



Colchester

The Colchester Lathe Company



TRIUMPH
V S 2500

THE 600 GROUP

HIGH PERFORMANCE VARIABLE CONSTANT SURFACE SP

A New Generation of Variable Speed Centre Lathes

The Colchester Triumph VS2500 is a 400mm (15.7") swing lathe with a 7.5kw electronically, infinitely variable speed spindle drive giving a maximum speed of 2500rpm.

The combination of Constant Surface Speed and the electronically variable spindle drive gives a cutting performance better than many CNC lathes. Precision, power and durability together with a host of innovative features are built in to give years of lasting performance from this rugged machine.

The high quality specification of the Triumph VS2500 makes it ideal for most tool room maintenance and production applications.

Key Features

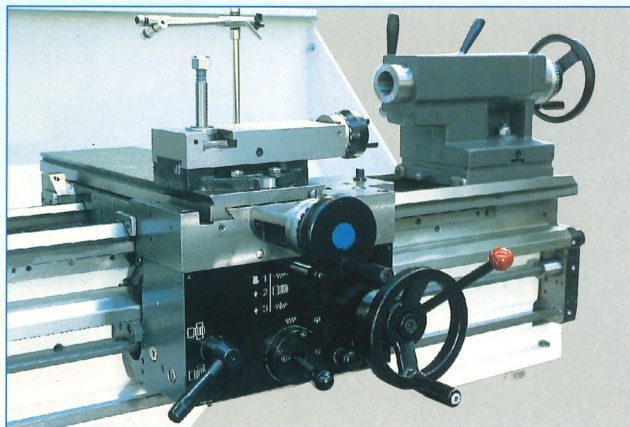
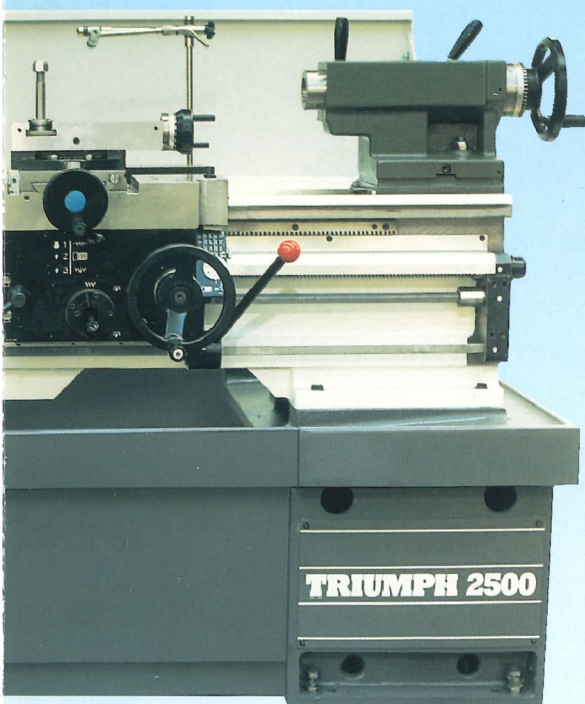
- Electronic, infinitely variable speed spindle drive with constant surface speed cutting option - gives much faster cycle times and allows the full use of modern cutting tool technology.
- Heavy duty construction - over 20% heavier than previous models.
- Wide bed giving high rigidity with spindle speeds 25% faster than the previous model.
- Anti-friction linings on the carriage ways gives minimal bedwear and longer machine life.
- Field tested for over 10 years.
- High power at both low & high speeds.
- Wide spread of power - over 33 to 1 Constant Power Range.
- Low noise levels - 80dBA at a 1 metre envelope around the machine.



Safety Features

- Exceeds all International Safety Standards including, the latest CE regulations
- Interlocked End Guard Door for easy and safe access.
- Rapid and controlled deceleration of the spindle drive during mains disconnection and Emergency Stop Conditions.
- Interlocked Spindle Drive Reset and Apron Control Lever.
- Interlocked Chuck Guard.
- Full length stainless steel leadscrew cover to guard against injury and/or swarf inclusion.
- User friendly controls.

LE SPEED CENTRE LATHE WITH SPEED CUTTING CONTROL



Extra Versatility

A huge selection of accessories and attachments are available for this machine.

Design for Maximum Productivity

AC Inverter Variable Speed Spindle Drive

State of the art AC Spindle Drive featuring surface mount technology to give compact size and high reliability - 4 year parts warranty.

