



New Products Catalogue



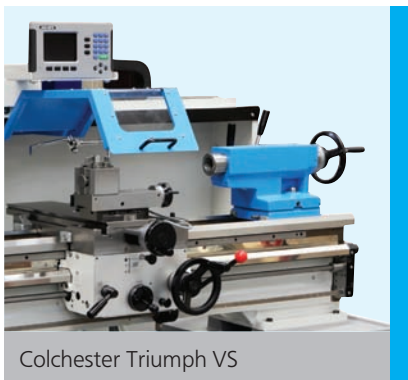
Harrison Alpha 1400XC



Harrison EziTurn



Colchester Magnum



Colchester Triumph VS



Colchester Master VS



Clausing Mills & Saws



Clausing Drills & Grinders



PBI Gripsafe



PBI Setrite® Scroll Chucks



Alpha XC

**The ultimate turning machine just stepped up a gear...
introducing the Alpha XC CNC combination lathe**



The simplest advanced lathe in the world just added full c-axis operation to its already market leading capabilities.

Bringing full milling, drilling and tapping capabilities to the Alpha - reducing the need for second operation production on one offs and small batches.

Machine Specification	Alpha 1400XC	Alpha 1460XC	Alpha 1550XC
Distance between centres	1250mm	1500mm	2000 / 3000mm
Swing over bed	400mm	460mm	554mm
Spindle bore	55mm	78mm	104mm
Spindle nose	Camlock D1-6	Camlock D1-8	Camlock D1-11
Spindle speeds	1-2700 rpm	1-2200 rpm	1-2000 rpm
Main motor power	7.5kW	11kW	15kW
C-axis Specification			
Pos resolution	0.001°		
No. of tool stations	8	8 (4 driven)	
Tooling type	VDI 20 / DIN 5480 x 0.8	VDI 40 / DIN 1809	
Max. power driven tool	2.2kW	3.7kW	
Max. driven tool speed	6000 rpm		

Alpha 1660, 1760 and 2800XS series heavy duty CNC combination lathes are also available.



EziTurn

Turning just got even simpler with the Harrison EziTurn



The EziTurn combines all the great features of the world-renown Harrison centre lathe, but now with powerful automated cycles on a simple, easy to use touchscreen control.

The first stage of automation to help bridge the gap between conventional and CNC lathes.

Machine Specification	EziTurn
Distance between centres	1000mm
Swing over bed	330mm
Spindle bore	42mm
Spindle nose	Camlock D1-4
Spindle speeds:	1 infinitely variable range 1 to 2500rpm
Main motor power	3.7kW
Control system	EziTurn Conversational and Parametric Programming System
Machining cycles	Stops / Facing / Tapers / Threading (metric & imperial) / Grooving / Drilling / Tapping / Constant surface speed control



Master & Triumph VS

**The world's best known variable speed centre lathes
- redesigned for optimum performance**



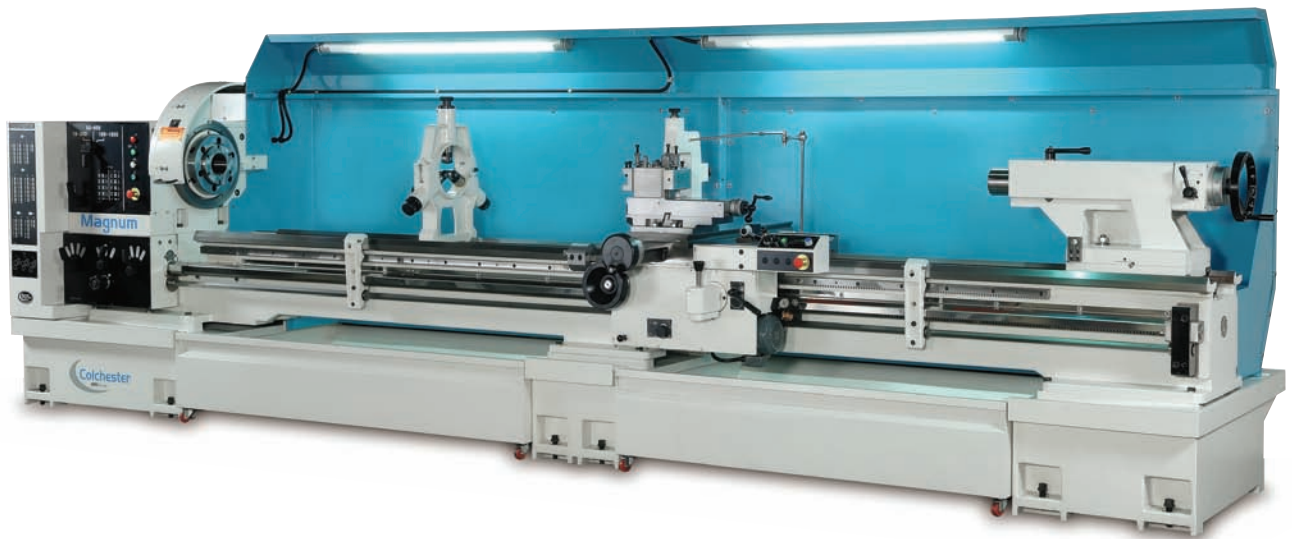
- Advanced variable speed spindle drive in 3 infinitely variable ranges
- Induction hardened and ground bed
- Precision hardened and ground gears in headstock
- CSS DRO as standard
- The world's best selling variable speed centre lathes
- Built to exceed all known world safety standards

Machine Specification	Master VS	Triumph VS
Distance between centres	650mm	1250mm
Swing over bed	350mm	400mm
Spindle bore	42mm	54mm
Spindle nose	D1-4 Camlock spindle	D1-6 Camlock spindle
Number of speeds	3	3
Speed range	17 to 3250rpm	14 to 2500rpm
Motor power	7.5kW	7.5kW



Magnum VS

Bringing fast, heavy metal removal and fine precision finishing to the heavy turning arena



The heavyweight Colchester Magnum is built to withstand rugged, heavy duty use and combines power, strength and productive features, to meet any production requirement cost-effectively.

