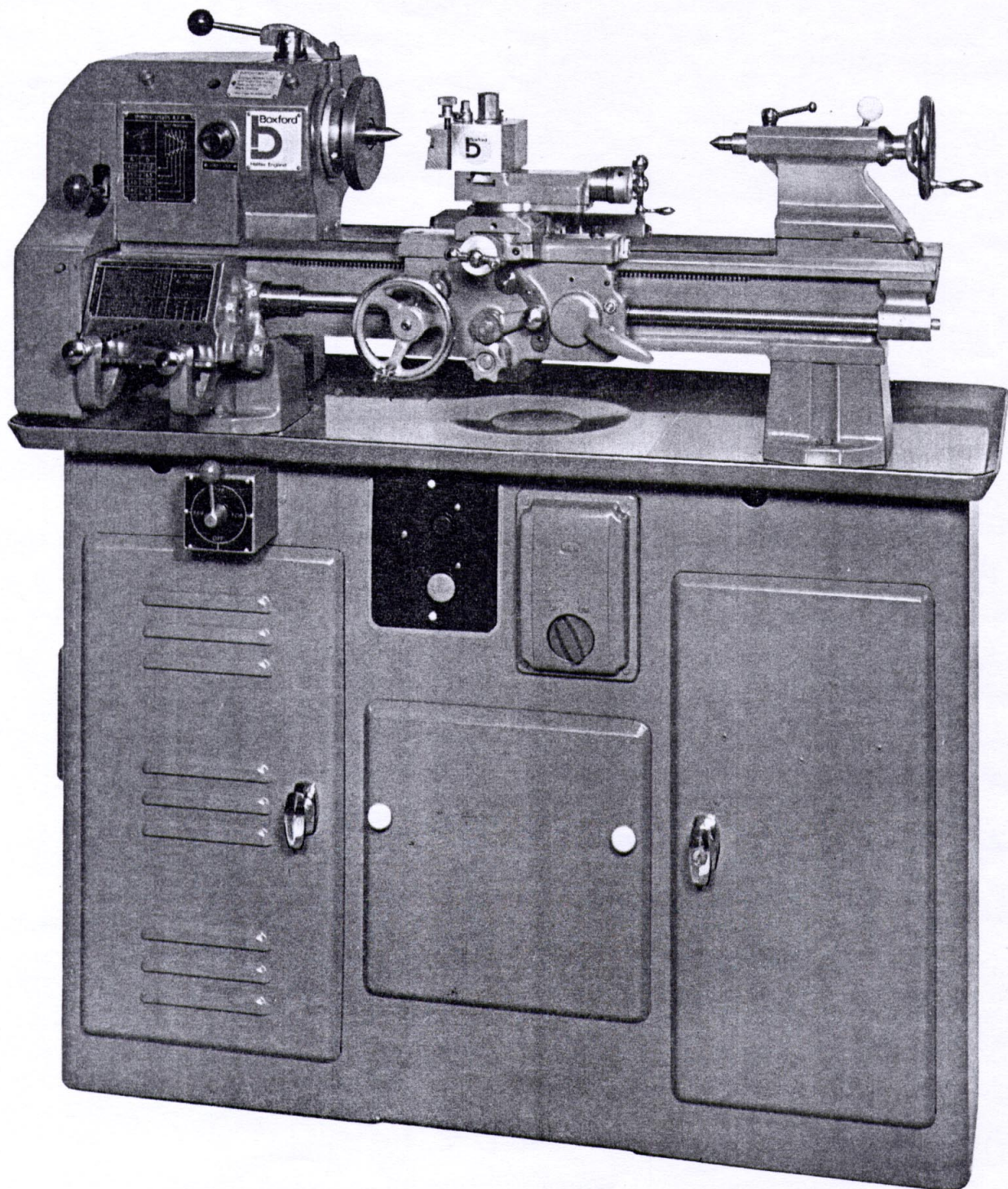


Boxford

Mark II Model AUD, BUD, CUD,
230mm (9") Swing, Precision
Underneath Drive Lathes



Illustrated is Model AUD, with Norton gearbox and fully automatic apron, Model BUD is identical except for gearbox, Model CUD has a plain apron and no gearbox.

BOXFORD lathes are used extensively in schools, colleges, Government departments and industry throughout ninety countries and have an undisputed reputation for accuracy, ease of operation, safety and trouble free service. Replacement parts are easily fitted due to unit construction and the interchangeability of component parts and assemblies. Safety features include as standard, mechanically and electrically interlocked single lever back gear, safety limit switches to guards and motor compartment door, coupled with overload and no-volt protection. A saddle limit switch is available as extra equipment along with a wide range of accessories to increase the versatility of these machines (see illustrated accessory leaflet on request.)

