



MULTICAM CNC ROUTERS

Automation made simple featuring
the best value in the industry

APEX1R

The ultimate choice for quality, performance, and value-seeking end-users

As technology continues to advance at a rapid pace, it is crucial to invest in equipment that can adapt and scale to meet the changing needs of your business.

The Apex1R CNC Router is designed with small businesses and shops in mind, offering the same precise cutting and seamless motion that you would expect from any of MultiCam's routing systems.

1 Servo Motor Gearbox Drive System Assembly

Accurate positioning of all axes offers low-backlash, high precision cutting even during high torque application.

2 Knife Accessories

Providing a wide range of user-friendly oscillation and drag knife tooling options, allowing the operator to easily perform thin, thick, straight, or angled cuts.

3 Multiple Spindle Options

Comes equipped with a high-frequency spindle of up to 10HP and 24K RPM, providing optimal durability for cutting thin or dense materials.

4 All-Steel Construction with Helical Rack

Engineered for high precision, every welded stress relieved steel frame is milled for both helical rack and rail allowing for smooth, uniform motion even in high torque applications.

	Specifications
Max Material Thickness	3" 76 mm
Gantry Height	7" 178 mm
Repeatability	+/-0.001" +/-0.025 mm
Cutting Speed	1300 IPM 550.3 mm/sec.
Rapid Traverse	1900 IPM 804.3 mm/sec.
Drive System (X,Y)	Helical
Drive System (Z)	Ball Screw
Standard Work Surface	1" Phenolic 25.4 mm Phenolic

	Models
103	48" x 96" 1219 x 2438 mm
204	60" x 120" 1524 x 3048 mm
304	83" x 121" 2108 x 3073 mm

Other sizes available

Apex1R Options:

- Linear Tool Changer
 - › 4 - 14 Locations
- Laser Pointer
- Auto-Mister
- Dual Knives: Auto Quick Knife Exchange & Oscillator
- 24" Computer Workstation
- MultiVision Digital Registration System
- Dust Collection Systems with Duct Work
- Manual & Automatic Vacuum Valves



APEX3R

Raising the bar for
high-performance routing

MultiCam's flagship Apex3R CNC Router sets a superior standard for routing capabilities, making it the ideal solution for meeting the high-volume production needs of various industries.

Versatile machine that is designed and engineered to cater to a wide range of applications. It offers excellent routing capabilities for dense substrates, as well as knife cutting features that are perfect for foam and paper products.

1

All-Steel Construction

The sturdy base frame is manufactured using thick tube steel, this robust design provides the stability and support for the machine to excel in cutting applications. With the ability to cut through materials up to 5 inches thick, the Apex3R ensures minimal vibration and tight control during the entire cutting process, resulting in precision and accuracy that is unmatched in its class.

2

Multiple Cutting Technologies

Collet and ATC spindle options ranging from 24-32K RPM and up to 13.3 HP. Single or dual knives options: automatic drag knife changer, pneumatic or electric oscillating knife allowing the Apex3R to deliver exceptional cutting capacity and speed on a wide variety of materials and applications.

3

Precise Cut Quality

A high-precision gearbox and a tightly tuned AC servo motor system on 25 mm linear rails with a helical rack. This configuration ensures very low backlash and delivers pristine cut quality with precise accuracy.

Streamline your workflow

Productivity Options Include:

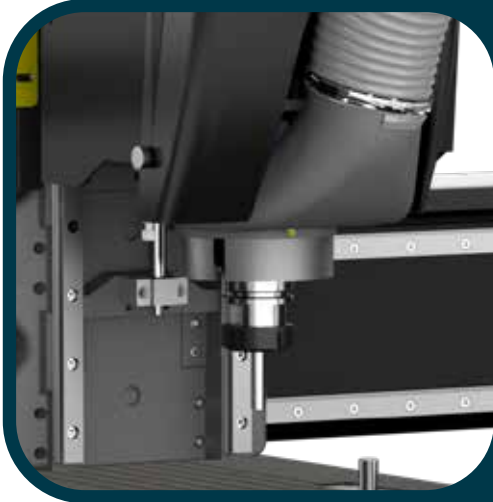
- Linear Tool Changer
 - › 6 - 22 Locations
- Rotary Tool Changer
 - › 12 Locations
- Motor Driven Dust Boot
- Pop-Up Alignment Pins
- MultiVision Digital Registration System
- Hands Free Surface & Calibration Sensor
- Laser Pointer
- Automatic Drag Knife Changer
- Pneumatic & Electric Oscillating Knives
- 24" Computer Workstation

