



Z Series

The AXYZ Z Series of CNC routers, by AXYZ Automation Group, are our entry level full sized systems. Manufactured in the same facility, and sharing many of the same components as the AXYZ and Pacer Series, the Z Series delivers a high quality machine with excellent reliability at an entry level price.

The **Z Series** CNC routers offer the robust construction that AXYZ products are known for, combined with a budget conscious set of configurations. these are multi-purpose routing machines, designed for cutting all types of plastics, woods, foams and non-ferrous metals in both 2D and 3D.

The **Z Series** machines are designed for a high performance to price ratio. With features that you find on much higher priced machines including welded steel frame, profile linear bearing rails, ballscrew Z axis and a multi-purpose aluminium vacuum and clamping deck, the Z Series is hard to beat.



- *Low cost, high value series*
- *Excellent reliability and ease of use*
- *Steel frame construction for maximum rigidity*
- *Solid aluminium vacuum / clamping deck*

High Quality Machine Systems on a Budget Price

SPECIFICATIONS

Construction

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

Process Area

Y - Axis X - Axis

XYZ Z7: 60" (1524mm) x 98" (2500mm)

XYZ Z3: 52" (1320mm) x 53" (1345mm)

Z axis clearance – 6" (150 mm) Z axis Stroke – 7.5" (190 mm)

Workholding

High vacuum deck configured with 4 switchable zones and 8.5Hp blower for optimum workholding and versatility included as standard.

Machine Bed

Flat machined aluminium work surface ready for use with sacrificial vacuum board.

DRIVE SYSTEMS

Drive System

Rack and pinion drive system on X and Y axis. Precision ballscrew drive with preloaded ballnut and fully enclosed ball recirculation system on Z axis.

Drive Motors

High Torque stepper on all axes, twin motor on X.

Feed rate

Maximum feed rate 700ipm.

Proximity Sensors

Auto seek sensors on all axes for accurate and fast datum calibration.

Tool Calibration

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

HEAD AND SPINDLE

Routing Spindle

The XYZ Z7 comes with an Elte 5.0hp (3.5 kw) included as standard. Spindle speed range 6,000 - 24,000 rpm.

The XYZ Z3 comes with an Elte 3.0hp (2.2 kw) included as standard. Spindle speed range 12,000 - 24,000 rpm.

Both 100% rated for continuous high speed operation and inverter driven for constant torque while cutting.

Chip Collection

High capacity pressure foot for material hold down and chip collection.

Consumables

A starter selection of cutters and collets. Machine tools, Manual and Cutter Guide.

CONTROL SYSTEM

Hardware

The A2MC is XYZ Automation Group's next generation machine control system and is fitted as standard on the Z Series machine. With a high-capacity, solid state storage there is plenty of room for programs which run fast and smoothly on S-Curve trajectories. The A2MC connects to your local network for instant program download.

Machine System Options

A wide range of options are available which allow you to customise your Z Series to suit your exact needs including:

- Unist mister for coolant and / or lubricant while processing non-ferrous metals, plastics and composites
- XYZ Vision System for print to cut registration
- Vacuum hold down systems including regenerative blowers and dry vane pumps
- ArtCAM Insignia, Express or Pro
- Collet drag knife

Power Requirements

The Z7 is available for use with a three phase power supply.

The Z3 is available for use with a single phase power supply.

A2MC Control System

The A2MC is XYZ Automation Group's next generation control system and represents a tremendous leap forward in controller technology. It combines ease of use with exceptional performance to help maximise productivity and quality of cut.



7.5 Kw Regenerative Blower

The 7.5 Kw regenerative blower is a powerful and reliable solution for vacuum hold down. Securely held parts will have a better cut finish and extrusion of dust and chip will be much easier.



High Capacity Pressure Foot

The high capacity chip extraction foot is a vital component of the Z Series router. Without excellent extraction of the chip and dust that is created, the mess created can be time consuming to cleanup, and can be a working hazard for your employees.



* For clarity, some images may not show all safety devices, material clamping or dust extraction systems.

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