

## Configuration Options

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- Regenerative Blower
- Pneumatic Switching
- Vacuum Arm
- Auto Zone Switching
- ACM Swarf Collection System



# Series System Options

AXYZ CNC Routers have the widest range of machine options available. Focusing on productivity, AXYZ has engineered machine configurations and tooling options to provide your business with the router best suited to your needs.





The option set that AXYZ International has developed over the last 20 years is easily the most diverse in the industry. Through ongoing research and development, and close ties with our industry partners and vendors, AXYZ has been able to create a large set of machine options that add enormous value to our customers.

## CNC System Options

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The machine options have been divided into 5 sections:

**Configuration Options** – These describe the different styles of gantry and tooling configurations that are currently available for AXYZ Systems.

**Cutting Options** – These are the primary cutting tools that are available, including routers, knives, drills and more.

**Secondary Options** – These are typically accessories to make more efficient use of your CNC Router, including misters, swarf collection feet and more.

**Accuracy Options** – These machine options will help you locate your material and tools for more accurate cut parts.

**Vacuum System Options** – These options include vacuum hold down pumps and blowers, as well as swarf collection systems.

Most of these options apply to the AXYZ Series machine exclusively. Others are available on the CAMTECH and PACER systems as well. Speak to an AXYZ technical sales specialist to configure the machine to best suit your needs.



## Configuration Options



### ATC - Automatic Tool Changer

The XYZ 7G and 21G automatic tool changer systems provide an easy and convenient method of running jobs requiring multiple routing tools. Combined with an HSD quick release spindle, and using a seven or twenty-one position automatic carousel, the ATC system is the fastest method of changing tools on a regular basis and will deliver a dramatic improvement in throughput capacity when processing multiple tool operations.



### Multiple Tools

Faster and more flexible production is as easy as choosing a single, double or even triple head carriage for multiple tasking operations. This tooling configuration is popular for applications that typically require only two or three tooling processes. Rout, profile, trim and drill in a seamless sequence.



### Multiple Carriages

To improve efficiency, multiple carriages can be mounted on one gantry to allow you to run multiple versions of the same job. Each carriage is independently driven to maintain part accuracy. For larger applications requiring full process width of a single carriage, the second carriage can conveniently be parked at the end of the gantry. Both carriages may be configured with automatic tool changer carousels.



### Extended Gantry Height

The standard gantry clearance is 150mm for all XYZ Series machines. For applications that need a deeper throat clearance such as mould making or three dimensional carving, extended clearances are available. Extended clearances are available at 200mm, 250mm and 300mm. Other heights are available upon request. Speak to your XYZ technical sales person for more information.



### Extended Gantry Length

Extended gantry lengths allow for full processing width when utilising wider carriages that accommodate multiple tools or when using multiple carriages. Extended gantries can also be utilised for custom cutting solutions where "off-the-table" material processing is required.



### Heavy Duty Steel Gantry

Aluminium gantries provide an ideal balance of strength to mass for most cutting applications however for situations that benefit from the greater mass of a steel gantry, our heavy duty steel gantries are available for any XYZ Series machine.



### Multiple Gantries

Multiple gantries on a single machine bed offer the user flexibility in machine use. Run different operations at either end of the machine, or park one gantry for large job processing over virtually the entire machine length.

## Cutting Options



### Quick Release Spindles

The 5.0 HP and 10.8 HP HSD quick release spindles are incredibly quiet and robust. With a simple yet powerful pneumatic quick release feature, these spindles can be operated manually or in conjunction with our ATC automatic tool changer carousel for automatic changing of tool bits.



### Collet Spindles

Our Elite line of collet and covernut spindles is precision balanced for fast, clean cutting and ultra-quiet operation. Available in 3, 5 and 10 HP models, and operating at maximum speeds of 18,000 (3 HP) and 24,000 rpm (5 and 10 HP) with high-speed ceramic angular contact bearings, their excellent design provides years of trouble free use.



### Plasma Cutting

Convert your Router to a plasma cutter in minutes. Cut aluminium, sheet metal and stainless steel up to 12mm thick at cutting speeds over 5m/min with excellent edge quality. The Hypertherm plasma cutting option with XYZ machine and control excellence provides an unbeatable combination. Includes torch, power supply and torch height control. An integrated fume extraction grid is also available.



