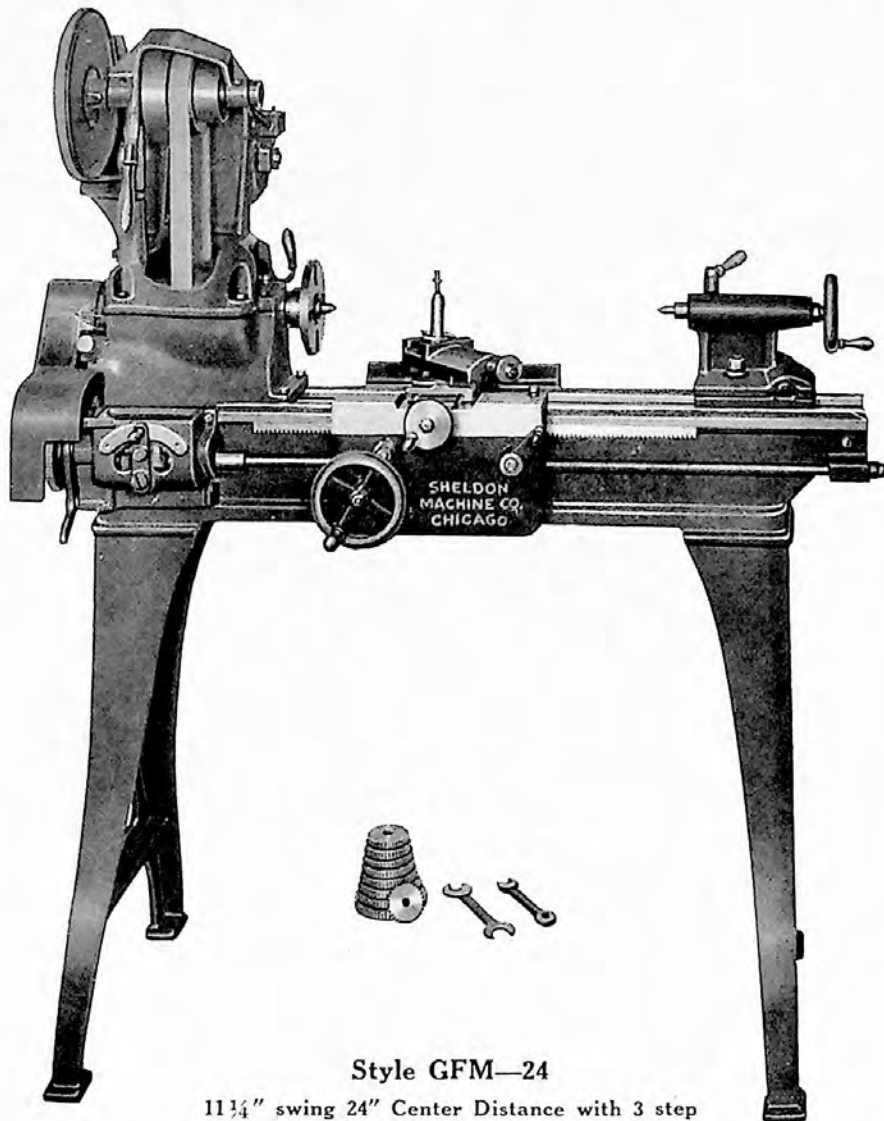


The new
SHELDON
11" lathe



Style GFM—24

11 1/4" swing 24" Center Distance with 3 step
cone, single back gears, semi-quick change
gear box and Motor Drive.

Manufactured by

SHELDON MACHINE COMPANY

3253 · 3255 Cottage Grove Avenue, Chicago

DESCRIPTION

In offering our Styles "G" and "W" 11" Lathes, we do so with the feeling that there is a demand for a small, well-built lathe that can be offered at an exceptionally low price. A complete tool, jig and fixture equipment insures low cost of production with complete interchangeability of parts. Only the best workmanship and materials used throughout.

Style "G" Lathes are furnished with plain aprons, viz., carriage travel for both turning and screw cutting is obtained by engaging the half nut on the lead screw.

