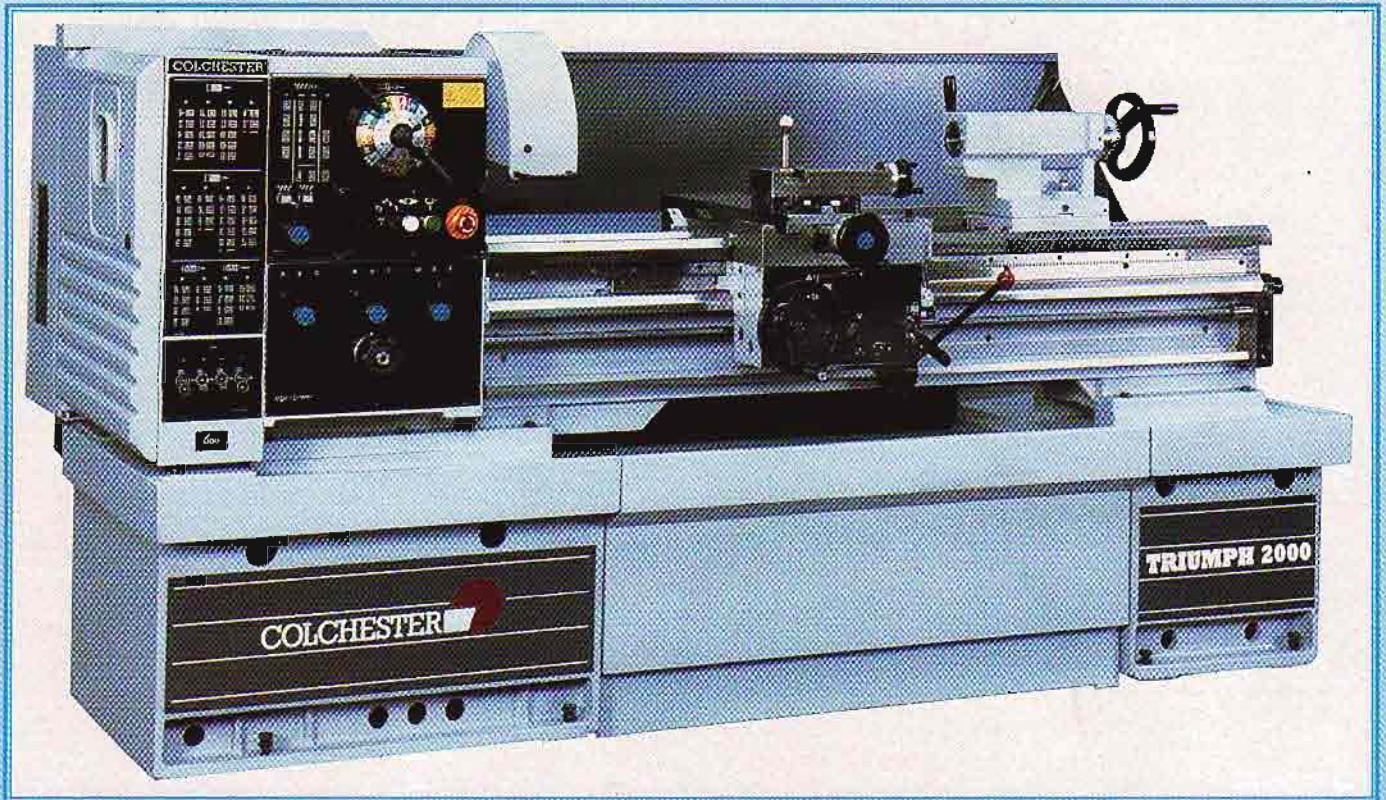




# Colchester

The Colchester Lathe Company



**TRIUMPH**  
**2000**

THE 600 GROUP

# A GEARED HEADSTOCK PRE DEMANDS OF THE MO

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

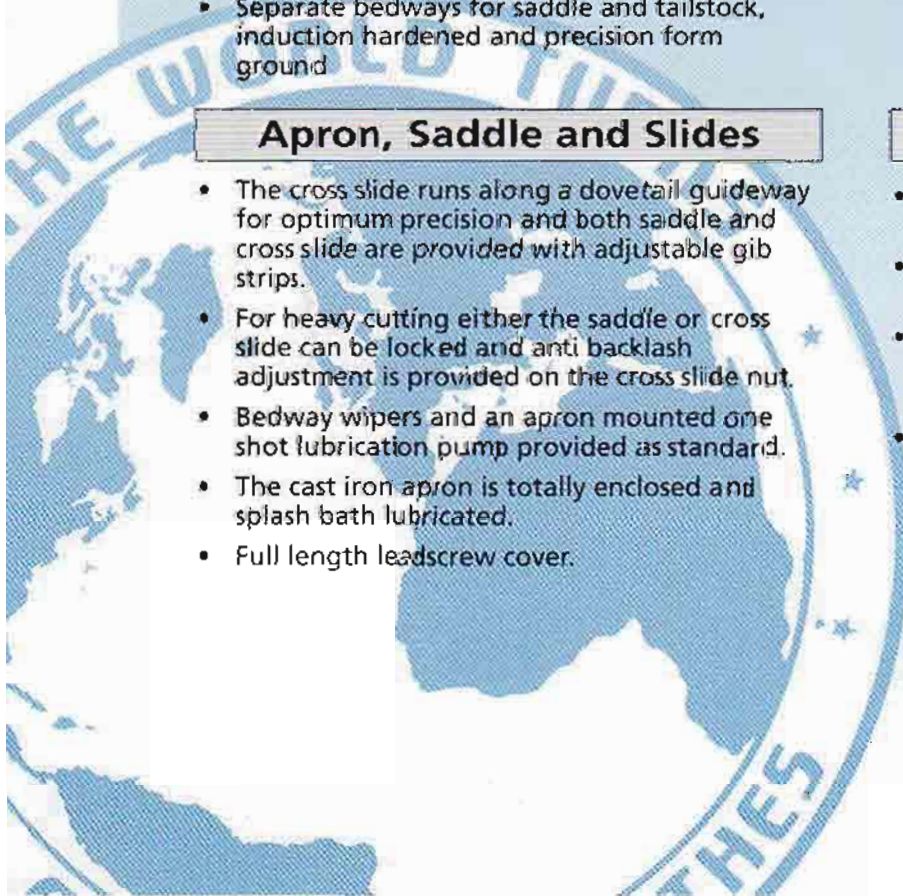
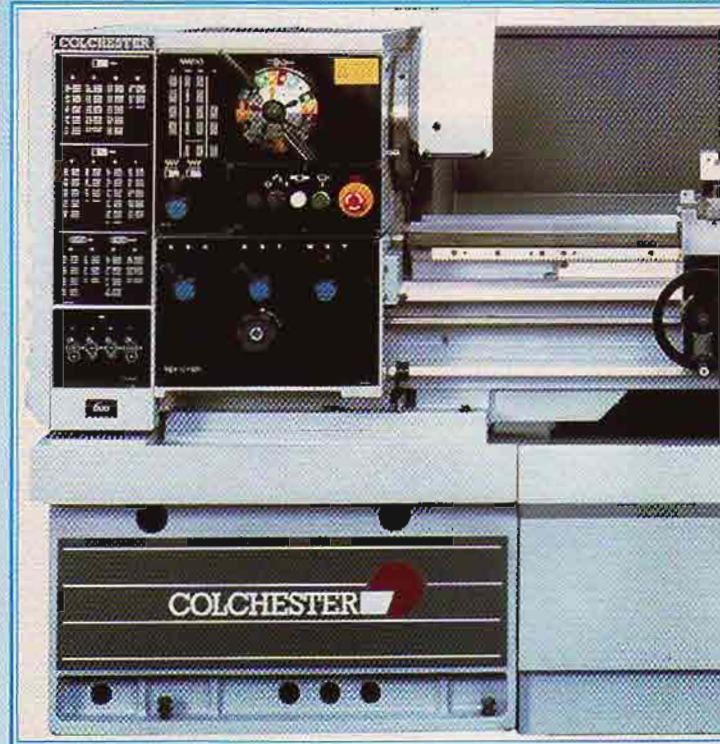
- Heavy duty construction
- Wide bed for higher rigidity and stability
- 3 phase AC motor with vee belt drive to headstock
- Smooth, quiet, power transmission through hardened and ground headstock gears
- Speeds arranged in geometric progression from 25 to 2000 rpm
- Straight-through bed, bonded and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