Boxford

203mm (9") Swing, Precision Underneath Drive Lathes

SPECIFICATION

	Metric Machine	English Machine
Centre height	117mm	4 $\frac{5}{8}$ "
Distance between centres	406, 560 or 710mm	16, 22 or 28"
Bed length	915, 1065 or 1220mm	36, 42 or 48"
Swing over bed	235mm	9 $\frac{1}{4}$ "
Swing over saddle wings	228mm	9"
Swing over cross slide	130mm	5 $\frac{1}{8}$ "
Centre height above tool slide	25mm	1"
Motor horsepower (standard)*	.56 kW	$\frac{3}{4}$ h.p.
Speed range (standard) (10)*	40-1400 r.p.m.	
Spindle nose diameter	38mm	1 $\frac{1}{2}$ "
Spindle nose thread	8 T.P.I. Whit form	
Spindle bored to pass	20mm	$\frac{3}{4}$ "
Spindle internal taper	No. 3 morse	
Spindle and Tailstock centres	No. 2 morse	
Tailstock travel	54mm	2 $\frac{1}{8}$ "
Tailstock set over	8mm	$\frac{5}{16}$ "
Cross slide travel	150mm	6"
Tool slide travel	66mm	2 $\frac{5}{8}$ "
Leadscrew thread	3mm Trapezoidal	8 T.P.I. Acme
* Alternative speed range of 55-2000 r.p.m. with .75kW (1 h.p.) drive is available as an extra.		

Range of Threads

Model AUD (52)	0.2-7.5mm	(48)	4-224 T.P.I.
Models BUD and CUD (35)	0.2-7.0mm	(45)	4-160 T.P.I.

Longitudinal Feeds

Model AUD (32)	0.07-1.08mm	(48)	.0015-.0853"
Model BUD (18)	0.05-0.397mm	(26)	.0021-.0155"
Model CUD (11)	0.05-0.40mm	(10)	.0063-.0156"

Cross Feeds

Model AUD (32)	0.02-0.3mm	(48)	.0004-.0252"
Model BUD (18)	0.014-0.115mm	(23)	.001-.0046"
Model CUD	Hand operated		

Weight of model AUD (22" centres)	263Kgs	580 lb
Weight packed for shipment	356 Kgs	785 lb

THE BED is of substantial width, having three vee ways and one flat way. The front and rear vees ensure accurate and easy travel of the saddle.

THE MAIN SPINDLE which is bored to pass 20mm ($\frac{3}{4}$ ") is mounted on opposed pre-loaded Timken Taper Roller bearings with provision for easy adjustment. A spindle lock is fitted at the front of the headstock.

THE HEADSTOCK PROVIDES 10 spindle speeds from 40-1400 r.p.m. (55-2000 r.p.m. available as optional extra). Direct vee-belt drive gives the five higher speeds whilst the five lower range speeds are obtained by a mechanically and electrically interlocked single lever back gear drive.

A NORTON TYPE GEARBOX is fitted to the Model AUD to provide quick changes of threads and feeds by movement of the two levers. Models BUD & CUD are supplied with change gears to cover a wide range of pitches. Gears for non-standard pitches and conversion sets for cutting metric pitches on English machines and English pitches on Metric machines are also available.

THE LONGITUDINAL AND CROSS SLIDE power feeds on models AUD & BUD are through a friction clutch in the apron with the drive from the combined leadscrew and feedshaft. The threads of the leadscrew are used only for screwcutting and engagement of the half-nuts is by a conveniently located lever. The apron on the model CUD is fitted with a half-nut lever only for engagement of the leadscrew for screw-cutting and for longitudinal power feeds. The cross feed is hand operated. The cross slide and top slide leadscrews are fitted with ball thrust races and the micrometer dials are friction mounted. The compound rest is graduated through 180° and the top slide is suitable for mounting most types of toolholders. All gib locking and adjusting screws are of the wedgelock type for easier adjustment when necessary.

THE TAILSTOCK is of orthodox design locating on the centre vee and front flat of the lathe bed. It can be "set-over" for turning slight tapers and has a lever at the rear for quick action locking. The barrel is graduated for control of depth when drilling and is self-ejecting for standard No. 2 Morse shanks.

THE CABINET BASE rigidly constructed, houses the motor immediately under the headstock. The countershaft is of substantial diameter and is mounted in deep groove ball bearings which are greased and sealed for life. Belt tension is quickly released by the eccentric lever fitted to the motor platform. A safety cut-out switch stops the motor immediately when the cabinet is opened. The centre compartment of the cabinet has a built in coolant tank while the right-hand compartment has shelves for storage of equipment and a rack for collets.

ELECTRICS .56 kW ($\frac{3}{4}$ h.p.) motor, push button starter incorporates overload and no-volt protection. A separate reversing switch is fitted.

BOXFORD model AUD, BUD & CUD lathes have as standard equipment:—Boxford Q.C. (Quick Change) Toolpost (other types available), Two Morse Taper Centres, Headstock Spindle Sleeve, Driver Plate, Oil can, Spanners, Allen Keys and Instruction Manual.

N.B. Machines can be supplied for either the Imperial (English) or Metric Systems.

The makers reserve the right to alter designs, specifications and prices without notice.