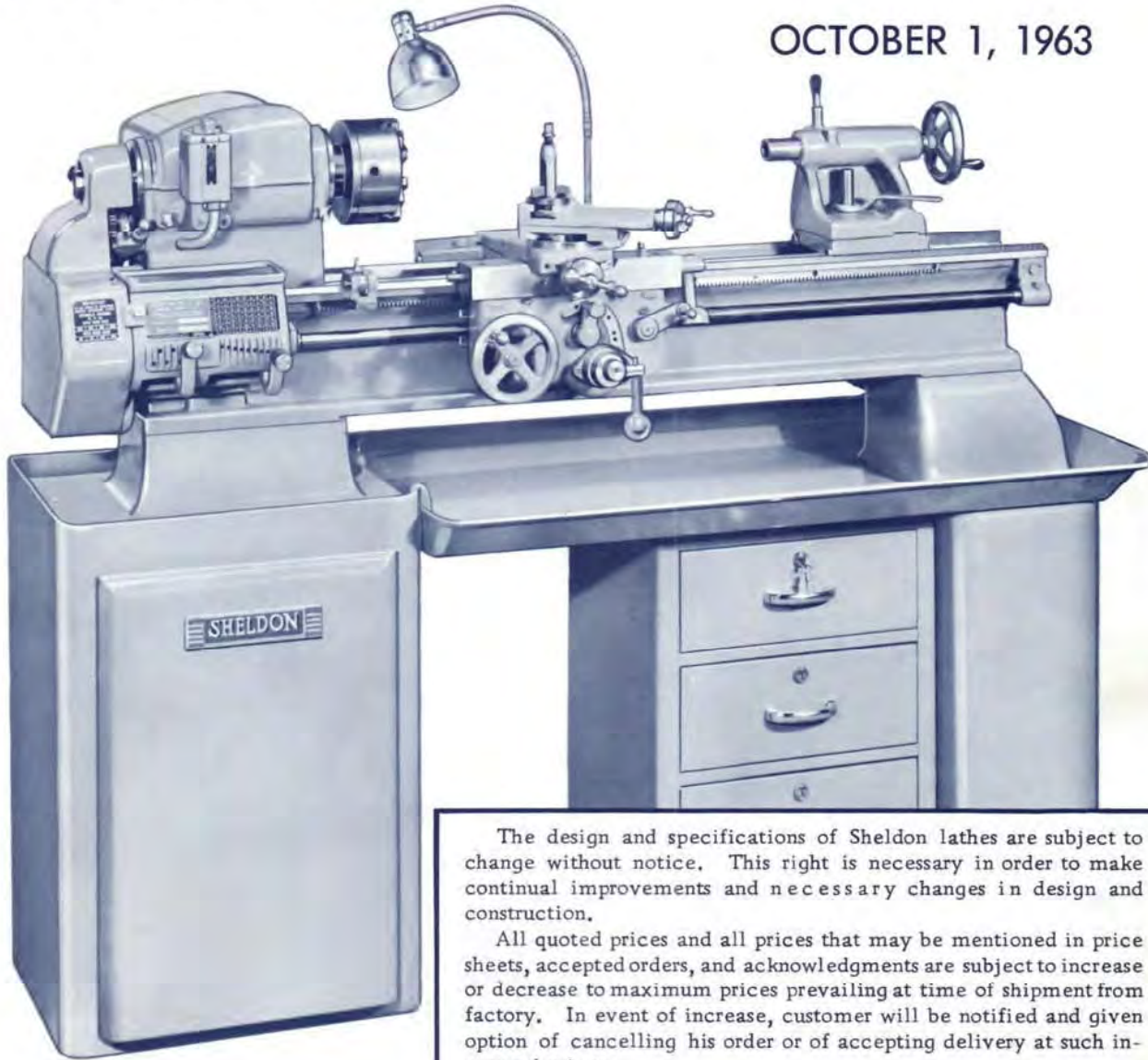


SHELDON
CHICAGO U. S. A.

MACHINE TOOLS

Price List-

OCTOBER 1, 1963



GUARANTEE

Sheldon Machine Company, Inc. guarantees its products against defective material and workmanship for a period of five (5) years. All parts, accessories, and electrical equipment supplied by Sheldon Machine Company, Inc. but bearing the name of a manufacturer other than Sheldon Machine Company, Inc. are guaranteed against defective material and workmanship for a period of one (1) year.

The design and specifications of Sheldon lathes are subject to change without notice. This right is necessary in order to make continual improvements and necessary changes in design and construction.

All quoted prices and all prices that may be mentioned in price sheets, accepted orders, and acknowledgments are subject to increase or decrease to maximum prices prevailing at time of shipment from factory. In event of increase, customer will be notified and given option of cancelling his order or of accepting delivery at such increased prices.

All prices and terms are subject to change without notice.

All prices are subject to an increase equal to the amount of any Federal, state or local taxes which may be imposed.

Prices quoted herein include packing and crating for domestic shipment to any point in the Continental United States, Canada, or Mexico, but do not include boxing and packaging for export shipments. Prices are F.O.B. Factory.

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ABLE MACHINE
TOOL REBUILDING CO.

SHELDON MACHINE CO., Inc.

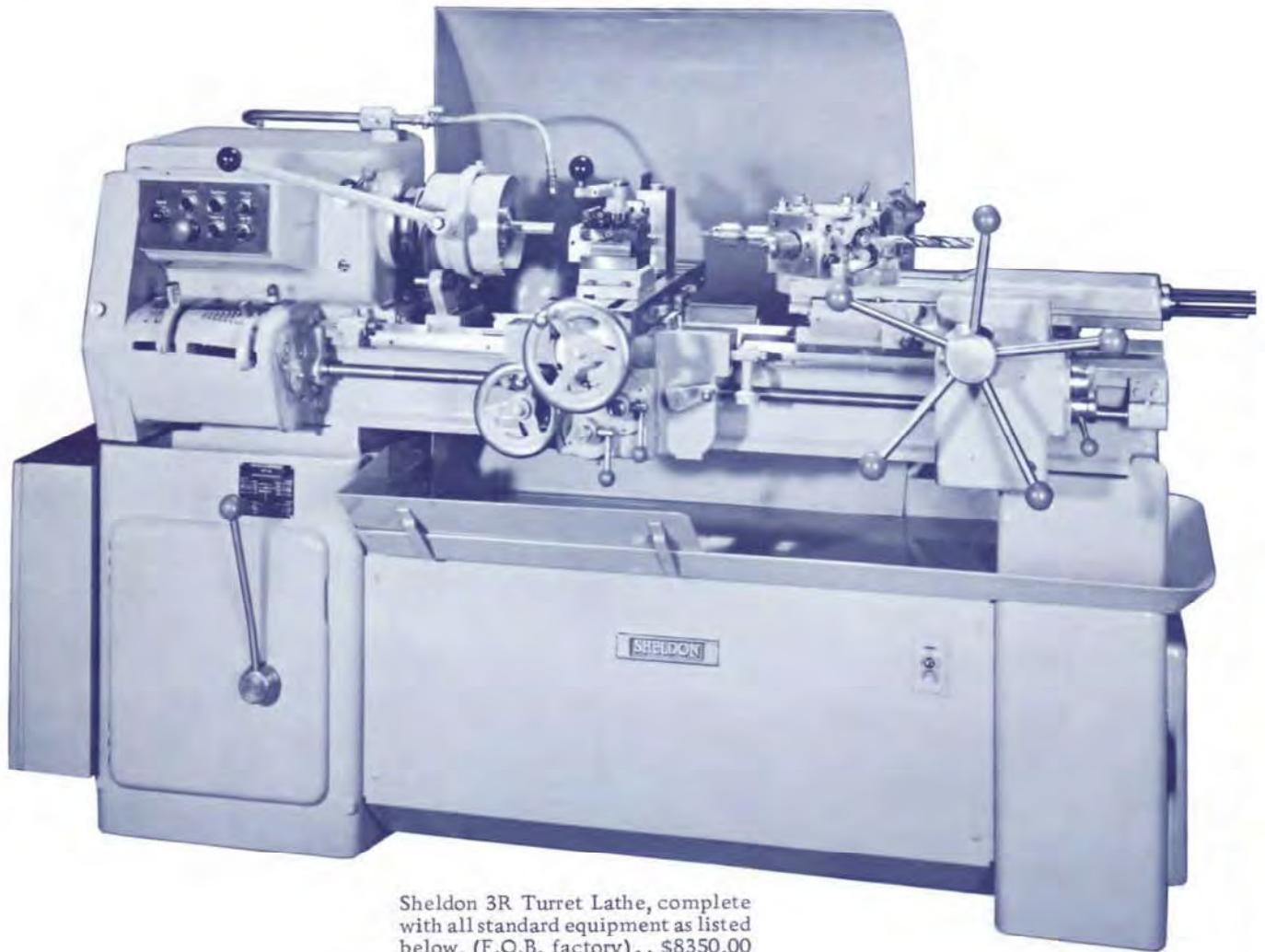
Builders of Lathes • Turret Lathes • Automatic Lathes • Milling Machines • Shapers

4258 N. Knox Avenue, Chicago, Illinois (60641) U.S.A. Telephone: (312) 685-1970 Cable Address: Sheldonco

www.OzarkToolManuals.com

SHELDON

SHELDON 3R TURRET LATHE



Sheldon 3R Turret Lathe, complete with all standard equipment as listed below, (F.O.B. factory).. \$8350.00
 With brakemotor 8610.00

SPECIFICATIONS

BAR CAPACITIES	
Round	1 1/2"
Square	1 1/8"
Hexagon	1 5/16"
SPINDLE	
American Standard	A1-6
Hole through spindle	1 5/8"
Spindle Nose Taper	#5
Center Morse Taper	#3
SWING	
Over Bed	15 3/8"
Over Carriage Wings	15 1/4"
Over Cross-slide	8"
MAXIMUM DISTANCE	
End of spindle to Turret Face	34 1/8"
HEXAGON TURRET	
Travel, working clearance	10"
Maximum slide travel	11 7/8"
Size across face	4 7/8"
Size across flats	8 1/2"
Diameter of Tool Holes	1 1/2"
Size of Bolt Holes	(4) 1/2-13 and (2) 7/16-14
Center of Turret hole to top of turret Slide	2 7/8"
CROSS-SLIDE	
Maximum Longitudinal Travel	29 3/4"
Cross Travel	11"
THREAD PITCHES AVAILABLE — 60 Range 4 to 240	
Screw threads per inch — 4, 4 1/2, 5, 5 1/2, 5 3/4, 6, 6 1/2, 6 3/4, 7, 7 1/2, 8, 9, 10, 11, 11 1/2, 12, 13, 13 1/2, 14, 15, 16, 18, 20, 22, 23, 24, 26, 27, 28, 30, 32, 36, 40, 44, 46, 48, 52, 54, 56, 60, 64, 72, 80, 88, 92, 96, 104, 108, 112, 120, 128, 144, 160, 176, 184, 192, 208, 216, 224, 240.	

LONGITUDINAL FEEDS AVAILABLE THROUGH GEAR BOX				
Number	60			
Range002 to .120			
CROSS FEEDS AVAILABLE THROUGH GEAR BOX				
Number	60			
Range002 to .120			
TURRET FEEDS AVAILABLE				
Number	80			
Range	One Half, Equal or Double Longitudinal Feeds			
MOTOR				
2 Speed, 1800/900 RPM, 60 cycle, 3 phase Geared Motor				
H.P.	5			
SPINDLE SPEEDS — 16 — 22 to 1250 R.P.M.*				
DIRECT DRIVE				
High Range	1250	940	630	300
Low Range	625	470	320	150
BACK GEARS				
High Range	200	160	120	45
Low Range	100	80	60	22

*Higher spindle speed range 35 to 1800 RPM available at slight extra cost.
SHIPPING WEIGHT 3500 lbs.
STANDARD EQUIPMENT
 Standard equipment includes the following: Two speed geared motor and two speed magnetic controls; Pushlight magnetic controls for turret; main line disconnect switch; American Standard A1-6 spindle; hardened bed ways; hard chrome cross slide dove tails; hardened cross slide screw; compensating nut; six station bed turret with power feed box; double tool post cross slide with power feed and front and rear tool blocks; 60 pitch gear box with lead screw reverse; precision lead screw; thread chasing dial; large satin chrome dials with station sequence clips; one-shot lubrication system for bed and cross slide; complete coolant system including chip and oil pan, front and rear coolant splash guards and coolant pump and piping.

TURRET LATHE TOOLING



AA-2050 Square Turret, weight 30 lbs. \$400.00

SQUARE TURRET

The square turret mounts on the cross-slide and permits rapid, accurate indexing to any of four cutting positions. It is released indexed and clamped automatically with the movement of the binder handle. The turret is the flat seat type, ideal for use with carbide cutters where exact cutting angles on pre-ground cutters are easily maintained. Tool opening 9-5/8"x1".



No. 36-02 Screw Type Slide Tool, weight 20 lbs. . . \$213.25

SCREW TYPE SLIDE TOOL

This slide tool eliminates set up time and provides a rigid, adjustable mounting for boring, recessing, grooving, facing, and back facing operations. The screw adjustment of the slide with its large easily read dial permits quick accurate tool positioning. The side dial is for setting the stopscrews which limit the travel of the slide in such operations as back facing or recessing.

ADJUSTABLE TOOL HOLDER



The adjustable tool holder corrects for inaccuracies of counterbores, reamers and other tools that must be located exactly on center. The front section of the holder carries the cutting tool and can be moved up and down, or sideways for proper alignment with the center of the spindle. The holder is hardened and the 1-1/2" shank is ground to fit directly into the hex turret. The bushing hole also has a 1-1/2" diameter.

No. 24-03 Adjustable Tool Holder, weight 7 lbs. \$51.00

The adjustable tool holder corrects for inaccuracies of counterbores, reamers and other tools that must be located exactly on center. The front section of the holder carries the cutting tool and can be moved up and down, or sideways for proper alignment with the center of the spindle. The holder is hardened and the 1-1/2" shank is ground to fit directly into the hex turret. The bushing hole also has a 1-1/2" diameter.

QUICK ACTING SLIDE TOOL



No. 38-01 Quick Acting Slide Tool, weight 20 lbs. . \$213.25

This slide tool is similar to the screw type except that it features a quick acting handle for rapid movement of the slide. With one-quarter turn of the handle the slide moves 1/2" with a smooth, powerful action. Adjustable stops control the travel of the slide so that definite accurate depths can be maintained. This makes the tool ideal for fast recessing, grooving and facing cuts, as well as inside facing cuts where a smooth finish is required.

PLAIN TOOL HOLDER



The plain tool holder acts as an extension holder for counterbores, reamers, flat cutters and especially straight shank drills. It is used to bring these tools to the correct distance from the turret face in order to line up with other tools. In the case of drills, tool holder bushings can be placed as close to the point of the drill as rigidity requires since the tool holder shank is hollow allowing the drill to be moved in and out as required. Hollow shank has 1-1/2" diameter.

No. 26-03 Plain Tool Holder, weight 4 lbs. \$31.25

The plain tool holder acts as an extension holder for counterbores, reamers, flat cutters and especially straight shank drills. It is used to bring these tools to the correct distance from the turret face in order to line up with other tools. In the case of drills, tool holder bushings can be placed as close to the point of the drill as rigidity requires since the tool holder shank is hollow allowing the drill to be moved in and out as required. Hollow shank has 1-1/2" diameter.

FLANGED TOOL HOLDERS



No. 40-02 Long Flanged Holder, 6" lg, wt. 12 lbs. . . \$41.65
No. 41-03 Short Flanged Holder, 3-1/2" lg, wt. 9 lbs. \$28.90

Flanged tool holders are bolted directly to the hexagon turret face and are centered by short pilots. They are used as extension tool holders for reamers, drills, boring bars and other shank type tools. Holders have a 1-1/2" bore which is ground to size. Two lengths are available to permit equal turret travel for all stations or necessary tool clearances.

FLOATING REAMER HOLDER



No. 28-04 Floating Reamer Holder, weight 5 lbs. . . . \$48.75

The body of the floating reamer holder fits loosely into the shank and is held together by a loose fitting pin. This loose fit allows the reamer to center itself, sizing the hole properly, and compensating for slight inaccuracies in either the tool or machine.

TAPER DRILL SOCKETS



bore can be furnished with either a #2, #3, or #4 M.T. Sockets are hardened and ground.
No. 66-042 Drill Socket, #2 M.T., weight 3 lbs. \$12.00
No. 66-043 Drill Socket, #3 M.T., weight 3 lbs. \$12.00
No. 66-044 Drill Socket, #4 M.T., weight 3 lbs. \$12.00

Taper drill sockets are used to adapt taper shank tools directly to tool holders or turret holes without sleeves or bushings. The outside diameter is 1-1/2" and is straight, while the inside taper

KNURLING TOOL



30° a diamond knurl, and at 45° a square knurl. Medium knurls are furnished unless fine or course knurls are specified.
No. 32-02 Knurling Tool, weight 10 lbs. \$124.50

The knurling tool fits in the hex turret and permits knurling work from 1/4" to 1-1/2" in diameter up to a maximum length of 2-3/4". Knurl holders are quickly adjustable for diameter and can be set in three positions to produce three different patterns with one set of knurls. With the helix angle set at 0°, a straight knurl is produced; at

AIR BAR FEED



Bar feed is designed to automatically feed by air pressure, square, or hex bar stock into the spindles to a fixed stop. It will handle all sizes and shapes of stock within its capacity without set-up change. Telescoping stands give height adjustment, from 38-1/2" to 50" for easy spindle alignment. Attachment is supplied complete with regulator, gage, valve, piston and adjustable stands.

Stock No.	Bar Feed Capacity	Weight	Price
AA-1940	1-3/8"x12'	230 lbs.	\$320.00
AA-1955	1-1/2"x12'	250 lbs.	360.00

TURRET LATHE TOOLING

Continued from page 1

BAR TURNERS



52-02

Bar turners mount on the hex turret and provide a rigid, accurate means for turning bar stock within their capacities. They are equipped with an adjustable cutter block for setting the cutter to size which reduces set-up time to a minimum. Adjustable anti-friction rolls support the work opposite the cut providing the rigidity needed on turning cuts which overhang the collet an unusual distance. The rolls can be moved ahead or behind the cutter. When set behind the cutter the rolls burnish the work to a high polish. When set ahead of the cutter and riding on a pre-finished diameter, the rolls help hold close concentricity between this diameter and the diameter being turned. The turners have a vertical lever which withdraws the cutter from the work to prevent marring on the return stroke.

The 52-02 has a 1" shank for mounting in turret holders or turret holes. It can handle bar stock from 1/8" to 3/4" in diameter for a maximum length of 2-3/4".

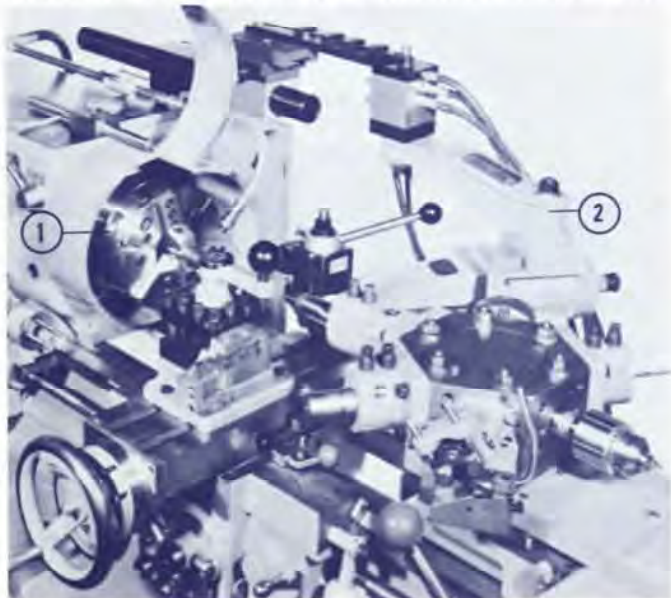


52-03

The 52-03 has the flange type mounting for bolting to the face of the turret. It handles bar stock from 1/2" to 1" in diameter. Much longer lengths can be turned since the stock can pass through both the Turner and the turret head.
No. 52-02 Shank type Bar Turner, weight 20 lbs. \$237.00
No. 52-03 Flange type Bar Turner, weight 20 lbs. 254.25

CUSHMAN CHUCKS FOR 3R TURRET LATHE WITH A1-6" SPINDLE

- #A2251 8" 4-Jaw: Solid Jaws \$270.00
- #A2247 6" 3-Jaw: 2 Piece Jaws 275.00
- #A2248 8" 3-Jaw: 2 Piece Jaws 292.00
- #A2249 10" 3-Jaw: 2 Piece Jaws 378.00



LEVER OPERATED COLLET CHUCK (Sjogren)



Lever operated collet chuck is mounted on the spindle nose and can be operated without stopping the lathe spindle. Positive lock of the closing collar holds work firmly in position while in operation. Price of 3J Collet Chuck includes splash guard.