Interlocked End Guard Door

Easy access for maintenance and changing the end train gear.

Leadscrew Reversing Box

Faster Thread Cutting - Reversal of the Leadscrew with the spindle running,

Three Headstock Gear Ranges

A wide spread of constant power - 33 to 1 - better than most CNC Lathes.

Infinitely Variable Spindle Speeds

The right spindle speed very quickly with a speed response like a CNC Lathe.

Anti-Friction Carriage Ways

Low Friction "Moglice" PTFE material which gives minimum bedwear and longer machine life.

Heavy Duty Tailstock

Excellent rigidity - 73 mm Diameter Barrel - No.5 Morse Taper.

Wide Bed

Very rigid 318mm (12.5") wide bed with triangular webs for excellent stability, high torsional stiffness & swarf clearance.

Wheeled Swarf Bin

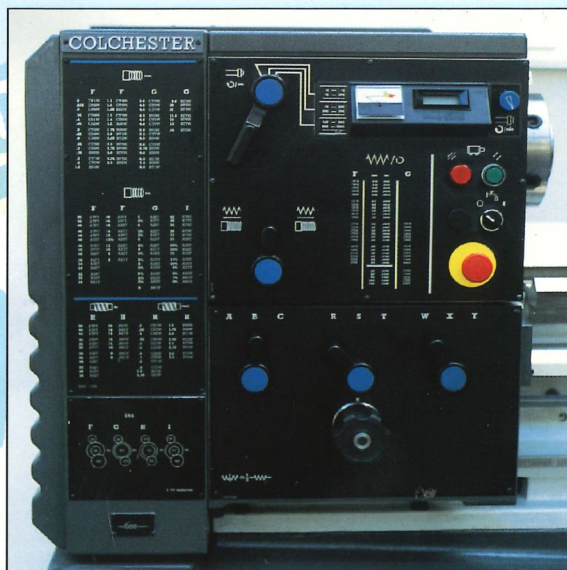
Large capacity swarf clearance and easy disposal.

Constant Surface Speed Control

(Available as an optional extra). This will maintain the optimum cutting speed over variable work diameters.

CAPACITY AND SPECIFICATIONS

Height of Centres	195mm (7.7")
Bed Length, Between Centre	650/1250mm (26/50")
Swing over Bed	400mm (15.7")
Swing over Cross Slide	246mm (9.5")
Swing in Gap	585mm (23")
Width in front of Faceplate	165mm (6.5")
Spindle Bore	54mm (2.1")
Spindle Nose Mounting	D1-6 Camlock
Morse Taper in Nose Bush	No. 4
Number of Spindle Speed Ranges	3 infinitely variable
Variable Spindle Speed Max.	2500rpm
Nominal Motor Power	7.5kW (10hp)
Speeds Low Range	13 to 300rpm
Medium Range	36 to 830rpm
High Range	109 to 2500rpm
Number of Imperial Pitches	56
Range of Imperial Pitches	2-56 TPI
Number of Diametral Pitches	20
Range of Diametral Pitches	8-56 DP
Number of Metric Pitches	51
Range of Metric Pitches	0.2-14mm
Number of Module Pitches	20
Range of Module Pitches	0.2-3.5 MOD
Width over Bedways	318mm (12.5")
Travel of Cross Slide	250mm (9.8")
Travel of Top Slide	130mm (5.1")
Total Travel of Tailstock Barrel	140mm (5.5")
Taper in Tailstock Barrel	No. 5 MT
Weight	650mm-1400kg (3080lbs) / 1250mm-1500kg (3300lbs)



Standard Equipment

- Centre Bush
- Two Morse Taper Centres
- Thread Indicator
- Electrical Equipment for Standard 3 Phase 50 Cycle a.c. Supply
- End Guard Limit Switch
- Set of Spanners, Keys and Oil Gun
- Instruction and Spare Parts Manual
- Accuracy Chart
- Emergency Stop Button
- Lockable Isolator Switch
- Electric Coolant Pump, Tank and Fittings
- Splash Guard
- Interlocked Chuck Guard
- Covered Leadscrew

• Quick Change Toolpost
2.5mm (0.1") (250mm/9.8")

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The Colchester Lathe Company is a trading name of 600 UK Ltd.
Registered in England & Wales No. 144979

The Colchester Lathe Company,
Union Street, Hackenshaw,
West Yorkshire. WF16 0HN
Telephone: 01924 412606
Fax: 01924 412604