



# Manual Lathes



**The world turns on Colchester lathes**





# Engineered for efficiency

With a range of traditional centre lathes, which complement our highly successful CNC technology machines, Colchester maintains a heritage that spans more than a hundred years of lathe making.

Throughout the world, apprentices and engineers have trained on Colchester lathes while production, toolroom and maintenance departments have used Colchester machines as the bedrock of their turning capability.

With its investment in modern machine tool manufacturing technology, plant and assembly techniques, coupled with the latest quality-driven methodology and business practices, Colchester is able to provide the same traditional solution to customers as yesteryear. However, today, customers have the additional benefit of a lathe building company driven by the ambition of a 'world-class' strategy.

# MANUAL LATHES

Colchester manual lathes are renowned worldwide for their quality and reliability. Built to withstand rugged, heavy duty use, our lathes will give years of outstanding service with the absolute minimum of maintenance. At the same time, all Colchester manual lathes are capable of very fine precision turning.

Colchester VS manual lathes produce outstanding results not least due to their infinitely variable spindle speed feature. This allows exactly the right speed for every job so tools perform better, cycle times are optimised and quality improves.

The entire range gives you exceptional ease of use and a huge choice of optional and ancillary equipment guarantee top of the range performance even for the most complex and challenging jobs.

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## STUDENT 2500



- Fully geared headstock with 12 spindle speeds from 40-2500rpm
- 2.2kW (3hp) spindle motor
- 635 and 1000mm bed length options
- 330mm swing over bed
- D1-4 Camlock spindle nose
- Precision hardened and ground bed
- Fully universal gearbox with most metric and imperial threads catered for
- Built to standards in excess of DIN 8606 and BS4656 Part 1
- The "number 1" choice of training establishments worldwide

# MASTER VS 3250

- Advanced variable speed, spindle drive from 17-3250rpm in 3 infinitely variable ranges. Constant power in all ranges
- 7.5kW (10hp) spindle motor
- 650mm gap bed length
- 350mm swing over bed
- DI-4 Camlock spindle nose
- Precision hardened and ground bed
- Precision hardened and ground gears in headstock
- Built to exceed all known world safety standards
- The ultimate variable speed training lathe



# TRIUMPH VS 2500

- Constant power, 3 range variable speed drive from 14-2500rpm
- 7.5kW (10hp) spindle motor
- 1250mm gap bed length
- 400mm swing over bed
- DI-6 Camlock spindle
- Precision hardened and ground bed
- Precision hardened and ground gears in headstock
- Wide, rigid bed
- The world's "best known" centre lathe



- Medium duty, constant power, variable speed spindle drive in 3 ranges from 20-2000rpm
- 11kW (15hp) spindle motor
- 1000, 1500 and 2000mm straight or gap bed length options
- 460mm swing over bed
- DI-8 Camlock spindle nose
- Precision hardened and ground bed
- Precision hardened and ground gears in headstock
- Fingertip traverse control via saddle mounted joystick
- The "number 1" toolroom/general purpose centre lathe



## MASTIFF 1800



- Heavy duty, constant power, variable speed spindle drive in 3 ranges from 18-1800rpm
- 11kW (15hp) spindle motor
- 1000, 1500, 2000 and 3000mm straight or gap bed length options
- 554mm swing over bed
- DI-11 Camlock spindle nose
- Precision hardened and ground bed
- Precision hardened and ground gears in headstock
- Fingertip traverse control via joystick
- World's "number 1" heavy duty production centre lathe

# SPECIFICATIONS

	STUDENT	MASTER	TRIUMPH	MASCOT	MASTIFF
Height of Centres	167mm	170mm	195mm	230mm	280mm
Bed Length Between Centre	635/1000mm	650mm	1250mm	1000/1500/2000mm	1000/1500/2000/3000mm
Swing over Bed	330mm	350mm	400mm	460mm	554mm
Swing over Cross Slide	210mm	196mm	240mm	270mm	370mm
Spindle Bore	40mm	42mm	54mm	76mm	90mm
Spindle Nose Mounting	D1-4 Camlock	D1-4 Camlock	D1-6 Camlock	D1-8 Camlock	D1-11 Camlock
Morse Taper in Nose Bush	No. 3 MT	No. 3 MT	No. 4 MT	No. 5 MT	No. 5 MT
Number of Speed Ranges	12	3 Variable	3 Variable	3 Variable	3 Variable
Range	40-2500rpm	17-3250rpm	14-2500rpm	20-2500rpm	18-1800rpm
Motor	2.2kW	7.5kW	7.5kW	11kW	11kW
Number of English Pitches	52	56	56	73	73
Range of English Pitches	2 to 56 TPI	2 to 56 TPI	2 to 56 TPI	2 to 84 TPI	2 to 84 TPI
Number of Diametral Pitches	18	20	20	27	27
Range of Diametral Pitches	8 to 56 DP	8 to 56 DP	8 to 56 DP	8 to 72 DP	8 to 72 DP
Number of Metric Pitches	45	51	51	66	66
Range of Metric Pitches	0.2 to 14mm	0.2 to 14mm	0.2 to 14mm	0.2 to 14mm	0.2 to 14mm
Number of Module Pitches	18	20	20	20	20
Range of Module Pitches	0.3 to 3.5 MOD	0.2 to 3.5 MOD	0.2 to 3.5 MOD	0.2 to 3.5 MOD	0.2 to 3.5 MOD
Width over Bedways	140mm	318mm	318mm	400mm	400mm
Travel of Cross Slide	190mm	250mm	250mm	300mm	300mm
Travel of Top Slide	82mm	100mm	100mm	150mm	175mm
Tailstock Travel	110mm	145mm	145mm	145mm	178mm
Taper in Tailstock Barrel	No. 3 MT	No. 4 MT	No. 5 MT	No. 6 MT	No. 6 MT
Weight	710/790kg	1550kg	1800kg	2800/2980/3205kg	2490/2670/2850/3610kg

Illustrations and specifications are not binding in detail. The designs are subject to modification and improvement without notice.