

CNC

5000 Series Router

Reliable turnkey solutions for any application requiring value, performance and versatility.



MULTICAM
Complete CNC Solutions

RUGGED, RELIABLE...

...& BUILT TO LAST

5000 SERIES ROUTER

The MultiCam 5000 Series CNC Routers are extremely flexible machines. We designed them for easy configuration to meet high-speed routing application requirements. Use this rugged cutting system in a broad range of woodworking, plastic, and non-ferrous metal production needs.

Rigid all-steel construction and a space-saving, moving gantry design make the 5000 Series robust, commercial-grade machines designed for heavy-duty CNC routing. With the industry's largest range of standard table sizes and spindle configurations, MultiCam's 5000 Series is an ideal choice in today's competitive manufacturing environment.



FEATURES & SPECIFICATION GUIDE

PERFORMANCE / EASE OF USE / PRODUCTIVITY

FEATURES

No machine offers more features than the innovative and versatile 5000 Series Router.



Gantry Engineered for Performance

The gantry is fabricated from 8" x 12" structural steel tubing with 0.625" welded bard stock supporting the linear rails. This assembly is stress relieved prior to precision machining. Gantry clearance 8" in 12" or 16" options.



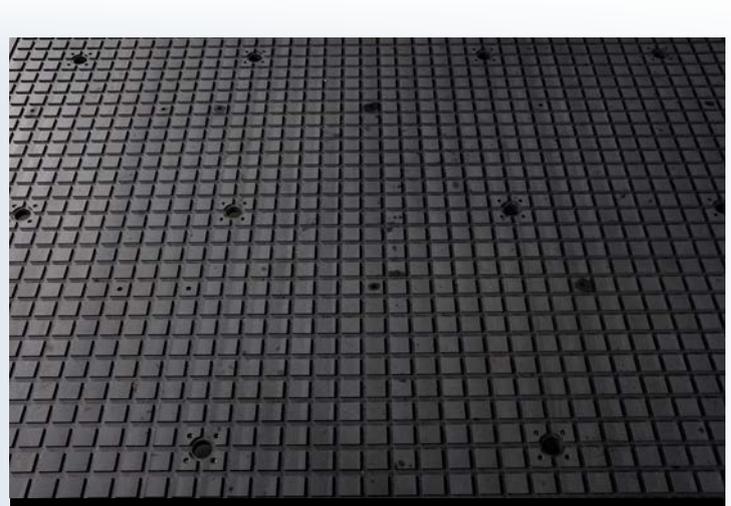
Gantry Supports High Strength, Minimal Vibration

The cast iron gantry supports are precision milled using a 4-axis horizontal machining center to guarantee precise perpendicularity datums. These milled cast supports have inherent vibration dampening characteristics that give rigid smooth support to the gantry tube.



Base Frame Solid, Heavy-Duty Construction*

Standard 5000 base frames are one-piece welded plate frame design while larger size models are tube frame. All base construction is heavy for stability and stress relieved before they are precision milled.

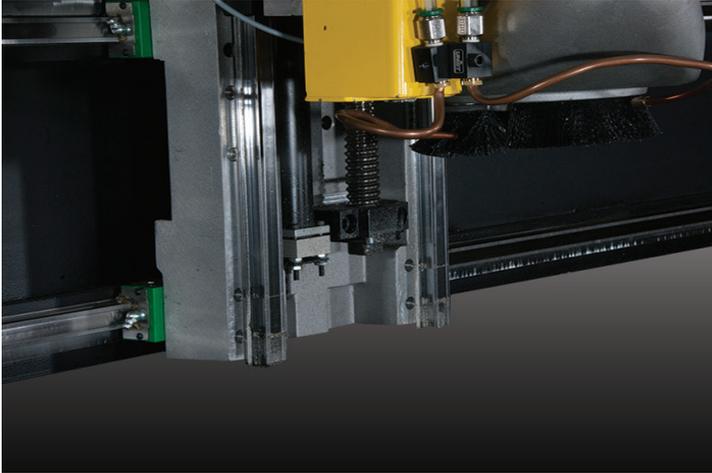


Working Surfaces Versatile, Effective, Multi-functional

The standard working surface is 1" thick 80-82 Durometer phenolic with a machined 1.5" grid pattern utilizing .25" x .5" foam gasket tape. Phenolic makes an excellent work surface because of its dependable mechanical strength and dimensional stability.

FEATURES

No machine offers more features than the innovative and versatile 5000 Series Router.



Z -Axis Assembly **Precise & Robust**

The 5000 Series Ball Screw Assembly has an available 17" of stroke that is ideal when using specialty tools. It allows for the option of adding larger gantry clearance in the field. Gantry riser blocks are available to increase the throat of the machine by 4" or 8".



