



TRIDENT

CNC Router Systems

TRIDENT Series



ROUTING - ENGRAVING - 3D CARVING - PLASMA - PRINT TO CUT - KNIFE CUTTING - MOULD MAKING - PROFILING



TRIDENT

XYZ International has elevated the standards required by today's sign and digital industry by developing its most versatile router ever. The all new Trident is a complete CNC solution that encompasses everything required to get the best from your signs and graphics, from cutting and routing to engraving.

Trident Series

Digital finishers are being asked to do more, from routing aluminium and acrylic to cutting paper, vinyl, foam board, coroplast, styrene and rubber.

Faster - Wider - Longer - Deeper

The Trident machine is designed to meet the traditional demands of the print finishing industry, while delivering overwhelming power to take on more demanding projects.

Trident 4000 Series - 1524 mm process width

Trident 5000 Series - 1842 mm process width

Trident 6000 Series - 2159 mm process width



The Trident Series is configured with your choice of routing spindle and two knives which can be either tangential or oscillating, or a combination of both.

There is also a wide range of options available including an auto tool changer and the XYZ AVS camera registration system. The AVS system quickly finds and recognises conventional registration marks to adjust the cutting path, providing exact alignment and 100% accuracy.

The industry exclusive "Live Vacuum Deck" technology further increases accuracy with automatic vacuum zone switching that ensures optimal holding power.



The most versatile router-knife combination in its class, designed for the print finishing market

Built in North America using the best technology in the world, including high speed servos on the knife tools for lightning-fast performance

SPECIFICATIONS

Construction

Steel frame and aluminium construction providing a strong, rigid structure for a high quality and accurate cut finish.

Process Areas

Trident 4000 Series: 1524 mm width. Lengths from 1219 mm to 14021 mm

Trident 5000 Series: 1842 mm width. Lengths from 3048 mm to 14021 mm

Trident 6000 Series: 2159 mm width. Lengths from 3048 mm to 14021 mm

Gantry Clearance

6" (150mm).

Workholding

AXYZ Live Deck. This unique system automatically directs the vacuum according to the position of the cutting head.

Choice of high performance vacuum pumps or blowers.

Machine Bed

Flat machined aluminium work surface.

DRIVE SYSTEMS

Drive System

Helical rack and pinion on X and Y.

Servomotors on all axes.

Limit Sensors

Limit sensors on all axes for accurate, fast and repeatable machine homing.

Tool Calibration

Automatic sensing of tool length to save time and ensure consistent and precise cutting depth control.

HEAD AND SPINDLE

Routing Spindle

Spindles up to 10hp with manual quick release or full automatic tool change options.

Chip Removal

A high capacity, cyclonic pressure foot, with the optional brush ring and nose rider features, ensures a clean working area and enhanced material hold down at all times.

Consumables

A starter selection of cutters and collets.

Machine tools and manual.

CONTROL SYSTEM

Hardware

The dedicated AXYZ A2MC machine control system uses state-of-the-art technology to deliver incredibly smooth and fast motion at the cutting head. It is managed through a machine side Smart Console that provides the operator with a flexible and powerful interface. The machine motion is based on full seven-segment (S-Curve) technology, which significantly reduces vibration caused by harsh acceleration.

- Network communications for fast program transfer
- Almost unlimited program size
- Industry Standard NC control using G and M codes
- FPGA processor for high speed complex calculations
- 8Gb onboard memory expandable to 16Gb and more

SYSTEM OPTIONS

Customise your Trident machine with a wide choice of options, including:

- Fully automatic 7 or 21 station carousel toolchange system
- AVS camera registration system
- Spray mister for coolant and/or lubricant
- Pop up pins for fast and accurate material location

Processing a wide range of materials requires more than one cutting head. The Trident combines three different cutting technologies to provide maximum versatility.

Routing Spindles

Routing spindles up to 10hp are required for cutting harder materials such as aluminium, acrylic, ACM and woods. Spindles can be manual, quick release or fully automatic tool change for the highest productivity.



Tangential & Oscillating Knives

The Oscillating knife slices through softer materials such as foam with ease, delivering clean cut edges. Blades up to 4.75" long can be used. The Tangential knife unit tackles heavier and harder materials. Interchangeable blade attachments allow maximum versatility for processing with full directional control.



**Contact *AXYZ* today for more information and
a machine quotation based on your specific needs**



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