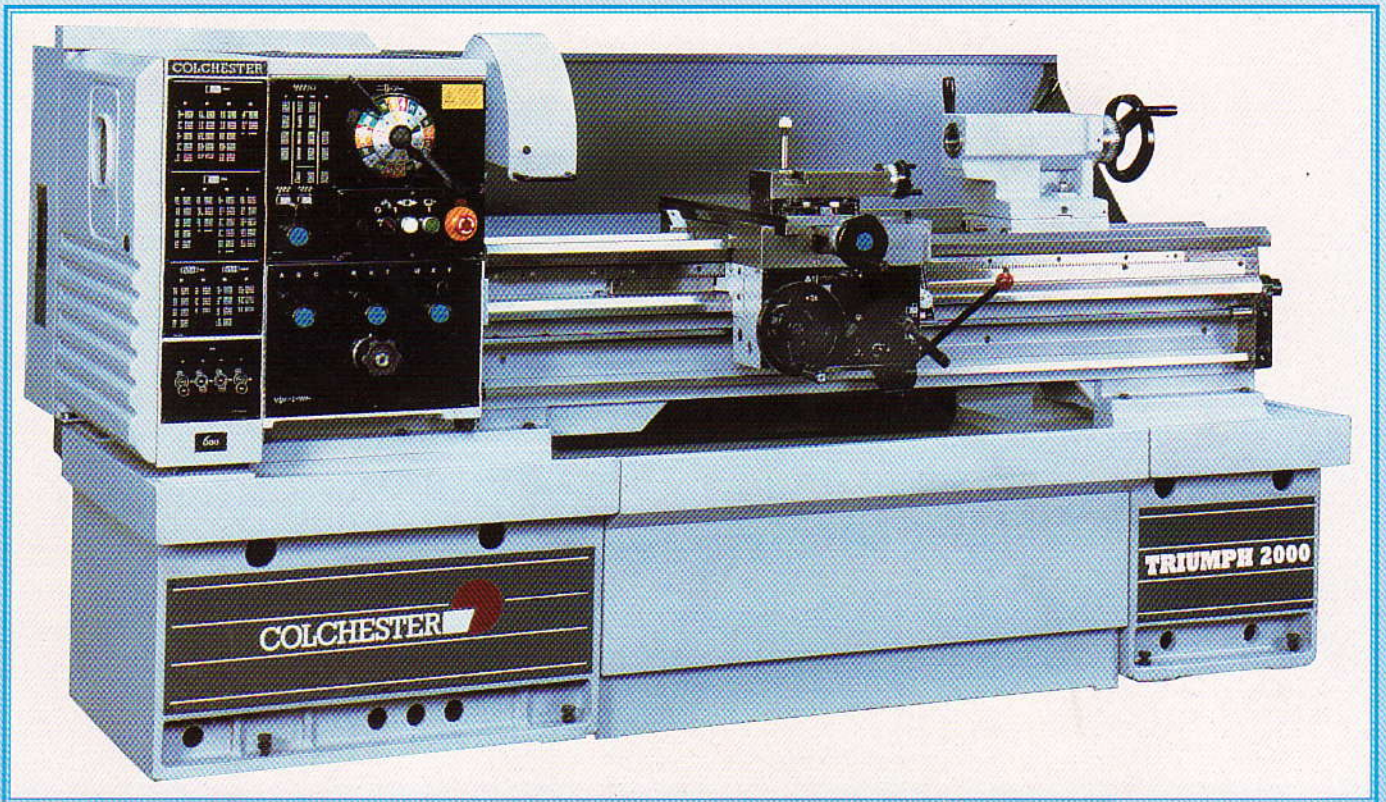




Colchester

The Colchester Lathe Company



TRIUMPH 2000

THE 600 GROUP

A GEARED HEADSTOCK PRECISION LATHE DEMANDS OF THE MODERN MACHINE SHOP

The Colchester Triumph 2000 geared headstock centre lathe affirms Colchester's continuing development of lathe technology, providing an outstanding example of precision machine tool engineering.

Excellent rigidity, heavy duty construction, wide slideways and expansive speed selection are just some of the Triumph 2000's new design features.

The Triumph 2000 is *the* centre lathe to meet the productivity demands of today's machine shop, when return on investment and cost-effective utilisation are vital.