### Multi-Spindle Drilling Head

A multi spindle drilling head is a key productivity tool for cabinet makers, case good manufacturers, custom millworkers, exhibit and display manufacturers. By bringing the hole drilling process onto your CNC Router, you can reduce the material handling and potential damage to your components, and at the same time reduce your labour costs. Drill heads are available in a 5 tool L shape or a 9 tool L shape.



### Engraver

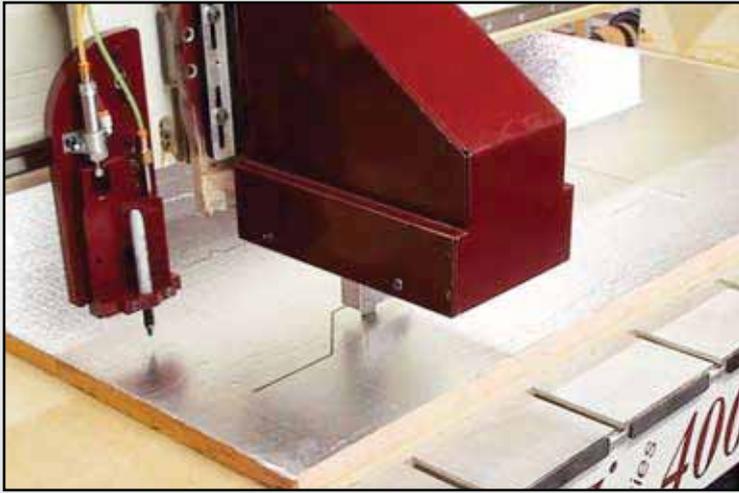
The engraver is specifically designed for light duty engraving on an XYZ Series or Millennium CNC Router. With an industry proven 6.35mm top-loading spindle, it is well suited to tackle a wide range of materials including plastics, aluminium, brass, and more. The engraver equipped XYZ Router table is a great alternative for large format engraving. With four mounting bolts and a quick power disconnect plug, it is very easy to install and uninstall from the table.



### Pneumatic/Electric Drills

Automatic feed drills are fixture mounted tools that combine linear feed and rotation for drilling and tapping operations. Available with pneumatic feed and either pneumatic or electric rotation. The pneumatic / electric combination is best for heavier duty or continuous use applications. Automatic feed drills can be added to almost any carriage configuration.





### Tangential Knife

The tangential knife is a robust knife cutting tool intended for heavier, thicker and harder materials than a traditional drag knife can accommodate. A tangential knife is a cutting blade that follows the plot lines of a shape by incrementally rotating the blade to match the path. This method provides for straight cut corners at any angle as well as true radii when called for. Available with either a straight blade or wheel style knife, the tangential knife can be used for cutting rubber, composites, duct liner and other soft materials.



### Oscillating Knife

The XYZ oscillating tangential knife option is an important tool for any company that needs to process thin flexible materials including foam core, gator foam, corrugated plastic or cardboard. These materials all present challenges for traditional router or knife tools, but the oscillating knife can slice through these materials with ease, delivering clean cut edges without fraying.



### Vinyl Knife

Used primarily for large format vinyl cutting, cutting paper mask on acrylic sheets for painting, and for cutting paint grip with standard vinyl cutting blades and blade holder. It can also be used for cutting vinyl on large format flex faced signs. The vinyl cutting knife can easily be attached without having to remove the spindle and as an added bonus, doubles as an effective pen plotter.



### Heavy Duty Knife

The heavy duty drag knife is designed for knife cutting applications that involve heavy gauge flexible materials. drag knife operations allow fast cutting speeds with all corners radiused by the drag offset of the blade.



### Creasing Wheel

The creasing wheel can be used in conjunction with the oscillating knife and provides a facility for creasing cardboard, corrugated cardboard and similar materials for sample making applications.

## Secondary Options



### High Capacity Pressure Foot

The high capacity swarf extraction foot is a vital component of your XYZ International CNC Router machine. Without excellent extraction of the swarf and dust that is created, the mess created can be time consuming to cleanup, and can be a working hazard for your employees. Available with a non-marking contact base for pressure foot operation or a brush ring for non-contact operation.

### Pressure Foot Options



**The Nose Rider Collar** sets the protrusion of the cutting tool through the bottom of the foot to ensure an accurate and consistent depth of cut.



