

## NEW AUTOMATIC DUCT MAKING MACHINE

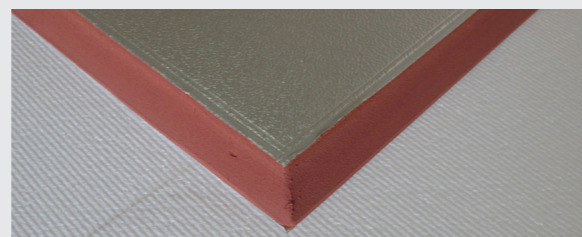
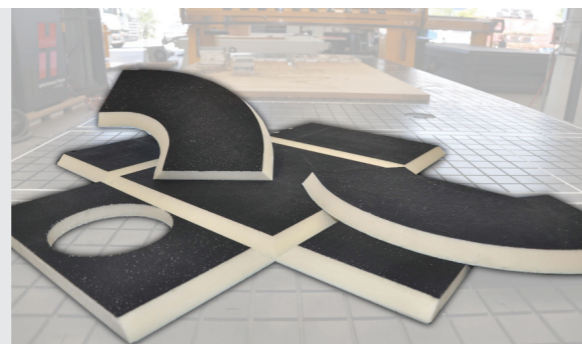
### SMART XR4800D

#### ALL-IN-ONE CUTTER MACHINE FOR THE HVAC INDUSTRY

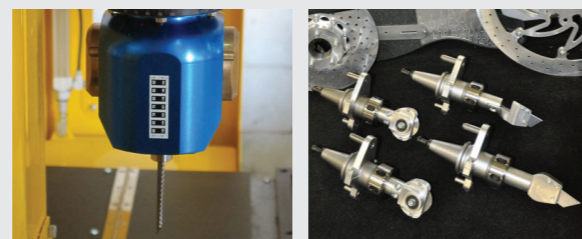
By combining a fourth axis to its SMART ROUTER series, ART transforms a once messy job into a clean, automated process, offering specialty tools designed for the HVAC industry

**Suitable for the following materials:**

- Insulated duct board
- Fibreglass and polyester insulation
- Fabric & textiles
- Plastic & rubber
- Timber products
- Aluminium sheet



Duct board cutting made easy!



Additional 4th axis allows for automatic changes between:

- Variable angled knives
- Steered reciprocating knives
- Steered wheel cutters
- Router bits & drills
- Markers

SMART  
XR 4800  
CNC Router



# CNC Cutting Solutions for the HVAC&R Industry



THE TRUSTED NAME  
IN CNC TECHNOLOGY

Contact ART today to bring your  
machining in-house and save!

[www.advancedrobotic.com.au](http://www.advancedrobotic.com.au)

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CASE STUDY

# Automated duct board and fibreglass cutting boosts productivity

By nature, manual processes can be far more costly than those that are automated with the right tools. However, for certain types of operations, the motivation to automate goes beyond potential cost and time savings. Cutting a batt or sheet of fiberglass insulation can be messy and frustrating. The fiberglass is fuzzy and difficult to cut straight.

At NT-based Veetemp, a manufacturer of heating and air-conditioning systems, company director Stephen Howe realised the potential of an automated duct board and fibreglass cutting process and went on a journey to find the best solution for the established business, specialising in commercial installations, and decided to invest in an ART XR4800D SMART router.

Until recently, no one had developed an automated system dedicated to manufacturing duct board, fibreglass and other

air conditioning and refrigeration (HVAC&R) industry – and there is no other machine currently on the market offering the same advanced features and tools.

“The HVAC industry is a very competitive industry,” says Mr Howe. “That’s why we decided to automate our duct board and fibreglass insulation cutting process in order to be more competitive and increase productivity.”

Mr Howe looked at different machines from various manufacturers but says that there’s no alternative to the ART SMART router, which simply ticks all the boxes.

“The tooling on it is amazing,” he comments. “There is nothing like it that I saw on the market. The toolchanger with the ten tools is superb, the software is brilliant, and having all the tools including a pizza cutter to cut fibreglass insulation available is ideal for our production needs. We can cut circular holes into duct board for our spigots, all done in one piece.”

The gantry-mounted covered automated toolchanger turns creasing, variable-angle cutting, V-grooving and routing of insulated duct board into one efficient fully automated process. Other benefits include the elimination of mistakes and second cuts, no more marking out by hand, simplified complicated-angle cutting, complete dust removal for V-grooving and complete panels ready for joining done in one process.

For Veetemp’s Stephen Howe there is no doubt his investment will pay off. “We expect the return on investment in under two years; and that’s maintaining our normal profit level on our ductwork,” he comments. “The monthly costs for the machine are less than the costs for a worker, in fact, the machine gives us the equivalent of three workers. I’m very happy with it!”

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Veetemp Director Stephen Howe, Darwin, NT

insulation material used in the HVAC&R industry. In 2010, Australia’s premier manufacturer of CNC routers and plasma cutters, Advanced Robotic Technology (ART), launched its SMART Router series XR4800d with additional features designed to suit all applications within the heating, ventilation,



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Advanced Robotic Technology

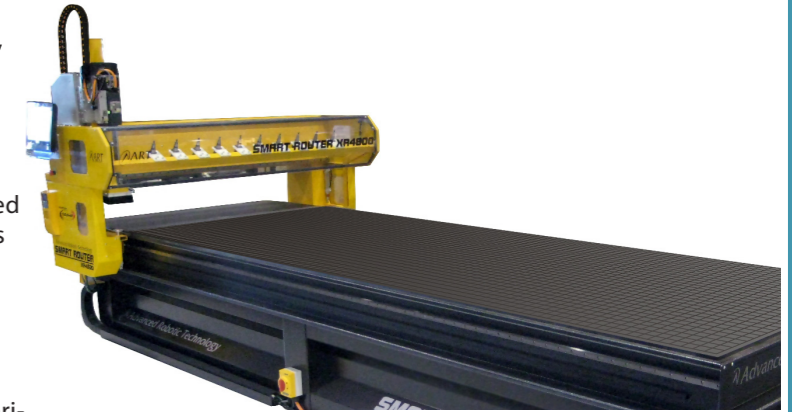
## SMART XR 4800 ROUTER

# All-in-one CNC router for the HVAC&R industry

By adding a fourth axis to its SMART Router series, ART transforms a once very messy job into a clean, automated process, offering the following and many more special tools designed for duct board cutting:

- Variable angled knives,
- Steered reciprocating knives for duct board & fibreglass insulation etc.,
- Steered pizza cutter wheels for creasing and cutting a variety of insulation materials.

The machine comes with a process area of 4000mm x 1600mm, perfectly sized for insulated duct board supplied in 4000mm x 1200mm as a standard. The SMART Router series is unique in the Australian marketplace, as it is the only 100% Australian-made machine designed for HVAC applications.



ART can help you choose the best tools for your material: Specialised V-cutters to suit most material thicknesses and router bits to match guarantee you get the best finished result, how you want it, time after time.

## Other products available for the ducting industry:

ART's SMART XR and XP plasma cutters offer reliable plasma technology at a low investment cost, yet featuring a high level of performance and features for all sheetmetal needs

Available in 1.6 and 1.9m wide process areas, the XR Plasma machine is designed to work with most commonly available sheet and plate sizes up to 20mm thick.

PLASMA CUTTING

SMART XR Plasma

SMART XP Plasma

SMART XR 4800 Router

ToolShop Software

For more information please visit [www.advancedrobotic.com](http://www.advancedrobotic.com)

ToolShop is ART's in-house developed, industry leading CAM package: Quickly apply machining toolpaths and nest into material for minimal waste!

