

TECHSOFT RouterCAM



RouterCAMs are the only large format routers to be DIRECTLY CONTROLLED through 2D Design V2

Powerful, High Speed, Large Format, 3D Capable Routers

Affordable Full-Size Routing

Full-size furniture projects have a long tradition in Design and Technology, but it can be difficult for students to include CAD/CAM when making them. Available CNC machinery is often too complex to operate, too expensive to buy, or simply not up to the scale required. To meet this need TechSoft are pleased to offer three British-built industrial quality machines that will accept even the largest of student projects, yet remain straightforward to operate and are fully compliant with safety requirements for education. The machines are built for continuous commercial production, so are more than tough enough to stand the rigours of educational use. A quality/capacity/price comparison reveals that these machines also represent exceptional value for money.

Easy Set-up and Control

TechSoft 2D Design V2 is the ideal tool to produce drawings for the RouterCAM and output is largely through the familiar TechSoft output dialog box where feeds, speeds and cutting depths are assigned to colour-coded toolpaths. 3D output is achieved in the same way but from files processed in TechSoft Visual Toolpath. In both cases data is transferred to the machine's own hand controller via USB. Datums can be set manually or (in the case of Z0) by using the sensor unit provided. The RouterCAM spindle is powered by an inverter-driven 3hp motor and axis speeds go up to an astonishing 200mm/sec (12m/min). This means you will always have performance in reserve to get the best results for any given combination of material and cutter diameter. Although designed primarily for machining timber-based panel material, a RouterCAM will also handle suitable plastics, light alloy and even slate, marble, etc.

Work Holding and Extraction

The machines feature an integral vacuum bed for work-holding via a replaceable diffuser sheet. Machines are supplied with the necessary 3hp high-power vacuum pump. A 'brush-foot' extraction attachment is provided and this effectively collects and contains airborne waste. One of our free-standing workshop extractors will provide sufficient power to remove waste or, alternatively, customers may wish to connect to an existing 'ducted' workshop system.



Why Choose a RouterCAM?

A RouterCAM is clearly a high power machine for large scale work, but it is still a versatile tool for general workshop duties. A class-set of lower school work can be quickly machined; small individual projects in 2D or 3D can be produced accurately and in detail. Needless to say, a RouterCAM is fully compatible with TechSoft 2D Design V2 for 2D/2.5D work, and Visual Toolpath for 3D work.



What's Included

Accessories

- Fully Interlocked Safety Case (690, 1290, 1212); Perimeter Enclosure (1224)
- Vacuum Table compressor
- Extraction attachment
- Machine tools and a selection of cutters/collets

Commissioning & Training

The cost of the RouterCAM also includes commissioning and training on the same day.

Warranty

UK Mainland & Ireland: 1 Year On-Site
Elsewhere: 1 Year Return and Collect

RouterCAM 690



With most of the benefits of the larger machines, this compact new addition to the range is the perfect choice where space is at a premium, or high power routing capability is needed on a tight budget.

Specification

Axis Travel: 925 x 600 x 175mm
 Max. Machinable: 925 x 600 x 155mm
 Max. Feedrate: 100mm/sec (6m/min)
 Spindle Motor: 1.5kW (2hp)
 Spindle Speed: 12,000 – 24,000rpm
 Max. Collet Size: 16mm
 Resolution: 0.05mm
 Interface: Hand controller. Data transfer via USB data device or direct cable connection.
 Work Holding: Vacuum bed & phenolic perimeter grid system.
 Weight: 250kg
 Dimensions: 1160(W) x 1460(D) x 1670(H)mm
 Power Requirements: 240V 25A

RouterCAM 1290



The first choice for schools and colleges wanting a fast, high-power routing facility for maximum productivity with large scale projects.

Specification

Axis Travel: 1220 x 900 x 130mm
 Max. Machinable: 1220 x 900 x 110mm
 Max. Feedrate: 200mm/sec (12m/min)
 Spindle Motor: 2.2kW (3hp)
 Spindle Speed: 12,000 – 24,000rpm
 Max. Collet Size: 16mm
 Resolution: 0.05mm
 Interface: Hand controller. Data transfer via USB data device or direct cable connection.
 Work Holding: Vacuum bed & phenolic perimeter grid system.
 Weight: 520kg
 Dimensions: 1900(W) x 1600(D) x 1700(H)mm
 Power Requirements: 415V 32A

RouterCAM 1212



A larger version of the 1290 with a full 1220 x 1220 x 130mm axis travel.

Specification

Axis Travel: 1220 x 1220 x 130mm
 Max. Machinable: 1220 x 1220 x 110mm
 Max. Feedrate: 200mm/sec (12m/min)
 Spindle Motor: 2.2kW (3hp)
 Spindle Speed: 12,000 – 24,000rpm
 Max. Collet Size: 16mm
 Resolution: 0.05mm
 Interface: Hand controller. Data transfer via USB data device or direct cable connection.
 Work Holding: Vacuum bed & phenolic perimeter grid system.
 Weight: TBC
 Dimensions: TBC
 Power Requirements: 415V 32A

RouterCAM 1224



Similar to the RouterCAM 1290, but with the capacity to machine full 1220 x 2440mm sheets. The machine is supplied with a full perimeter enclosure with a light beam guarding system across the loading side

Specification

Axis Travel: 1220 x 2440 x 175mm
 Max. Machinable: 1220 x 2440 x 155mm
 Max. Feedrate: 200mm/sec (12m/min)
 Spindle Motor: 2.2kW (3hp)
 Spindle Speed: 12,000 – 24,000rpm
 Max. Collet Size: 16mm
 Resolution: 0.05mm
 Interface: Hand controller. Data transfer via USB data device or direct cable connection.
 Work Holding: Vacuum bed & phenolic perimeter grid system.
 Weight: 1300kg
 Dimensions: 1800(W) x 2900(D) x 1600(H)mm
 Power Requirements: 415V 32A

Prices £*

*See Pricing Information on page 2

MP-RC-690	RouterCAM 690 Package Includes Machine, Visual Toolpath software, fully interlocked safety case, vacuum bed with vacuum pump, extraction attachment, commissioning and training
MP-RC-1290	RouterCAM 1290 Package Includes Machine, Visual Toolpath software, fully interlocked safety case, vacuum bed with vacuum pump, extraction attachment, commissioning and training
MP-RC-1212	RouterCAM 1212 Package Includes Machine, Visual Toolpath software, fully interlocked safety case, vacuum bed with vacuum pump, extraction attachment, commissioning and training
MP-RC-1224	RouterCAM 1224 Package Includes Machine, Visual Toolpath software, fully interlocked perimeter enclosure, vacuum bed with vacuum pump, extraction attachment, commissioning and training

Recommended Extraction*

MM-EXTRACTION23	For 690/1290/1212: TechSoft/Numatic Workshop Extractor. See page 190.
MM-EXTRACTION80	For 1224: ESTA Dustomat 10 Extractor (1 phase). See page 189.

Recommended Tooling

For details of these packs and our full range of tools see pages 85-86

TP-COLL-RC2	Collet Pack (Additional Router Collets) Save £3
TP2-ROUT-RC	Router Tool Pack (Router tools) Save £5
TP-PLAS-RC	Plastics Tool Pack (Plastics tools) Save £5
TP-3D-RC	3D Tool Pack (3D tools) Save £5

Recommended Software

2D Design V2 (page 12); SOLIDWORKS (page 18)

* N.B. Extraction only required if cutting fine dust materials e.g., foam, MDF, etc.