

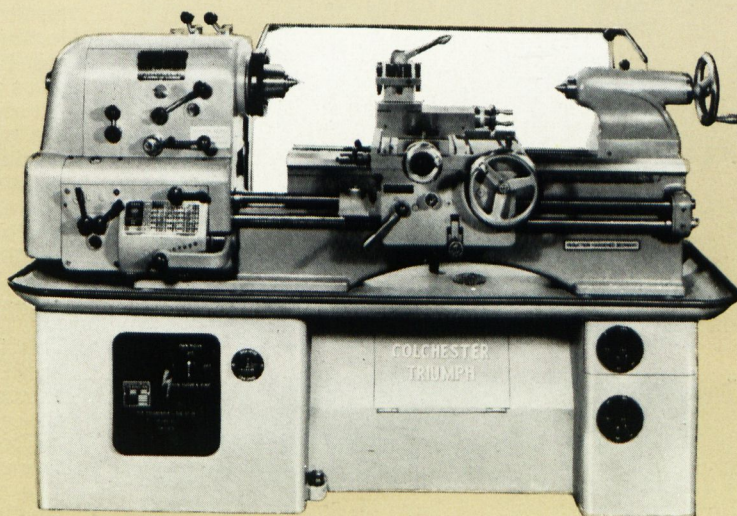


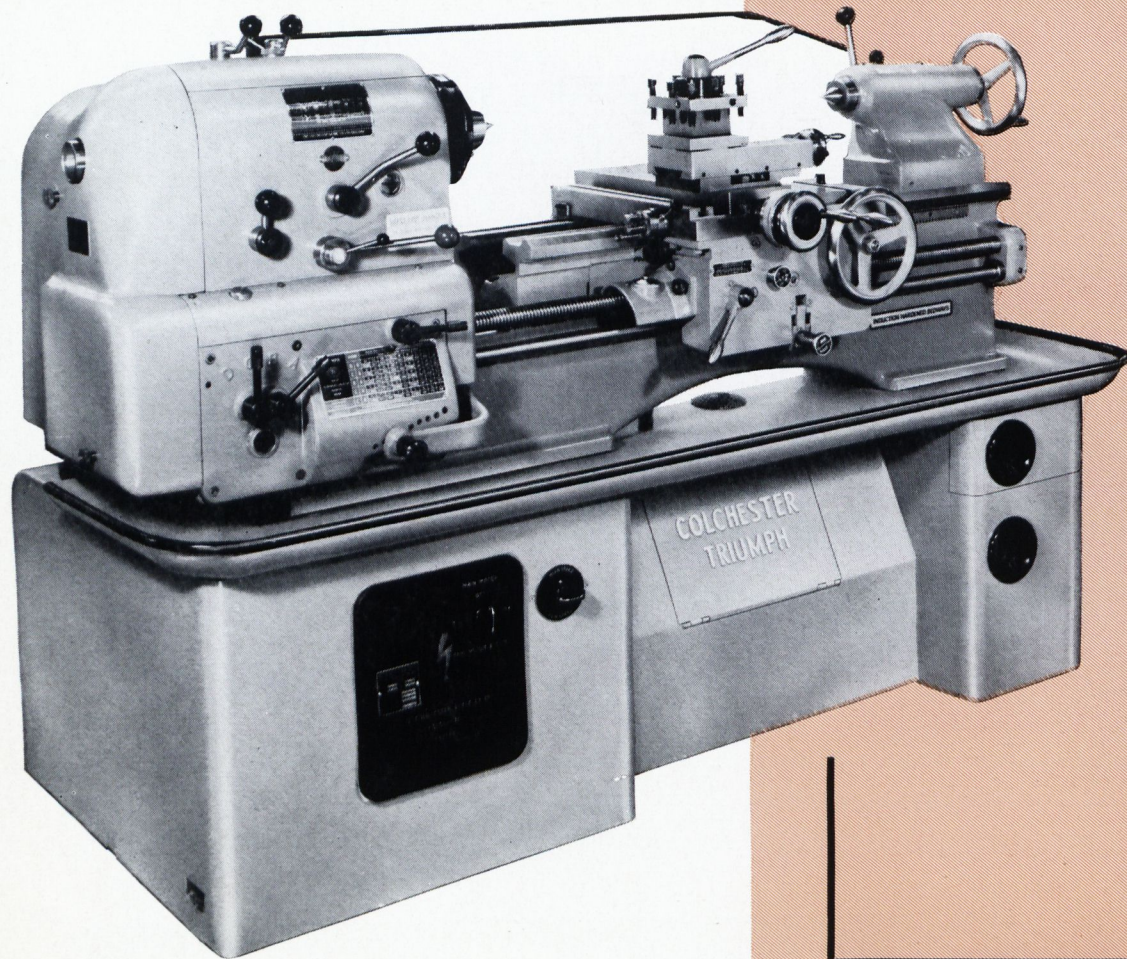
Registered Trade Mark

COLCHESTER

Triumph Heavy Duty Lathe

Colchester Triumph
7½ in. x 30 in. or 48 in.
(190 mm x 765 mm or 1220 mm)
Heavy Duty Lathe





COLCHESTER TRIUMPH

7½ in. x 30 in. or 48 in. (190 mm. x 765 mm. or 1220 mm.)
Heavy Duty Lathe

**GUARANTEED TO TURN
ROUND WITHIN ONE TENTH
OF A THOU! (0.0001 in.)**

Compare this with
the following:—
Schlesinger Finish Turning Lathe
0.0004 in.
Schlesinger Toolroom Lathe
0.0002 in.
American Toolroom Lathe
0.0003 in.

Available in two bed lengths the lathe has the accuracy, capacity and dependability for both toolroom and production applications.

- * Toolroom Accuracy
- * Gamet Micron-Precision Bearings
- * Large 2" Spindle Bore
- * 'Safti-Lok' Starting.

Accessories Specially Recommended

Series '300' Hydraulic copying attachment with adjustable slide comprising profile slide assembly, rear beam assembly and hydraulic power unit for 220/380/440/3/50 electric supply.

Colchester type No. 260 quick change toolpost complete with 4 standard toolholders, 1 vee holder, 1 morse taper holder and 2 wrenches.

9 in. dia. Burnerd 3-jaw geared scroll direct on spindle mounting chuck (no backplate required).

12 in. dia. Burnerd 4-jaw independent direct on spindle mounting chuck (no backplate required).

Burnerd 1½ in. capacity Key operated 'Multisize' Collet Chuck.

Flexible round bore collets for 'Multisize' Collet Chuck; each having ⅛ in. capacity in steps from 1/16 in. to 1½ in. (12 in full set).

5 position turret-type bed stop.

Electric coolant pump and fittings.

Telescopic taper turning attachment.

