

The Exel CNC M5S CNC Router is a high-performance production router designed for workshops that need greater speed, rigidity and precision than entry-level machines. Combining a rigid steel frame, hybrid servo motion system and powerful spindle. The M5S delivers fast, accurate machining across a wide range of materials

Model	Working Area	Price
M5S	1300 × 1300mm	£11,495
M5S	1300 × 2500mm	£12,995
M5S	1500 × 3000mm	£15,895
M5S	2000 × 3000mm	£18,195



Why Choose the M5S?

- Hybrid servo motion system for smooth, precise cutting
- Heavy-duty steel frame and gantry for long-term stability
- High-speed machining with rapid speeds up to 40m/min
- Integrated vacuum bed with T-slots for secure workholding
- Powerful 4.5kW spindle suitable for a wide range of materials
- UK-specified build focused on reliability and performance

Optional Upgrades (Prices ex VAT)

Upgrade	Price
Upgrade to 7.5kW vacuum pump	£350
Upgraded 3kW fine filter cyclone extractor	£615
Light curtain guarding	£920
Oscillating knife + print-to-cut camera	£2,900
Raised gantry 300mm + extended Z-axis travel	£375
Pop up location pins	£340
Single phase 240V power option	£500
Vectric software (various packages available)	POA

TYPICAL APPLICATIONS:

- Furniture and cabinetry
- Kitchen manufacturing
- Signage and display production
- Plastic fabrication
- Shopfitting and retail display
- Composite machining
- Laminates and panel processing
- Aerospace components
- Musical instruments

SUITABLE MATERIALS

- MDF
- Plywood
- Hardwood & softwood
- Acrylic (PMMA)
- PVC & foam PVC
- Engineering plastics
- Laminates
- Aluminium composite (ACM / Dibond)

Machine & Performance

- Construction: Heavy-duty steel frame and gantry
- Maximum rapid speed: 40 m/min
- Maximum cutting speed: 20 m/min
- Positioning accuracy: $\pm 0.05\text{mm}$
- Z-axis drive: TBI ballscrew

Control & Motion

- Motion system: Hybrid servo driven
- Control system: Handheld controller with 4.3" colour screen
- Motors: Hybrid servo motors

Linear guides:

- 25mm square linear rails (Y axis)
- 20mm rails (X and Z axes)

- X/Y drive system: Helical rack drive
- Data transfer: USB

Spindle & Tooling

- Spindle: 4.5kW air-cooled spindle
- Spindle speed: Up to 24,000 RPM
- Collet type: ER32
- Spindle inverter: Delta drive
- Brake resistor: Included
- Auto tool height sensor: Included

Electrical & Installation

- Power supply: 3-phase 380V $\pm 10\%$
- Total power requirement: 15.6kW
- Levelling: Heavy-duty levelling feet
- Side console: Included, housing electrical components

Vacuum, Dust & Coolant

- Vacuum bed: Integrated vacuum bed with T-slots
- Vacuum pump: 5.5kW side channel vacuum pump
- Vacuum pump filter: Included
- Vacuum bed & dust control: Located on side console
- Dust extractor: 3kW twin-bag extractor
- Dust foot: Automatic rise and fall
- Mist coolant system: Included
- Lubrication system: Automatic oiling system

What's Included

- 4.5kW air-cooled spindle with Delta inverter
- Hybrid servo motion system
- Integrated vacuum bed with T-slots
- 5.5kW side channel vacuum pump
- 3kW twin-bag dust extractor
- Automatic lubrication system
- Mist coolant system
- Auto tool height sensor
- Handheld controller with 4.3" screen

Software & Warranty

Software: UcanCam V11 included

Warranty: 1 Year as standard

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All prices exclude VAT. Prices correct at time of publication and may vary depending on specification.