



Colchester

The Colchester Lathe Company



MASTER VS 3250

THE 600 GROUP

HIGH PERFORMANCE VARIABLE CONSTANT SURFACE SP

A New Generation of Variable Speed Centre Lathes

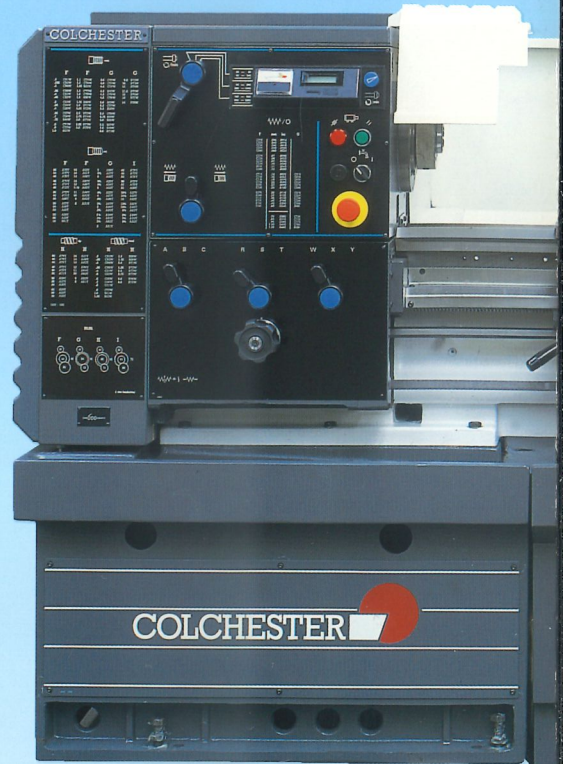
The Colchester Master VS3250 is a superb machine designed to meet the demands of modern tooling. Both heavy cutting and fine precision work can be achieved on this remarkably versatile machine

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

This Colchester Master VS3250 has the versatility to handle the small to medium requirements of light industry, the toolroom and vocational training.

Key Features

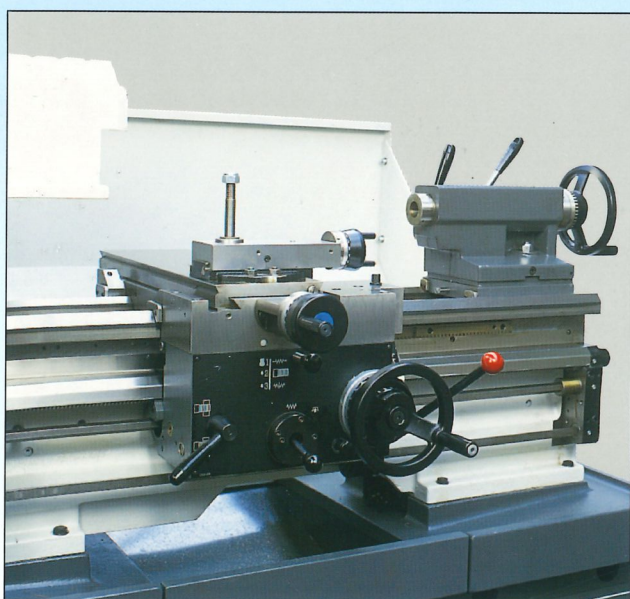
- Meets all International Safety Standards
- Electronic, infinitely variable speed spindle drive with constant surface speed cutting option - gives much faster cycle times.
- Heavy duty construction - over 20% heavier than previous models.
- Wide bed gives high rigidity and a low centre of gravity ensures machine stability. Spindle speeds are 25% faster than the previous model.
- Anti-friction linings on the carriage ways ensure minimal bedwear and longer machine life. Field tested for over 10 years without failure.
- Wide spread of power - over 33:1 Constant Power Range. High power at both low and high speeds.
- Low noise levels - 80dBA at a 1 metre envelope around the machine.



Safety Features

- Designed to exceed the latest CE Requirements and all other International Safety Standards.
- 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 covered leadscrew to guard against injury or swarf inclusion.
- User friendly controls.

LE SPEED CENTRE LATHE WITH SPEED CUTTING CONTROL



Designed 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 - 33:1 - better than most CNC Lathes. (15-3250rpm)

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 minimal bedwear and longer machine life.

Heavy Duty Tailstock

Excellent rigidity - 63mm(2.5") Diameter Barrel - No.4 Morse Taper.

Wide Bed

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

Wheeled Swarf Bin

Large capacity swarf clearance and easy disposal.

Constant Surface Speed Control

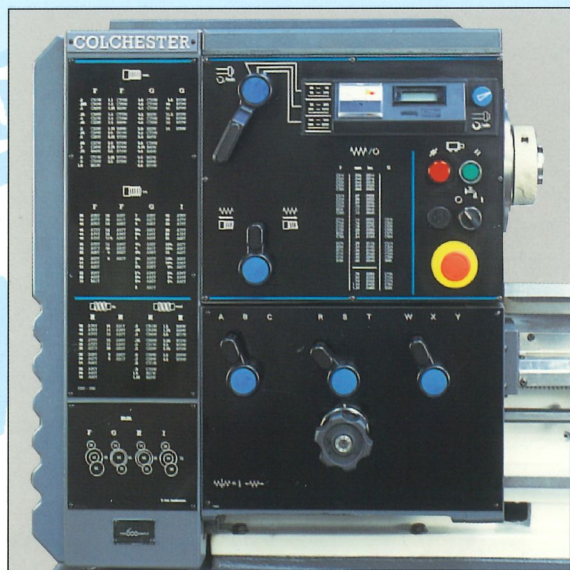
(available as optional extra). This will maintain the optimum cutting speed over variable work diameters.

Extra Versatility

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

CAPACITY AND SPECIFICATIONS

Height of Centres	170mm (6.7")
Bed Length, Between Centres	650/1250mm (26/50")
Swing over Bed	350mm (13.8")
Swing over Cross Slide	196mm (7.7")
Swing in Gap	535mm (21")
Length in Gap	165mm (6.5")
Spindle Bore	42mm (1.7")
Spindle Nose Mounting	D1-4 Camlock
Morse Taper in Nose Bush	No. 4
Number of Spindle Speeds Max.	3 infinitely variable ranges
Variable Spindle Speed Max.	3250rpm
Motor	7.5kW (10HP)
Speeds Low Range	15 to 338rpm
Medium Range	46 to 1008rpm
High Range	148 to 3250rpm
Number of English Pitches	56
Range of English Pitches	2-56 T.P.I.
Number of Diametral Pitches	20
Range of Diametral Pitches	8-56 DP
Number of Metric Pitches	51
Range of Metric Pitches	0.2-14mm Pitch
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	100mm (4")
Total Travel of Tailstock Barrel	145mm (5.7")
Taper in Tailstock Barrel	No. 4 MT
Weight	Short Bed-1350kg(2970lb)/Long Bed-1450kg(3190lb)



Standard Equipment

- Centre Bush
- Two Morse Taper Centres
- Thread Indicator
- End Guard Limit switch
- Set of Spanners, Keys and Oil Gun
- Instruction and Spare Parts Manual
- Accuracy Chart
- Emergency Stop Button
- Apron Adjustable Knock-off
- Electric Coolant Pump, Tank and Fittings
- Splash Guard
- Interlocked Chuck Guard
- Covered Leadscrew

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BS EN ISO 9002 Firm No. 12345



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The Colchester Lathe Company is a trading name of 600 UK Ltd.
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