- A-2246 3J Collet Chuck, 1-5/8" capacity \$372.00
- 3J round collets 1/8" to 1-1/2" by 16ths, each 13.75

SQUARE TURRET, SCREW OPERATED



This 4-1/2" square turret mounts on the cross-slide and permits the use of four tools, each with three working positions. Turret is guaranteed to re-index within .0005" and features new o-ring seal to keep dust or fine chips out of indexing mechanism. Unscrewing lever at top releases turret for

- hand indexing in 30° increments. Maximum tool shank size 1".
- AA-2051 Square Turret, weight 44 lbs. \$240.00

THREADING ATTACHMENT



The angle threading attachment mounts on the cross-slide to adapt the turret lathe for single point threading. It mounts in a fixed 28° position, and has a slide travel of 3". Friction type feed dial is chrome plated and graduated in thousandths from 0 to 125. Tool post assembly is included.

- No. 31600 Angle Threading attachment, wt. 27 lbs. .. \$285.00
- No. 51 Threading tool, for above, wt. 1-1/2 lbs. .. 13.00

MULTIPLE CARRIAGE STOP

- A-2345 Six position multiple carriage stop, mounts on turret lathe bed. Wt. 5 lbs, ... 50.00

AIR COLLET CHUCK

For increased speed in both chucking and collet work. 8", 3 jaw chuck is equipped with two sets of jaws. One is a set of soft blank top jaws that can be machined for either internal or external chucking and the other is a set of special jaws machined to take #461 W & S collet pads. Air actuator allows the feeding of bar stock up to 1-3/8" capacity through spindle. Chuck jaws have direct closing action for extra accuracy, by eliminating errors caused by push or pull type collets. Includes chuck splash guard, air filter and regulators and air valve. See #1, left illustration.

- A-2265 Air collet chuck \$2,300.00

SINGLE AXIS TRACER

Heavy duty single axis tracer can be mounted on rear of cross slide for increased versatility in contour turning and facing operations. Start and stop controls are front mounted for operator convenience. Tracer has a 4" tracing stroke and can trace up to a maximum 18" template in any one setting. No. 2 as illustrated left, less tool post.

- AA-2082 Tracer \$3,500.00

TELESCOPIC TAPER ATTACHMENT

A telescopic taper attachment with 12-1/4" maximum taper turning length capacity in any one setting, 5" maximum taper per foot, 12° maximum offset from the centerline.

- No. 21655 \$575.00

CM AND HCM HAND CHUCKING MACHINES



CM Sheldon Precision 8-station General Purpose Hand Chucking Machine for close tolerance production work.

HEADSTOCK

13-1/8" swing over the bed ways.

BED

46" overall bed length.
9-13/16" maximum distance from spindle nose to the face of turret.
Hardened bed ways.

TURRET

8 station air lock turret accurate to a maximum of .000050" repeat index accuracy.
Mounted on a large wide cross-slide platen with 5-3/8" cross-slide travel.
Double locked tapered cross-slide gib.
Large 5" diameter satin chrome direct reading micrometer cross-slide dial with sequence clips.
Hardened crossfeed screw.
Cross-slide compensating nut.
Hard chrome cross-slide ways.

SPINDLE

16 spindle speeds from 90 to 2200 r.p.m.
4" D1 camlock spindle accurate to .0002" total indicator runout at spindle nose.
1-3/8" hole through the spindle.
1-1/16" drawbar collet capacity.

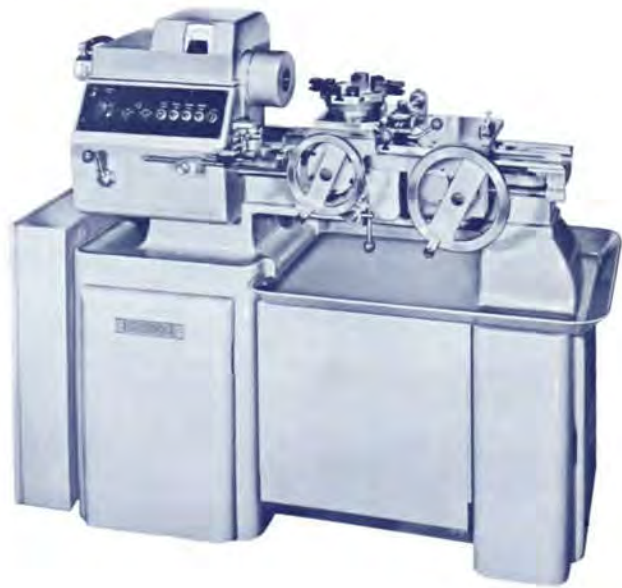
LEAD SCREW

Precision lead screw.

CM Sheldon precision 8-station hand chucking machine. (shipping weight - 1675 pounds), **\$4,410.00**
Price includes all standard equipment

STANDARD EQUIPMENT

2 H.P. two-speed, 220 volt, 60 cycle, 3 phase brakemotor. Optional - 2 H.P. two-speed, 440 volt, 60 cycle, 3 phase brakemotor. No extra charge.
High-low and start-stop-reverse controls.
Air lubricator, air filter, air regulator and air hose.
8 station air lock turret with 6 tool holders, consisting of 2 square machined single tool holders, 1 square machined double tool holder, 1 solid tool holder to be bored by user, 2 adjustable tool holders and 2 tool holder blocks.
One shot lubrication system for cross-slide and bed ways.
Ball bearing hand lever operated collet closer and draw tube for use with 5 C Collets.
Rotating 4 position barrel type multiple cross-slide stop with dial indicator.
4 position multiple longitudinal carriage stop with 1" travel dial indicator mounted on a carriage stop rod with 14 stations in 1/2" increments.
Chip pan.
Front pedestal panel.
Spindle nose splash guard.
Necessary belts and wrenches.
Five year guarantee certificate.
See illustrated Bulletin CM263 for more complete data.



HCM Sheldon High Speed Super Precision 8-station Hand Chucking Machine for close tolerance production work.

HEADSTOCK

13-1/8" swing over the bed ways.

BED

46" overall bed length.
11-3/8" maximum distance from spindle nose to the face of the turret.
Hardened bed ways.

TURRET

8 station air lock turret.
Accurate to a maximum of .000050" repeat index accuracy.
Mounted on a large wide cross-slide platen with 5-3/8" cross-slide travel.
Double locked tapered cross-slide gib.
Large 5" diameter satin chrome direct reading micrometer cross-slide dial with sequence clips.
Hardened crossfeed screw.
Cross-slide compensating nut.
Hard chrome cross-slide ways.

SPINDLE

8 spindle speeds from 400 to 3440 r.p.m.
4" D1 camlock spindle accurate to .0001" total indicator runout at spindle nose.
1-1/16" collet capacity.

HCM Sheldon high speed super precision 8 station chucking machine, **\$5780.00**

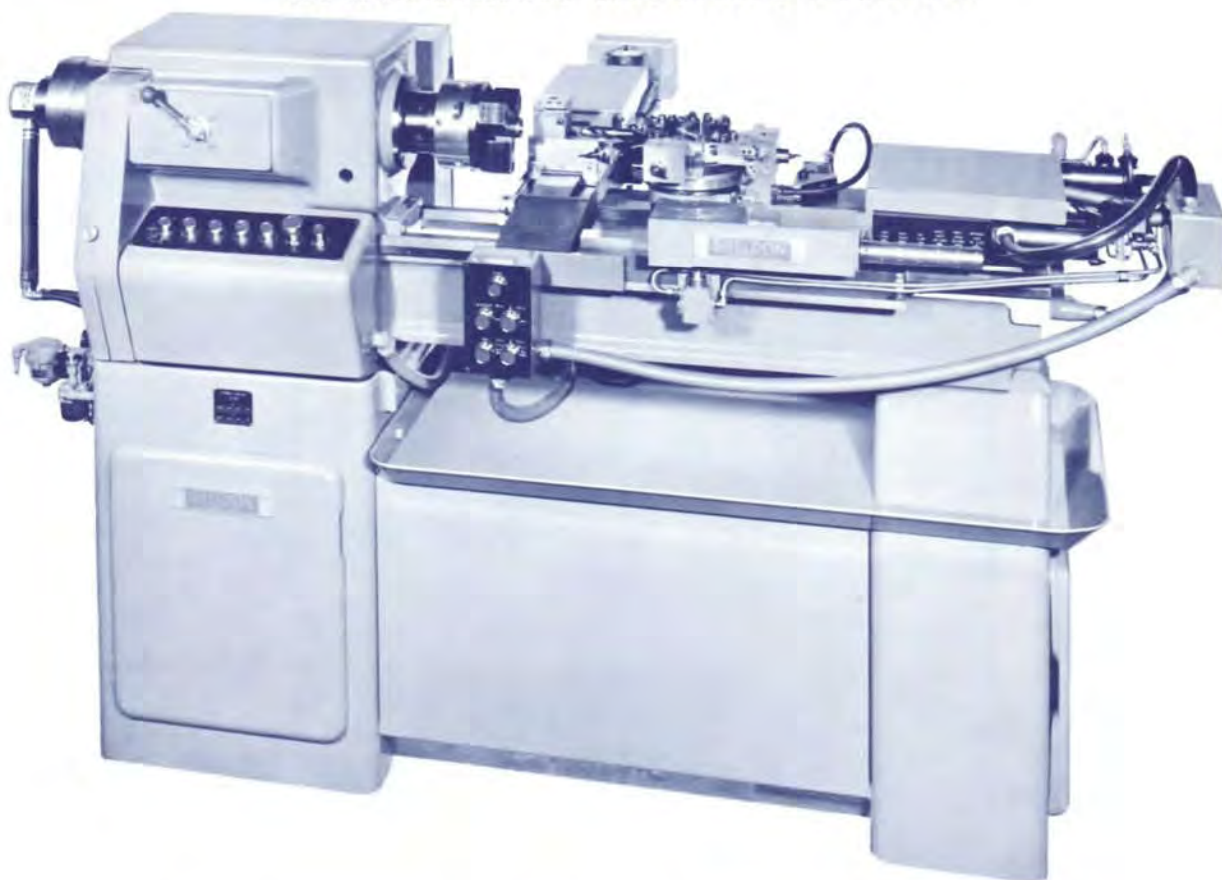
Price includes all standard equipment.
(Shipping weight 1725 pounds.)

STANDARD EQUIPMENT

2 H.P. two-speed, 220 volt, 60 cycle, 3 phase brakemotor with two-speed magnetic reversing controls providing 110 volts at all pushbutton stations.
Optional - 2 H.P. two-speed, 440 volt, 60 cycle, 3 phase brakemotor. No extra charge.
Ball bearing hand lever operated, collet closer and drawtube for use with 5 C Collets.
Infinitely variable power feeds to carriage through an independent DC motor drive providing from 0 to 8-3/4" per minute longitudinal carriage travel and from 0 to 8-1/4" per minute cross-slide travel.
8 station air lock turret with 6 tool holders, consisting of 2 square machined single tool holders, 1 square machined double tool holder, 1 solid tool holder to be bored by user, 2 adjustable tool holders and 2 tool holder blocks.
One shot lubrication system for cross-slide and bed ways.
Rotating 4 position barrel type multiple cross-slide stop with dial indicator.
4 position multiple longitudinal carriage stop with 1" travel dial indicator mounted on a carriage stop rod with 14 stations in 1/2" increments.
Spindle nose splash guard.
Electric tachometer.
Front pedestal panel.
Chip pan.
Necessary belts and wrenches.
Five year guarantee certificate.
See illustrated Bulletin HCM263 for more complete data.

Power actuated cylinder for use with collets expanding arbors or chuck installed at factory in place of ball bearing hand lever collet closer. A2266. **\$600.00**
(Illustration shows HCM equipped with A2266)

CR AUTOMATIC CHUCKING MACHINE



CR Sheldon Precision Automatic 9 station Chucking Machine for high speed close tolerance production work.

CR Sheldon precision automatic 9-station chucking machine.
(shipping weight - 2750 pounds). \$14,875.00
Price includes all standard equipment

HEADSTOCK

- 15-1/4" swing over bed ways.
- 8-1/2" turning and facing diameter over cross slide.
- 27" maximum distance from face of 8 station automatic air indexing turret.

TURRET

- Accurate to .000025" repeat index accuracy.
- Mounted on an adjustable wide longitudinal slide with a hardened slide base.

LONGITUDINAL SLIDE

- Operated by air hydraulics with 8" total travel and with two infinitely variable controlled feeds up to 4-1/2" in length.

CROSS SLIDE

- Adjustable 9th station cross slide with a hardened slide base.
- Operated by air hydraulics with 8" total travel.

SLIDES

- Double locked tapered slide gibs.
- Adjustable controls for rapid traverse and feed of slides.
- Adjustable air hydraulics operated slide dwell control.

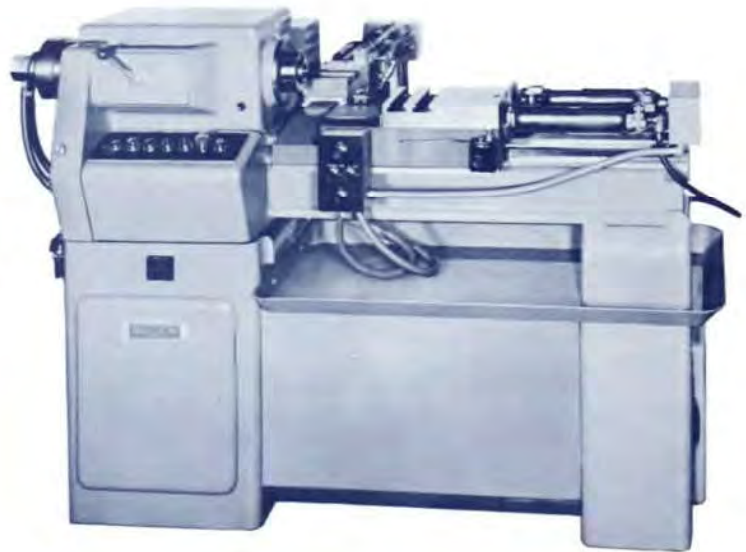
SPINDLE

- Eight spindle speeds from 195 to 2000 r.p.m. with self adjusting clutch and brake for instant start and stop of spindle.
- Spindle jog control button for positioning work holding device.
- 4" D1 camlock spindle, accurate to .0001" total indicator runout at the spindle nose.

STANDARD EQUIPMENT

- Chip pan
 - Micrometer depth stop
 - 3 H.P. two-speed, 220 volt, 60 cycle, 3 phase motor, with necessary electrical switches, controls and wiring.
 - Optional - 3 H.P. two-speed, 440 volt, 60 cycle, 3 phase motor. No extra charge.
 - Rotating spindle air cylinder, slide air cylinder motors, air regulators, air lubricators, air filter and necessary air controls, air hoses, piping and fittings.
 - Hydrocheck cylinder assemblies, slide lubricators and necessary controls and piping.
 - Drum programmer with tabs and buttons providing for tool entry, low-high speed change, activation of cross-slide, selective slide dwell holds and optional feeds.
 - Slide cycle selector switch.
 - Five standard tool blocks with 1" hole.
 - Spindle air cylinder drawtube and spindle adaptor for 5C collets and 5C step collets.
 - Three way valve for reversing chucking pressures.
 - Necessary belts and wrenches.
 - Five year guarantee certificate.
- See illustrated Bulletin CR1-62 for more complete data.

AM AND AR AUTOMATIC LATHES



AM Sheldon Precision Automatic Lathe for accurate repetitive turning, boring, facing, chamfering and other applicable machining operations.

HEADSTOCK

13-1/8" swing over bed ways.
6-1/2" maximum turning and facing diameter over cross-slide.

SLIDES

Air-hydraulic operated 8" travel longitudinal slide.
Air-hydraulic operated 8" travel cross-slide, each mounted on a separate positionable hardened slide base.
Adjustable double locked tapered slide gibs.
Adjustable controls for rapid traverse and feed of slides.
Adjustable air-hydraulic operated slide dwell controls.

SPINDLE

Eight spindle speeds from 400 to 3500 r.p.m. with self adjusting clutch and brake for instant start and stop of spindle.
Spindle jog control for positioning work holding device.
4" DI camlock spindle, accurate to .0001" total indicator runout at spindle nose.

AM Sheldon precision automatic lathe (shipping weight - 1800 pounds) **\$8,785.00**
Price includes all standard equipment

STANDARD EQUIPMENT

Chip pan.
Micrometer depth stop.
2 H.P. two-speed, 220 volt, 60 cycle, 3 phase motor with necessary electrical switches, controls and wiring. Optional - 2 H.P. two-speed, 440 volt, 60 cycle, 3 phase motor. No extra charge.
Rotating spindle air cylinder, slide air cylinder motors, air regulators, air lubricators, air filter and necessary air controls, air hoses, piping and fittings.
Hydrocheck cylinder assemblies, slide lubricators and necessary controls and piping.
Slide cycle selector switch.
Spindle air cylinder draw tube and spindle adaptor for 5C collets and 5C step collets.
Three way valve for reversing chucking pressure.
Necessary wrenches.
Operating instructions.
Five year guarantee certificate.
See Illustrated Bulletin A-1-62 for more complete data.

AR Sheldon Precision Automatic Lathe for accurate repetitive turning, boring, facing, chamfering and other applicable machining operations.

HEADSTOCK

15-1/4" swing over bed ways.
8-1/2" maximum turning and facing diameter over cross-slide.

SLIDES

Air-hydraulic operated 9" travel longitudinal slide.
Air-hydraulic operated 8" travel cross-slide, each mounted on a separate positionable hardened slide base.
Adjustable double locked tapered slide gibs.
Adjustable controls for rapid traverse and feed of slides.
Adjustable air-hydraulic operated slide dwell controls.

SPINDLE

8 spindle speeds from 195 to 2000 r.p.m. with self adjusting clutch and brake for instant start and stop of spindle.
Jog control for positioning work holding device.
4" DI camlock spindle, accurate to .0001" total indicator runout at spindle nose.

AR Sheldon precision automatic lathe (shipping weight - 2650 pounds) **\$10,470.00**
Price includes all standard equipment

STANDARD EQUIPMENT

Chip pan.
Micrometer depth stop.
3 H.P. two-speed, 220 volt, 60 cycle, 3 phase motor, with necessary electrical switches, controls and wiring. Optional - 3 H.P. two-speed, 440 volt, 60 cycle, 3 phase motor. No extra charge.
Rotating spindle air cylinder, slide air cylinder motors, air regulators, air lubricators, air filter, and necessary air controls, air hoses, piping and fittings.
Hydrocheck cylinder assemblies, slide lubricators, controls and piping.
Slide cycle selector switch.
Spindle air cylinder draw tube and spindle adaptor for 5C collets and 5C step collets.
Three way valve for reversing chucking pressure.
Necessary wrenches.
Operating instructions.
Five year guarantee certificate.
See illustrated Bulletin A-1-62 for more complete data.



L SERIES 10" LATHES

EL46B Sheldon backgeared, screw cutting, precision tool room lathe has 10-1/8" swing, 46" bed length and 26" between centers.

ZERO PRECISION BEARINGS

The spindle is mounted on large, adjustable, tapered roller bearings. Spindle Threaded 1-3/4" x 8 t.p.i.

COLLET CAPACITY

The 1-1/16" hole through the spindle provides 3/4" maximum draw bar collet capacity and 1" maximum spindle nose type collet chuck capacity.

GEAR BOX

The full, quick change gear box is designed for thread cutting range from 4 to 240 threads per inch with 60 different pitches, right and left hand. Longitudinal feed through clutch .0535" to .00085"

APRON

The apron is double walled and includes both power cross and power longitudinal feed. There is a drop lever disc type clutch for engaging power feeds. It has a simple safety adjustment for overload protection.

STEEL CABINET

It is mounted on a steel cabinet which includes three drawers with locks and one housing for V-belt underneath motor drive. The top of the steel cabinet acts as an oil and chip pan.

EL46B Shipping weight . . . 1160 pounds.
Price, less motor and switch **\$1,610.00**

STANDARD EQUIPMENT (Included in Base Price of Lathe)

Necessary Belts	Tailstock Center	Tool Post Complete
Necessary Wrenches	Center Sleeve	Thread Chasing Dial
Headstock Center	Small Dog Plate	Operation Manual

OTHER L SERIES LATHES STEEL CABINETS (as illustrated)

Stock No.	Lbs.	H.P. Motor	Bed	C. D.	Price
EL38B	1140	3/4	38"	18"	\$1,600.00
EL56B	1180	3/4	56"	36"	1,705.00
UL46B*	1210	1	46"	26"	1,848.00

PEDESTAL BASE

Stock No.	Lbs.	H.P. Motor	Bed	C.D.	Chip Pan	
					No.	Price
EL38P	1240	3/4	38"	18"	L1867-1	\$47.25
EL46P	1260	3/4	46"	26"	L1867-6	47.25
EL56P	1280	3/4	56"	36"	L1867-3	54.00
UL46P*	1310	1	46"	26"	L1867-6	47.25

*Note: UL46P has U-type underneath drive that provides 8 spindle speeds from 50 to 1200 r.p.m. through external shifting levers. This permits rapid change of spindle speeds while lathe is running.