Style "W" Lathes are the same as Style "G" Lathes with the exception that the Style "W" Lathes are furnished with **worm feed** in the apron and **power cross feed**. The lead screw is used only when cutting threads.

Bed—is made of semi-steel, is wide and deep and provided with cross girts, giving great strength and rigidity to a lathe of this size.

Headstock—is of the solid, full-webbed, bowl type, rigidly supporting the spindle bearings. It is supported on bed by one vee and one flat way and perfectly aligned to same. Back gears are completely covered.

Spindle—is exceptionally large and has a 1-1/16" hole through its entire length. It is made from 50 carbon crucible steel, accurately ground all over. Spindle bearings are exceptionally large and are accurately scraped and burnished.

Semi-Quick Change Gear Box—is regularly furnished on this lathe. It is simple and rugged and provides three instantaneous changes of feed—**fine, medium and coarse**. These changes are easily and quickly made while lathe is running by means of a small lever on the front of the box.

Lead Screws—are made from special quality steel and have coarse pitch Acme standard threads. They are accurately cut on special thread cutting machines.

Tailstock—is rigid with long bearing on bed. It can be set over for taper turning. Spindle is of large diameter, ground and accurately fitted to tailstock barrel. Spindle binder is of improved design, securely locking spindle without altering alignment of centers.

Compound Rest—The cross slide is wide and long with deep dovetail. The swivel slide is graduated 90 degrees each side of center. The top slide is heavy, with deep dovetail and long travel. Tool post is standard, round, single screw, with adjustable rocker wedge and square washer for top slide tee slot. Both top slide and cross feed screws are equipped with graduated micrometer dials.

Carriage—is exceptionally large and rigid. It has 11-3/4" bearing on bed, fully scraped entire length. Cross bridge is 3-3/4" wide and heavily reinforced, providing ample bearing surface for cross slide. Carriage is securely gibbed to bed and is jig drilled and tapped to receive Taper Attachment, Thread Chasing Dial, Chasing Stop and Follower Rest at any time.

Apron—is very simple. It has large bearing surface on carriage to which it is bolted and doveled to insure perfect alignment of feed screw and rack.

Feed and Lead Screw Reverse—are instantly secured by a reverse lever on headstock. There are no screws or nuts to loosen in operating the reverse. It can be instantly done while the lathe is running.

Thread Chasing Dial—By using a thread chasing dial, it is not necessary to reverse a lathe to return the carriage to the starting point when cutting threads. The dial is graduated and numbered which indicates the proper position of carriage to engage the half nut for the next cut. When cutting even threads, half nut is closed at any graduation on the dial. Odd threads at any numbered graduation and half threads at odd number graduations.

Electric Motor Drive—Our motor drive is a very simple and efficient application for small lathes. A bracket mounted directly on top of the headstock in place of the regular gear guards carries the motor seat and also the supporting members for the adjustable countershaft bracket. By means of a cam lever, the countershaft bracket is adjustable for shifting or tightening the belt.

Motor base is adjustable for belt tension and is connected to countershaft by means of a V belt. Starting and stopping switch is conveniently located. All belts, gears and other moving parts are carefully guarded.

MOTOR DRIVEN LATHES

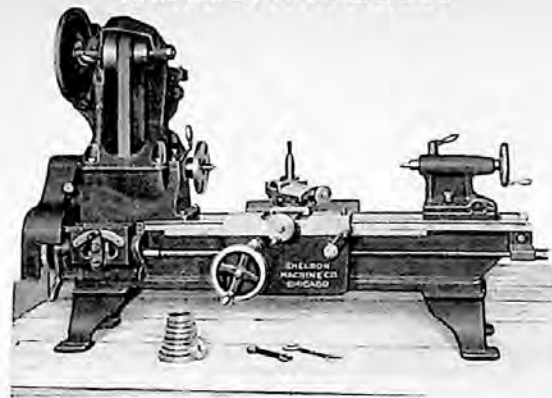


Fig. 1

Figure 1 illustrates our Style GBM-24 Lathe.