Key Features

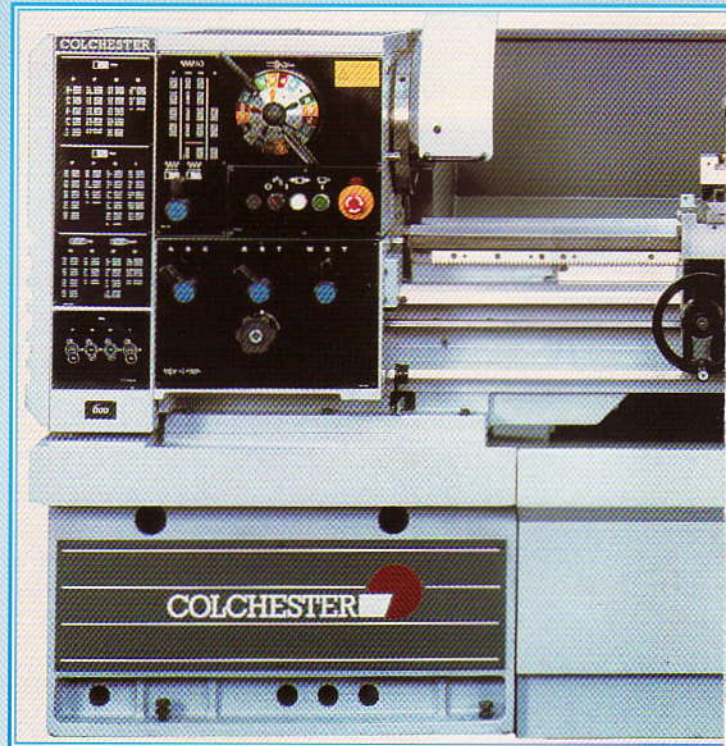
- Heavy duty construction
- Wide bed for higher rigidity and stability
- 3 phase AC motor with vee belt drive to headstock
- Smooth, quiet, power transmission through hardened and ground headstock gears
- Speeds arranged in geometric progression from 25 to 2000 rpm
- Straight-through bed, bonded and bolted to heavy duty, cast iron base
- Separate bedways for saddle and tailstock, induction hardened and precision form ground

Apron, Saddle and Slides

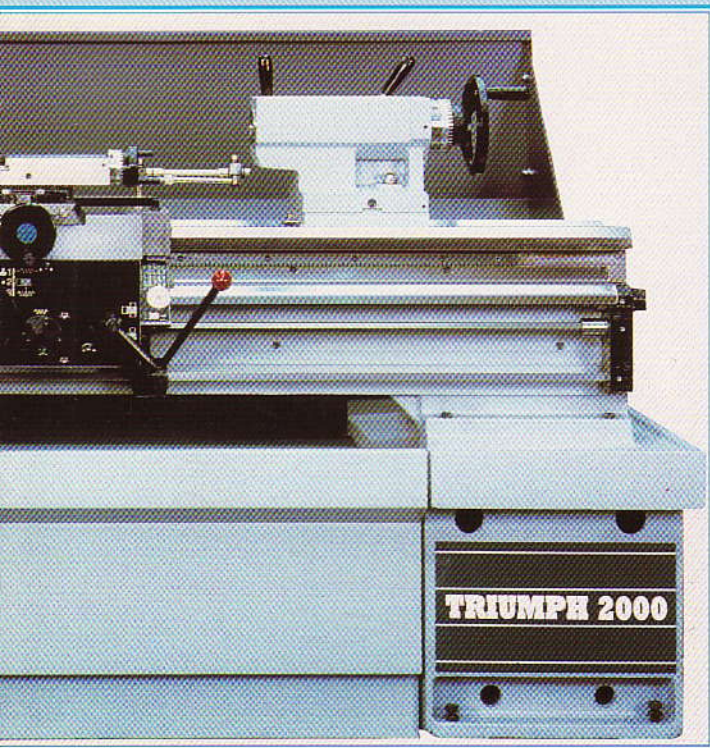
- The cross slide runs along a dovetail guideway for optimum precision and both saddle and cross slide are provided with adjustable gib strips.
- For heavy cutting either the saddle or cross slide can be locked and anti backlash adjustment is provided on the cross slide nut.
- Bedway wipers and an apron mounted one shot lubrication pump provided as standard.
- The cast iron apron is totally enclosed and splash bath lubricated.
- Full length leadscrew cover.

Quick Change Gearbox

- Metric, Inch, Module and D.P. pitches are available.
- Leadscrew reversing box gives reversal of leadscrew mechanism for faster thread cutting
- Extensive range of feeds and threading speeds further expandable by use of speed changewheels
- Universal gearbox enables quick and easy selection of metric or imperial feedrates and thread pitches



PRECISION LATHE TO MEET THE MODERN MACHINE SHOP



All Geared Headstock

- The spindle is mounted in heavy duty Gamet precision type roller bearings offering a high radial load capability together with a roundness accuracy of 5 microns.
- Chucks and holding fixtures are quickly changed using the 100mm (4") D1-6 Camlock mounting which is hardened and ground. The all geared headstock gives 16 spindle speeds in geometric progression from 25 to 2000rpm.
- Camlock nose for fast, accurate and easy change of spindle workholding equipment
- Easy to understand headstock mounted speed threading and feed charts