L46 Horizontal drive lathe. Weight 650 pounds. Does not include pedestal or steel cabinet or underneath drive . . . **\$1,295.00**
A2049 Floor leg assembly and chip pan for L46 . . . **105.00**

RECOMMENDED ELECTRICAL EQUIPMENT (Not Included in Price of Lathe)

380	Motor, 1 h. p., 220/440 volts, 3-phase, 60 cycle, 1725 r.p.m.	\$ 88.00
	Recommended for U-drives, optional for E.	
374	Motor, 3/4 h.p., 220/440 volts, 3-phase, 60 cycle, 1725 r.p.m.	67.00
164	Motor, 1/2 h.p., 110/220 volts, 1-phase, 1725 r.p.m., for L46	63.00
R44	Switch, reversing drum for 3-phase operation	14.25
A-1711	Magnetic reversing starter	116.00



XL SERIES 10" LATHES

EXL56B Sheldon backgeared, screw cutting, precision tool room lathe has 10-1/8" swing, 56" bed length and 36" between centers.

ZERO PRECISION BEARINGS

The spindle is mounted on large, adjustable, tapered roller bearings. Spindle Threaded 2-1/4" x 8 t.p.i.

COLLET CAPACITY

The 1-3/8" hole through the spindle provides 1-1/16" maximum draw bar collet capacity and 1-3/8" maximum spindle nose type collet chuck capacity.

GEAR BOX

The full, quick change gear box is designed for thread cutting range from 4 to 240 threads per inch with 60 different pitches, right and left hand. Longitudinal feed through clutch .0535" to .00085"

APRON

The apron is double walled and includes both power cross and power longitudinal feed. There is a drop lever disc type clutch for engaging power feeds. It has a simple safety adjustment for overload protection.

STEEL CABINET

It is mounted on a steel cabinet which includes three drawers with locks and one housing for V-belt underneath motor drive. The top of the steel cabinet acts as an oil and chip pan.

EXL56B Shipping weight . . . 1190 pounds
Price, less motor and switch **\$1,869.00**

STANDARD EQUIPMENT (Included in Base Price of Lathe)

Necessary Belts	Center Sleeve
Necessary Wrenches	Small Dog Plate
Headstock Center	Tool Post Complete
Tailstock Center	Thread Chasing Dial
Manual: The Care and Operation of a Lathe	

OTHER XL SERIES LATHES

Stock No.	Lbs.	H.P. Motor	Bed	C. D.	Price
EXL38B	1140	3/4	38"	18"	\$1,762.00
EXL46B	1160	3/4	46"	26"	1,795.00

RECOMMENDED ELECTRICAL EQUIPMENT (Not Included in Price of Lathe)

380	Motor, 1 h.p., 220/440 volts, 3-phase, 60 cycle, 1725 r.p.m.	\$ 88.00
374	Motor, 3/4 h.p., 220/440 volts, 3-phase, 1725 r.p.m.	67.00
R44	Switch, reversing drum for 3-phase operation	14.25
A-1711	Magnetic reversing starter	116.00



XL SERIES 10" LATHES

EXL56P Sheldon backgeared, screw cutting, precision tool room lathe has 10-1/8" swing, 56" bed length and 36" between centers. **ZERO PRECISION BEARINGS**

The spindle is mounted on large, adjustable, tapered roller bearings. Spindle Threaded 2-1/4" x 8 t.p.i.

COLLET CAPACITY

The 1-3/8" hole through the spindle provides 1-1/16" maximum draw bar collet capacity and 1-3/8" maximum spindle nose type collet chuck capacity.

GEAR BOX

The full, quick change gear box is designed for thread cutting range from 4 to 240 threads per inch with 60 different pitches, right and left hand. Longitudinal feed through clutch .0535" to .00085".

APRON

The apron is double walled and includes both power cross and power longitudinal feed. There is a drop lever disc type clutch for engaging power feeds. It has a simple safety adjustment for overload protection.

PEDESTAL

The pedestal base leg under the headstock encloses the V-belt underneath motor drive. The E-type underneath drive has 8 spindle speeds from 50 to 1355 r.p.m. 16 speeds from 50 to 1600 r.p.m. are optional at no extra cost.

EXL56P Shipping weight 1290 pounds.
Price, less motor, chip pan, and switch **\$1,869.00**
Extra for L1867-3, chip pan 54.00

STANDARD EQUIPMENT (Included in Base Price of Lathe)

Necessary Belts	Center Sleeve
Necessary Wrenches	Small Dog Plate
Headstock Center	Tool Post Complete
Tailstock Center	Thread Chasing Dial
Manual: The Care and Operation of a Lathe	

OTHER XL SERIES LATHES

Stock No.	Lbs.	H.P.		C.D.	Chip Pan		Price
		Motor	Bed		No.	Price	
EXL38P	1240	3/4	38"	18"	L1867-1	\$47.25	\$1,762.00
EXL46P	1260	3/4	46"	26"	L1867-6	47.25	1,795.00
UXL46P*	1310	1	46"	26"	L1867-6	47.25	2,010.00
UXL56P*	1340	1	56"	36"	L1867-3	54.00	2,077.00

*Note: UXL46P and UXL56P have U-type underneath drive that provides 8 spindle speeds from 50 to 1200 r.p.m. through external shifting levers. This permits rapid change of spindle speeds while lathe is running.

XL56 Horizontal drive lathe. Weight 700 pounds. Does not include pedestal or steel cabinet or underneath drive **\$1,425.00**

RECOMMENDED ELECTRICAL EQUIPMENT (Not Included in Price of Lathe)

380	Motor, 1 h.p., 220/440 volts, 3-phase, 60 cycle 1725 r.p.m.	\$88.00
	Recommended for U-drives, optional for E.	
374	Motor, 3/4 h.p., 220/440 volts, 3-phase, 1725 r.p.m.	67.00
R44	Switch, reversing drum for 3-phase operation	14.25
A-1711	Magnetic reversing starter	116.00



S SERIES 11" LATHES

ES56B Sheldon backgeared, screw cutting, precision tool room lathe has 11-1/4" swing, 56" bed length and 33" between centers. **ZERO PRECISION BEARINGS**

The spindle is mounted on large, adjustable, tapered roller bearings. Spindle threaded 2-1/4" x 8 t.p.i.

COLLET CAPACITY

The 1-3/8" hole through the spindle provides 1-1/16" maximum draw bar collet capacity and 1-3/8" maximum spindle nose type collet chuck capacity.

GEAR BOX

The full, quick change gear box is designed for thread cutting range from 4 to 240 threads per inch with 60 different pitches, right and left hand. Longitudinal feed through clutch .0535" to .00085".

APRON

The apron is double walled and includes both power cross and power longitudinal feed. There is a drop lever disc type clutch for engaging power feeds. It has a simple safety adjustment for overload protection.

STEEL CABINET

It is mounted on a steel cabinet which includes three drawers with locks and one housing for V-belt underneath motor drive. The top of the steel cabinet acts as an oil and chip pan.

ES56B Shipping weight 1390 pounds.
Price, less motor and switch **\$2,022.00**

STANDARD EQUIPMENT (Included in Base Price of Lathe)

Necessary Belts	Center Sleeve
Necessary Wrenches	Small Dog Plate
Headstock Center	Tool Post Complete
Tailstock Center	Thread Chasing Dial
Manual: The Care and Operation of a Lathe	

OTHER S SERIES LATHES

Stock No.	Lbs.	H.P.	Bed	C.D.	Price
ES46B	1365	1	46"	22"	\$1,935.00
US56B*	1440	1-1/2	56"	33"	2,235.00

*Note: US56P has U-type underneath drive that provides 8 spindle speeds from 50 to 1200 r.p.m. through external shifting levers. This permits rapid change of spindle speeds while lathe is running.

RECOMMENDED ELECTRICAL EQUIPMENT (Not Included in Price of Lathe)

384L	Motor, 1-1/2 h.p., 220/440 volts, 3-phase, 60 cycle, 1725 r.p.m.	\$103.00
	Recommended for U-drives, optional for E.	
380	Motor, 1 h.p., 220/440 volts, 3-phase, 60 cycle, 1725 r.p.m.	88.00
R44	Switch, reversing drum for 3-phase operation	14.25
A-1711	Magnetic reversing starter	116.00



S SERIES 11" LATHES

ES56P Sheldon backgeared, screw cutting, precision tool room lathe has 11-1/4" swing, 56" bed length and 33" between centers.

ZERO PRECISION BEARINGS

The spindle is mounted on large, adjustable, tapered roller bearings. Spindle Threaded 2-1/4" x 8 t.p.i.

COLLET CAPACITY

The 1-3/8" hole through the spindle provides 1-1/16" maximum draw bar collet capacity and 1-3/8" maximum spindle nose type collet chuck capacity.

GEAR BOX

The full, quick change gear box is designed for thread cutting range from 4 to 240 threads per inch with 60 different pitches, right and left hand. Longitudinal feed through clutch .0535" to .00085".

APRON

The apron is double walled and includes both power cross and power longitudinal feed. There is a drop lever disc type clutch for engaging power feeds. It has a simple safety adjustment for overload protection.

PEDESTAL

The pedestal base leg under the headstock encloses the V-belt underneath motor drive. The E-type underneath drive has 8 spindle speeds from 50 to 1355 r.p.m. 16 speeds from 50 to 1600 r.p.m. are optional at no extra cost.

ES56P Shipping weight 1490 pounds
 Price, less motor, chip pan, and switch \$2,022.00
 Extra for L1867-7, chip pan 54.00

STANDARD EQUIPMENT (Included in Base Price of Lathe)

Necessary Belts	Center Sleeve
Necessary Wrenches	Small Dog Plate
Headstock Center	Tool Post Complete
Tailstock Center	Thread Chasing Dial
Manual: The Care and Operation of a Lathe	

OTHER S SERIES LATHES

Stock No.	Lbs.	H.P.	Motor	Bed	C.D.	No.	Chip Pan	Price	Price
ES46P	1465	1	46"	22"	L1867-8	\$47.25	\$1,935.00		
US56P*	1540	1-1/2	56"	33"	L1867-7	54.00	2,235.00		

*Note: US56B has U-type underneath drive that provides 8 spindle speeds from 50 to 1200 r.p.m. through external shifting levers. This permits rapid change of spindle speeds while lathe is running.

RECOMMENDED ELECTRICAL EQUIPMENT (Not Included in Price of Lathe)

384L Motor, 1-1/2 h.p., 220/440 volts, 3-phase, 60 cycle, 1725 r.p.m.	\$103.00
Recommended for U-drives, optional for E.	
380 Motor, 1 h.p., 220/440 volts, 3-phase, 60 cycle, 1725 r.p.m.	88.00
R44 Switch, reversing drum for 3-phase operation	14.25
A-1711 Magnetic reversing starter	116.00



W SERIES-VARIABLE SPEED LATHES

WM56P Sheldon backgeared, screw cutting, precision tool room lathe has 13-1/8" swing, 56" bed length and 33" between centers.

ZERO PRECISION BEARINGS

The spindle is mounted on large, adjustable, tapered roller bearings. Spindle threaded 2-1/4" x 8 t.p.i.

COLLET CAPACITY

The 1-3/8" hole through the spindle provides 1-1/16" maximum draw bar collet capacity and 1-3/8" maximum spindle nose type collet chuck capacity.

GEAR BOX

The full, quick change gear box is designed for thread cutting range from 4 to 240 threads per inch with 60 different pitches, right and left hand. Longitudinal feed through clutch .0535" to .00085".

APRON

The apron is double walled and includes both power cross and power longitudinal feed. There is a drop lever disc type clutch for engaging power feeds. It has a simple safety adjustment for overload protection.

PEDESTAL

The heavy, pedestal base leg under the headstock encloses the variable speed underneath motor drive. The pedestal leg under the tailstock provides storage space.

DRIVE

The variable drive (W) has double V-belts throughout the drive unit which eliminates belt slippage and delivers maximum power to the spindle. The 10 to 1 ratio of the drive provides infinite speeds from 200 to 2000 r.p.m. in direct drive and 40 to 300 r.p.m. in back gear.

Enclosed in the headstock cover is an electric speed indicator to show r.p.m. of spindle. Variable speed is controlled by fast and slow push buttons.

WM56P Shipping weight 1650 pounds
 Price, less motor, switch and chip pan \$2,750.00
 Extra for L1867-7, chip pan 54.00

STANDARD EQUIPMENT (Included in Base Price of Lathe)

Necessary Belts	Center Sleeve
Necessary Wrenches	Small Dog Plate
Headstock Center	Tool Post Complete
Tailstock Center	Thread Chasing Dial
Manual: The Care and Operation of a Lathe	

OTHER W DRIVE LATHES

Stock No.	Lbs.	Swing	Bed	C.D.	No.	Chip Pan	Price	Price
WM46P	1580	13-1/8"	46"	22"	L1867-8	\$47.25	\$2,670.00	
WM70P	1750	13-1/8"	70"	47"	L1867-5	65.50	2,820.00	
WS46P	1550	11-1/4"	46"	22"	L1867-8	47.25	2,530.00	
WS56P	1620	11-1/4"	56"	33"	L1867-7	54.00	2,618.00	

RECOMMENDED ELECTRICAL EQUIPMENT (Not Included in Price of Lathe)

H-8312 Motor, 2 h.p., 220/440 volts, 3-phase, 60 cycle.	\$118.00
J-2 Reversing drum switch with forward, stop and reverse operation	19.50
A-1711-W Magnetic reversing starter with overload and low voltage protection with 5 push buttons - forward, reverse, stop, slow and fast.	116.00



M SERIES 13" LATHES

EM56B Sheldon backgeared, screw cutting, precision tool room lathe has 13-1/8" swing, 56" bed length and 33" between centers.

ZERO PRECISION BEARINGS
The spindle is mounted on large, adjustable tapered roller bearings. Spindle Threaded 2-1/4" x 8 t.p.i.

COLLET CAPACITY
The 1-3/8" hole through the spindle provides 1-1/16" maximum draw bar collet capacity and 1-3/8" maximum spindle nose type collet chuck capacity.

GEAR BOX
The full, quick change gear box is designed for thread cutting range from 4 to 240 threads per inch with 60 different pitches, right and left hand. Longitudinal feed through clutch .0535" to .00085".

APRON
The apron is double walled and includes both power cross and power longitudinal feed. There is a drop lever disc type clutch for engaging power feeds. It has a simple safety adjustment for overload protection.

STEEL CABINET
It is mounted on a steel cabinet which includes three drawers with locks and one housing for V-belt underneath motor drive. The top of the steel cabinet acts as an oil and chip pan.

EM56B Shipping weight 1400 pounds.
Price, less motor and switch **\$2,157.00**

EM56P Sheldon backgeared, screw cutting, precision tool room lathe has 13-1/8" swing, 56" bed length and 33" between centers.

ZERO PRECISION BEARINGS
The spindle is mounted on large, adjustable, tapered roller bearings. Spindle threaded 2-1/4" x 8 t.p.i.

COLLET CAPACITY
The 1-3/8" hole through the spindle provides 1-1/16" maximum draw bar collet capacity and 1-3/8" maximum spindle nose type collet chuck capacity.

GEAR BOX
The full, quick change gear box is designed for thread cutting range from 4 to 240 threads per inch with 60 different pitches, right and left hand. Longitudinal feed through clutch .0535" to .00085".

APRON
The apron is double walled and includes both power cross and power longitudinal feed. There is a drop lever disc type clutch for engaging power feeds. It has a simple safety adjustment for overload protection.

PEDESTAL
The pedestal base leg under the headstock encloses the V-belt underneath motor drive. The E-type underneath drive has 8 spindle speeds from 50 to 1355 r.p.m. 16 speeds from 50 to 1600 r.p.m. are optional.

EM56P Shipping weight 1500 pounds.
Price, less motor, chip pan, and switch **\$2,157.00**
Extra for L1867-7 chip pan 54.00

STANDARD EQUIPMENT
(Included in Base Price of Lathe)

- Necessary Belts
- Necessary Wrenches
- Headstock Center
- Tailstock Center
- Manual: The Care and Operation of a Lathe
- Center Sleeve
- Small Dog Plate
- Tool Post Complete
- Thread Chasing Dial

OTHER M SERIES LATHES

Stock No.	Lbs.	H.P. Motor	Bed	C. D.	Price
EM46B	1375	1	46"	22"	\$2,075.00
UM56B*	1450	1-1/2	56"	33"	2,365.00

*Note: UM56B has U-type underneath drive that provides 8 spindle speeds from 50 to 1200 r.p.m. through external shifting levers. This permits rapid change of spindle speeds while lathe is running.

RECOMMENDED ELECTRICAL EQUIPMENT
(Not Included in Price of Lathe)

384L	Motor, 1-1/2 h.p., 220/440 volts, 3-phase, 60-cycle, 1725 r.p.m.	\$103.00
	Recommended for U-drives, optional for E.	
380	Motor, 1 h.p., 220/440 volts, 3-phase, 60 cycle, 1725 r.p.m.	88.00
R44	Switch, reversing drum for 3-phase operation	14.25
A-1711	Magnetic reversing starter	116.00

STANDARD EQUIPMENT
(Included in Base Price of Lathe)

- Necessary Belts
- Necessary Wrenches
- Headstock Center
- Tailstock Center
- Manual: The Care and Operation of a Lathe
- Center Sleeve
- Small Dog Plate
- Tool Post Complete
- Thread Chasing Dial

OTHER M SERIES LATHES

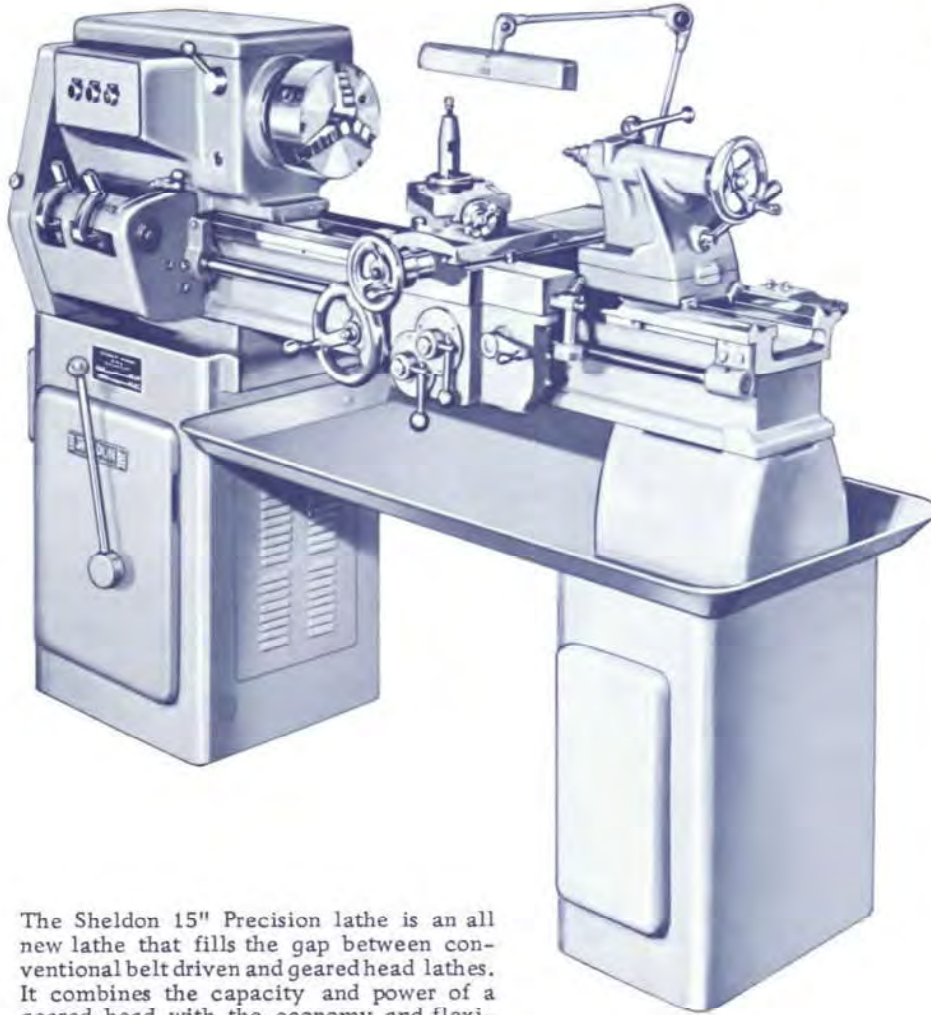
Stock No.	Lbs.	H.P. Motor	Bed	C.D.	Chip Pan		Price
					No.	Price	
EM46P	1475	1	46"	22"	L1867-8	\$47.25	\$2,075.00
EM70P	1550	1	70"	47"	L1867-5	65.50	2,225.00
UM56P*	1550	1-1/2	56"	33"	L1867-7	54.00	2,365.00
UM70P*	1600	1-1/2	70"	47"	L1867-5	65.50	2,430.00

*Note: UM56P and UM70P have U-type underneath drive that provides 8 spindle speeds from 50 to 1200 r.p.m. through external shifting levers. This permits rapid change of spindle speeds while lathe is running.

RECOMMENDED ELECTRICAL EQUIPMENT
(Not Included in Price of Lathe)

384L	Motor, 1-1/2 h.p. . 220/440 volts, 3-phase, 60 cycle, 1725 r.p.m.	\$103.00
	Recommended for U-drives, optional for E.	
380	Motor, 1 h.p., 220/440 volts, 3-phase, 60 cycle, 1725 r.p.m.	88.00
R44	Switch, reversing drum for 3-phase operation	14.25
A-1711	Magnetic reversing starter	116.00

SHELDON 15" Precision Lathes



Inside view of standard, manual shift, all V-belt drive.