**The Bellows Seal** significantly enhances the dust extraction process by helping to create a cyclonic vortex within the pressure foot chamber.



**The Brush Donut** avoids any marking of the material whilst at the same time providing an effective solution for the removal of dust and swarf.

## Accuracy Options



### Intelligent Cutting System

XYZ ICS is the most powerful vision registration system available in the industry today. While some systems can correct for skew and linear stretch, only ICS, powered by I-Cut can correct for any image distortions you can throw at it. Combine ICS with a router spindle and oscillating knife head for a digital print finishing system second to none.



### Unist Mister

For cutting non-ferrous metals including aluminium, brass and copper, the Unist mister operates with more precision and reliability than any other dispensing system available. The result is a continuous output of a microfine lubricant mist providing better cut finish and longer tool bit life.



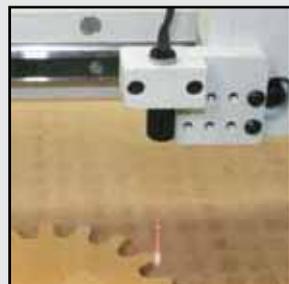
### Scantech Surface Scanner

Three dimensional laser scanner for reverse engineering a 3D surface. Easily mounts to the XYZ machine to scan the surface of a work piece. Advanced Carso software is included with the scanner which can edit the data before automatically creating the machining path for the router to follow. Use for scanning hand made or old parts for which CAD data is not available.



### Vortex Cold Guns

The cold air gun is a simple device that utilises filtered, compressed air and a venturi effect expansion chamber to produce cold air for spot cooling. This cost effective option eliminates heat related parts growth, most common to plastics and soft metal machining and serves to provide better edge finish and longer tool bit life.



### Laser Digitiser

The laser digitiser provides a fast and accurate way of capturing the geometry of any two dimensional part that is placed on the table. It is a particularly useful option for converting existing templates and fixtures into automated cutting files where original drawings do not exist.



### Pop-Up Location Pins

Hardened steel pop-up location pins are pneumatically activated to allow fast, repeatable placement of your cutting materials onto the machine. Pop-up Pins are the most reliable method of ensuring your materials are on straight; and with the full pneumatic retraction, there is no fear of any cutting tool collision with the pin.

## Vacuum System Options



### Becker Dry Vane Vacuum Hold Down Pump

The 10 HP Becker dry vane vacuum pump is perfectly suited for vacuum hold down on all XYZ Series Routers. Providing 175 CFM, the Becker 10 HP is a quiet and reliable source for vacuum hold down. For larger hold down requirements, multiple pumps are often run in parallel to create greater CFM flow. 5 HP systems are also available for smaller machine applications.



### Mink Rotary Claw Pump

The Mink rotary claw pump is an ideal high performance solution for powerful vacuum hold down. It delivers a constant vacuum and is therefore suitable for use in a variety of applications on all XYZ Series Routers. The Mink pump is oil free and can be run continuously if required. The non-contacting design of the rotors leads to a longer pump life with low maintenance.



### Regenerative Blower for Vacuum Hold Down

The 8.5 HP regenerative blower option is a low cost solution for vacuum hold down where the required cut parts are a minimum of 1250 sq cm in size.



### Pneumatic Switching

Pneumatic vacuum valves are an option that easily allows the opening and closing of vacuum zones on your CNC Router, without repeatedly turning the ball valves on and off. Simple pneumatic toggle switches open and close the vacuum hold down zones. The pneumatic switches are standard with auto zone switching systems.



### Vacuum Arm

The vacuum arm hose steel support arm effectively and conveniently provides a third hand in supporting the dust extraction vacuum hose. Available in sizes that fit most XYZ Router tables, the swivelling vacuum arm allows for snag free, full process table operation.



### Auto Zone Switching

Auto-vacuum zone switching is an innovative solution for vacuum hold down in systems that employ pendulum processing for maximum machine operation time. The auto switching enables the vacuum hold down zones for one end of the machine while the tool is in that zone, allowing the operator to easily clear the machine bed of parts and waste and then reload the cutting area with more material to allow virtually continuous operation of the XYZ Router.



### ACM Swarf Collection System

The ACM swarf collection system is a high pressure swarf collector that is configured for the efficient collection of aluminium, aluminium composite, wood and plastic swarf.

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



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