	Specifications	
	4"	5"
Max Material Thickness	101 mm	127 mm
Gantry Height	6"	8"
	152 mm	203 mm
Cutting Speed	1950 IPM 825.5 mm/sec.	
Rapid Traverse	2758 IPM 1167.6 mm/sec.	
Repeatability	+/-0.001" +/-0.025 mm	
Drive System (X,Y)	Helical	
Drive System (Z)	Ball Screw	
Standard Work Surface	1" Phenolic 25.4 mm Phenolic	

Stock machine comes with standard 6" gantry clearance.

	Models
103	53" x 100" 1346 x 2540 mm
204	63" x 121" 1600 x 3073 mm
304	83" x 121" 2108 x 3073 mm
405	104" x 146" 2641 x 3708 mm

Other sizes available



5000 SERIES

Unmatched capabilities for heavy-duty applications

A highly versatile and powerful machine tool that provides a range of benefits. It is designed to withstand the most challenging industrial environments, ensuring maximum durability and longevity.

From aluminum to woodworking fabrications, and everything in between, this machine is capable of handling a wide range of materials and applications. Its versatility makes it the perfect solution for businesses looking to streamline their production processes onto a single, powerful machine.

1

High Horsepower Spindle
Accommodate larger diameter tooling with a 13.4 or 20 HP spindle to cut dense materials that demand higher torque capacity.

2

Motion Platform
Heavy-duty servo motors and high-torque precision gearbox assemblies that are designed to optimize performance, minimize vibration, and improve acceleration.

3

User-Friendly Operator Interface
The EZ Control interface provides operators with an intuitive platform to set up, configure, and operate the machine. This easy-to-use interface streamlines the manufacturing process and ensures maximum efficiency and output.

A multitude of options to optimize production and quality

Featuring a robust welded steel frame and spindle options of up to 20 HP, the 5000 Series CNC Router is a long-standing favorite in the industry.

This machine delivers exceptional dimensional accuracy, superior edge quality, and boasts optimum cut speeds of up to 1,920 inches per minute (IPM).

- The gantry-mounted 12-position rotary carousel enables rapid tool changes, allowing for efficient completion of your files.
- The advanced dual-head configuration is capable of cutting files using a single head, dual heads in tandem, or mirrored heads during a single cutting motion.
- The high-speed and high-horsepower spindle accommodates larger diameter tooling, making it ideal for cutting dense materials that demand higher torque capacity.

Productivity Options Include:

- 5x5 Gang Drill Bank
- Dual-Head ATC Configuration
- Dual Knives
- Motorized C-Axis for Aggregate Tooling
- Linear Rack for Aggregates or Additional Spindle Tools

Max Material Thickness	Specifications		
	6" 152 mm	8" 203 mm	
Gantry Height	8" 203 mm	12" 304 mm	16" 406 mm
Cutting Speed	1920 IPM 812.8 mm/sec.		
Rapid Traverse	2715IPM 1149.4 mm/sec.		
Repeatability	+/-0.001" +/-0.025 mm		
Drive System (X,Y)	Helical		
Drive System (Z)	Ball Screw		
Standard Work Surface	1" Phenolic 25.4 mm Phenolic		

Stock machine comes with standard 8" gantry clearance.

Models	
103	50" x 100" 1270 x 2540 mm
204	60" x 122" 1524 x 3099 mm
304	84" x 122" 2134 x 3099 mm
405	96" x 144" 2438 x 3657 mm
506	120" x 169" 3048 x 4292 mm

Other sizes available

Optimize your production workflow and sharpen your techniques

Enroll in our Applications Training Courses

Our training programs, led by industry professionals, offer hands-on experiences and in-depth understanding of practical application and techniques tailored to your production needs. Whether you prefer to complete your courses on-site at your business location or at our headquarters in Dallas, TX, you can count on receiving top-notch training that will sharpen your skills and optimize your workflow. Our programs are designed to meet the specific needs of your business, ensuring that you get the most out of your training experience.

Phone Support & Field Technicians

Choose MultiCam Service for the best care of your machine. Our nationwide team of factory-trained and certified field technicians has over 140 years of combined hands-on experience to provide comprehensive support for your machine, both during and after your designated warranty period. With our expert service, you can rest assured that your machine will be well-maintained and functioning optimally, allowing you to focus on your business and maximize your productivity.

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