Inside view of optional geared motor drive with external shifting lever.

The Sheldon 15" Precision lathe is an all new lathe that fills the gap between conventional belt driven and geared head lathes. It combines the capacity and power of a geared head with the economy and flexibility of a belt driven lathe. With its big 15" swing, big 1-1/2" spindle capacity, and its very low price, it inaugurates an important different trend in providing industry with modern, cost-cutting, production tools.

STOCK NO.	SHIP. WT.	BED LENGTH	CENTER DISTANCE	PRICE	EXTRA FOR CHIP PAN	
ER60P	2320 lbs.	60"	31"	\$2992.00	11425	\$65.00
ER72P	2645 lbs.	72"	42"	3078.00	11426	73.00
ER96P	2760 lbs.	96"	66"	3331.00	11428	91.00
WITH GEAR SHIFT DRIVE						
GR60P	2370 lbs.	60"	31"	3276.00	11425	65.00
GR72P	2695 lbs.	72"	42"	3352.00	11426	73.00
GR96P	2810 lbs.	96"	66"	3595.00	11428	91.00

#31210A for 1800 spindle speed \$20.00 (Use 5 h.p. motor)

STANDARD EQUIPMENT

The following items are furnished as standard equipment included in the base price of the lathe... Necessary belts... Centers... Center Sleeve... Small Dog Plate... Wrenches... Tool Post... Thread Chasing Dial... Center Leg on 8' Bed Length... One shot lubrication of carriage and bedways.

ELECTRICAL EQUIPMENT

Either 2 or 3 H.P. motors are recommended for ER lathes and 3 or 5 H.P. motors for GR lathes. See page 27 or 28 for listing of motors.

GEAR SHIFT DRIVE

Although the motor is an integral part of the gear shift drive, it is priced separately to allow for the variations in motor characteristics desired. These variations are listed on page 27 and 28.

ACCESSORIES

There is a very complete range of accessories for 15" Sheldon lathes that may be ordered as required. The following accessories however, require factory installation:

1. Tapered Key Drive Spindle Nose, Type L0 pg. 23
2. Cam Lock Spindle Nose, 4" D1 pg. 23
3. Chip and Oil Pan pg. 22
4. Special Colors pg. 22
5. Telescopic Taper Attachment pg. 24
6. Sustained Accuracy Group pg. 17

CONDENSED SPECIFICATIONS

Swing over bed	15-1/4"
Swing over carriage	9-1/2"
Center Distance	31", 42", 66"
Bed Lengths	60", 72", 96"
Carriage Length	17-1/2"
Carriage Bridge Width	6-5/16"
Bed Height	7-15/16"
Bed Width	9-1/2"

Thread pitches available	60
Thread range per inch	4-240

Feed range (power longitudinal)002 to .120
Feed range (power cross)001 to .060

SPINDLE SPEED RANGE

Standard E type drive	40-1250 rpm
Direct Drive 250, 500, 800, 1250	
Backgear range 40, 90, 140, 200	
Standard Gear Shift Drive	45-1250 rpm
Direct Drive 300, 400, 680, 1250	
Backgear range 45, 70, 110, 200	
High Range Gear Shift Drive (5 h.p. motor)	75-1800 rpm
Direct Drive 440, 590, 960, 1800	
Backgear range 75, 95, 160, 285	

Number of V-belts to spindle input pulley	3
Horsepower recommended	2 or 3 and 5

Spindle Nose (threaded standard)	2-3/4" x 8tpi
Optional - tapered key drive	L0
Optional - cam lock	4" D1

Hole through Spindle	1-1/2"
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CONDENSED SPECIFICATIONS (Continued)

Collet Capacity	
Draw bar type - 5C	1-1/16"
Spindle Nose type - 2J	1-3/8"
Morse Taper Spindle	5 M.T.
Compound Rest angular travel	3-1/8"
Cross-slide travel	8-1/2"

PURCHASE SPECIFICATIONS

For formal bid specifications, use information below, inserting necessary data on bed length, center distance, motor and controls, and stock number desired.

The lathe shall be a precision, tool room type, providing at least a 15" swing over the bed ways and 9-1/2" clearance over the cross slide. The headstock is to be fully enclosed with all gears and moving parts running in oil. The spindle is to be hardened and ground and mounted in "Zero Precision" tapered roller bearings. Hole through spindle is to be 1-1/2", providing 1-1/16" draw-bar collet capacity and 1-3/8" spindle nose collet capacity.

If Standard Drive Desired: The lathe shall have a high torque, all V-belt drive, providing spindle speeds from 40 to 1250 r.p.m. Power from the drive shall be transmitted from the motor through a countershaft, direct to the spindle input pulley, which is to absorb all radial and thrust loads from the drive.

If Geared Motor Drive Desired: The lathe shall have a geared motor drive, providing spindle speeds from 40 to 1250 r.p.m. Spindle speeds are to be selected by an outside control lever on the pedestal. Power is to be transmitted directly from the combination motor and geared drive to the spindle input pulley, which is to absorb all radial and thrust loads from the drive.

Power from the input pulley is to be transmitted to the spindle through a positive lock clutch.

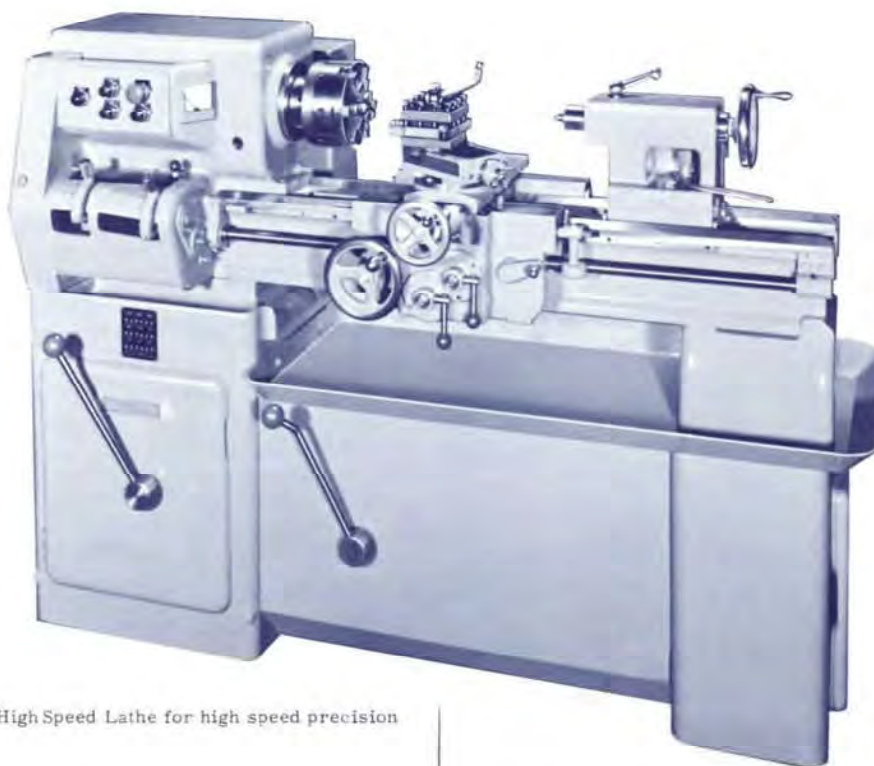
There shall be a single shift lever on the outside of the headstock for engaging and disengaging backgears. There shall be at least four speeds in the backgear range and four speeds in direct drive.

Lathe is to be mounted on a heavy pedestal base with left leg fully enclosing motor and drive and right leg providing storage space for tools and accessories. Lathe to have quick change gear box with 60 different threads and feeds including such threads at 7-1/2, 11-1/2, 27, and 30.

Gearbox is to have a built-in lead screw reverse lever that can be shifted while lathe is running. Apron is to be one-piece double walled with independent drop-lever clutches for selecting power feeds. All parts in apron are to run in oil. Apron to contain one shot lubrication system for automatic lubrication of carriage and bedways. Gibs for cross slide and compound are to be tapered double-locking type. Lathe is to be equipped with large micrometer dials with friction locking feature. Tailstock is to be equipped with cam-action clamp for instant locking and rapid release of tailstock.

Lathe is to be equal to Sheldon # _____, with _____" bed length, _____" center distance. Complete with chip pan # _____, motor # _____ (specify voltage), control # _____, and all standard equipment.

HR HIGH SPEED LATHE



HR60P Sheldon Precision High Speed Lathe for high speed precision machining.

HEADSTOCK

15-1/4" swing over the bed
9-1/2" swing over the cross-slide.

BED

5 ft. bed.
30" center distance.
Flame hardened bed ways.
Automatic lubrication of carriage, cross-slide and bed ways

TRANSMISSION

Dual drive transmission.

SPINDLE

12 spindle speeds from 100 to 3600 r.p.m. selected through external shifting levers.
4" D1 camlock spindle accurate to .0001" total indicator run-out at the spindle nose.
1-1/2" hole through the spindle.
1-1/16" handwheel drawbar collet capacity.
1-3/8" spindle nose collet capacity.

GEAR BOX

60 pitch gear box.
Lead screw reverse.

TAILSTOCK

Heavy duty tailstock.

CARRIAGE and COMPOUND

Double locked tapered carriage and compound gibs.

HR60P Sheldon precision high speed lathe
(shipping weight - 3000 pounds) **\$6,275.00**
Price includes all standard equipment

HR72P Sheldon precision high speed lathe
72" bed, 42" center distance
(shipping weight - 3125 pounds) **\$6,445.00**
Price includes all standard equipment

STANDARD EQUIPMENT

5 H.P. two-speed, 220 volt, 60 cycle, 3 phase motor with brake.
Optional - 5 H.P. two-speed, 440 volt, 60 cycle motor with brake. No extra charge.
Magnetic starter providing 110 volts at push-light control buttons.
Electric tachometer.
Chip pan
Precision lead screw.
Hard chrome carriage cross-slide dove tail ways.
Hard clad feed screws for cross-slide and compound.
Compensating crossfeed nut.
Centers, center sleeve, standard tool post, thread chasing dial.
Small dog plate.
Necessary belts and wrenches.
Manual "Care and Operation of a Lathe".
Five year guarantee certificate.
See illustrated Bulletin HR162 for more complete data.

Chucks recommended for use with HR high speed lathe

- A2262** 6" 3-Jaw Universal Forged All Steel Body Chuck with master and reversible top jaws, direct mounted for 4" D1 Camlock Spindle. **\$245.00**
- A2263** 8" 3-Jaw Universal Forged All Steel Body Chuck with master and reversible top jaws, direct mounted for 4" D1 Camlock Spindle. **\$275.00**
- A2264** 8" 4-Jaw Independent Steel Body Chuck with solid reversible jaws, direct mounted for 4" D1 Camlock Spindle. **\$230.00**

MILLING MACHINES



MILLING MACHINE

3000PQ Sheldon 3000PQ is a backgeared, precision, tool room type floor model horizontal milling machine.

TABLE

The size of the table is 5-1/2"x22-1/8" and has three T slots.

GEAR BOX

It has a quick change gear box for selection of power table feeds with instant reverse of table feed.

SPINDLE

The spindle has a #9 B&S taper, is heat treated and ground. It is mounted on large, adjustable, tapered roller bearings.

DRIVE

The drive is completely enclosed in the pedestal and provides variable spindle speeds from 75 to 1400 r.p.m. in direct drive and 20 to 250 r.p.m. in backgear. Speeds are selected by a conveniently located handwheel on the outside of the pedestal with actual spindle speeds indicated by a tachometer enclosed in the pedestal.

TRAVEL

The longitudinal travel of the table is 12", the transverse travel 5-1/2", and the vertical travel is 9-1/4".

3000PQ

Shipping weight 1300 pounds.

Price, less motor and switch \$2,607.00

3000P

Sheldon 3000P milling machine is the same as 3000PQ except that it is not backgeared and does not have quick change gear box to control the feed rate to table. Power feeds are obtained through V-belt drive through pulleys. The spindle speeds are 75 to 1400 r.p.m. Shipping weight . . 1235 pounds. Price, less motor and switch \$2,331.00

STANDARD EQUIPMENT

(Included in Base Price of Milling Machine)
Necessary Belts Necessary Wrenches

MOTOR AND CONTROLS

Motors listed below are normally recommended for Sheldon Milling machines. These are standard, single speed, 60 cycle, 1725 r.p.m. instant reversing, open, drip-proof, ball bearing type motors. Prices on other motors to meet your electrical specifications are available on request.

Stock No.	H.P.	Voltage	Phase	Weight	Price
180 M	1	110/220	1	60 lbs.	\$113.00
380 M	1	220/440	3	60 lbs.	88.00

Reversing drum controls are flush mounted, manually operated, across the line, drum controls. They have three positions for forward, reverse and stop operation.

Stock No.	H.P.	Voltage	Phase	Weight	Price
A-1735	1	230	3	2 lbs.	\$18.50
A-1741	1	220	1	2 lbs.	19.00

Magnetic Controls

These are a combination of a magnetic reversing starter with a three pushbutton station, providing forward, reverse and stop operation. Starter protects against overload, low voltage, and stalled rotor and single phasing on polyphase motors. A-1712 has additional safety feature of 110 volts at the push-button control.

Stock No.	H.P.	Voltage	Phase	Weight	Price
A-1710	1	220	1	5 lbs.	\$116.00
A-1711	1	230	3	5 lbs.	116.00
A-1712	1	440	3	5 lbs.	146.00



ARBORS

Arbors are heat-treated, accurately ground, and have a No. 9 B&S tapered shank. They include collars, nut, drawbar, and wrench. One drawbar is used for tightening any collet within the spindle.

Stock No.	Capacity	Weight	Price
9001	3/4"	1 lb.	\$85.00
9002	7/8"	1 lb.	85.00
9003	1"	1 lb.	85.00



DRILL CHUCK

Arbor of drill chuck is tapered for use in milling machine spindle. This accessory is particularly valuable for drilling accurately spaced holes and is handy for roughing out cavities to be finished by straight type end mills.

Stock No.	Capacity	Taper	Weight	Price
34 M	0-1/2"	#9 B&S	4 lbs.	\$21.00



DIVIDING HEAD

A sturdy, universal dividing head unit, complete with footstock, two standard index plates having 15 to 20, 21 to 33, and 37 to 49 hole circles. Dividing head is graduated in degrees and can be set and locked

at any angle from 10° below horizontal to 10° beyond the perpendicular. The spindle has a 1-3/4" by 8 t.p.i. spindle nose, a No. 9 B&S tapered hole, and a 7/8" diameter hole through the spindle. This dividing head can use the 9025A collets, the 9039-28 drawbar or 503L chuck.

No. 9039 6" diameter swing, weight 28 lbs. \$345.00
No. 9039-28 drawbar for 9039 9.00

UNIVERSAL CHUCK

Self-centering chuck shown fitted to the 1-3/4" by 8 t.p.i. spindle nose of the universal dividing head.

The chuck is furnished with two sets of jaws for inside and outside chucking and a wrench. The thin body assures maximum capacity between dividing head and footstock.

No. 503-L, 5" 3-jaw Universal, weight 17 lbs. \$69.00



ROTARY TABLE

An accurate, precision ground, heavily ribbed rotary table, complete with keys in base, conveniently located crank handle, lock, and

eccentric throw-out device for worm. Provision is made for take-up due to wear. Table is graduated 0° to 90° in each quadrant by degrees. Crank handle is graduated in 240 minutes by minutes, with a 90:1 worm and wheel ratio. The table has two 5/8" T-slots at right angles to each other for 3/8" T-bolts. Overall height of table is 2-3/4".

No. 9023, 7" diameter, weight 25 lbs. \$174.00



WISE, SWIVEL BASE

This sturdy vise is especially designed to give maximum vise capacity to Sheldon machines. Vise is graduated 180° and can be swiveled and locked at any angle. Other dimensions:

width of jaws, 5"; depth of jaws, 1-1/4"; maximum opening with steel jaws, 3"; without steel jaws, 3-1/2"; overall length, 11"; overall height, 3-1/2".

No. A9042, 5" diameter, weight 29 lbs. \$85.00
Milling machine accessories continued on page 16

VERTICAL MILLING ATTACHMENT



This attachment provides for vertical and angular milling operations. It is mounted in the overarm holes and is driven from the rear by a pulley arrangement and an "A" section belt connected to the main spindle. This attachment uses 9025A collets (described under "Collets") and has a capacity of 3/4". Center line of the vertical spindle will trace a rectangular pattern 5-1/8" by 11-1/2" on the table top.

No. 9033, weight 48 lbs.\$272.00



VERTICAL MILLING ATTACHMENT

This attachment clamps easily on the overarm and can be fixed to work at any angle in the plane parallel to the face of the mill or in the plane perpendicular to the face. Power is supplied by a 1/4 h.p. 115 volt, reversible motor. Spindle speeds: 380, 700, 1200, 2500, or 5200 r.p.m. It uses A9041-Y1 or A9041-Y2 collets and has a capacity of 1/2". The center line of the vertical spindle will trace a rectangular pattern 5-1/8" by 11-1/2" on the table top. Quill travel is 1-1/2" and has micrometer adjustment with positive lock for precision settings. Standard equipment includes a 3/8" A9041-Y1 collet.

No. 9041, Independent Motor Drive, weight 60 lbs... \$350.00
 No. A-9041-Y1 Style Y Universal Collet, weight 1 lbs. 1/16" and 1/8" only, each 10.45
 No. A-9041-Y2 Style Y Universal Collet, weight 1 lb. 3/16" to 1/2" by 16ths, each 4.20



COLLETS

These collets are used in the horizontal spindle of the mill, in the A9033 vertical milling attachment, and the 9039 dividing head. They are spring type and have a No. 9 B&S taper. Collets are drawn into place and tightened by standard draw-bar which is furnished with the horizontal arbors.

Stock No.	Capacity	Weight	Price
9025A-1	1/16" only	1 lb.	\$ 15.00
9025A	1/8 to 3/4" by 32nds	1 lb. each	12.00
9025A-11	Set of 11-1/8 to 3/4 by 16ths	11 lbs.	132.00



COOLANT SYSTEM

Attachment consists of a large coolant reservoir with chip strainer, 1/8 h.p. motor, switch, centrifugal type circulating pump, and all necessary fittings, and is mounted to pedestal base and column of the machine.

Stock No.	Phase Motor	Voltage	Weight	Price
A-2079-1M	1	110	45 lbs.	\$203.00
A-2079-3M	3	220	45 lbs.	219.00

LAMP

Adjustable lamp is attractively finished in chrome and bolts on the machine. It is furnished complete with 6 ft. oil-resistant cord and two-prong plug for operation on 110 Volts. Maximum size of bulb 60 Watts. Bulb not included.
 A-1909 Lamp, weight 2 lbs. \$20.00



DRIP POT OILER

Oiler consists of an ample coolant container, petcock, flexible hose, and bracket which mounts on the column of the machine for use in short run work. Container unit is detachable from bracket for easy filling and cleaning.

A-9014 Oiler, weight 6 lbs. \$42.00



SHAPER

8000S Sheldon is a 13-1/2" stroke, backgeared precision, pedestal base, floor mounted tool room crank type shaper with swivel table and table support.

TABLE
 The table has 6 automatic cross feeds from .0025" to .0175" per stroke in either direction and 7" vertical travel.

BASE
 The base completely encloses a V-belt variable speed drive of 12 to 180 strokes per minute speed range.

DRIVE
 The drive enclosed in the base includes a disc clutch, operated from the outside of the machine.

TOOL HEAD
 The graduated swivel tool head has a 4" vertical travel. Large graduated micrometer reference dials are used. The single screw vise has jaws with 7" width, 6" opening, and 1-1/2" depth.

8000S Shipping weight 1800 pounds.
 Price, less motor and switch \$4,265.00

8000P Same machine as 8000S except shaper has plain table not swivel. Price less motor and switch \$4,167.00

STANDARD EQUIPMENT
 (Included in Base Price of Shaper)

- Vise
- Tool Post
- Crank Handle
- Two Wrenches
- Necessary Belts
- Table Support

RECOMMENDED ELECTRICAL EQUIPMENT
 (Not Included in Price of Shaper)

- 384-S Motor, 1-1/2 h.p., 220/440 volts, 60 cycle, 3-phase, 1725 r.p.m. \$103.00
- 184-S Motor, 1-1/2 h.p., 110/220 volts, 60 cycle, 1-phase, 1725 r.p.m. 147.00
- A17609 Switch, start-stop pushbutton with overload protection. 40.00
- A1719 Magnetic starter (non-reversing) with overload and low voltage protection with start-stop pushbuttons and reset button. 67.50

AUTOMATIC OILING SYSTEM

This system provides automatic oiling of ram ways, bull gear and pinion, and rocker arm assembly. Must be ordered with shaper and installed at factory.

