

COLCHESTER MASCOT 1600



8½in x 40, 60, 80 or 100in (215mm x 1, 1.5, 2 or 2.5m)

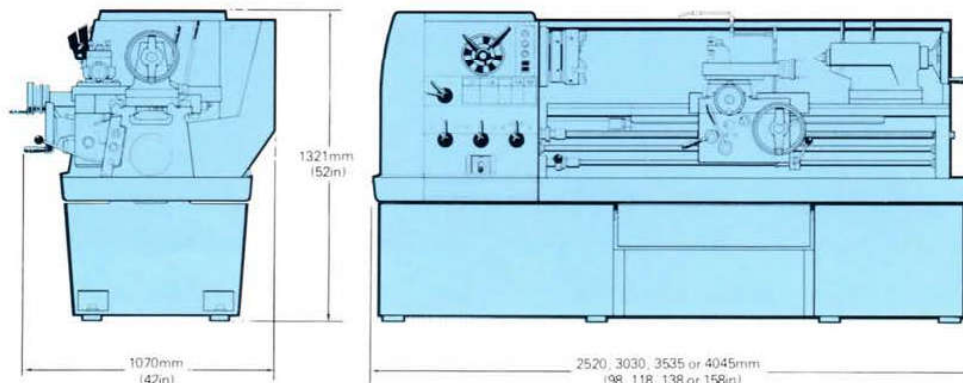


THE 600 GROUP



COLCHESTER MASCOT 1600

- 16 spindle speeds, 20 – 1600 r.p.m.
- 12.5 h.p. (9.3kw) motor
- 8in D.1 Camlock spindle nose mounting
- Induction hardened and precision ground bed
- Bed lengths 40, 60, 80 or 100in (1, 1.5, 2 or 2.5m) between centres





Headstock

- Hardened and Reishauer-ground gears on main transmission
- Multi-plate clutches
- Rapid stopping 'Matrix' brake
- Spindle mounted on Gamet micron precision machine tool spindle bearings guaranteeing roundness accuracy better than 2 microns
- Electromagnetic spindle brake

Gearbox

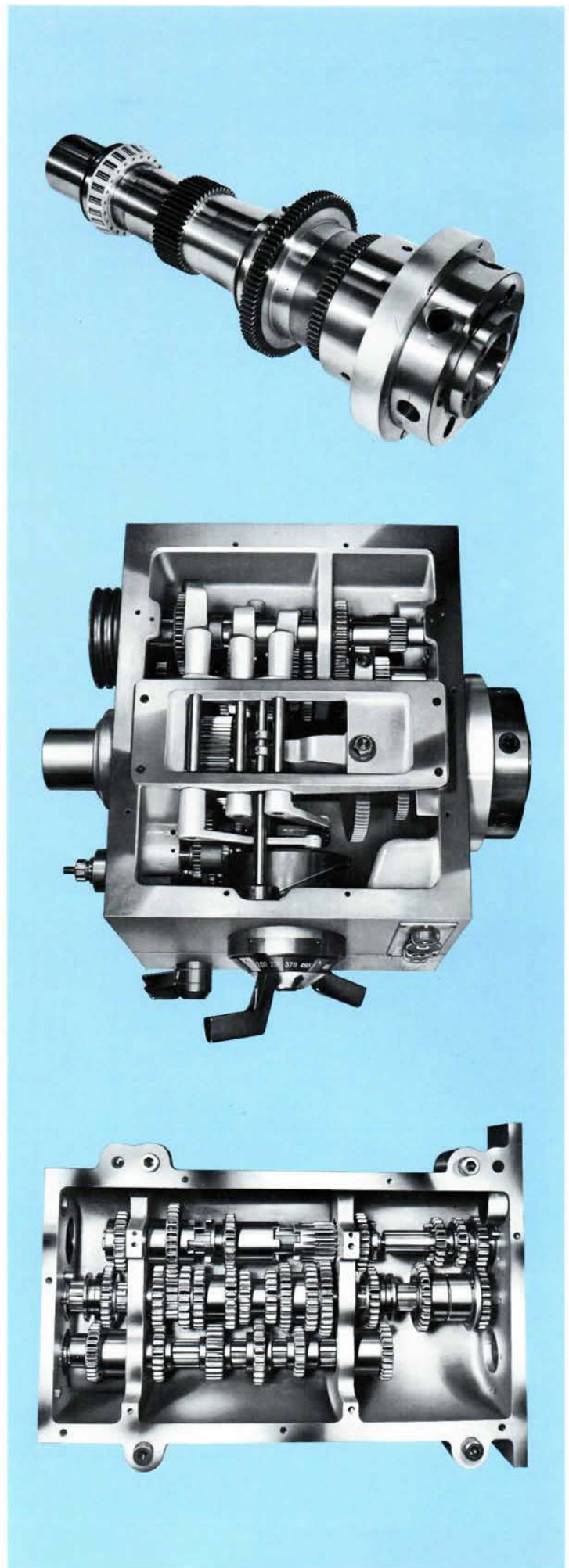
- Totally enclosed Universal gearbox
- Sliding gear principle optimises 'through power' and minimises wear
- Hardened gears and clutches

