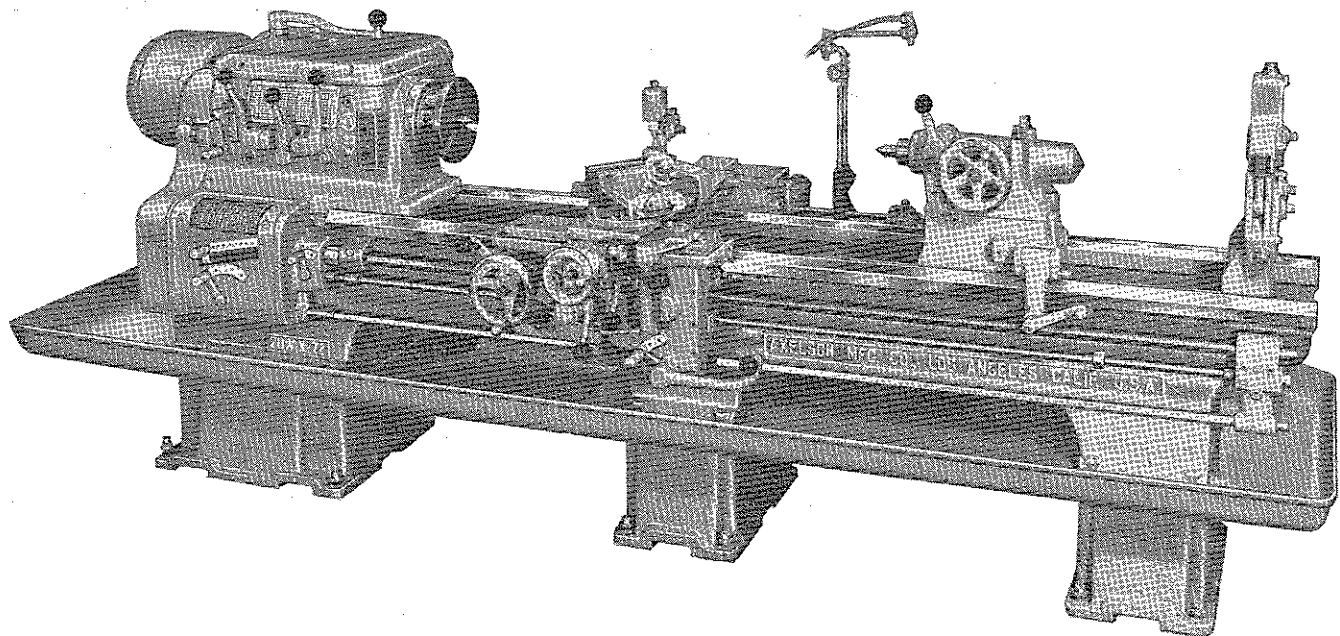


THE NEW AXELSON

20" MODEL W MEDIUM DUTY

ENGINE LATHE



**CONSISTENT ACCURACY
AND CONTINUOUS SERVICE**

The new Axelson 20-inch Model W Medium Duty Engine Lathe is built to the same high standards of quality that have made all Axelson engine lathes world-famous among men who know machine tools and who demand dependability and absolute accuracy under constant heavy service.

All castings, designed *right* and produced in Axelson's own foundry division, are subjected to rigid metallurgical control to assure complete stability of all critical dimensions.

Hardened and precision ground alloy steel gears maintain a smooth flow of power to the cutting tool.

Flame hardened and precision ground tool steel carriage bedways offer extreme year-after-year resistance to wear.

Direct drive, 24-speed headstock, together with precision quick-change gear box, provides a wide range of leads and feeds for any turning job.

Anti-friction bearings, plus automatic lubrication, give this Axelson lathe another outstanding advantage in the maintenance of smooth, rapid, trouble-free operation.

Contact your nearest Axelson Lathe Dealer for complete price information.