## Apron, Saddle and Slides

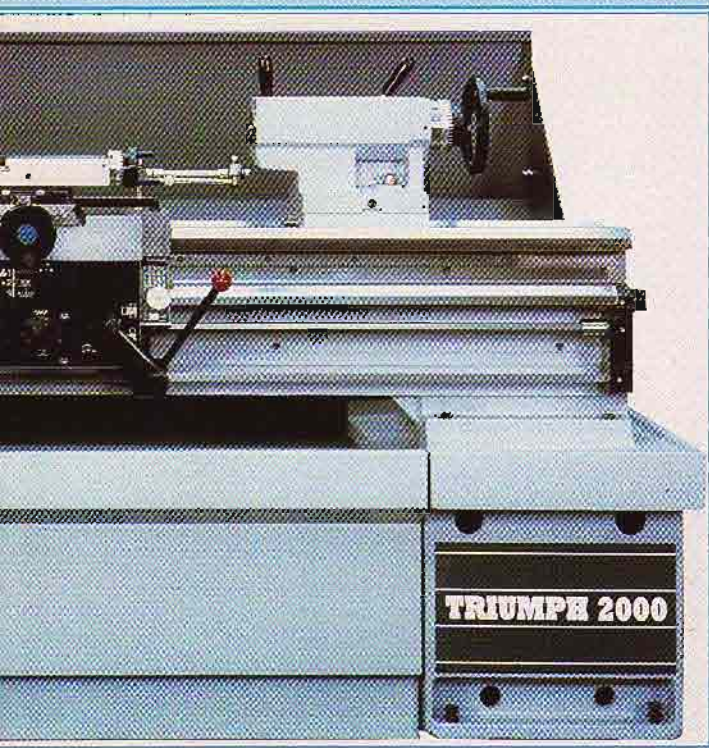
- The cross slide runs along a dovetail guideway for optimum precision and both saddle and cross slide are provided with adjustable gib strips.
- For heavy cutting either the saddle or cross slide can be locked and anti backlash adjustment is provided on the cross slide nut.
- Bedway wipers and an apron 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

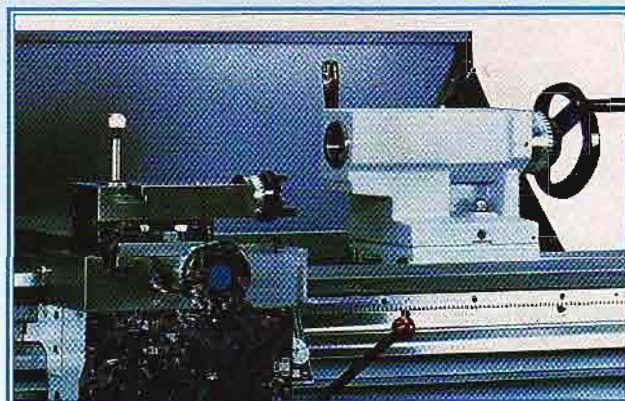
- The bed is manufactured from close grained cast iron which is induction hardened and ground.
- Large capacity wheeled swarf bin for rapid swarf clearance and easy disposal
- Rigid 318mm (12.5") wide bed with triangular webs for excellent stability, high torsional stiffness and swarf clearance
- Heavy 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

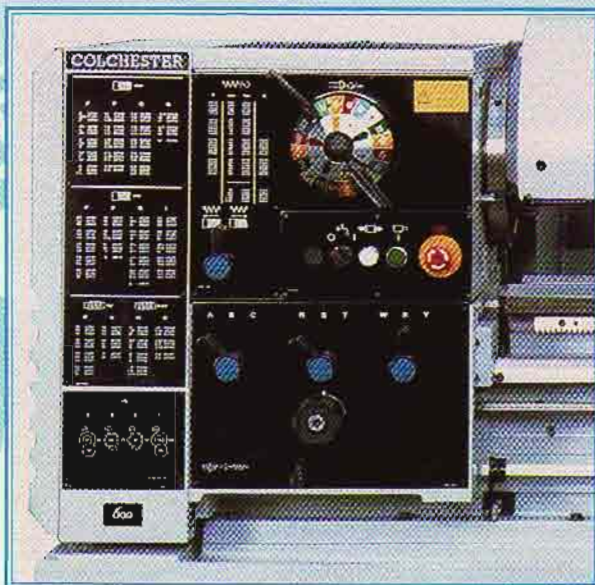
## Extra Versatility

- 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 <sup>7</sup> / <sub>8</sub> "   |
| Bed Length, Between Centre          | 1250mm (50")                             |
| Swing over Bed                      | 400mm (15 <sup>3</sup> / <sub>4</sub> "  |
| Swing over Cross Slide              | 246mm (9 <sup>7</sup> / <sub>8</sub> "   |
| Swing in Gap                        | 585mm (23")                              |
| Length of Gap in front of Faceplate | 165mm (6 <sup>1</sup> / <sub>2</sub> "   |
| Spindle Bore                        | 54mm (2 <sup>1</sup> / <sub>8</sub> "    |
| 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 <sup>1</sup> / <sub>2</sub> 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 <sup>1</sup> / <sub>2</sub> "  |
| Travel of Cross Slide               | 250mm (9 <sup>7</sup> / <sub>8</sub> "   |
| Travel of Top Slide                 | 130mm (5 <sup>1</sup> / <sub>8</sub> "   |
| Tailstock Quill Travel              | 140mm (5 <sup>1</sup> / <sub>2</sub> "   |
| 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

## 600 Machinery Australia Pty Ltd



ISO 9002

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