EZ Control **Easy-To-Use**

MultiCam EZ Control is one of the most powerful yet easy-to-use motion control systems available on the market. Allows for multiple job reference positions as well as Z surfacing, electronic depth safety system, proximity restart and cut speed & spindle RPM override.



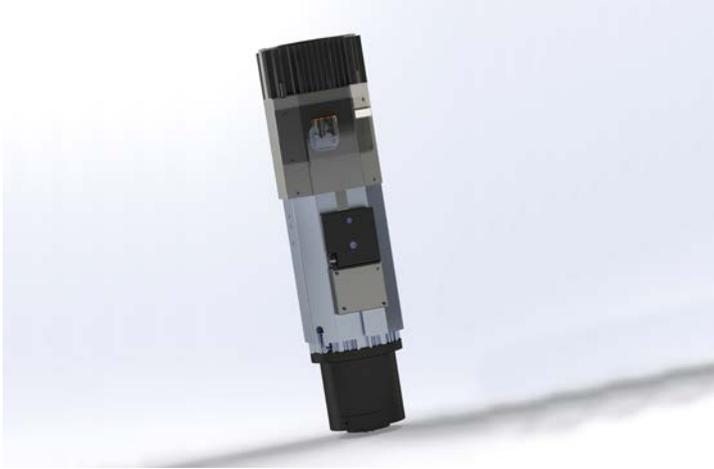
Helical Rack & Linear Bearings **Fluid & Accurate**

Helical rack provides superiorly smooth motion along X & Y axis with the robust 25mm linear bearing profile rails that are standard in the X, Y & Z axis with stainless steel strip covers.



Digital Servo Drive System **Powerful & Reliable**

Digital Servo drives and brushless digital ac servo motors form a digital vector servo drive system that is standard on all 5000 Series machines. This drive system integrates position, velocity, and torque loops seamlessly to provide uncompromised tracking accuracy, smoothness, and reliability.



Router Spindles

Multiple Options for Increased Productivity

All spindles are rated at 100% duty cycle. The standard spindle offering for this machine is a fan cooled 13.4 HP HSD pneumatic chuck with HSK 63 tool holders.



Drive Assembly

High Acceleration, Excellent Cut Quality

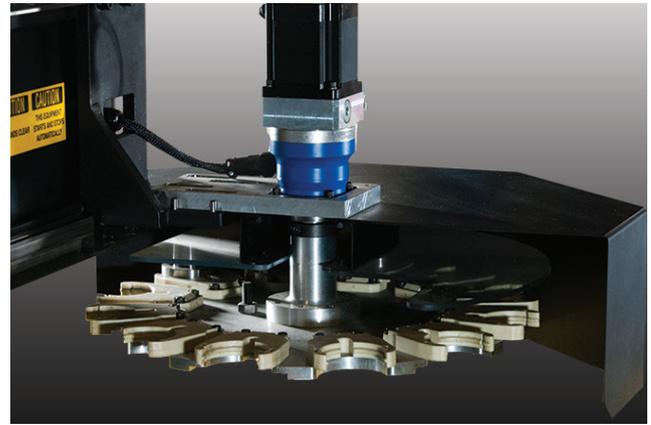
High-torque, brushless digital ac servo motors coupled to zero backlash Alpha gearboxes drive both the X and Y axes. This results in high acceleration of the gantry as well as excellent cut quality. Standard 10:1. Optional 20:1.

OPTIONS

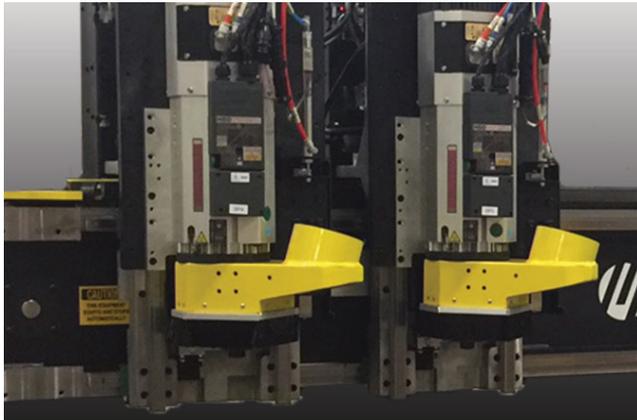
The 5000 Series provides a number of options to optimize your throughput and production capabilities.



