

The Exel CNC AIS CNC Router is a compact and highly capable 8ft x 4ft CNC router designed for workshops needing reliable performance at an accessible price point. Built on a rigid steel frame and gantry and equipped with industrial-grade components, the AIS delivers dependable cutting performance across wood, plastics and light aluminium applications.

Model	Working Area	Price
AIS	1300 x 2500mm	£9,995



### Why Choose the AIS?

- Rigid steel frame and gantry for stability and accuracy
- Upgraded 8.7Nm Nema 34 stepper motors for reliable motion
- Powerful 3.5kW spindle for versatile cutting performance
- Integrated vacuum bed with T-slots for secure workholding
- Full-colour handheld controller with no PC required
- UK-specified build designed for reliability and value

### Optional Upgrades (Prices ex VAT)

Upgrade	Price
Single phase 240V power option	£500
Upgraded 3kW fine filter cyclone dust extractor	£615
Light curtain guarding	£920
Upgrade to 7.5kW vacuum pump	£350
PC controller (requires customer PC)	£0
Raised gantry height (300mm) with extended Z travel	£375
Vetric software (various packages available)	POA

### TYPICAL APPLICATIONS:

- Cabinet making and joinery
- Sign making and engraving
- Furniture production
- Plastic fabrication
- Panel processing and nesting
- Prototyping and small batch production

### SUITABLE MATERIALS

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

### Machine & Performance

Construction: Steel frame and steel gantry  
Maximum rapid speed: 25m/min  
Maximum cutting speed: 15m/min  
Positioning accuracy:  $\pm 0.05$ mm  
Z-axis drive: Ballscrew

### Motion & Drive System

Motion system: Stepper driven  
Motors: 8.7Nm Nema 34 stepper motors  
Linear guides: 20mm square linear rails  
X/Y drive system: Helical rack and pinion  
Z drive system: Ballscrew  
Controller: Handheld controller with 4.3" colour screen  
Data transfer: USB

### Spindle & Tooling

Spindle: 3.5kW air-cooled spindle  
Spindle speed: Up to 18,000 RPM  
Collet type: ER25  
Spindle inverter: Delta MS series drive  
Brake resistor: Included  
Auto tool height sensor: Included

### Vacuum, Dust & Extraction

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: Included  
Lubrication system: Manual lubricator

### Power Requirements

Power supply: 3-phase 400V  
Total power requirement: 14.5kW  
Levelling: Rubber damping levelling feet  
Side console: Included, housing electrical components

### Software & Warranty

Software: Ucam included  
Warranty: 1 Year as standard

### What's Included

- 3.5kW air-cooled spindle with Delta inverter
- Integrated vacuum bed with T-slots
- 5.5kW side channel vacuum pump
- 3kW twin-bag dust extractor
- Manual lubrication system
- Auto tool height sensor
- Handheld controller with 4.3" screen
- Ucam software

SCAN HERE



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