A-2056 Automatic Shaper Oiling System. \$236.00

SHAPER TOOL

This is a general purpose shaper tool which permits shifting the tool bit to several different angles. Each tool is individually boxed and includes wrench and one high speed tool bit.
 No. 40 Shaper Tool \$12.05
 2351 High Speed bits for #40 tool, 1/4x3/8x2-1/2" each .55

SHAPER EXTENSION TOOL

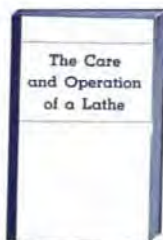
This is a rigid and convenient tool for die work, cutting internal keyways or for other work in which extra clearance is important. Furnished complete with holder, extension bar, wrench and one high speed tool bit.
 No. 47 Shaper Extension Tool. \$11.63
 2390 High Speed bits for No. 47 tool, 5/16" sq.x2-1/2" each .74

ACCESSORIES FOR LATHES

HARDENED BED WAYS AND ACCURACY GROUP

This important accessory group is designed not only to increase the accuracy of your lathe, but to give it sustained accuracy for a longer period of time. The group consists of (1) precision flame hardened and ground bed ways, (2) hardened compound and cross feed screws, (3) a compensating cross feed nut to minimize backlash and permit more accurate depth settings, and (4) hard chrome carriage cross slide dovetails and ways. Beds are made of special high strength nickel alloy designed to meet a guaranteed minimum hardness of 500 Brinell. Cross slide travel dimensions are changed to the following: L and XL Series, 4-11/16"; S and M series, 5-1/2"; R series, 7-3/4". Prices below apply only when the lathe is built and ordered from the factory. Compensating nut not available for lathes ordered with plain taper attachment.

Stock No.	Lathe Series	Price
AA-2060	L & XL	\$245.00
AA-2061	S & M	275.00
AA-2062	R	300.00



"Care and Operation of a Lathe" Manual

106 pages containing information on history of lathes, basic parts, theory of metal cutting, lathe care and basic lathe operation. Shipping weight - 10 ozs. \$.50 ea.

OTHER PUBLICATIONS - plastic bound.
 "Lathe Work", 165 pgs. \$2.40
 "Milling Machine Work", 298 pgs.. 4.00

LATHE BENCHES

These are all steel benches, heavily constructed and rigidly braced. They are used as standard equipment on Sheldon Cabinet Lathes, but are ideal for mounting horizontal drive bench lathes or for special machines, fixtures and test equipment. The top of the bench is constructed of 5/16" steel plate. The left leg has large open storage area with the right leg housing three easy sliding drawers that can be independently locked.



Stock No.	Top Surface Dimension	Weight	Price
S1367	18 x 52-1/2"	480 lbs.	\$265.00
S1366	18 x 64"	530 lbs.	265.00

D-E-T-A-C-H-A-B-L-E 3-Drawer Cabinet

Ideal as an auxiliary unit for pedestal lathes for storage of tools, gages, accessories and work in progress. Fits snugly under chip pan of 56" and 70" S and M Series Lathes. Can be used on all lathes as an independent tool cabinet and stand. Rigidly fabricated of 16 gauge steel with three easy sliding drawers with individual locks.



Stock No.	Dimensions	Weight	Price
A-1926	18-1/2" x 18-1/2" x 24-1/2"	90 lbs.	\$89.00

CENTERS, CROTCH



Used in tailstock as "V" block support for drilling round stock. Width of "V" on face 1" x 90° angle; diameter of face, 1-3/4"; overall length 3-7/8".

Stock No.	Morse Taper	Lathes	Weight	Price
K-223	#2 M. T.	L, XL	1 lb. 6 oz.	\$ 3.50
S1446	#3 M. T.	S, M, R	1 lb. 12 oz.	5.50

CENTERS, CUP, SET



For turning armatures on shafts that have no centers. Set provides one live cup center for tailstock and one solid cup center for headstock.

Stock No.	Morse Taper	Lathes	Weight	Price
A-2024	#2 M. T.	L, XL	2 lbs. 6 oz.	\$24.00
A-2025	#3 M. T.	S, M, R	3 lbs. 10 oz.	33.00

DRILL PAD CENTERS



Used in tailstock as a supporting face for drilling miscellaneous flat stock. Face diameter 4", width 1/2", overall length 3-3/4".

Stock No.	Morse Taper	Lathes	Weight	Price
K-221A	#2 M. T.	L, XL	2 lbs.	\$ 4.00
S-1447-A	#3 M. T.	S, M, R	2-1/2 lbs.	6.00

HOLLOW CENTERS



Used to support conical or pointed work, or stock with integral male centers. Drilled and countersunk with standard center drill.

Stock No.	Morse Taper	Lathes	Weight	Price
K-274	#2 M. T.	L, XL	1/2 lb.	\$ 5.60
S-1450	#3 M. T.	S, M, R	1/2 lb.	7.00

HALF CENTERS



Standard 60° center partially cut away as illustrated for use in tailstock spindle for facing and squaring ends of shafts supported between centers.

Stock No.	Morse Taper	Lathes	Weight	Price
S-82	#2 M. T.	L, XL	1 lb.	\$ 5.10
S-1449	#3 M. T.	S, M, R	1 lb.	6.60

60° CENTERS



Standard 60° center for supporting stock between the headstock and tailstock. Centers are steel, hardened and ground. Standard equipment on new lathes.

Stock No.	Morse Taper	Lathes	Weight	Price
K-42	#2 M. T.	L, XL	1/2 lb.	\$ 3.15
S-1448	#3 M. T.	S, M, R	14 ozs.	4.15

HEADSTOCK CENTER SLEEVE



This adaptor fits the taper bore of the headstock spindle to reduce the Morse Taper to fit standard spindle accessories. Sleeve is precision ground. Standard equipment on new lathes.

Stock No.	Reduction	Lathes	Weight	Price
K-278	#4-#2 M. T.	L	1/2 lb.	\$10.25
KB-465	#5-#2 M. T.	XL	1 lb. 10 oz.	13.90
1529	#5-#3 M. T.	S, M, R	1 lb.	15.25

LIVE CENTERS



Spring loaded live centers that maintain constant tailstock thrust, reduce overhang for greater rigidity and increase working range. Saves operating time and cost of replacing and reconditioning worn out solid centers. Although small in size, extensive testing has proved this live center superior in ease of handling, trouble-free operation and work-load capacity.

Stock No.	Morse Taper	Lathes	Weight	Price
A-1908	#2 M. T.	L, XL	12 oz.	\$32.00
A-2007	#3 M. T.	S, M, R	1 lb. 6 oz.	40.00

LIGHT DUTY LIVE CENTER



A less expensive center using ball bearing construction. Ideal for general purpose work.

Stock No.	Morse Taper	Lathes	Weight	Price
A-2071	#2 M. T.	L, XL	1 lb. 8 oz.	\$18.00

3 JAW, 6 JAW, 4 JAW, CHUCKS

3 JAW AJUST-TRU CHUCKS

includes 3 Master and 3 Top Jaws



These are precision scroll operated chucks that can be adjusted to guarantee .0005" chucking of duplicate parts. The front section of the chuck holds the workpiece in the same manner as other conventional scroll operated chucks. Four ad-

justing screws in the rear section, however, permit moving of the complete chuck body to dead center. The chucks also have a minimum holding range of 1/8" so that they can be used instead of hand-operated collets. Chucks are completely fitted for lathe.

Stock No.	Size	Spindle	Lathe	Ship. Wt.	List Price
63L	6	1-3/4-8	L	30	\$ 146.10
63M	6	2-1/4-8	SL-S-M	31	146.10
63R	6	2-3/4-8	R	31	146.10
63L00	6	L00	XL-S-M	33	165.00
63L0	6	L0	R	34	179.00
63D1-4	6	D1-4	S-M-R	33	181.20
83M	8	2-1/4-8	S-M	55	237.00
83R	8	2-3/4-8	R	57	237.00
83L00	8	L00	S-M	57	241.00
83L0	8	L0	R	58	241.00
83D1-4	8	D1-4	S-M-R	57	268.00
83A1-6	8	A1-6	3R	57	268.00
103M	10	2-1/4-8	M	83	313.00
103R	10	2-3/4-8	R	83	313.00
103L00	10	L00	M	83	323.80
103L0	10	L0	R	83	323.80
103A1-6	10	A1-6	3R	83	367.00
123R	12	2-3/4-8	R	128	366.00
123L0	12	L0	R	128	366.00

6 JAW AJUST-TRU CHUCKS

includes inside and outside jaws



Work can be centered easier and quicker with six opposing jaws. Soft metals and tubes can be gripped with less pressure, less distortion. Work is held firmer - permits precision machining farther from spindle. Lessens need for collets

and handles work of odd or metric sizes. Chucks are completely fitted for lathe.

6 JAW AJUST-TRU CHUCKS - Continued

Stock No.	Size	Spindle	Lathe	Ship. Wt.	List Price
66L	6	1-3/4-8	L	30	\$ 186.10
66M	6	2-1/4-8	XL-S-M	31	186.10
66R	6	2-3/4-8	R	31	186.10
66L00	6	L00	XL-S-M	34	205.00
66L0	6	L0	R	35	219.00
66D1-4	6	D1-4	S-M-R	35	221.20
86M	8	2-1/4-8	S-M	61	297.00
86R	8	2-3/4-8	R	61	297.00
86L00	8	L00	S-M	63	301.00
86L0	8	L0	R	63	301.00
86D1-4	8	D1-4	S-M-R	61	328.00
86A1-6	8	A1-6	3R	61	328.00
106M	10	2-1/4-8	M	86	421.00
106R	10	2-3/4-8	R	86	421.00
106L00	10	L00	M	86	431.80
106L0	10	L0	R	86	431.80
106A1-6	10	A1-6	3R	86	475.00
126R	12	2-3/4-8	R	143	486.00
126L0	12	L0	R	143	486.00

4 JAW CHUCKS



The jaws are set independently for round or irregular work, either concentric or eccentric with lathe spindle. All chucks are fitted for your lathe.

Stock No.	Size	Spindle	Lathes	Shipping Wt.	Price
64L	6	1-3/4-8	L	21	\$ 85.00
64M	6	2-1/4-8	XL, S, M	21	85.00
64L00	6	L00	XL, S, M	22	103.00
64D1-4	6	D1-4	S, M, R	21	119.00
84M	8	2-1/4-8	S, M	45	113.00
84R	8	2-3/4-8	R	45	118.00
84L00	8	L00	S, M	46	135.00
84L0	8	L0	R	46	142.00
84D1-4	8	D1-4	R	46	173.00
84A1-6	8	A1-6	3R	46	154.00
104M	10	2-1/4-8	M	65	153.00
104R	10	2-3/4-8	R	65	158.00
104L00	10	L00	M	65	175.00
104L0	10	L0	R	65	182.00
104D1-4	10	D1-4	M, R	65	213.00
104A1-6	10	A1-6	3R	65	194.00
124R	12	2-3/4-8	R	120	205.00
124L0	12	L0	R	120	234.00



CHUCKS, 3-Jaw (CUSHMAN)

Chucks are universal, 3-Jaw, scroll operated and are furnished with master jaws and reversible top jaws. All chucks are fitted for your lathe.

Stock No.	Size	Spindle	Lathes	Weight	Price
C63-L	6"	1-3/4x8	L	26 lbs.	\$150.00
C63-M	6"	2-1/4x8	XL, S, M	26 lbs.	150.00
C63-R	6"	2-3/4x8	R	28 lbs.	155.00
C83-M	8"	2-1/4x8	S, M	49 lbs.	208.00
C83-R	8"	2-3/4x8	R	51 lbs.	213.00

CUSHMAN 4-JAW CHUCKS

Stock No.	Size	Spindle	Lathes	Weight	Price
C64-L	6"	1-3/4x8	L	25 lbs.	\$139.00
C64-M	6"	2-1/4x8	XL, S, M	25 lbs.	139.00
C64-R	6"	2-3/4x8	R	27 lbs.	144.00
C84-M	8"	2-1/4x8	S, M	47 lbs.	168.00
C84-R	8"	2-3/4x8	R	49 lbs.	173.00



CHUCK PLATES

Chuck Plates are fitted for the spindle nose of your Sheldon lathe, and are used to convert other chucks for use on the lathe. Plates must be

finish turned, drilled and tapped for mounting your particular chuck.

THREADED CHUCK PLATES

Stock No.	Size	Spindle	Lathes	Weight	Price
E306S	6-3/16"	1-3/4x8	L	7 lbs.	\$16.00
S306S	6-3/16"	2-1/4x8	XL, S, M	7 lbs.	16.00
S308S	8-1/4"	2-1/4x8	XL, S, M	9 lbs.	16.00
31806S	6-1/4"	2-3/4x8	R	8 lbs.	22.50
31808S	8-1/4"	2-3/4x8	R	12 lbs.	22.50

CHUCK PLATES FOR TAPERED SPINDLES

Stock No.	Size	Spindle	Lathes	Weight	Price
11806S	6-3/16"	L00	XL, S, M	8 lbs.	\$34.75
11808S	8-1/4"	L00	S, M	10 lbs.	37.50
31816S	6-3/16"	L0	R	10 lbs.	38.50
31818S	8-1/4"	L0	R	12 lbs.	42.50



LIVE CENTERS, TOOLMAKER'S SET

Set includes an anti-friction ball bearing live center with six interchangeable points to support a wide variety of work. Packed in a wooden case for protective storage.

Stock No.	Morse Taper	Lathes	Weight	Price
A2085-2	#2 M. T.	L, XL	6-1/2 lbs.	\$82.25
A2085-3	#3 M. T.	S, M, R	8-3/4 lbs.	95.00



PIPE CENTERS

Pipe center has 1/2" to 3" capacity, 6-3/4" overall length. Used in tailstock spindle for supporting pipe and tubing in general turning operations.

Stock No.	Morse Taper	Lathes	Weight	Price
K-280-2	#2 M. T.	L, XL	3 lbs.	\$13.00
K-280-3	#3 M. T.	S, M, R	3 lbs.	17.25



DRILL CHUCKS, 3-JAW

Used in tailstock spindle for general drilling. Furnished complete with key and arbor.

Stock No.	Morse Taper	Capacity	Lathes	Weight	Price
34	#2 M.T.	0 - 1/2"	L, XL	2-1/2 lbs.	\$14.20
34-C	#3 M.T.	0 - 1/2"	S, M, R	3 lbs.	14.70
36	#2 M.T.	3/16-3/4"	L, XL	4 lbs.	20.30
36-C	#3 M.T.	3/16-3/4"	S, M, R	4 lbs.	20.80
20-N	#3 M.T.	3/8-1"	R	9 lbs. 2 oz.	41.75



CENTER REST CHUCK

Mounted in the tailstock spindle to permit turning round work without the use of a center support. Has adjustable bronze jaws that can be locked in position to provide a steady bearing support. Complete with arbor.

Stock No.	Morse Taper	Capacity	Lathes	Weight	Price
100	#2 M.T.	1/4 - 3/4	L, XL	2-1/2 lbs.	\$19.16
100-C	#3 M.T.	1/4 - 3/4	S, M, R	3-1/2 lbs.	20.00



STEP TYPE COLLETS

Step type collets are used for accurately holding work above normal 5C collet range. They are individually machined to size for perfect concentricity. The step collet has a ground taper that is drawn back into the internal taper of the 5C collet adaptor by a draw bar collet attachment. As a result, the three jaws of the step collet are closed on the workpiece. Because of the ground taper on the step collet, no step closers are required.

Stock No.	Capacity	Type Spindle Nose	Lathes	Weight	Price
RC 20-25-2	2"	All	XL, S, M, R	1 lb.	10.00
RC 20-25-3	3"	All	XL, S, M, R	1 1/2 lbs.	13.00
RC 20-25-4	4"	All	XL, S, M, R	2 lbs.	18.50
RC 20-25-5	5"	All	XL, S, M, R	3 lbs.	23.00



INTERNAL COLLETS

An internal collet is used for holding the inside diameter of a workpiece to permit machining the outside diameter without the use of arbors or lathe dogs. As the internal collet is drawn against the taper of the 5C collet adaptor by a draw bar collet attachment, the collet pad expands to firmly grip the inside diameter of the workpiece. The collet pad has a 1-3/4" O.D. and can be machined to any desired size down to 3/8". Collet unit consists of 5C collet body, internal collet pad, wrench and retaining ring.

EIC 500 Internal Collet unit, as described above.....\$41.50
EIC 503 Additional Collet Pads, each..... 16.50



HANDWHEEL COLLET ATTACHMENT

Standard handwheel collet attachment for precision draw-in collet work to be fed through hollow draw bar in spindle. Attachment includes hollow drawbar with handwheel, hardened and ground collet adaptor sleeve, spindle nose cap and spanner wrench.

sleeve, spindle nose cap and spanner wrench.

For Threaded Spindles:

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
L462A	3/4"	4C	L	6 lbs.	\$75.00
XL462A	1-1/16"	5C	XL	9-1/2 lbs.	75.00
SM462A	1-1/16"	5C	S, M	10 lbs.	80.00
AA2015	1-1/16"	5C	R	12 lbs.	105.00

For Tapered Spindles:

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
A2098	1-1/16"	5C	XL	10 lbs.	\$80.00
A2101	1-1/16"	5C	S, M	10 lbs.	85.00
AA2013	1-1/16"	5C	R	12 lbs.	115.00

For Cam-Lock Spindles D1-4":

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
AA2009	1-1/16"	5C	S, M	10 lbs.	\$90.00
AA2027	1-1/16"	5C	R	12 lbs.	115.00



HANDLEVER COLLET ATTACHMENT

Standard handlever draw-in collet attachment to increase production by permitting rapid gripping and release of work fed through spindle without stopping the lathe. Attachment includes hollow drawbar with handlever, hardened and ground collet adaptor sleeve, spindle nose cap and spanner wrench.

handlever, hardened and ground collet adaptor sleeve, spindle nose cap and spanner wrench.

For Threaded Spindles:

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
L-1585	3/4"	4C	L	11 lbs.	\$150.00
XL-1591	1-1/16"	5C	XL	18 lbs.	150.00
SM-1590	1-1/16"	5C	S, M	18 lbs.	150.00
AA-2016	1-1/16"	5C	R	22 lbs.	175.00

For Tapered Spindles:

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
A2110	1-1/16"	5C	XL	20 lbs.	\$200.00
A2109	1-1/16"	5C	S, M	20 lbs.	200.00
AA2014	1-1/16"	5C	R	20 lbs.	225.00

For Camlock Spindles D1-4":

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
A2100	1-1/16"	5C	S, M	18 lbs.	\$200.00
AA2028	1-1/16"	5C	R	18 lbs.	200.00

COLLET CHUCK (Jacobs Rubberflex)



This spindle nose collet chuck covers complete range from 1/16" to 1-3/8" with only 11 collets since each collet has a 1/8" range. Equalized pressure rigidly holds work. All around grip prevents marring or distortion. Chucks are completely fitted to lathe. Price does not include collets. See page 20 for collet prices.

For Threaded Spindles:

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
L91A6T	1-3/8"	J-900	L	32 lbs.	\$305.00
S91A6T	1-3/8"	J-900	XL,S,M	32 lbs.	305.00
A2221	1-3/8"	J-900	R	41 lbs.	315.00

For Tapered Spindles: (Jacobs)

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
H-8196	1-3/8"	J-900	XL,S,M	15 lbs.	\$260.00
A-2222	1-3/8"	J-900	R	17 lbs.	270.00

For Camlock Spindles D1-4": (Jacobs)

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
A-2146	1-3/8"	J-900	S,M,R	17 lbs.	\$265.00

COLLET CHUCK (Jacobs)

The new JACOBS spindle nose collet chuck covers a range of 3/32" to 1-1/16" with only 10 collets. Each collet has a range of .100". Equalized pressure rigidly holds work while all grip prevents marring or distortion even of tubing and other fragile materials. Chucks are completely fitted to lathe.

Stock No.	Spindle Nose	Lathes	Weights	Price
A-2242-L	1-3/4" x 8"	L	9 lbs.	\$78.00
A-2242-M	2-1/4" x 8"	XL,S,M	9 lbs.	78.00
A-2242-R	2-3/4" x 8"	R	9 lbs.	78.00
A-2242-LOO	LOO	XL,S,M	10 lbs.	95.00
A-2242D1-4"	D1-4"	XL,S,M,R	10 lbs.	145.00

J-500 Set of 10 collets for above chucks \$65.00



COLLET CHUCK (Sjögren) 5C Collet:

Spindle nose collet chuck to permit use of style 5C collets up to 1-1/16" capacity. Quick turn of handwheel automatically opens or closes collet. Chucks are completely fitted for lathe, have plain nose.

For Threaded Spindles:

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
A-2112	1-1/16"	5C	L	27 lbs.	\$169.50
A-2113	1-1/16"	5C	XL,S,M	27 lbs.	169.50
A-2217	1-1/16"	5C	R	29 lbs.	185.00

For Tapered Spindles:

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
H-8161	1-1/16"	5C	XL,S,M	26 lbs.	\$152.00
A-2218	1-1/16"	5C	R	26 lbs.	153.00

For Camlock Spindles D1-4":

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
A-2118	1-1/16"	5C	S,M,R	28 lbs.	\$130.00

COLLET CHUCK (Sjögren) 2-J Collets:

As illustrated above, except uses 2-J Collet for capacity up to 1-3/8".