MultiVision Digital Registration
Flexible & Exact



Automatic Tool Changer (ATC)
Optimized for Faster Throughput



Dual Head
Increased Capabilities



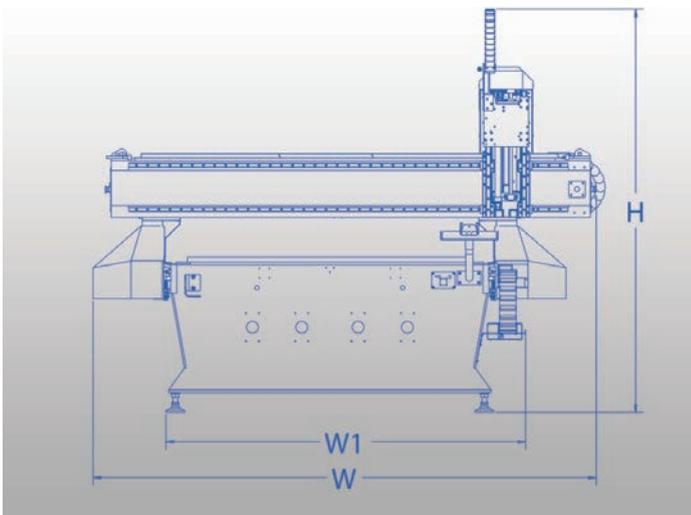
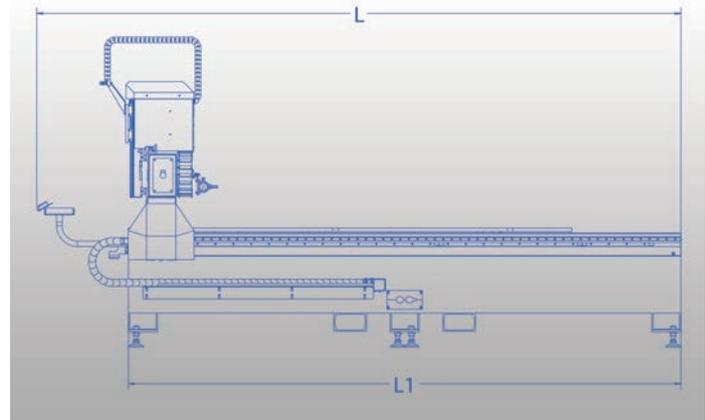
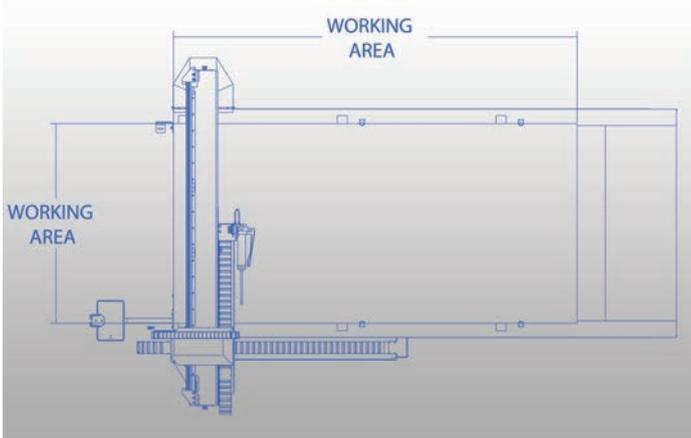
Tangential Knife
Versatility to Meet Demand

Other available options:

- Drill and Tap Spindles
- Programmable Z-Axis Dust Boot
- 20:1 Precision Gearbox Upgrade
- Drill Bank

- Motorized C-Axis for Aggregates

SPECIFICATIONS



Specifications	Inches	Metric
Z-Axis Clearance	8" *	114mm
Z-Axis Travel	17"	152mm
Slew	2700 IPM	1143 mm/sec
Drive System (X,Y)	Helical Rack	Helical Rack
Drive System (Z)	Ball Screw	Ball Screw
Standard Work Surface	1" Phenolic	1" Phenolic

*Optional 12" or 16"

Model	L (in/mm)	L1 (in/mm)	W (in/mm)	W1 (in/mm)	H (in/mm)	Working Area (in/mm)
5-204	184/4674	152/3861	99/2515	76/1930	86/2184	60.5 x 122 / 1537 x 3099
5-205	202/5131	170/4318	99/2515	76/1930	86/2184	60.5 x 145 / 1537 x 3683
5-304	184/4674	152/3861	119/3023	96/3023	86/2184	80 x 122 / 2032 x 3099
5-305	202/5131	170/4318	119/3023	96/3023	86/2184	80 x 145 / 2032 x 3683
5-308	300/6807	268/6807	119/3023	96/3023	86/2184	80 x 242 / 2032 x 6147

**Other models available



MULTICAM
Complete CNC Solutions

1025 West Royal Lane
DFW Airport, TX 75261



By phone:
+1 972.929.4070
Hotline:
855.894.3136



By email:
sales@multicam.com



Or online at:
www.multicam.com