Style	Code Word	Weight Crated	Net Factory Price
GBM-24	GALOP	485 lbs.	\$155.00
GBM-36	GAME	510 lbs.	\$170.00
WBM-24	WHEY	495 lbs.	\$180.00
WBM-36	WHIP	520 lbs.	\$195.00

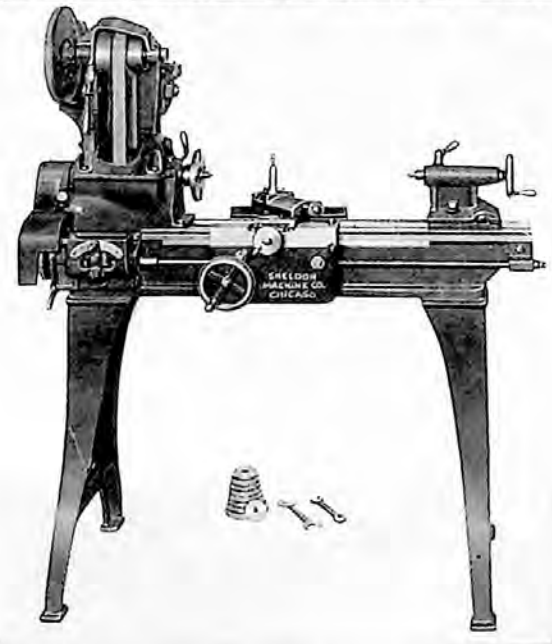


Figure 2

Figure 2 illustrates our Style GFM-24 Lathe.

Style	Code Word	Weight Crated	Net Factory Price
GFM-24	GANG	525 lbs.	\$165.00
GFM-36	GARB	550 lbs.	\$180.00
WFM-24	WIND	535 lbs.	\$190.00
WFM-36	WISE	560 lbs.	\$205.00

STANDARD EQUIPMENT

Standard equipment for motor driven lathes consists of three step cone and single back gears, semi-quick change gear box with change gears for cutting 4 to 80 threads per inch, small face plate, compound rest with tool post, thread chasing dial, centers, necessary wrenches, and motor drive attachment complete with a 1/3 HP 1725 rpm Repulsion-Induction Type Motor for 110 or 220 volt, 60 cycle single phase AC current, switch, cord and plug.

Extra—220 V, 60 C, 3 phase A.C. motor.....\$7.50
Extra—110 V or 220 V D.C. motor.....\$8.00

EXPLANATION OF STYLE NUMBERS

"G" and "W" refer to style apron as described in first column. "B" and "F" Bench or Floor legs. "C" and "M", Belt or Motor Drive. "24" and "36" refer to max. center distance.

BELT DRIVEN LATHES

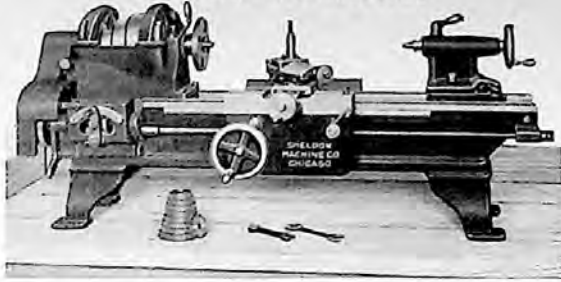


Figure 3 illustrates our Style GBC-24 Lathe.

Style	Code Word	Weight Crated	Net Factory Price
GBC-24	GAGE	435 lbs.	\$125.00
GBC-36	GAIN	460 lbs.	\$140.00
WBC-24	WAGE	440 lbs.	\$150.00
WBC-36	WAIL	470 lbs.	\$165.00

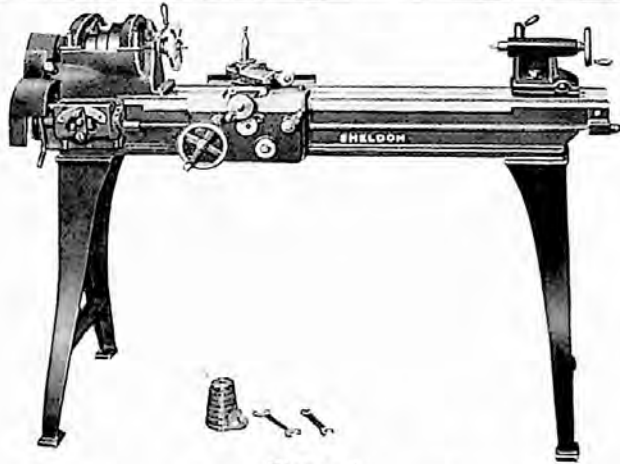


Figure 4 illustrates our Style WFC-36 Lathe.