- Induction hardened & ground bed
- Heavy duty constant power spindle drive motor
- Precision hardened & ground gears in headstock
- Precision spindle running on Gamet ultra high precision taper roller bearings
- 2 Axis CSS DRO available

Machine Specification	Magnum	Magnum LS
Distance between centres	1500 / 2000 / 3000 / 4000mm	
Swing over bed	660mm	810mm
Spindle bore	104mm / 155mm	104mm / 155mm / 230mm
Spindle nose	D1-11 / A2-11	D1-11 / A2-11 / A2-15
No. of speeds	3	3
Maximum spindle speed	1800 / 1000rpm	1800 / 1000 / 600rpm
Main motor power	20kW	20kW



Turret & Bed Mills

The world's best known milling machines, designed for optimum performance

Bed Mill Range	Min	Max
Table Size	254 x 1370mm	425 x 1575mm
Spindle Motor Power	5Hp (3.7Kw)	7.5Hp (5.5Kw)
Spindle Taper	ISO40	
Spindle Diameter	105mm	110mm

Turret Mill Range	Min	Max
Table Size	230 x 1245mm	254 x 1370mm
Spindle Motor Power	3Hp (2.25Kw)	5Hp (3.7Kw)
Spindle Taper	R8 / ISO30	ISO40
Spindle Diameter	85mm	105mm

Horizontal & Vertical Saws

Designed for rugged production use, offering high production output and heavy-duty performance

Vertical Bandsaw Range	Min	Max
Throat	508mm	1016mm
Work Height	325mm	356mm
Drive Motor	3Hp (2.2 Kw)	5Hp (3.75 Kw)
Blade Speed	50-5200 fpm	



Horizontal Bandsaw Range	
Cutting Capacity – Round	Up to a maximum of 1300mm
Cutting Capacity – Rectangular (HxW)	Up to 1300 x 1700mm



Radial & Pillar Drills

High specification, heavy duty and more standard features for superior performance



Pedestal Drill Range	Min	Max
Drilling Capacity - Steel	18mm	70mm
Drilling Capacity - Cast Iron	25mm	80mm
Column Ø	100mm	220mm
Spindle Taper	4MT	5MT

Radial Drill Range	Min	Max
Drilling Capacity - Steel	32mm	80mm
Drilling Capacity - Cast Iron	50mm	100mm
Tapping Capacity - Steel	25mm	65mm
Tapping Capacity - Cast Iron	32mm	75mm
Spindle Taper	4MT	5MT
Spindle Motor Power	2hp (1.5Kw)	10Hp (7.5Kw)
Distance from Column to Spindle Centre	220mm	2500mm

Manual & Automatic Surface Grinders

Precision, low-cost, high performance surface grinders for any application



Hydraulic Surface Grinder Range	Min	Max
Table Size	152 x 460mm	406 x 1020mm
Grinding Length	1020mm maximum	
Grinding Width	410mm maximum	
Spindle Motor Power	2Hp (1.5Kw)	7.5Hp (5.5Kw)

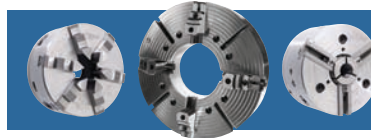
Automatic Surface Grinder Range	Min	Max
Table Size	203 x 460mm	810 x 3050mm
Grinding Length	3050mm maximum	
Grinding Width	810mm maximum	
Spindle Motor Power	2Hp (1.5Kw)	15Hp (10Kw)



Gripsafe

The 'New' Gripsafe allows you to effortlessly measure your chuck gripping force - ensuring safety and peace of mind for operators, trainees and managers

- Static & Dynamic chuck gripping force measurement
- Measures gripping force up to 100kN per jaw
- 3 & 2 jaw chuck compatibility
- Measures rotational speed up to maximum of 6000rpm
- Wi-Fi communications to any Wi-Fi compatible device
- Rechargeable battery with USB charging interface
- Extension rings to enable use with increased diameters



We also stock **standard and special scroll, independent and power chucks.**

Setrite® Self Centring Scroll Chucks

Precision manual chucks manufactured to toolroom specifications when you need more accuracy than a standard chuck

- Unique 'Setrite' adjustment allows ultra high accuracy and unrivalled surface finish – Repeatability of 0.012mm
- Manufactured with steel body and nitride hardened scrolls for increased durability and high speed turning
- Increased grip with double the contact surface area between the master jaws and chuck body
- Available in 3 and 6 jaw formats from 160 to 610mm



If you would like to arrange a demonstration or discuss your specific needs, please contact our sales team on

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