Bed and Base

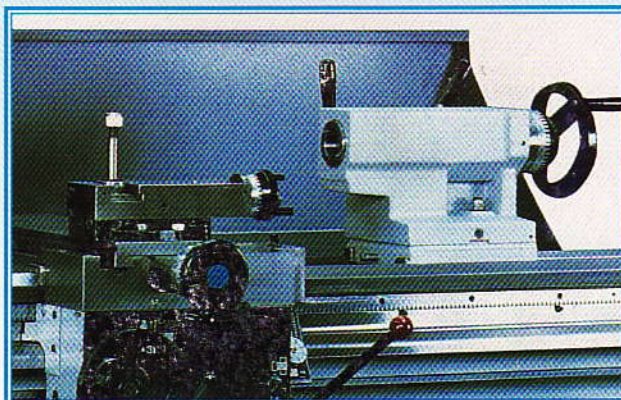
- The bed is manufactured from close grained cast iron which is induction hardened and ground.
- Large capacity wheeled swarf bin for rapid swarf clearance and easy disposal
- Rigid 318mm (12.5") wide bed with triangular webs for excellent stability, high torsional stiffness and swarf clearance
- Heavy duty tailstock with micrometer dial on hand wheel and dual reading graduations on large diameter cam locking quill

Safety Features

- Ergonomically designed controls, simple to operate and safe to use
- Exceeds all international safety standards including the latest European CE requirements
- Electrically interlocked chuck guard and hinged changewheel guard
- Apron safety interlock to prevent simultaneous engagement of feed and threading facilities

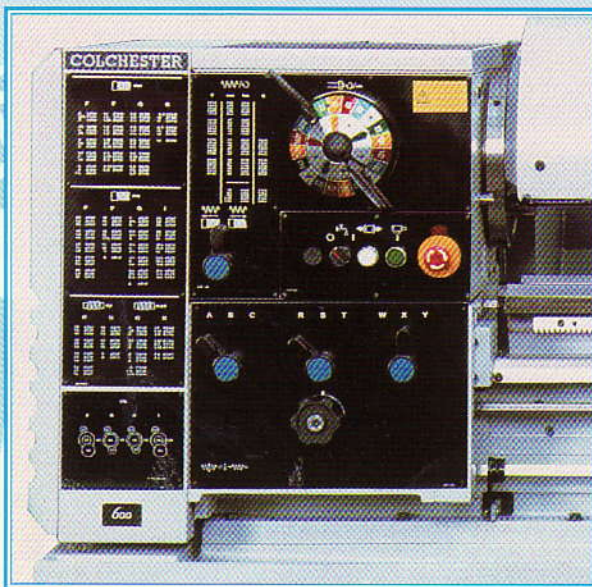
Extra Versatility

- Extensive range of accessories and attachments including taper turning, hydraulic copying, chucks, collets, faceplates, tooling and steadies



CAPACITY AND SPECIFICATIONS

Height of Centres	195mm (7 ³ / ₈ "
Bed Length, Between Centre	1250mm (50")
Swing over Bed	400mm (15 ³ / ₄ "
Swing over Cross Slide	246mm (9 ⁵ / ₈ "
Swing in Gap	585mm (23")
Length of Gap in front of Faceplate	165mm (6 ¹ / ₂ "
Spindle Bore	54mm (2 ¹ / ₈ "
Spindle Nose Mounting	D1 - 6 Camlock
Morse Taper in Nose Bush	No. 4 MT
Number of Spindle Speed Ranges	16
Range	25 - 2000rpm
Motor	5.5kW (7 ¹ / ₂ HP)
Number of English Pitches	56
Range of English Pitches	from 2 to 56 TPI
Number of Diametral Pitches	20
Range of Diametral Pitches	from 8 to 56 DP
Number of Metric Pitches	51
Range of Metric Pitches	from 0.2 to 14mm Pitch
Number of Module Pitches	20
Range of Module Pitches	from 0.2 to 3.5 MOD
Width over Bedways	318mm (12 ¹ / ₂ "
Travel of Cross Slide	250mm (9 ⁷ / ₈ "
Travel of Top Slide	130mm (5 ¹ / ₈ "
Tailstock Quill Travel	140mm (5 ¹ / ₂ "
Taper in Tailstock Barrel	No. 5 MT
Weight	1500kg (3305lbs)



Standard Equipment

- Centre Bush
- Spanners, Keys and Oil Gun
- Thread Indicator
- 2 MT Centres
- Instruction & Machine Manual
- Standard Accuracy Chart
- Splash Guard
- Electric Coolant Pump, Tank Fittings
- Interlocked Chuck Guard.
- Full Length Footbrake
- 3 Jaw Chuck*
- 4 Jaw Chuck*
- Quick Charge Toolpost*
- Covered Leadscrew

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