SEE REVERSE SIDE FOR COMPLETE SPECIFICATIONS

SPECIFICATIONS

AXELSON 20-INCH MODEL W MEDIUM DUTY ENGINE LATHE

Capacity

Swing over bedways and carriage wings	22 $\frac{1}{2}$ "
Swing over cross slide	13 $\frac{3}{4}$ "
Distance between centers, base machine, tailstock flush	48"
Permissible tailstock overhang	4"
Standard tool shank dimensions	$\frac{3}{4}$ " x 1 $\frac{5}{8}$ "

Dimensions

Bed length, nominal, base machine	8' - 0"
Bed length, actual, base machine	9' - 4"
Bed width	19 $\frac{1}{2}$ "
Bed depth	11 $\frac{3}{4}$ "
Height, floor to center line of spindle	43 $\frac{1}{8}$ "
Headstock ways (center to center)	10 $\frac{3}{8}$ "
Carriage ways (center to center)	16 $\frac{5}{8}$ "

Threading and Feed Capacity

Number of threads	54
Range of threads per inch	1 $\frac{1}{2}$ to 92
Number of feeds	54
Range of feed per revolution of spindle	0.0027" to 0.1665"
Diameter of lead screw	1 $\frac{5}{8}$ "
Lead screw threads per inch (Acme)	4
Diameter of feed rod	$\frac{7}{8}$ "
Width and pitch of rack	1 $\frac{1}{2}$ " - 10

Drive

Type of drive	Direct
Recommended hp of motor	10 to 15
RPM of motor, 60-cycle	1800

Tailstock

Length of bearing on ways	12 $\frac{3}{8}$ "
Diameter of tailstock spindle	2 $\frac{7}{8}$ "
Travel of tailstock spindle	9"
Maximum set-over toward operator	1"
Maximum set-over away from operator	1 $\frac{1}{4}$ "

Headstock

Spindle bearings (Timken Type O - Precision)	2 front; 2 rear
Spindle nose	D-1, 6" Camlock
Diameter of hole through spindle	1 $\frac{1}{8}$ "
Spindle speed range, std. (60-cycle)	13-1127 rpm
Number of spindle speeds	24
Centers, Morse taper	No. 4
*Diameter of face plate	22"
Diameter of drive plate	8 $\frac{1}{2}$ "
Length of bearing on bed	29 $\frac{3}{4}$ "

Carriage

Length of bearing on ways	26 $\frac{3}{4}$ "
Width of cross slide	8 $\frac{7}{8}$ "
Travel of cross slide	11 $\frac{3}{4}$ "
Width of tool slide	6 $\frac{1}{2}$ "
Travel of tool slide	4 $\frac{3}{4}$ "

*Taper Attachment

Length of taper turned at one setting	15 $\frac{1}{4}$ "
Maximum taper per foot (included)	4"
Maximum taper in degrees (with center line)	9 $\frac{1}{2}$ °

*Steady Rest

Capacity, standard	0 to 5"
Capacity, No. 1 oversize	5 $\frac{1}{2}$ " to 10 $\frac{1}{2}$ "
Capacity, No. 2 oversize	

*Follow Rest

Capacity	0 to 3 $\frac{1}{4}$ "
----------------	------------------------

Weight

Base weight, approximate	7200 lb.
--------------------------------	----------

Complete information on chucks and other accessories available upon request.

*Extra equipment.

STANDARD EQUIPMENT

- Hardened and ground tool steel bedways for carriage
- Hardened and ground headstock gears
- Anti-friction quick change gear box
- Forward and reverse clutch, with automatic hydraulic multiple disc spindle brake
- Unit motor-mounting arrangement (not including motor or electrical equipment)
- Tailstock: two spindle speeds; side handwheel, hardened and ground spindle
- Master milled lead screw
- Power cross and longitudinal feeds
- Angular steel compound rest (flat compound rest: 32" only)
- Automatic pressure lubrication of apron, carriage, cross slide, bedways

- Thread chasing dial
- Micrometer cross feed threading stop
- Spindle nose: American Standard, D-1, 6" Camlock
- Small face plate
- Two centers
- Standard tool post
- Necessary wrenches
- Service manual
- Drill tang drift slot in tailstock spindle
- Lock screw on carriage, cross slide and compound
- Mechanical apron control of spindle
- Visual oil gages
- Tailstock traverse bracket and crank
- Oil and grease gun
- 24 speeds in both forward and reverse

SPECIAL EQUIPMENT

Axelson manufactures the full range of accessory equipment for use with engine lathes. Axelson bulletin No. 4610, which describes the various accessories, is available on request.



AXELSON MANUFACTURING COMPANY

6160 SO. BOYLE AVE. (BOX 15335, VERNON STATION) LOS ANGELES 58, CALIF.