These are a selection of the many accessories available which are detailed in full in the price list.

Features

Bed

With all bearing surfaces precision ground and induction hardened the seasoned casting has separate vee and flat ways for the saddle and tailstock. The removable gap piece fitted to gap bed machines allows large diameters to be turned and gives maximum support when working close to the chuck. Alternative bed lengths giving 30" or 48" between centres are available; the latter may be mounted on legs or cabinet base, the former being available on cabinet base only. The cabinet is fitted with a lockable drawer and two shelf cabinet and contains the electrical wiring and panel. The cabinet centre portion forms a coolant storage tank and provides a mounting position for the coolant pump.

Headstock

The totally enclosed oil bath headstock with all its gears hardened and honed, gives eight spindle speeds 50-1,000 r.p.m. as standard, and sixteen spindle speeds 30-1,200 r.p.m. when a 2-speed motor is fitted. Speed selection is by two levers on the top of the headstock and one on the front; a fourth lever reverses the direction of the feeds. The 'Safti-Lok' starting and brake lever also operates the mechanical matrix clutch, when fitted. The spindle is made of high tensile steel with a hardened American type 'L1' taper nose, and is carried on GAMET Micron-Precision bearings.

Gearbox

There is a choice of three quick-change gearboxes—Standard, Dominion and Continental, which are designed to provide different ranges of threads and feeds. Full gearbox specifications are shown in the table on the back page of this leaflet. Drive to these totally enclosed oil-bath type gearboxes is through an all geared end train.

