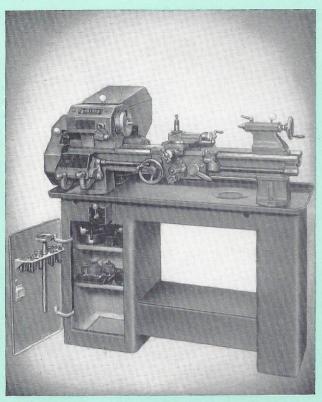




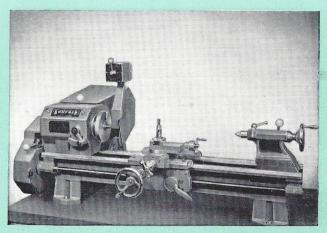
PRECISION

SWING LATHES

BOXFORD



Illustrated above is a Boxford Model A with cabinet base Model B is identical except for the Norton Gearbox



Boxford Model C illustrated as a bench machine

BOXFORD

Lathes Shaping Machines

Comparator Gauges



Designed for ease of operation, for accurate production over a wide range of work and economy in first cost, the BOXFORD LATHE has established an outstanding position in Industry, Education and Vocational Training and with Model Engineers. Years of good service are built into every lathe and only the minimum of maintenance is required.

The three inverted vee ways of the bed are an outstanding feature ensuring correct alignment of headstock, carriage and tailstock. The headstock spindle is mounted on opposed pre-loaded Timken taper roller bearings with provision for easy adjustment and lubrication and providing a range of 16 spindle speeds from 38 to 1,300 r.p.m.

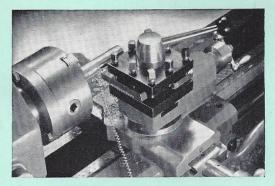
The carriage has exceptionally long bearings on the vee ways providing maximum support for the cutting tool. The compound rest is graduated 180° and swivels to any required angle. The cross slide and top slide leadscrews are fitted with ball thrust races. The micrometer dials are friction mounted to eliminate the necessity to set and lock the dials with a screw. The top slide is suitable for mounting most types of toolholders. All gib locking and adjusting screws are of the wedgelock type so locknuts are not necessary to lock the screws when adjusting the gibs.

The apron fitted to Models A and B is identical providing through the clutch and feed change lever longitudinal and cross power feeds. A half-nut lever is provided for the engagement of the leadscrew for screwcutting. The apron on the Model C is fitted with a half-nut lever only for engagement of the leadscrew for screwcutting and for longitudinal power feeds. The cross feed is hand operated.

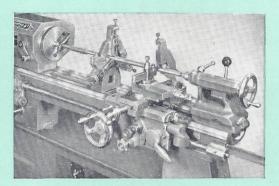
A Norton type gearbox is fitted to the Model A which enables 48 Screw threads to be obtained by movement of 2 levers. Models B and C are supplied with changewheels which cover a range of threads from 4 to 160 per inch.

The tailstock is of orthodox design with quick locking action and an engraved barrel for depth of drilling. It can be "set over" for turning slight tapers.

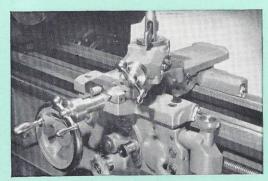
The motor mounted behind the headstock is fitted with a two-speed pulley which with the countershaft provides 8 direct speeds and a further 8 through the headstock back gear.



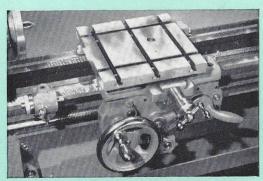
Square tool post



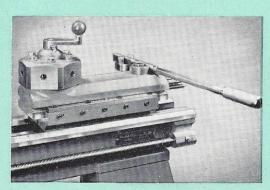
Fixed and travelling steadies



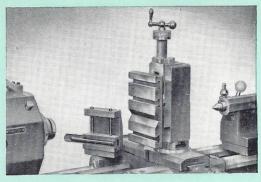
Thread cutting stop and thread dial indicator



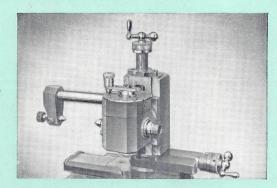
Boring table and micrometer stop



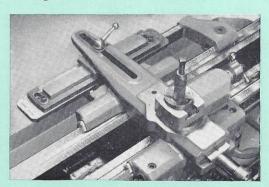
Turret head attachment



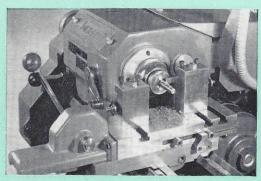
Compound milling attachment



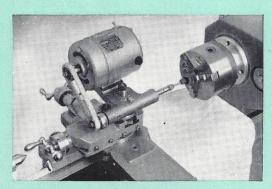
Dividing head attachment



Taper-turning attachment



Cut-off slide



Tool post grinder

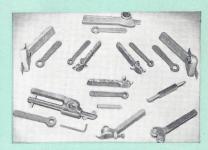
BOXFORD

Specifications

Model	Α	В	С
Height of centres Swing over bed	45" 91"	45" 91"	45" 91"
Distance between centres Bed length	16", 22" or 28" 36", 42" or 48"		
Swing over cross slide Maximum cross slide feed	5½" 6"	$\frac{5\frac{1}{8}''}{6''}$	$\begin{bmatrix} 5\frac{1}{8}'' \\ 6'' \end{bmatrix}$
Maximum top slide feed Set over of loosehead spdle	25" 5"	$\frac{2\frac{5}{8}''}{\frac{5}{16}''}$	$\frac{2\frac{5}{8}''}{\frac{5}{16}''}$
Spindle speeds	16	16	125
Spindle Speed Back-geared	75, 110, 175, 250		
Range	200, 285, 450, 650 400, 570, 900, 1300		
Spindle bored to pass Spindle nose diameter Spindle threads per inch	$\frac{\frac{3}{4}''}{1\frac{1}{2}''}$	$1\frac{\frac{3}{4}''}{8}$	$\frac{\frac{3}{4}''}{1\frac{1}{2}''}$
Morse taper centres Number of screw cutting	No. 2	No. 2	No. 2
threads Range of threads	48 4 to 224	45 4 to 160	45 4 to 160
Sliding feeds	.0015 to .0853	.0021 to	.0063 to
Surfacing feeds	.0004 to .0252	.0010 to	Feed Hand
Horse power	1/2	1/2	1/2
	lbs.	lbs.	lbs.
Weight—Nett (22" centres)	370	355	350
", Packed for shipment	490	475	470
Weight—Nett (28" centres) ,, Packed for shipment	380 510	365 495	360 490

Boxford A, B and C lathes are complete with the following standard equipment included with every lathe:—Single American Type Tool Post, Two Morse Taper Centres, Headstock Spindle Sleeve, Driver Plate, Oil Can, Spanners, Allen Keys and Instruction Manual.

An exceptionally wide range of work can be undertaken with the aid of the additional accessories which are available, some of which are illustrated on Pages 3 and 4.



Tool holders



Chucks



Draw bar and collets



Coolant pump



Various centres and pads

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