For Threaded Spindles:

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
A-2115	1-3/8"	2-J	XL,S,M	29 lbs.	\$185.00
A-2219	1-3/8"	2-J	R	29 lbs.	190.00

For Tapered Spindles:

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
H-8167	1-3/8"	2-J	XL,S,M	28 lbs.	\$157.00
A-2220	1-3/8"	2-J	R	28 lbs.	160.00

For Camlock Spindles D1-4":

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
A-2119	1-3/8"	2-J	S,M,R	26 lbs.	\$143.00

LEVER OPERATED COLLET CHUCK (Sjogren)



Lever operated collet chuck is mounted on the spindle nose and can be operated without stopping the lathe spindle. Positive lock of the closing collar holds work firmly in position while in operation.

For Threaded Spindles

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
A-2233XL	1-1/16"	5C	XL	22 lbs.	\$360.00
A-2233SM	1-1/16"	5C	S,M	22 lbs.	360.00
A-2233R	1-1/16"	5C	R	22 lbs.	365.00
A-2234XL	1-3/8"	2J	XL	22 lbs.	365.00
A-2234SM	1-3/8"	2J	S,M	22 lbs.	365.00
A-2234R	1-3/8"	2J	R	42 lbs.	370.00

For Tapered Spindles

Stock No.	Capacity	Type Collets	Lathes	Weight	Price
A-2236XL	1-1/16"	5C	XL	22 lbs.	\$336.00
A-2236-SM	1-1/16"	5C	S,M	22 lbs.	336.00
A-2236-R	1-1/16"	5C	R	22 lbs.	338.00
A-2237-XL	1-3/8"	2J	XL	22 lbs.	340.00
A-2237-SM	1-3/8"	2J	S,M	22 lbs.	340.00
A-2237-R	1-3/8"	2J	R	42 lbs.	342.00

For 4" -D1 Camlock Spindles

A-2239-SM	1-1/16"	5C	S,M	22 lbs.	\$340.00
A-2239-R	1-1/16"	5C	R	22 lbs.	340.00
A-2240-SM	1-3/8"	2J	S,M	22 lbs.	345.00
A-2240-R	1-3/8"	2J	R	42 lbs.	345.00



HARDINGE COLLETS

A complete range of collets is available individually or in sets. Both the outside and inside of all collets are hardened and ground for long life accuracy. The most common used sizes are listed below. Special fractional or decimal equivalent sizes are available on request.

4C Collets Hardinge

Stock No.	Shape	Size	Weight	Price Each
4CR	Round	1/8 to 3/4 by 64ths	1/2 lbs.	\$ 6.00
4CRX	Round	1/16, 5/64, 3/32, 7/64	1/2 lbs.	9.00
4CRXX	Round	1/64 - 1/32 - 3/64	1/2 lbs.	12.00
4CH	Hexagon	1/4 to 5/8 by 16ths	1/2 lbs.	10.00
4CHX	Hexagon	1/8", 3/16"	1/2 lbs.	13.00
4CS	Square	1/4 to 1/2 by 16ths	1/2 lbs.	10.00
4CSX	Square	1/8", 3/16"	1/2 lbs.	13.00

5C Collets Hardinge

5CR	Round	1/8 to 1-1/16 by 64ths	1/2 lbs.	\$ 6.25
5CRX	Round	1/16, 5/64, 3/32, 7/64	1/2 lbs.	9.25
5CRXX	Round	1/64 - 1/32 - 3/64	1/2 lbs.	12.25
5CH	Hexagon	1/4 to 7/8 by 16ths	1/2 lbs.	10.25
5CHX	Hexagon	1/8, 3/16	1/2 lbs.	13.25
5CS	Square	1/4 to 3/4 by 16ths	1/2 lbs.	10.25
5CSX	Square	1/8", 3/16"	1/2 lbs.	13.25

5C Collets In Sets Hardinge

5CR8	Round	Set of 8-1/8 to 1" by 8ths	5 lbs.	\$ 48.60
5CR16	Round	Set of 16-1/16 to 1" by 16ths	10 lbs.	99.40
5CR31	Round	Set of 31-1/16 to 1" by 32nds	20 lbs.	191.00
5CR61	Round	Set of 61-1/16 to 1" by 64ths	35 lbs.	372.50

2J Collets In Sets Hardinge

2JR	Round	1/8 to 1-3/8 by 64ths	1 lb.	\$ 9.75
2JH	Hexagon	1/4 to 1-3/16 by 16ths	1 lb.	13.75
2JHX	Hexagon	1/4 to 1-3/16 in 32nds & 64th size	1 lb.	18.75
2JS	Square	1/4 to 1" by 16ths	1 lb.	13.75
2JSX	Square	1/4 to 1" in 32nds & 64th sizes	1 lb.	18.75

2J Collets In Sets Hardinge

2JR11	Round	Set of 11- 1/8 to 1-3/8 by 8ths	10 lbs.	\$107.00
2JR21	Round	Set of 21- 1/8 to 1-3/8 by 16ths	20 lbs.	205.00

Rubberflex Collets In Sets - 1/8" Range Jacobs

J900	Round	Set of 11- 1/16 to 1-3/8	4-1/4 lbs.	\$171.00
	Round	Any one of the 11 sizes	6 ozs.	15.50

EMERGENCY COLLETS



Collets have soft face and pilot hole to permit rapid boring and stepping out when odd sized or special shaped collets are required rapidly. Body is heat-treated and finished ground, and is spring tempered for quick work release.

Stock No.	Type Collet	Pilot Hole	Lathes	Weight	Price
5C-E	5C	1/4"	XL,S,M,R	1/2 lbs.	\$5.80
5CE-1	5C	1/16th	XL,S,M,R	1/2 lbs.	7.30
5CE-2	5C	1/8"	XL,S,M,R	1/2 lbs.	6.80
2JE	2J	1/4"	XL,S,M,R	1/2 lbs.	9.00

COLLET RACKS



Collet rack provides a convenient holder for collets, lathe center, and spindle sleeve. The rack is easily mounted on the back way of any lathe bed. Space is provided for sixteen collets, headstock and tailstock centers, and one spindle sleeve.

Stock No.	Type Collet	Lathes	Weight	Price
AS-1526	4C	L	7-1/2 lbs.	\$27.50
AS-1527	5C	XL,S,M	7-1/2 lbs.	31.50
11740A	5C	R	9-1/2 lbs.	41.50
11742A	2J	R	9-1/2 lbs.	41.50

COVER FOR LATHE

Non-inflammable plastic lathe cover fits over headstock and bed to keep out dust and dirt when lathe is not in use. For lathes with 56" bed lengths and under.

Stock No.	Max. Bed Length	Lathes	Weight	Price
AA-1939	56"	L,XL,S,M	1 lb.	\$5.50



BAR FEED

Bar feed is designed to automatically feed by air pressure, round, square, or hex bar stock into lathe spindles to a fixed stop. It will handle all sizes and shapes of stock within its capacity without set-up change. Telescoping stands give height adjustment from 38-1/2" to 50" for easy spindle alignment. Attachment is supplied complete with regulator, gage, valve, piston and two adjustable stands.

Stock No.	Bar Feed Capacity	Lathes	Weight	Price
AA-1940	1-3/8" x 12'	L,XL,S,M,R	230 lbs.	\$320.00
AA-1955	1-1/2" x 12'	R	250 lbs.	360.00

FLOOR LEG ASSEMBLY



Floor leg assembly for horizontal drive lathes includes two floor legs and chip pan. Fabricated of heavy gauge steel, these can be ordered with a new lathe or for lathes already in service.

Stock No.	Bed Length	Lathes	Weight	Price
A-2049	38", 46"	L,XL	142	\$105.00
A-2050	56"	L,XL	147	115.00

SHELDON MACHINE TOOL CATALOGS



Sheldon builds a wide range of standard, automatic and production lathes to allow you to choose the one best suited to your particular machining application. Catalogs describing these many different machine tools are illustrated at left and will be sent on request. If you have any special machining problems, our local distributors and district sales engineers are available and will be glad to be of help to you.

- A Sheldon built Sebastian 13" Geared Head Lathes.
- B Sheldon built Sebastian 15" Geared Head Lathes.
- C Lathes 10", 11" and 13" swing.
- D Lathes variable drive 11" and 13" swing.
- E Lathes 15" R series.
- F CR super precision automatic chucking machine.
- G HR 15" super precision high speed lathe.
- H AM and AR automatic lathes.
- J 3R turret lathe.
- K TR 90° tracer lathe.
- L CM Precision hand chucking machine.
- M HCM high speed precision hand chucking machine.
- N Accessories for automatic machine tools CR-HR-AM-TR-CM-HCM.

Use letters when ordering

LATHE LAMPS



Fig. 1



Fig. 2

A-1909 (See Fig. 1) Adjustable, bulb type lamp, attractively chrome finished. Furnished with 6 ft. oil-resistant cord and two-prong plug for 110 volt operation. Maximum bulb size 60 watts. Has new cool type shade.

A-1909 Lathe Lamp, less bulb, weight 2 lbs. \$20.00

A-1841 (See Fig. 2) Fluorescent light with twin 8 watt lamps. Light is completely universal and has 3-way clamp and screw down base for convenient mounting on lathe carriage or bed. Furnished complete with 6 ft. cord and two prong plug for 115 volt operation.

A-1841 Lathe lamp, including bulbs, weight 7-1/2 lbs. \$30.00

METRIC TRANSPOSING ATTACHMENT



Metric threads and feeds are obtainable through the use of a metric transposing attachment. This accessory unit consists of a special set of gears to replace the standard end gears.

Stock No.	M/M Pitch Range	Lathes	Weight	Price
L1671-L	6.00 M/M to .20 M/M	L	10 lbs.	\$ 71.50
L1671-XL	6.00 M/M to .20 M/M	XL	10 lbs.	71.50
L1671-S	6.00 M/M to .20 M/M	S	10 lbs.	79.00
L1671-M	6.00 M/M to .20 M/M	M	11 lbs.	79.00
10310-R	7.00 M/M to .20 M/M	R	12 lbs.	208.00

MILLING AND KEYWAY CUTTING ATTACHMENT



An economical attachment for milling operations on a lathe. Mounts quickly on the lathe compound. AA-2039 has 2-1/2" jaws that open 2-1/2" and have jaw depth of 1-1/2". Maximum vertical travel is 3-1/2". AA-2040 has 4" wide jaws that open 4" and has jaw depth of 1-3/4". Maximum vertical travel is 6". Both have grooved jaw plate for holding round work.

Stock No.	Lathes	Weight	Price
AA-2039	L, XL	12 lbs.	\$30.00
AA-2040	S, M	34 lbs.	40.00

MILLING ARBOR (For Milling Attachment)



One inch arbor, accurately machined, is hardened and ground. Has two 1/2" spacers and two 1/4" spacers. Capacity between shoulder and tightening nut, 1-3/4".

Stock No.	Morse Taper of Arbor	Lathes	Weight	Price
KM-352	#4 M. T.	L	2-1/2 lbs.	\$15.00
SM-352	#5 M. T.	XL, S, M	3-1/2 lbs.	15.00

PAINT

Enamel Paint is available as follows for those shops who would like to refinish old machines or standardize on Sheldon colors.

Stock No.	Quantity	Color	Weight	Price
A-2105 - P	Pint	Light Grey	1-1/2 lbs.	\$1.50
A-2105 - Q	Quart	Light Grey	3 lbs.	2.25
A-2105 - G	Gallon	Light Grey	10 lbs.	7.75
A-2106 - P	Pint	Vista Green	1-1/2 lbs.	1.50
A-2106 - Q	Quart	Vista Green	3 lbs.	2.25
A-2106 - G	Gallon	Vista Green	10 lbs.	7.75
A-2107 - P	Pint	Dynamic Cream	1-1/2 lbs.	1.50
A-2107 - Q	Quart	Dynamic Cream	3 lbs.	2.25
A-2107 - G	Gallon	Dynamic Cream	10 lbs.	7.75

SPECIAL COLORS FOR LATHES

All Sheldon Lathes are painted standard light machine tool grey. When other colors are desired, charges are as follows:

Type Lathe	First Color Price	Second Color Price
L, XL, S, M	\$31.50	\$26.50
R	45.00	31.00

PAN, CHIP AND OIL



Chip and oil pans are used on pedestal mounted lathes. Pans are completely oil tight and are made of heavy gauge steel, with large rolled rim and welded corners. Oil return troughs from the headstock end of the lathe are incorporated in the pedestal design. Should be ordered with the lathe at the factory.

Stock No.	Bed Length	Lathes	Weight	Price
L-1867-1	38"	L, XL	24 lbs.	\$47.25
L-1867-6	46"	L, XL	31 lbs.	47.25
L-1867-3	56"	L, XL	39 lbs.	54.00
L-1867-8	46"	S, M	39 lbs.	47.25
L-1867-7	56"	S, M	43 lbs.	54.00
L-1867-5	70"	S, M	53 lbs.	65.50
11425	60"	R	43 lbs.	65.00
11426	72"	R	54 lbs.	73.00
11428	90"	R	69 lbs.	91.00

DOG PLATES



Small face plate designed to drive lathe dog when supporting work between centers. Has two driving slots and two clamping slots. Accurately machined to fit lathe spindle nose. Standard equipment on new lathes.

Stock No.	Diameter	Lathes	Spindle Nose	Weight	Price
K-182X	5-1/2"	L	1-3/4x8	3 lbs.	\$17.00
LTKT-182	5-7/8"	XL, S, M	2-1/4x8	4 lbs.	17.00
L-1799	6"	XL, S, M	L00	5 lbs.	26.25
M-1833	7"	S, M, R	D1-4"	7 lbs.	26.25
11663	7-1/2"	R	2-3/4x8	8 lbs.	25.00
31821	8-1/2"	R	L0	11 lbs.	35.00

LARGE FACE PLATES



Large face plate can be used for supporting and revolving flat stock or jigs and fixtures for miscellaneous machining operations. Plates have ribbed, reinforced back. They have slots for clamping work and fixtures and are accurately fitted for lathe spindle nose.

For Threaded Spindles:

Stock No.	Diameter	Lathes	Weight	Price
K-183	10"	L	13 lbs.	\$25.00
XL-1546	10"	XL	13 lbs.	25.00
LT-183	11"	S	13-1/2 lbs.	29.50
KT-185	12"	M	14 lbs.	31.50
21664	14"	R	16 lbs.	33.50

LARGE FACE PLATES (Con't)

For Tapered Spindles:

Stock No.	Diameter	Lathes	Weight	Price
L1798	9"	XL	13 lbs.	\$34.00
K1337	11"	S	13-1/2 lbs.	35.25
M1837	12"	M	14 lbs.	36.50
31814	14-3/4"	R	16 lbs.	49.50

For D1-4" Camlock Spindles:

Stock No.	Diameter	Lathes	Weight	Price
K-1832	11"	S	13-1/2 lbs.	\$36.50
M-1831	12"	M,R	14 lbs.	49.50



COOLANT SYSTEM

Attachment consists of a large coolant reservoir with chipstrainer, 1/8 h.p. motor, switch, centrifugal type circulating pump, and all necessary fittings, and is mounted on machine.

Coolant system is recommended for lathes set up for production work. Other voltages available. Coolant spout is 15" long. Select pump with voltage same as lathe motor unless individual wiring desired.

Stock No.	Lathes	Voltage	Phase	Weight	Price
A-2079-1	L, XL, S, M, R	110	1	42 lbs.	\$203.00
A-2079-2	L, XL, S, M, R	220	1	42 lbs.	203.00
A-11835-3	L, XL, S, M, R	220/440	3	46 lbs.	219.00

CAMLOCK AND TAPERED SPINDLES



Fig. 1



Fig. 2

Camlock and long tapered key drive spindles can be supplied on Sheldon lathes, in place of standard threaded spindles, if ordered with the lathe from the factory. A full range of accessories is available for both types of spindles.

TAPERED SPINDLES (Fig. 1)

Stock No.	Spindle Nose	Lathes	Price
L-1761-1	L00	XL	\$50.00
M-1835	L00	S, M	50.00
30034-1	L0	R	125.00

CAMLOCK SPINDLES (Fig. 2)

Stock No.	Spindle Nose	Lathes	Price
M-1830	4" D 1	S, M	\$65.00
30037	4" D 1	R	150.00

PLAIN CARRIAGE STOP



An efficient carriage stop that clamps to the lathe bed at any point on the front "V" way to indicate the stopping point on such operations as facing and boring.

Stock No.	Lathes	Weight	Price
AS-L-1851	L, XL, S, M	3 lbs.	\$6.00
AS-21685	R	4 lbs.	11.50

PLAIN MULTIPLE CARRIAGE STOPS



This is a four position carriage stop that can be mounted anywhere on the lathe bed. Each of the finger type stops can be set for a different tool position and snapped into place

to locate the carriage on four successive cuts. AA1944 not illustrated.

Stock No.	Lathes	Weight	Price
AA-1944	L, XL	6-1/2 lbs.	\$65.00
A2333	S, M	6-1/2 lbs.	90.00
A2343	R	6-1/2 lbs.	90.00



MICROMETER CARRIAGE STOP

A precision stop with micrometer screw adjustment that clamps at any point on the front V way of the bed. Has 3/4" screw travel either to the right or the left.

Stock No.	Lathes	Weight	Price
ASL-1825-1	L, XL, S, M	2 lbs.	\$29.00
AS-21690	R	4 lbs.	41.50

NEW MICROMETER MULTIPLE CARRIAGE STOPS



This is also a four position carriage stop with finger-type stops for locating the carriage on four successive cuts. It has the additional feature of having micrometer dials on each stop for accurate settings. Dials are graduated in thousandths of an inch. AA1945 not illustrated.

Stock No.	Lathes	Weight	Price
AA-1945	L, XL	6-1/2 lbs.	\$97.50
A2334	S, M	6-1/2 lbs.	119.50
A2344	R	6-1/2 lbs.	119.50

FOLLOWER RESTS



Fig. 1

Fig. 2

The follower rest is attached to and moves with the lathe carriage to support long, flexible, and slender shafts for increased accuracy. Fig. 1 shows the plain type follower rest with machined adjustable jaws that can be set and locked in place for any diameter bar stock from 3/16" to 3-1/2". Fig. 2 shows the telescopic type with bronze tipped jaws with 3/8" to 4" capacity, for R lathe only.

Stock No.	Illustration	Lathes	Weight	Price
AS-L-1684	Fig. 1	L, XL	6 lbs.	\$14.00
AS-K-1685	Fig. 1	S	6 lbs.	15.50
AS-M-1686	Fig. 1	M	6 lbs.	15.50
AS-21614	Fig. 2	R	12 lbs.	57.50

STEADY REST



Fig. 1

Fig. 2

The steady rest is for supporting long bars or tubing and can be mounted any place on the bed ways. Fig. 1 shows the plain type steady rest with three quickly adjustable machined jaws that can be set and locked in place for any diameter bar stock within its capacity. Fig. 2 shows the telescopic type with bronze tipped jaws, for R lathe only. Both types have hinged tops to facilitate quick insertion and removal of stock.

Stock No.	Illus.	Capacity	Lathes	Wt.	Price
AS-L-575-1	Fig. 1	3/16" to 3-1/2"	L, XL	11	\$ 20.00
AS-XK-575-1	Fig. 1	3/16" to 3-1/2"	S	12	25.25
AS-M-575-1	Fig. 1	3/16" to 3-1/2"	M	13	25.25
AS-21600	Fig. 2	3/8" to 4"	R	17	90.00
AS-21950	Fig. 2	4" to 8"	R	37	167.00

HANDLEVER CROSS-SLIDES



Handlever operated cross-slide mounts on carriage in place of standard compound and cross-slide. It provides a two-way, front and back, operation that cuts job time in half. Both front and rear tool blocks take standard lathe rocker arm tool posts. Attachment is equipped with both front and back adjustable stops.

Stock No.	Slide Travel	Lathes	Weight	Price
AS-L-1545-HL	3-1/4"	L, XL	35 lbs.	\$175.00
AS-S-1545-HL	3-1/4"	S	40 lbs.	195.00
AS-M-1545-HL	3-1/4"	M	40 lbs.	195.00

HANDLEVER CROSS-SLIDES (Con't)



This is a heavy duty cross-slide that mounts on the lathe bed. It is a handlever operated slide, and has adjustable stops for repetitive operations. There are T-slots in the base for adjusting the position of both front and rear tool blocks. Screw operated tapered wedges quickly set the height of cutting tools.

Stock No.	Slide Travel	Lathes	Weight	Price
AS-M-1921	3-1/4"	M	125 lbs.	\$380.00



HANDWHEEL CROSS-SLIDES

Handwheel operated cross-slide mounts on carriage in place of standard compound and cross-slide. Large micrometer dial on carriage handwheel permits accurate adjustment for tool settings. Both front and rear tool blocks take standard lathe rocker arm tool posts. Attachment is equipped with both front and back adjustable stops. In addition to hand feed operation, power cross feed is available through apron clutch.