Saddle & Slides

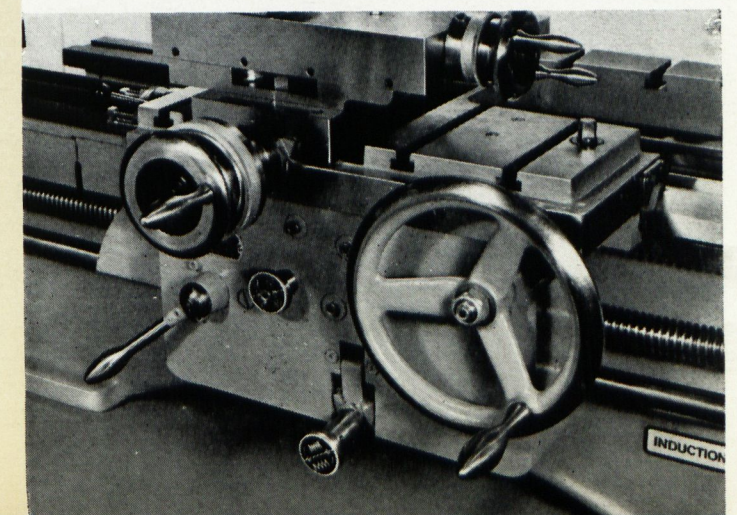
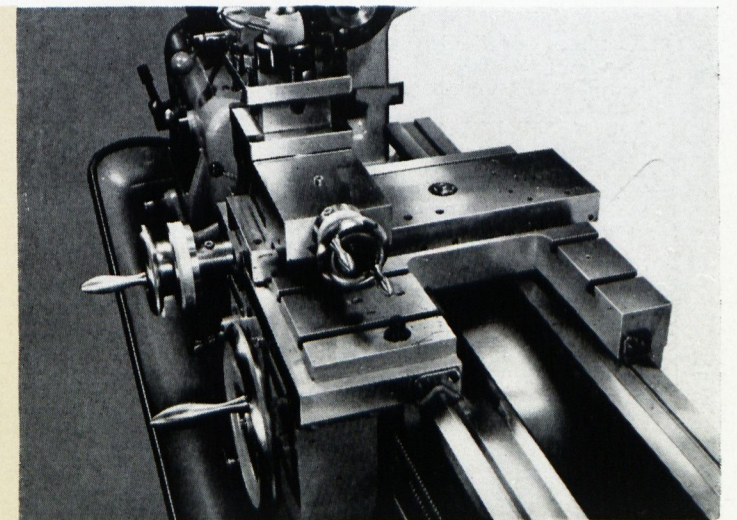
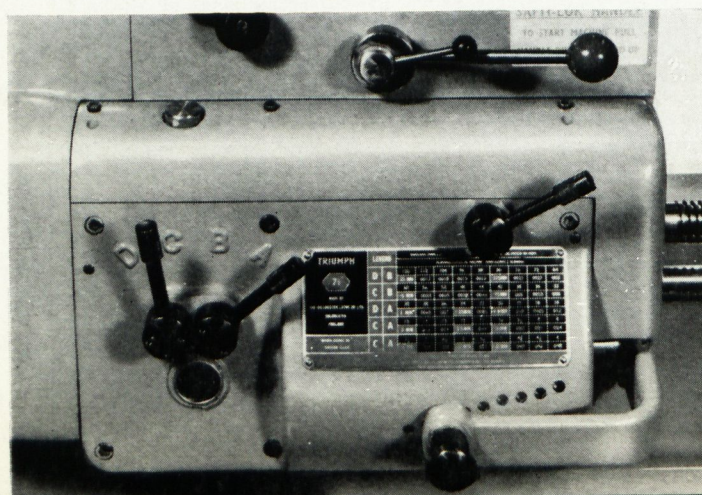
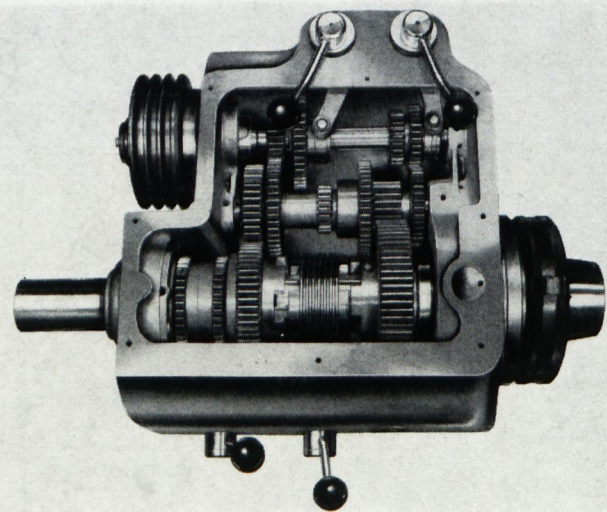
The saddle is of the boring type on gap bed lathes and the winged type on the straight version. It slides on separate vee and flat ways with long precision ground bearing surfaces to ensure stability under heavy cutting conditions. Bedway wipers are fitted as standard. The saddle is fitted with full width cross slide and on gap bed machines is pre slotted for work clamping. Micrometer dials are fitted to both traverse screws; metric dials optional at no extra charge.