Apron

- Totally enclosed oil bath, double wall apron
- Automatic feed trip
- Feed reverse plunger
- Handwheel disengages for rapid screwcutting

Saddle and Slides

- Micrometer dials reading 0.02mm (0.001in) fitted to top and cross slides
- Cross slide nut incorporates backlash eliminator
- Bedway wipers fitted as standard



Specification



COLCHESTER[®] MASCOT 1600

Height of Centres	8½in (215mm)	Width of Bedways	13½in (343mm)
Swing over bed	17in (433mm)	Total travel of cross slide	11in (279mm)
Swing over cross slide	10½in (267mm)	Total travel of top slide	6in (152mm)
Spindle bore (max. bar dia.)	3in (76mm)	Total travel of tailstock barrel	9in (229mm)
Spindle nose mounting	8in D1 camlock	Number of spindle speeds	16
Taper in spindle nose bush	No. 5 Morse	Range of spindle speeds	20-1600 r.p.m.
Taper in tailstock barrel	No. 5 Morse	Overall width of machine	42in (1070mm)
GAP BED MODELS		Overall height of machine	52in (1321mm)
Swing in gap	28in (711mm)	Drive	Vee belts and clutches
Width in front of faceplate	8½in (216mm)	Motor	12½hp (9.3kw)
THREADS		FEEDS	
No. of Whitworth threads	38	Range of sliding feeds per rev. of spindle	0.002in – 0.032in (0.06mm – 1.0mm)
Range of Whitworth threads	2-72 t.p.i.		
No. of Diametral pitches	27	Range of surfacing feeds per rev. of spindle	0.001 – 0.016in (0.03mm – 0.5mm)
Range of Diametral pitches	8-60 D.P.		
No. of Metric pitches	40		
Range of Metric pitches	0.4-14.0mm		
No. of Module pitches	18		
Range of Module pitches	0.3-3.5 mod.		

STANDARD EQUIPMENT (unless otherwise specified). Slotted toolblock – Driving plate – Centre Bush – Two No. 5 Morse Taper centres – Thread indicator – Electrical equipment for standard 3 phase 50 cycle A.C. supply, 110v control – Set of spanners and keys – Electric coolant pump, tank and fittings – Splash guard – Instruction and spare parts manual – Accuracy chart – 315mm 3 Jaw Chuck – 405mm 4 Jaw Chuck – Emergency Stop Button – Lockable isolator switch – One shot saddle lubrication – Spindle Brake – Chuck guard.

Models available

Code Word	Bed Type	Distance between Centres	Overall Length of Machine	Weight
MASCOT 1600 40-straight	straight	40in	98in	4960lb
MASCOT 1600 40-gap	gap	1000mm	2520mm	2130kg
MASCOT 1600 60-straight	straight	60in	118in	5020lb
MASCOT 1600 60-gap	gap	1500mm	3030mm	2280kg
MASCOT 1600 80-straight	straight	80in	138in	5350lb
MASCOT 1600 80-gap	gap	2000mm	3535mm	2430kg
MASCOT 1600 100-straight	straight	100in	158in	5930lb
MASCOT 1600 100-gap	gap	2500mm	4045mm	2690kg

PRODUCT CODE

Each model is available in the following versions

STANDARD METRIC

With English pitch leadscrew; dial graduations in inches.
With Metric pitch leadscrew; dial graduations in millimetres.

For increased versatility, use

COLCHESTER ACCESSORIES

Finish cut hydraulic profiling attachment
High speed threading attachment · Tele-
scopic taper turning attachment · Dual
Reading Dials · TOOLPOSTS: Four-way
Automatic indexing or Quick-change ·
REAR TOOLPOSTS: Standard or Quick-
change · Stationary Steady · Travelling
Steady · BEDSTOPS: Single, Five-position
Longitudinal or Micrometer type · GMT
Rotating centre · Face plates, 20in dia. or
27in dia. (for gap bed lathes) · Chip guard
Low volt lighting unit.

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

Illustrations and Specifications are not binding in detail. The designs are subject to modifications and improvements without notice.
© The 600 Group PLC 1985 Printed in England CLC/0001/5464/185/3M/LP



Colchester

The Colchester Lathe Company Ltd

Elmstead Road, Colchester
Essex CO4 3SE, England
Telephone: 0206 865161
Telex: 98255 (Lathes G)
Fax: 0206 868026

THE 600 GROUP