Stock No.	Slide Travel	Lathes	Weight	Price
AS-L-1545-HW	4-1/2"	L,XL	35 lbs.	\$200.00
AS-S-1545-HW	5"	S	40 lbs.	213.00
AS-M-1545-HW	5"	M	40 lbs.	213.00



This is a heavy duty cross-slide that mounts on the carriage. It has T-slots in the base for adjusting the position of both front and rear tool blocks. Screw operated tapered wedges quickly set the heights of cutting tools. Unit may be operated in power feed by apron clutch or by hand, using cross-feed handwheel. Equipped with adjustable stops for repetitive operations.

Stock No.	Slide Travel	Lathes	Weight	Price
AS-M-2050	4"	M	80 lbs.	\$395.00
AS-21900	6"	R	105 lbs.	450.00



This handwheel cross-slide mounts on the carriage in place of the standard cross-slide. It incorporates a rear tool block and uses the lathe compound furnished with the lathe in front. This increases the versatility of the front tool position for such operations as boring and threading. Unit may be operated by either hand feed or power feed through the apron clutch.

Stock No.	Slide Travel	Angle Feed	Lathes	Weight	Price
AS-L-1352X	5-1/2"	2-1/4"	L,XL	55 lbs.	\$193.00
AS-K-1353	5-1/2"	2-3/4"	S	65 lbs.	200.00
AS-M-1352	5-1/2"	3-1/2"	M	65 lbs.	200.00

TAILSTOCK TURRETS

Tailstock turrets are useful for eliminating the need for second-operation set-ups and for short run jobs which demand accuracy and speed. The turret has six stations which are easily selected by a convenient trip lever. A hardened tapered indexing pin, seats in tapered sockets to assure accuracy of alignment. Tool holes are drilled, bored and reamed in relation to the center of the arbor which fits into the tailstock spindle.

Stock No.	Size of Tool Holes	Morse Taper	Lathes	Weight	Price
AA-1960	5/8"	#2	L	3 lbs.	\$38.00
AA-1961	1"	#2	XL	12 lbs.	67.00
AA-1962	1"	#3	S,M,R	12 lbs.	67.00

THREAD CUTTING STOPS



The thread cutting stop is mounted on the carriage to regulate depth of cut for turning or cutting screw threads. All lathes have pre-drilled hole in cross-slide and carriage to accommodate stop. Stop comes complete with two knurled adjusting nuts and clamps.

Stock No.	Lathes	Weight	Price
LKM-5	L,XL,S,M,R	1 lb.	\$6.00



HANDLEVER TAILSTOCK

The handlever tailstock is used for production operations such as drilling and reaming or in conjunction with the six station tailstock turret. Tailstock spindle is controlled by either the lever or the tailstock handwheel. Maximum spindle travel of tailstock is 2-3/4".

Lathes	Weight	In Place of Regular Tailstock	In addition to Regular Tailstock
L,XL	35 lbs.	L926A \$101.00	AS-L-926 \$133.00
S	35 lbs.	S926A 128.00	AS-S-926 207.00
M	35 lbs.	M926A 128.00	AS-M-926 207.00



TELESCOPIC TAPER ATTACHMENT

Taper attachments are an important accessory for turning and boring long tapers or where repetitive taper operations are necessary. Accurate performance is obtained through simplicity of design and sturdy construction. With the telescopic taper attachment a telescopic cross-feed screw is supplied so that a simple lock of the bed clamp instantly makes the lathe ready for taper turning. The attachment has tapered gibs for easy adjustment and long life. The swivel bar is graduated in inches per foot on one end and in degrees on the other end.

Stock No.	Inches per ft. Taper	Degrees	Lathes	Wt.	Price
AS-TT-2040-L	3-1/2"	8-1/2	L,XL	45 lbs.	\$248.00
AS-TT-2040-SM	3-1/2"	8-1/2	S,M	45 lbs.	298.00
AS-11625	3-1/2"	8-1/2	R	90 lbs.	392.00



PLAIN TAPER ATTACHMENT

A plain taper attachment is also available. It mounts on the carriage and is connected to the cross feed by a cross-feed slide, rather than through a telescopic cross-feed screw. This requires disconnecting the cross-feed nut and locking both the saddle clamp nut and bed clamp in order to cut tapers. Attachment has straight gibs. Swivel bar is graduated in inches per foot on one end and in degrees on the other. Capacity is 9-1/2° or 4" per foot in 7-1/4".

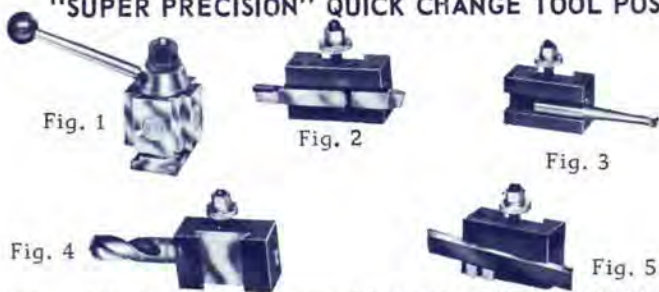
Stock No.	Lathes	Weight	Price
AS-K-119-TL	L,XL	25 lbs.	\$164.00
AS-K-119-TSM	S,M	25 lbs.	164.00

THREAD CHASING DIAL

This is a practical attachment that eliminates the need for reversing lathe when cutting threads. Mounted on the carriage, dial is graduated to show when to engage half nuts on successive threading cuts. All even threads start on any dial graduation, Odd threads on any numbered graduation and half threads on odd numbered graduations. Standard equipment on new lathes.

Stock No.	Lathes	Weight	Price
AS-L-192	L,XL	1-1/2 lbs.	\$29.00
AS-M-192	S,M	1-1/2 lbs.	33.00
AS-11675	R	1-1/2 lbs.	34.00

"SUPER PRECISION" QUICK CHANGE TOOL POST



This quick change tool post with its set of four tool holders fits on the compound of all Sheldon lathes. It is sturdily constructed and simple to operate. All working surfaces are hardened and precision ground. Tool holder is completely sealed and can be locked at any angle by a lock nut. Instant changing from one operation to another is quickly done by rotating handle, sliding out tool holder and sliding in next in exact pre-set position. Repetitive accuracy guaranteed to .0001".

Stock No.	Figure	Lathes	Weight	Price
AA-1963-L	1	L, XL	12 lbs.	\$68.00
AA-1963-S	1	S	12 lbs.	68.00
AA-1963-M	1	M	12 lbs.	86.00
AA-1963-R	1	R	14 lbs.	149.00

Tools for AA-1963-L and AA-1963-S:

AA-1991	2	Turning and Facing 3/16 to 1/2"	\$15.00
AA-1992	3	Boring, Turning and Facing 3/16 to 1/2"	15.00
AA-1995	4	Morse Taper for Drilling (#3 M.T.)	22.00
AA-1994	5	For "T" Cut Parting Blade 1/2"	21.00

Tools for AA-1963-M:

AA-1964	2	Turning and Facing 1/4" to 5/8"	\$17.00
AA-1965	3	Boring, Turning and Facing 1/4 to 5/8"	17.00
AA-1966	4	Morse Taper for Drilling (#3 M.T.)	25.50
AA-1967	5	For "T" Cut Parting Blade 5/8 to 11/16"	22.50

Tools for AA-1963-R:

AA-1968	2	Turning and Facing 1/2 to 3/4"	\$29.00
AA-1969	3	Boring, Turning & Facing 1/2 to 3/4"	29.00
AA-1970	4	Morse Taper For Drilling (#3 M.T.)	32.00
AA-1971	5	For "T" Cut Parting Blade 5/8" to 3/4"	36.00

BED TURRETS



These are six station, handwheel operated bed turrets designed to increase the versatility of your lathe for short-run production operations. They are quickly mounted or easily removed from the lathe. The turret head automatically indexes one station with each complete back movement of the wheel. Length of tool operations

is regulated by adjustable stops for each turret station. Turret has adjustable gibs for long life accuracy. When ordered with the lathe at the factory, turret is fitted to lathe bed and bored in line with lathe spindle.

Stock No.	Capacity	Stroke	Lathes	Weight	Price
A-1970	1"	4-1/4"	L, XL	105 lbs.	\$446.00
A-2010	1"	6-1/2"	L, XL	110 lbs.	501.00
A-2011	1"	6-1/2"	S	115 lbs.	501.00
A-2012	1"	6-1/2"	M	115 lbs.	516.00
A-2153	1"*	6-1/2"	R	170 lbs.	621.00

* 1-1/4" available on request at no extra charge.

TOOL POST TURRET, SCREW OPERATED



This production accessory fits on the compound of the lathe and permits use of four tools, each with three working positions. Loosening the lever at the top releases the turret for indexing in 30° increments.

Stock No.	Lathes	Cutter Bits	Weight	Price
A-2087	L, XL	1/2" sq. #2393	9 lbs.	\$61.00
A-2088	S	1/2" sq. #2393	9 lbs.	61.00
A-2089	M	1/2" sq. #2393	9 lbs.	61.00
A-2156	R	5/8" sq. #2394	15 lbs.	83.00

TOOL POST TURRET, CAM OPERATED



This is also a four way, twelve position tool post turret that fits on the compound. Releasing the cam locking handle automatically indexes the turret to the next station.

This means that the complete operation of the turret can be handled with one hand.

Stock No.	Lathes	Cutter Bits	Weight	Price
A-1967	L, XL	1/2" sq. #2393	9 lbs.	\$94.00
A-1968	S	1/2" sq. #2393	9 lbs.	94.00
A-1969	M	1/2" sq. #2393	9 lbs.	94.00
AA-1959	R	5/8" sq. #2394	18 lbs.	122.00

Cutter Bits for Tool Post Turrets are priced as follows:

Stock No.	Weight	Size	Price
2393	3 oz.	1/2" square x 4"	\$1.90
2394	4 oz.	5/8" square x 4-1/2"	3.00

TOOL HOLDER SET



A complete assortment of tool holders for almost every turning operation. Set consists of following eight tools, packaged in a steel case to hold individual tools in place: three turning tools, two cutting-off tools, knurling tool, threading tool and boring tool with plain bar.

Stock No.	Lathes	Weight	Price
8AF	L, XL	7 lbs.	\$38.84

BORING TOOL



Style D boring tool for boring and internal threading. Uses solid bars from 1/4" to 1/2" diameter. Has reversible bar clamp. Tool is boxed with 1/4" x 5" high speed boring bar and wrench. Uses No. 8142 boring bars, 1/4" x 5", priced at \$1.41 each.

Stock No.	Lathes	Weight	Price
2080	L, XL	1 lb.	\$ 7.61

BORING TOOL



Boring tool consists of a holder which fits in tool post of lathe and boring bar with three end caps - 90°, 45°, and 30°. The end caps lock the cutters rigidly under screw which cannot loosen when tool is cutting, yet instantly releases the cutter when not in use. Each tool includes holder and bar, end caps, three high speed cutters, and double head wrench.

Stock No.	Lathes	Cutter Bits	Weight	Price
8	L, XL, S	2388	2 lbs.	\$12.71
9	M	2389	4 lbs.	15.06
10	R	2390	7 lbs.	19.85

BORING TOOL, 3-BAR



This boring tool holder takes the place of the tool post in boring operations. Tool comes complete with one solid type bar, two bars with 90°, 45°, and 30° end caps, six high speed cutters, and three wrenches. A slight turn of one nut releases bar for instant change.

Stock No.	Lathes	Cutter Bits	Diam. Bars	Weight	Price
O0B-10	L, XL	2388	*3/8, 1/2, 3/4	8 lbs.	\$46.50
O0B-11	S	2389	*3/8, 1/2, 3/4	9 lbs.	46.50
OB-13	M	2390	1/2, 9/16, 3/4	10 lbs.	56.26
1B	R	2391	1/2, 3/4, 1-1/8	18 lbs.	70.96

* 3/8 bar is solid.

CUTTING OFF TOOLS



The cutter is adjustable to any desired clearance and is given greatest possible support under all conditions. Cutter blades of high speed steel are beveled on both sides and are held at an angle to give side clearance and top rake necessary to obtain clean, smooth cut. Each tool is boxed separately and includes wrench and one high speed cutter blade.

CUTTING OFF TOOLS (Con't)

Stock No.	Description	Lathes	Blade No. and Price	Weight	Price
2020L	Left Hand	L,XL	2411 2.80	1/2 lb.	\$ 3.79
2020R	Right Hand	L,XL	2411 2.80	1/2 lb.	3.79
2020S	Straight Shank	L,XL	2411 2.80	1/2 lb.	3.79
20	Straight Shank	L,XL,S	2411 2.80	3/4 lb.	7.79
21	Straight Shank	M	2412 3.40	1-1/4 lb.	9.26
22	Straight Shank	R	2413 4.10	2-1/4 lb.	11.63
30L	Left Hand	L,XL,S	2421 2.80	3/4 lb.	7.79
31L	Left Hand	M	2422 3.40	1-1/4 lb.	9.26
32L	Left Hand	R	2423 4.10	2-1/4 lb.	11.63
30R	Right Hand	L,XL,S	2411 2.80	3/4 lb.	7.79
31R	Right Hand	M	2412 3.40	1-1/4 lb.	9.26
32R	Right Hand	R	2413 4.10	2-1/4 lb.	11.63



BENT TAIL DOGS, Safety Type

These bent tail safety dogs are an improved design, drop forged from open hearth steel. They are heat treated to extreme toughness and have alloy steel set screws. Dogs with 3/8" to 1-1/2" capacity can be used with dog plate. Larger dogs require large face plate. Wrenches are extra.

Stock No.	Capacity	Lathes	Weight	Price
101-H	3/8"	L,XL,S,M	1/4 lb.	\$ 1.32
1-H	3/8"	R	1/4 lb.	2.13
201-H	1/2"	L,XL,S,M	1/4 lb.	1.32
2-H	1/2"	R	3/8 lb.	2.37
301-H	3/4"	L,XL,S,M	3/8 lb.	1.58
3-H	3/4"	R	1/2 lb.	2.56
401-H	1"	L,XL,S,M	1/2 lb.	1.95
4-H	1"	R	3/4 lb.	3.02
501-H	1-1/4"	L,XL,S,M	3/4 lb.	2.17
5-H	1-1/4"	R	1-1/2 lbs.	3.64
601-H	1-1/2"	L,XL,S,M	3/4 lb.	2.17
6-H	1-1/2"	R	2 lbs.	4.28
7-H	1-3/4"	L,XL,S,M,R	2-3/4 lbs.	5.19
8-H	2"	L,XL,S,M,R	3-1/2 lbs.	6.02
9-H	2-1/2"	R	5-1/4 lb.	7.73
10-H	3"	R	6-3/4 lb.	9.86
11-H	3-1/2"	R	9 lbs.	12.85
12-H	4"	R	12 lbs.	19.30



CLAMP LATHE DOGS

This drop forged steel clamp lathe dog securely grips a variety of shapes of stock. Construction of upper bar allows for considerable tilting without bending screws.

Stock No.	Cap. Between Screws	Lathes	Weight	Price
11	1-3/4"	L,XL,S,M,R	3/4 lbs.	\$ 6.45
12	2-1/4"	L,XL,S,M,R	1 lb.	8.57
13	2-3/4"	R	1-3/4 lbs.	10.74
14	3-1/2"	R	2-3/4 lbs.	15.02



KNURLING TOOLS

This knurling tool is self-centering. The knuckle or joint has ample bearing to resist the severe strains of both end and side thrust. The tool is furnished with one set of diamond pattern medium knurls. Other style knurls available.

Stock No.	Lathes	Knurls	Knurling Capacity	Weight	Price
2040	L,XL	8224	1/8 up	1/2 lb.	\$ 7.61
OK	L,XL,S	8224	1/8 up	1 lb.	15.57
1K	M	8225	3/16 up	1-1/2 lb.	17.45
2K	R	8225	3/16 up	2 lbs.	20.66

KNURLING TOOLS, Revolving Head



furnished with standard face diamond knurls. Other style knurls available.

Self-centering head takes three pairs of knurls at one time to save time in changing from one grade or style of knurls to another. Tool is

Stock No.	Lathes	Knurls	Knurling Capacity	Weight	Price
3K0	L,XL,S	8224	3/16 up	1-1/4 lb.	\$20.71
3K1	M	8225	1/4 up	2 lbs.	23.32
3K2	R	8225	1/4 up	2-1/2 lb.	27.15

KNURLS

Knurls are individually hob-cut to produce precision work in close limits of accuracy. They are cut from extra high carbon tool steel, heat treated, tempered and tested. Knurls are furnished in pairs with diamond pattern face as standard.

Stock No.	Pitch	Diam.	Width	Weight	Price
8224	21	5/8"	3/16	1 oz.	\$2.95
8225	21	3/4"	1/4	1 oz.	3.48

THREADING TOOLS



Each tool is drop forged from special steel. Tool is boxed separately and includes wrench and one high speed sharp V-thread cutter. To sharpen, the cutter requires grinding on the top edge only and always remains true to form with correct angle.

Stock No.	Lathes	Cutter Bits	Weight	Price
2050	L,XL	8160	1/2 lb.	\$ 6.4
50	L,XL,S	8151	1 lb.	10.7
51	M	8153	1-1/2 lb.	13.0
52	R	8155	2-1/4 lb.	16.5



THREADING CUTTERS

These formed threading cutters are made from selected high speed steel. Cutting edge is in a horizontal position or parallel to edge of holder. Cutters can be supplied for cutting Sharp V, American Standard coarse, American Standard fine, and Whitworth Standard threads. If pitch is not specified, Sharp V type will be supplied.

Stock No.	Style	Weight	Price
8151	Sharp V, 60°	1 oz.	\$ 6.90
8153	Sharp V, 60°	1 oz.	8.12
8155	Sharp V, 60°	1 oz.	10.80
8160	Sharp V, 60°	1 oz.	4.17

TURNING TOOLS



Left Hand



Straight



Right Hand

Each turning tool is boxed separately and includes wrench and one high speed cutter bit.

Stock No.	Description	Cutter Bits	Lathes	Weight	Price
2010S	Straight Shank	2389	L,XL	1/3 lbs.	\$3.2
2010R	Right Hand	2389	L,XL	1/3 lbs.	3.2
2010L	Left Hand	2389	L,XL	1/3 lbs.	3.2
0S	Straight Shank	2389	L,XL,S	3/4 lbs.	7.30
1S	Straight Shank	2390	M	1-1/2 lbs.	8.4
2S	Straight Shank	2391	R	2-1/4 lbs.	10.35
0R	Right Hand	2389	L,XL,S	3/4 lb.	7.30
1R	Right Hand	2390	M	1-1/2 lbs.	8.4
2R	Right Hand	2391	R	2-1/4 lbs.	10.35
0L	Left Hand	2389	L,XL,S	3/4 lb.	7.30
1L	Left Hand	2390	M	1-1/2 lbs.	8.4
2L	Left Hand	2391	R	2-1/4 lbs.	10.35

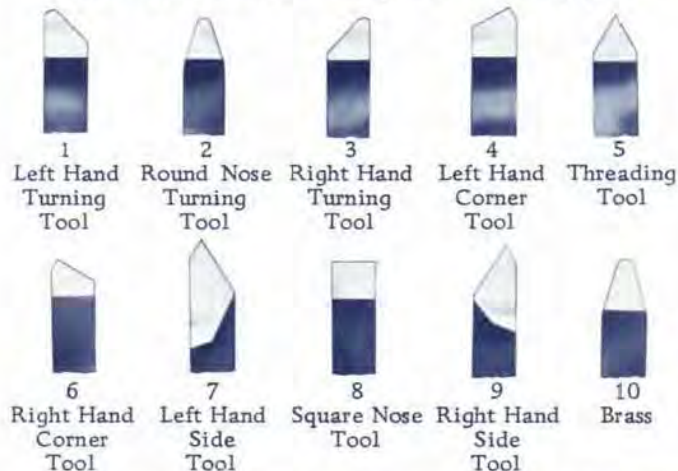
CUTTER BITS



These are high speed cobalt cutter bits ground on all four sides. Ends are beveled 10°. For use on boring and turning tools as listed.

Stock No.	Size	Weight	Price
2388	3/16 sq. x 2-1/2	1 oz.	\$.59
2389	1/4 sq. x 2-1/2	1 oz.	.63
2390	5/16 sq. x 2-1/2	1 oz.	.74
2391	3/8 sq. x 3	1 oz.	1.05

FINISHED FORM CUTTERS, Ground to Shape, Set



No.	Description	Size	Weight	Price
0415	Set of 10	1/4" sq. x 2-1/2	2 oz.	\$ 8.72
0405	Set of 10	5/16" sq. x 2-1/2	3 oz.	13.10
0406	Set of 10	3/8" sq. x 3"	4 oz.	18.90
0136	Set of 6 (1,2,3,5,6,10)	1/4" sq. x 2-1/2	5 oz.	4.66

CARBIDE TOOL HOLDERS



Each tool is drop forged from special steel, accurately machined, heat treated and hardened. Set screws are of heat treated alloy steel

with hardened points. Each tool is boxed separately without tool bit, but with wrench.