Apron

The robust design of the double wall type apron gives each shaft two bearing supports. The patented knock-off wormbox allows finger tip, positive operation of the engaging lever and enables accurate working to stops for both sliding and surfacing feeds; it also protects the feedshaft and apron gears from overload. Sliding, surfacing and screwcutting motions are fully interlocked. A screwcutting dial is fitted to the apron on standard gearbox machines, but is not available on the Continental version.

Electrics

The safety electrical panel incorporates a no-volt release system and thermal overloads and is completely isolated from the main supply when removed from the cabinet or leg. The main switch controls both forward and reverse running of the motor. Provision is made on the control panel for the inclusion of a low-volt light transformer.



Colchester Triumph Specification

CAPACITIES OF ALL MODELS

	English	Metric		English	Metric
Height of centres	7½ in.	190 mm	Total travel of cross slide	8¾ in.	223 mm
Distance between centres	30 or 48 in.	762 or 1219 mm	Total travel of top slide	4¾ in.	121 mm
Swing over bed	15 in.	381 mm	Total travel of tailstock barrel	6¾ in.	171 mm
Swing over cross slide	8½ in.	216 mm	Taper in tailstock barrel	No. 4 M.T.	
Bore of spindle (max. bar Dia.)	2 in.	51 mm	Number of spindle speeds*	8 or 16*	
Spindle nose mounting	AMERICAN L1		Range of spindle speeds*	50-1000 r.p.m. or 30-1200 r.p.m.*	
Taper in spindle nose bush	No. 4 M.T.		Overall length of machine	74 or 92 in.	1880 or 2337 mm
GAP BED MODELS			Overall width of machine	38 in.	965 mm
Swing in Gap	24 in.	610 mm	Overall height of machine	50 in.	1270 mm
Width in front of faceplate	6 in.	152 mm			
Width of bedways	10 in.	254 mm	Drive	Vee belt	
Motor	5 h.p. 50 cycle		Weight	2184 or 2296 lb.	991 or 1042 kg.

* With 2 speed motor fitted

MODELS AVAILABLE

CODE WORD

- PUMA — Gap bed machine with quick change gearbox 30 in b/c
 LION (LYNX★) — Gap bed machine with quick change gearbox 48 in b/c
 HUSKY — Straight bed machine with quick change gearbox 30 in b/c
 MOOSE — Straight bed machine with quick change gearbox 48 in b/c

★ Leg Type Machine

TYPE OF GEARBOX	STANDARD	CONTINENTAL	DOMINION
PITCH OF LEADSCREW	4 t.p.i.	6 mm	4 t.p.i.
THREADS:—			
Number of metric pitches	12	31	†
Range of metric pitches	0.25 mm to 6 mm	0.3 mm to 12 mm	†
Number of Whitworth threads	45	32	45
Range of Whitworth threads	4-120 t.p.i.	2.5-60 t.p.i.	4-112 t.p.i.
Number of Module pitches	—	16	—
Range of Module pitches	—	0.3 to 3.0 mod	—
FEEDS:—			
Number of sliding and surfacing feeds shown	45	12	45
Range of sliding feeds	0.0017 in.—0.048 in.	0.04 mm—0.53 mm	0.0017 in.—0.048 in.
Range of surfacing feeds	0.0008 in.—0.024 in.	0.02 mm—0.25 mm	0.0008 in.—0.024 in.

† When Dominion Gearbox is fitted no metric pitches are available, but 11½ and 23 t.p.i. are included in the range of Whitworth threads.

Every Machine is supplied with the Following Standard Equipment:—

Triangular Type Toolholder · Finger-tip electrical reversing switch · Patented feed cut-out device · Two-tone colour finish · Faceplate · Driving plate · Two No. 4 Morse taper centres · Centre bush · Thread indicator (On Standard machines only) · Bedway wipers · Travelling steady · Full length splash guard (Cabinet models only) · Chip and water tray · Electrical equipment for standard 50-cycle, 3-phase, A.C. supply · Set of spanners and keys · Spare parts and operator's manual · Accuracy chart

Illustrations and specifications are not binding in detail. The designs are subject to modification and improvement without notice.

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