Style	Code Word	Weight Crated	Net Factory Price
GFC-24	GATE	475 lbs.	\$135.00
GFC-36	GALE	500 lbs.	\$150.00
WFC-24	WEEK	485 lbs.	\$160.00
WFC-36	WELD	510 lbs.	\$175.00

STANDARD EQUIPMENT

Standard equipment for belt driven lathes consists of three step cone and single back gears, semi-quick change gear box with change gears for cutting 4 to 80 threads per inch, small face plate, compound rest with tool post, thread chasing dial, centers, necessary wrenches and plain countershaft with either tight and loose pulleys or V belt sheaves.

PLAIN COUNTERSHAFTS

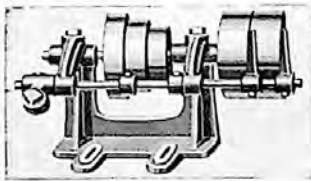


Fig. 5

Either style plain countershaft is furnished as standard equipment with belt driven lathes. Figure 5 has tight and loose pulleys 6 in. diameter for 2 in. belt. Figure 6 has a 10 in. diameter V belt sheave and a 2 1/4 in. diameter motor sheave suitable for 1/2 in. V belt.

Specify Style Wanted When Ordering.

DOUBLE FRICTION COUNTERSHAFT

Double Friction Countershaft is used for reversing the lathe spindle. Drive pulleys are 5 in. diameter for 2 in. belt. Double Friction Countershafts are not standard equipment.

Price—When furnished in place of plain countershaft .. \$15.00

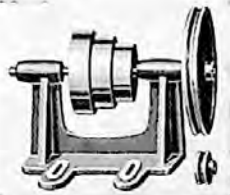


Fig. 6

TAPER ATTACHMENT

Taper Attachment can be attached to any Sheldon Lathe as all carriages are drilled and tapped to fit same. The swivel is graduated in both degrees and inches and turns all tapers up to 4 1/2" per foot.

Price—Complete \$45.00

DRAW-IN COLLET ATTACHMENT



Fig. 7

Draw-in Collet Attachment is very useful for general lathe work as well as light manufacturing. In our 11" Lathe collets (round) can be used up to and including 3/4" diameter. The complete draw-in attachment consists of draw-in bar with hand wheel attached, hardened and ground sleeve for spindle nose.

Price—Complete \$18.00

COLLETS

Fig. 8



The Collets we furnish for use in connection with the above attachment are carried on hand for either round, square or hexagon stock. They are very accurately made from high-grade tool steel, hardened and ground.

Price—Round Collets 1/64" to 3/4" inclusive, each ... \$3.00

Price—Square Collets 1/16" to 17/32" inclusive, each ... \$5.00

Price—Hexagon Collets 1/6" to 21/32" inclusive, each ... \$5.00

Note—Decimal and Metric sizes, also special step collets, can be furnished. Prices on request.

FOUR JAW INDEPENDENT CHUCK



Fig. 9

We recommend a 6" Four Jaw Independent Chuck for use on our 11" Lathes. The jaws are set independently as required for round or irregular work, either concentric or eccentric with the lathe spindle. Price includes chuck, wrench and attaching screws. Standard weight chuck.

Price—6" Four Jaw Independent Chuck \$20.00

THREE JAW UNIVERSAL OR SCROLL CHUCK

This chuck is very handy for general lathe work as it is self-centering. It is furnished with two sets of jaws for inside and outside chucking. We recommend the 5" size for our 11" Lathes. Standard weight chuck.