Stock No.	Description	Cutter Bits	Lathes	Weight	Price
T1S	Straight Shank	A-2160 to 64	S,M	2 lbs.	\$ 9.31
T2S	Straight Shank	A-2165 to 69	R	3-1/4 lbs.	11.63
T1L	Left Hand	A-2160 to 64	S,M	2 lbs.	9.31
T2L	Left Hand	A-2165 to 69	R	3-1/4 lbs.	11.63
T1R	Right Hand	A-2160 to 64	S,M	2 lbs.	9.31
T2R	Right Hand	A-2165 to 69	R	3-1/4 lbs.	11.63

CARBIDE TIPPED CUTTERS



These are sintered-carbide for machining steel, castings, hard rubber, plastics and even glass. They are grade 78B square cutters for use with tool holders as specified above.



Stock No.	Style	Size	Weight	Price
A-2160	Right Hand (Form 7)	5/16" sq.	1 oz.	\$3.30
A-2161	Left Hand (Form 4)	5/16" sq.	1 oz.	3.30
A-2162	Square Nose (Form 1)	5/16" sq.	1 oz.	3.26
A-2163	80° (Form 12)	5/16" sq.	1 oz.	3.23
A-2164	60° (Form 15)	5/16" sq.	1 oz.	3.21
A-2165	Right Hand (Form 7)	3/8" sq.	2 oz.	3.30
A-2166	Left Hand (Form 4)	3/8" sq.	2 oz.	3.30
A-2167	Square Nose (Form 1)	3/8" sq.	2 oz.	3.31
A-2168	80° (Form 12)	3/8" sq.	2 oz.	3.30
A-2169	60° (Form 15)	3/8" sq.	2 oz.	3.27

MOTORS - SINGLE SPEED

Motors listed below are recommended for general use on size lathes with type drive listed below. These are standard, single speed, 60 cycle, 1725 r.p.m. instant reversing, open, drip-proof, ball bearing type motors. Single phase motors listed are reversible capacitor type. Although motors for the G drive on R Series Lathes are an integral part of the geared transmission, they are priced separately to allow choice of motor characteristics desired. Prices on other motors to meet your electrical specifications are available on request.

Stock No.	H.P.	Voltage	Phase	Lathes	Drive	Weight	Price
368	1/2	220/440	3	L,XL	H	50 lbs.	\$55.00
374	3/4	220/440	3	L,XL	E	54 lbs.	67.00
380	1	220/440	3	XL,S,M	E	60 lbs.	88.00
384-L	1-1/2	220/440	3	S,M	U	67 lbs.	103.00
H-8312	2	220/440	3	S,M,R	W,ER	71 lbs.	118.00
H-8313	3	220/440	3	R	ER	110 lbs.	132.00
A-1620	3	220/440	3	R	GR	196 lbs.	132.00
A-1624	5	220/440	3	R	GR	215 lbs.	170.00
164	1/2	110/220	1	L,XL	H	52 lbs.	63.00
174	3/4	110/220	1	L,XL	E	60 lbs.	78.00
180	1	110/220	1	XL,S,M	E	67 lbs.	113.00
184-L	1-1/2	110/220	1	S,M	E,U	79 lbs.	147.00

MOTORS - TWO SPEED

Motors listed below are recommended for general use on size lathes with type drive shown. These are two speed, constant horsepower, single winding, 60 cycle, 1800/900 r.p.m., instant reversing, open, drip-proof, ball bearing type motors. Motors for the G drive on R lathes are priced separately to allow choice of motor characteristics desired. Prices on other motors to meet your electrical specifications are available on request.

Stock No.	H.P.	Voltage	Phase	Lathes	Drive	Weight	Price
A-1609	3/4	220	3	L,XL	H,E	70 lbs.	162.00
H-8321	1	220	3	XL,S,M	E	110 lbs.	179.00
A-1610	1	440	3	XL,S,M	E	110 lbs.	179.00
A-1626	1-1/2	220	3	S,M	U	135 lbs.	214.00
A-1627	1-1/2	440	3	S,M	U	135 lbs.	214.00
H-8322	2	220	3	S,M,R	W,ER	145 lbs.	250.00
H-8332	2	440	3	S,M,R	W,ER	145 lbs.	250.00
A-1621	3	220	3	R	GR	275 lbs.	340.00
A-1622	3	440	3	R	GR	275 lbs.	340.00
A-1629	5	220	3	R	GR	275 lbs.	356.00
A-1630	5	440	3	R	GR	275 lbs.	356.00

TOTALLY ENCLOSED MOTORS

All Sheldon lathes can be supplied with totally enclosed motors to meet the Standards of the Joint Industry Committee of the Automotive Industry. These have standard 1750 r.p.m., 60 cycle specifications.

Stock No.	H.P.	Voltage	Lathes	Drive	Weight	Price
374-TE	3/4	220/440	L,XL	H	60 lbs.	\$ 77.40
380-TE	1	220/440	XL,S,M	E	75 lbs.	137.00
384-TE	1-1/2	220/440	S,M	U	85 lbs.	140.00
H-8312-TE	2	220/440	S,M,R	W,ER	90 lbs.	159.00
H-8313-TE	3	220/440	R	ER	140 lbs.	180.00
A-1620-TE	3	220/440	R	GR	259 lbs.	245.00
A-1621-TE	3	220	R	GR	275 lbs.	415.00
A-1624-TE	5	220/440	R	GR	265 lbs.	292.00
A-1629-TE	5	220	R	GR	275 lbs.	471.00
A-1630-TE	5	440	R	GR	275 lbs.	471.00

J.I.C. Fusible Control

Control consists of an oil tight enclosure with three pushbutton stations for forward, reverse and stop operations, and a magnetic starter. The starter is reversing, with fused dual voltage transformer, providing low voltage control, overload protection and a fused disconnect switch.

A-1707 Fusible Control for J.I.C. Motors to 5 h.p. . . \$300.00*

J.I.C. Non-Fusible Control

Control is similar to A-1707 except that disconnect switch is non-fusible type.

A-1706 Non-Fusible Control for J.I.C. Motors to 5 h.p. \$295.00*
* Installation Charge for J.I.C. Controls 50.00

SINGLE SPEED CONTROLS

Reversing Drum Switches

These are standard, manually operated, across the line, drum controls. They have three positions for forward, reverse and stop operation. Select the control to meet the motor characteristics desired. We recommend drum controls only for use on motors operating on 230 volts or less.

Stock No.	H.P.	Voltage	Cycle	Phase	Weight	Price
R327 A	1	110/220	60	1	1 lb.	\$14.25
R 44	2	220	60	3	1 lb.	14.25
J 2	3	220	60	3	1-1/2 lbs.	19.50
J 5	5	220	60	3	2 lbs.	29.25

Manual Pushbutton Station

This is a manually operated switch for across the line applications. It operates similarly to reversing drum switches, except that contacts are made by manual pushbutton stations for forward, reverse and stop operations.

Stock No.	H.P.	Voltage	Cycle	Phase	Weight	Price
A-1746	2	220	60	3	1 lb.	\$16.80

REVERSING DRUM WITH MAGNETIC STARTER

This is an inexpensive combination of a reversing drum switch with a non-reversing magnetic starter. The starter protects against overload, low voltage, stalled rotor or single phasing on polyphase motors, but does not provide protection against lathe starting up unexpectedly after line problems have been corrected. Drum switch provides convenient control for forward, reverse and stop operation. Price includes heater coils for maximum horsepower recommended. A-1753 has flush mounted drum switch for R Series lathes.

Stock No.	H.P.	Voltage	Cycle	Phase	Weight	Price
A-1705-3	2	220	60	3	3 lbs.	\$65.00
A-1753	3	220	60	3	3 lbs.	79.00

MAGNETIC REVERSING CONTROLS

This is a combination of a magnetic reversing starter with a three pushbutton station, providing forward, reverse and stop operation. Starter protects against overload, low voltage, stalled rotor or single phasing on polyphase motors. A-1712, A-1712W, A-1752 and A-1769 have additional safety feature of 110 volts at pushbuttons and these controls are recommended for voltages greater than 230 volts. A-1711W and A-1712W have five pushbutton stations incorporating "fast" - "slow" buttons for use solely on 11" and 13" variable speed lathes. A-1751, A-1752, A-1768 and A-1769 are flush mounted for R Series lathes.

Stock No.	H.P.	Voltage	Cycle	Phase	Weight	Price
A 1710	2	220	60	1	4 lbs.	\$116.00
A 1711	2	220	60	3	4 lbs.	116.00
A 1711 W	2	220	60	3	4 lbs.	116.00
A 1712	2	440	60	3	4 lbs.	146.00
A 1712 W	2	440	60	3	4 lbs.	146.00
A 1751	3	220	60	3	4 lbs.	116.00
A 1752	3	440	60	3	4 lbs.	146.00
A 1768	5	220	60	3	4 lbs.	132.00
A 1769	5	440	60	3	4 lbs.	163.00

TWO SPEED CONTROLS

Reversing Drum Controls

Two reversing drum switches are used to provide an inexpensive control for two speed motors. One switch provides forward, reverse and stop operations while the other provides selection for high, off, and low speeds.

Stock No.	H.P.	Voltage	Cycle	Phase	Weight	Price
A-1723	3	220	60	3	3 lbs.	\$58.00
A-1772	5	220	60	3	5 lbs.	85.00

Reversing Drum With Magnetic Starter

This is an inexpensive combination of two-speed reversing drum controls with a magnetic starter. The starter has a built in start, stop and reset button and provides against overload, low voltage, stalled rotor or single phasing. One switch pro-

vides forward, reverse and stop operation while the other provides selection for high, off, and low speeds.

Stock No.	H.P.	Voltage	Cycle	Phase	Weight	Price
A 1762	3	220	60	3	5 lbs.	\$107.00
A 1755	5	220	60	3	7 lbs.	136.00

Magnetic Reversing Controls

This is a combination of a magnetic reversing starter with a four pushbutton station providing forward high, forward low, reverse low and stop operations. Starter protects against overload, low voltage, stalled rotor and single phasing. A 1721-W incorporates two additional pushbuttons for fast-slow operation on 11" and 13" variable speed lathes. These controls have additional safety feature of 110 volts at the pushbuttons.

Stock No.	H.P.	Voltage	Cycle	Phase	Weight	Price
A 1721	2	220/440	60	3	7 lbs.	\$475.00
A 1721 W	2	220/440	60	3	7 lbs.	475.00
A 1754	3	220/440	60	3	7 lbs.	475.00
A 1770	5	220/440	60	3	10 lbs.	550.00

BRAKEMOTORS AND CONTROLS

The dynamic braking feature of the motor stops the motor, and automatically releases the brake after the spindle has stopped rotating. The quick stopping of the motor is an important time saver in production operations.

Stock No.	Lathes	H.P.	Voltage	Phase	Wt.	Price
A 1619	L, XL, S, M	1-1/2	220/440	3	75	\$238.00
A 1613	S, M, R	2	220/440	3	80	260.00
A 1614	ER	3	220/440	3	120	288.00

Any single speed magnetic control listed on this page can be used with brakemotors if they meet the voltage and horsepower requirements. In addition, there is also a K 2400 reversing drum switch for operation of brakemotors, providing forward, reverse and stop operation.

K 2400 Reversing Drum Switch, weight 3 lbs. \$32.50

Note: Brakes for geared motor drives can be supplied only when ordered with the lathe from the factory. Select the GR type motor desired, and in addition to the price of the motor add on \$260.00
(Can be used with all standard controls)

APRON CONTROLS

This is a convenient means of controlling the motor from the side of the gear box or from a traveling handle attached to the apron. Unit is available for R series 15" lathes only. Additional variations for special motors are available. Write for quotation.

1. Apron control in conjunction with a reversing drum switch, to provide forward, reverse, and stop operation. For maximum 3 H.P., 230 volt single speed motor. A-1725 as described \$98.00
2. Apron control for start, stop operation in conjunction with a magnetic reversing starter to provide overload, low voltage, and stopped rotor protection. Selector switch on headstock provides forward, reverse and off operation. For maximum 3 h.p. 230 volt, single speed motor.
A-1726 as described \$197.00
3. Apron control as described above, except with additional safety feature of 110 volts at the control. For maximum 3 h.p., 550 volt, single speed motor.
A-1729 as described \$228.00

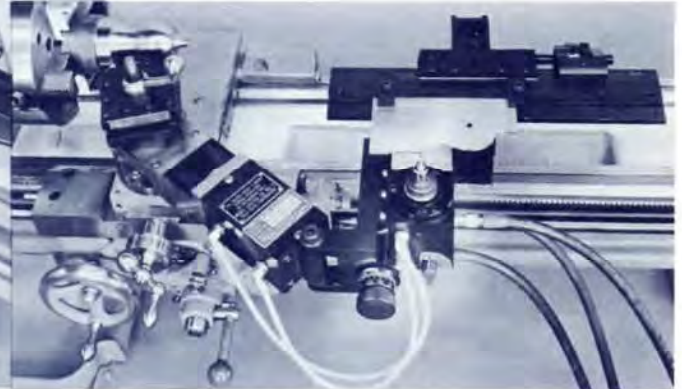
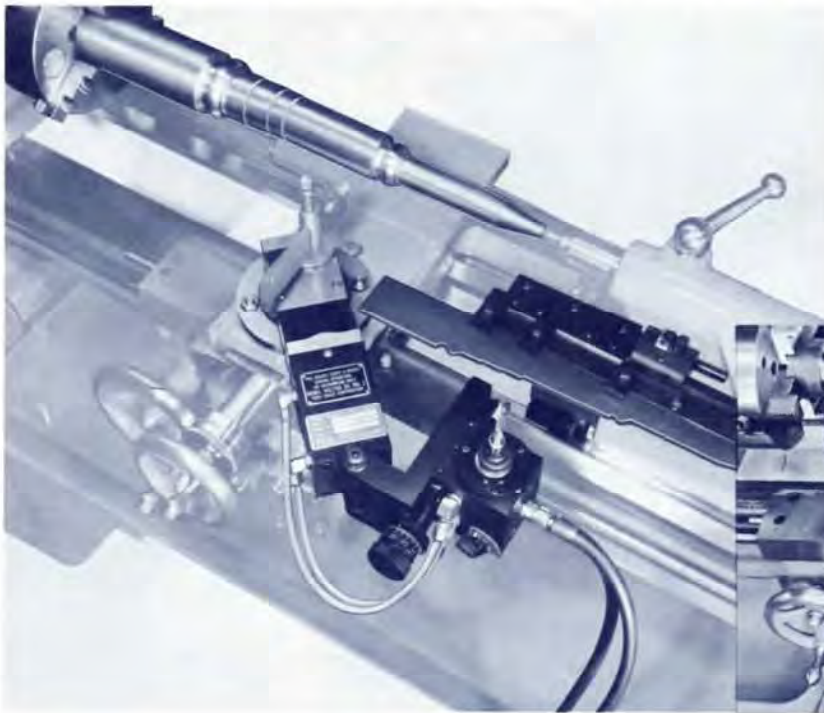
SAFETY DISCONNECT SWITCH

Disconnect switches are designed to provide a means to shut off current between the main line and the machine. This is particularly important during non-working hours, vacation and shut down periods, or when electrical maintenance is performed on the machine.

Stock No.	Voltage	Phase	Weight	Price
A-1743	440/550	3	2 lbs.	\$25.00
A-1745	220/230	3	2 lbs.	25.00

NEW HYDRAULIC TRACER ATTACHMENTS

FOR SHELDON LATHES



The all new lathe tracer attachment mounts quickly on all Sheldon lathes for rapid, accurate machining of duplicate parts. It is simple to operate and its extremely compact and versatile design makes setting up so easy that one lathe can be used for both tracing and standard operations.

The tracer mounts on the cross-slide replacing the standard lathe compound. It can be rotated 360° for contour turning and facing. The tracer slide has an easily read barrel type micrometer for positioning the slide in relationship to the template as well as selecting depth of cut. Dial is graduated in thousandths of an inch. The slide is hinge mounted to the tracer compound and can be swiveled approximately 180°.

"Trace" or "Retract" positions are selected by rotating a dial on the tracer valve. The stylus is pinned to prevent rotation and its extremely light pressure permits the use of soft materials for templates. A metering valve controls the rapid approach of the stylus as well as locking the tracer in any desired position for straight turning.

The template rail is a separate unit that quickly locks to the lathe bed at any desired position. It fits over the V way for automatic alignment with the lathe bed. Template unit can be swiveled up to 15° from center line for ease of set up or for turning tapers.

The complete attachment includes the tracer compound, slide, template rail and hydraulic pump and reservoir unit.

Stock No.	Lathes	Weight	Price
AA-2075	L,XL	185 lbs.	\$1565.00
AA-2076	S	185 lbs.	1565.00
AA-2077	M	185 lbs.	1565.00
AA-2079	R	185 lbs.	1565.00
AA-2083	R	275 lbs.	2370.00

Tracer Specifications	AA2075-6-7-9	AA2083
Valve slide adjustment (parallel to cross-slide)	3"	3"
Template adjustment (Parallel to bed) ..	1/2"	1"
Length of template rail	14"	48"
Cylinder stroke	3"	4"
Cylinder bore diameter	1-3/4"	3"
Tracer stylus bore diameter3750"	.3750"
Tracer stylus pressure (ounces)	6 to 9	6 to 9
Hydraulic Power Supply		
Motor (Single phase, 115/230 volts, 60 cycle)	1/2 h.p.	1/2 h.p.
Pump Capacity	1-1/2 gpm	1-1/2 gpm
Normal Operating pressure	160 psi.	160 psi.
Maximum Operating pressure	275 psi.	275 psi.
Reservoir Capacity	15 gal.	15 gal.

AA-2085 Two axis Synchro-Turn 90° lathe tracer complete with hydraulic pump and reservoir unit, 6-1/2" longitudinal tracing stroke, 3-1/2" cross tracing stroke, bracket mounted to R series lathe only.
Not illustrated \$5,200.00

SHELDON MACHINE COMPANY, CHICAGO, ILLINOIS.

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TEST SHEET

SHELDON MACHINE CO. Inc.
Manufacturers of Sheldon Precision Lathes • Milling Machines • Shapers
 4234 N. KNOX AVENUE • CHICAGO 41, ILLINOIS, U. S. A.

Each Sheldon Lathe must pass this Rigid Test

ORDER NO. _____

LATHE SERIAL NO. _____

NOTE: Before running lubricate lathe with No. 10 non-additive oil

MOTOR SERIAL NO. _____

TEST DESCRIPTION	LIMIT	ACTUAL
BED LEVEL - TRANSVERSE DIRECTION	WHEN USING PRECISION LEVEL BOTH READINGS TO BE WITHIN .0005 IN 12 INCHES	
BED LEVEL - LONGITUDINAL DIRECTION	WHEN USING PRECISION LEVEL ALONG BED MAXIMUM READING TO BE WITHIN .001 IN 12 INCHES	
SPINDLE NOSE RUNOUT	INDICATOR READING 0 TO .0003	
CAM ACTION OF SPINDLE	INDICATOR READING 0 TO .0005	
SPINDLE TAPER RUNOUT	TOTAL INDICATOR READING AT END OF 12 INCH TEST BAR 0 TO .0006	
HEADSTOCK ALIGNMENT - VERTICAL	AT END OF SPINDLE NOSE 0 TO .0003	
HEADSTOCK ALIGNMENT - HORIZONTAL	HIGH AT END OF 12 INCH TEST BAR 0 TO .0005	
TAILSTOCK TAPER ALIGNMENT - VERTICAL (SPINDLE EXTENDED)	AT END OF 12 INCH TEST BAR 0 TO .0003	
TAILSTOCK TAPER ALIGNMENT - HORIZONTAL (SPINDLE EXTENDED)	HIGH AT END OF 8 INCH TEST BAR 0 TO .0005	
TAILSTOCK TAPER ALIGNMENT - VERTICAL (SPINDLE RETRACTED)	HIGH AT END OF 8 INCH TEST BAR 0 TO .0005	
TAILSTOCK TAPER ALIGNMENT - HORIZONTAL (SPINDLE RETRACTED)	END OF 8 INCH TEST BAR 0 TO .0005	
CROSS SLIDE ALIGNMENT	HIGH AT TAILSTOCK .0005 TO .001	
FACE PLATE RUN OUT	TO FACE, HOLLOW OR CONCAVE ONLY ON 10 INCH DIAMETER 0 TO .0008	
CHUCK - RUN OUT	ON FACE AT NOMINAL DIAMETER 0 TO .001	
LATHE MUST TURN ROUND WITH WORK MOUNTED IN CHUCK	BAR TEST 3" FROM END OF JAW BAR DIA. SAME AS HOLE .003 SUBJECT TO CHUCK INACCURACY	
LATHE MUST TURN CYLINDRICAL WITH WORK MOUNTED IN CHUCK	WITHIN .0003	
COLLET CHUCK - RUN OUT	WITHIN .0003	
BACK LASH ON CROSS FEED - SCREW ON COMPOUND REST SCREW	ONE INCH FROM SPINDLE 0 TO .001	
	.004	

Each Lathe must pass the 19 accuracy checks on this Test Sheet before leaving the factory. This individual Test Sheet is delivered with the lathe as a Guarantee that it is a true precision machine tool.

INSPECTED _____
 APPROVED _____

DATE _____



SHELDON MACHINE CO., Inc.

Builders of Lathes • Turret Lathes • Automatic Lathes • Milling Machines • Shapers
 4258 N. Knox Avenue, Chicago, Illinois (60641) U.S.A. Telephone: (312) 685-1970 Cable Address: Sheldonco