFF TOOL HOLDER, with 5" ready-ground blade and wrench. 2 lb.

No. 7572 R.H. OFFSET CUT-OFF TOOL HOLDER, with 5" ready-ground blade and wrench. 2 lb.

No. 7573 L.H. OFFSET CUT-OFF TOOL HOLDER, with 5" ready-ground blade and wrench. 2 lb.

No. 7574 BORING BAR HOLDER with 3/4" dia. sleeve-type boring bar, two 1/4" high speed cutter bits - one 45° and one 90°, and two wrenches. Drop-forged steel. Boring bar takes 1/4" bits - can be set straight or at 45°. Takes bars 1/4" to 3/4" dia. 4 lb.

No. 7575 THREADING TOOL HOLDER, with bit and wrench. High speed cutter is ground to cut 60° threads. Resharpens easily by grinding top edge only. Hardened stop screw assures positive, accurate adjustment. 2 lb.

No. 7576 KNURLING TOOL HOLDER, with medium diamond-shaped knurls. Floating construction makes rollers self centering. 2 lb.

### TOOL POST TURRET

No. 7578 TOOL POST TURRET. Mounts quickly and easily in tool post slot. Holds four 1/2" cutter bits. A turn of the handle swings tool in position - positive-indexing is assured by four steel balls under spring tension. 3 1/2" square head is cut from solid tool steel, heat-treated. Takes 1/2" cutter bits, not furnished. 4 lb.

### TOOL POST GRINDER

No. 7651 HEAVY DUTY GRINDER. For external and internal grinding. Equipped with belt, 4" external grinding wheel mounted on spindle, quill for internal work, 1/2" internal grinding wheel, diamond wheel dresser. 1/4 HP 3450 RPM motor has switch, cord and plug. 60 lb.

*All prices are F.O.B. Ottumwa, Iowa, U.S.A. and those in effect at date of shipment will apply.*

**CLAUSING DIVISION, ATLAS PRESS COMPANY  
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