Price—5" with two sets of Jaws \$20.00



Fig. 10

CHUCK PLATES FOR LATHE CHUCKS

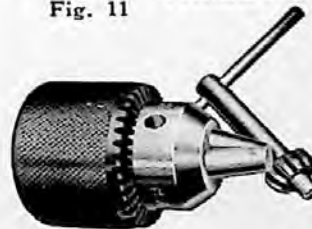
We are prepared to furnish and fit chuck plates for either of the above chucks as follows:

Price—Fitting Plate to Spindle Only \$4.00

Price—Fitting Plate to Spindle and Chuck \$6.50

THREE JAW DRILL CHUCK

Fig. 11



For use in tail-stock spindle; is very handy for drilling, reaming, etc.

Price—3/8" cap. less arbor \$3.50

Price—1/2" cap. less arbor \$5.25

Arbor for above50

MILLING AND KEYWAY CUTTING ATTACHMENT

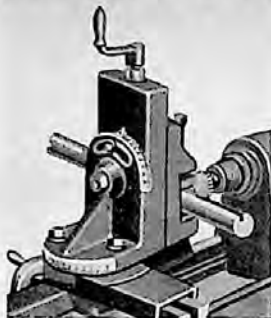


Fig. 12

The **Milling and Keyway Cutting Attachment** is very handy especially for small shops that do not have enough work of this kind to justify a regular milling machine.

It fits on the saddle of the lathe and swings in both horizontal and vertical planes and is graduated 180°. Vertical adjusting screw has a micrometer graduated collar.

Price—Complete \$40.00

ELECTRIC TOOL POST GRINDER

This **Electric Grinder** is a valuable addition to the equipment of any lathe. Can be used for grinding straight, taper or spiral work such as reamers, lathe centers, milling cutters, valves, etc.

Regular equipment consists of 1/4 HP motor, with switch, cord and plug, one 5"x1/2" grinding wheel for general work and attaching clamp.



Fig. 13

Price—Complete, 110 V, 60 C. single phase \$50.00
 Extra for 110 volt DC Current 6.00
 Extra Grinding Wheels 5" x 1/2", each 1.25

Wheel Dressing Fixture

Attaches to the end of the tail-stock spindle.

Price—Complete with diamond tool \$6.50

PISTON ADAPTER, CONE RINGS AND SKIRT REAMERS



Adapter Fig. 14 Driving Dog Fig. 15 Cone Ring Fig. 16 Reamer Fig. 17

The **Adapter** (Fig. 14) mounts directly in the taper hole in lathe spindle. It is self-centering and on the stub end mounts the **Cone Rings** (Fig. 16) and also the **Skirt Reamers** (Fig. 17). **Driving Dog** (Fig. 15) screws into the stub end of **Adapter** and is adjustable for all sizes of pistons. Pistons must have center hole in head.

Price—Adapter with Driving Dog \$7.50

CONE RINGS

No. C 2535—For Pistons 2 1/2" to 3 1/2" outside diameter... \$1.50
 No. C 3545—For Pistons 3 1/2" to 4 1/2" outside diameter... 2.00
 No. C 4555—For Pistons 4 1/2" to 5 1/2" outside diameter... 2.50

SKIRT REAMERS

No. R 2535—For Pistons 2 1/2" to 3 1/2" outside diameter... \$6.00
 No. R 3545—For Pistons 3 1/2" to 4 1/2" outside diameter... 7.50
 No. R 4555—For Pistons 4 1/2" to 5 1/2" outside diameter... 9.00

PISTON CENTERING RING

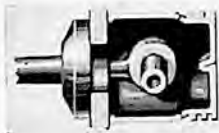


Fig. 18

The **Piston Centering Ring and Eye Bolt Driver** (Fig. 18) are used in connection with our **Piston Adapter** (Fig. 14 above) to hold the piston when drilling and centering it.

Price—Ring and Driver \$2.50

HEADSTOCK SPINDLE CHUCK

This chuck is made to fit directly on the threaded spindle nose of Sheldon Lathes and is very accurate and convenient. Its hollow construction permits chucking long rods. Excellent for holding gas engine valves for refacing, grinding, etc.



