

 Advanced Robotic Technology

SMART ROUTER

XR4800

The Solution You've Been Waiting For!

DESIGNED FOR



FEATURES:

4m x 1.5m WORK AREA
MATRIX VACUUM DECK
3.8KW 24000RPM SPINDLE
TOOL LUBRICATION SYSTEM
TOUCH SCREEN CONTROLLER
SERVO POSITIONING SYSTEM
AUTOMATIC 10 TOOL CHANGER
AUTOMATIC ACCESSORY CONTROL



Options Available for the ART Smart Router XR4800

Toolpathing & Nesting Software, Laser Alignment Tool, Vacuum Pump, Dust Extractor, Directional Air Jets, Tangential C Axis, Rotary A Axis, Vibrating Knife, Drag Knife, Steered Wheel Cutter, Tangential Inkjet Printer

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The new ART SMART ROUTER offers an unbeatable combination of performance and affordability. ART has used its extensive experience to engineer this high performance CNC cutting machine to suit your budget.

The ART SMART ROUTER is packed full of features that are normally reserved for much more expensive machines. Fully welded steel construction provides an extremely rigid platform for the high torque servo drive system to work on.

The SMART ROUTER features a 10 position ATC (Automatic Tool Changer) as well as an inbuilt tool length sensor for measuring the length of new tools. The controller measures, calibrates and stores the offsets for each tool automatically.

The Matrix Vacuum Deck available as standard on the SMART ROUTER has been developed to provide optimum clamping performance. The deck is machined from solid phenolic panels which are ported through 4 outlets. The vacuum pump and automatic inlet valve are separately switched by the controller. Additional automatic valves may be added for complete autonomous control over different sectors.

ART has added optional features to allow you to tailor the machine to your method of operation. Available options include a bar code scanner, laser digitizing facility and more. For cutting aluminium and other metals, the SMART ROUTER can be optioned with automatic misting lubricator jets that are only activated when in the material. This avoids waste and mess.

- Sign Writers
- Cabinet Makers
- Shop Fitters
- Aluminium Cladding
- Plastic Fabricators
- Wood Workers
- Boat Builders
- Duct Makers
- Nested Manufacturing
- Mould Makers
- Engineers

Specifications:

Work Area (XYZ)	4000mm x 1550mm x 200mm
User Interface	Touch Screen / ART ProfileShop
Motion Controller	DSP Based Motion Controller
NC Format	Standard G Code (RS-274)
Spindle	Ceramic Bearing 3.8 KW 24000 RPM
Tool Changer	10 Tool Gantry Mounted Rack
Max Feed Rates	30 mtrs/min (24 mtrs/min)*
Resolution	< 0.006mm All Axes
Vacuum Sectors	4 Sectors - 1000mm x 1550mm
Extraction System	Integrated Combination Dust Foot
Positioning System	Brushless Servo Motors
Mechanical Drive	X Rack & Pinion, Y & Z Ball Screw
Guidance System	25mm Linear Bearings - All Axes

ART can help you by choosing the best tools for your application. ART is able to offer specialised cutters to suit most materials. With the help of an ART Smart Router, your business will enjoy the great benefits of increased quality, efficiency, accuracy, repeatability and reduction of waste.

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