Fig. 19

Price—Capacity 1/8" to 5/8" \$12.00

SPECIFICATIONS

Swing over Bed	11 1/4"
Swing over Carriage Bridge	7"
Hole Through Spindle	1 1/8"
Front Spindle Bearing	1 1/8" dia. x 2 1/2"
Rear Spindle Bearing	1 3/8" dia x 2"
Centers—Morse Taper	No. 2
Spindle Nose Diameter and Threads per Inch	1 3/4"—8
Lead Screw Diameter and Threads per Inch	3/4"—8
Range of Threads per Inch	4 to 80
Tailstock Spindle Diameter	1 1/4"
Tailstock Spindle Traverse and Setover	3"—1 1/4"
Steady Rest Opening—Regular	3"
Carriage Length	11 3/4"
Carriage Bridge Width	3 3/4"
Compound Rest—Top Slide Travel	2 1/2"
Countershaft Drive Pulley Size	6" x 2 1/4"
Countershaft Speed	340
Size of Lathe Tool	3/8" x 7/8"
Speed of Head Spindle (6)	40 to 600
Width of Driving Belt	1 1/4"
Size of Motor Recommended	1/3 HP, 1725 RPM
Bed Lengths	3 1/2" and 4 1/2" ft.
Maximum Center Distance	24" and 36"

ACCESSORIES

Arbor—Drill Chuck	\$.50
Centers—Crotch	3.00
Centers—Cup	3.00
Centers—Half	3.00
Centers—Round	2.00
Centers—Spur	3.00
Centers—Square	3.00
Centers—Drill Pad	3.00
Centers—Screw Center for Wood Turning	3.00
Centers—Pipe—0 to 3" Capacity	6.00
Center or Steady Rest	6.00
Chasing Dial	5.00
Chasing Stop	2.00
Chuck Plate Fitted to Spindle Only	4.00
Chuck Plate Fitted to Spindle and Chuck	6.50
Collets—Round, Maximum Capacity 3/4"	3.00
Collets—Square, Maximum Capacity 17/32"	5.00
Collets—Hexagon, Maximum Capacity 21/32"	5.00
Countershaft, Double Friction	25.00
Draw-in Attachment with Adapter "Fig. 7"	18.00
Draw-in Attachment with Adapter "Lever type"	60.00
Face Plate, Large	5.00
Face Plate, Small	3.00
Follow Rest	3.00
Micrometer Carriage Stop	12.00
Milling Attachment	40.00
Motor Drive Arrangement, when furnished separately, including 1/3 HP Motor, Switch and Cord	45.00
Oil Pan without Pump or Piping—3 1/4" ft. Bed	20.00
With 4 1/2" ft. Bed	22.00
Pump with Pipe and Tubing	25.00
Rests—Compound—Less Tool Post	25.00
Rests—Plain—Less Tool Post	12.00
Rests—Hand Rest for Carriage for Wood Turning	6.00
Rests—Hand Rest for Bed for Wood Turning	10.00
Steady or Center Rest, Regular	6.00
Tailstock	25.00
Taper Attachment	45.00
Tool Post, Complete with Wrench	5.00
Turrets (Prices on Application)	

TOOL HOLDERS—3/8" x 7/8" Shank

No. O-S—Turning Tool, Straight Shank	\$2.35
No. O-R—Turning Tool, R. H. Offset	2.35
No. O-L—Turning Tool, L. H. Offset	2.35
Extra HS Steel Cutter Bits (for above) each15
No. 20—Cutting Off Tool, Straight	2.70
No. 30R—Cutting Off Tool, R. H.	2.70
No. 30L—Cutting Off Tool, L. H.	2.70
Extra HS Steel Cutters (for above) each65
No. 50—Threading Tool	3.35
Extra HS Steel Cutter (for above)	2.10
No. O-K—Knurling Tool	4.80
Extra Knurls (for above) per pair30
No. 8—Boring Tool	4.25
Extra HS Steel Bits (for above) each10
No. 12—Clamp Lathe Dog, Cap. 2 1/4"	2.40