

CNC

# APEX<sup>1R</sup>

Reliable turnkey solutions for applications requiring value, performance, accuracy, and versatility.



**MULTICAM**  
Complete CNC Solutions

# MAXIMUM FLEXIBILITY, MADE AFFORDABLE

## APEX1R

MultiCam heard the industry challenge and has built the first fully capable, turn-key CNC solution at an affordable price! This rigid and reliable servo driven machine has four spindle options and either a single or dual tangential knife option. Both the spindle and knife are perfectly suited to cut a multitude of materials with unsurpassed performance and cut quality.



## FEATURES & SPECIFICATION GUIDE

PERFORMANCE / EASE OF USE / PRODUCTIVITY

# PERFORMANCE

No machine in its class offers more standard features than the innovative and versatile AEPX1R CNC Router.

000 Series



## Gantry

### Custom Engineered for Maximum Rigidity

MultiCam engineered the gantry tube from aircraft-quality aluminum extrusion for maximum stiffness allowing users to cut at higher speeds for optimum edge quality.



## Working Surfaces

### Versatile, Effective, Multi-functional

The standard working surface is 1" thick 80-82 Durometer phenolic with a machined 30mm grid pattern and vacuum ports. Phenolic makes an excellent work surface because of its dependable mechanical strength and dimensional stability.



## Base Frame

### Solid, Heavy-Duty Construction

A solid-steel frame design is standard on the APEX1R. It provides a heavy and accurate platform that translates into gentle motion for clean, smooth cuts.



## Helical Rack

### Smooth Motion, Minimal Friction

Helical racks are standard on the APEX1R and provide smooth and accurate motion as the gantry moves through all axes.

# PERFORMANCE

No machine offers more features than the innovative and versatile APEX1R CNC Router.



## Z-Screw Assembly **Designed to Last**

The APEX1R utilizes a 5/8" diameter carbon steel ball screw. For high axial force loads, a precision mounting block with dual angular contact ball bearings holds it firmly in place.



## Servo Drive System **Smooth & Accurate**

The APEX1R, comes standard with a Robust Drive Motor system with Servo Drives to allow for powerful yet fluid motion.



## Router Spindle **High RPM's for Increased Capabilities**

The APEX1R comes equipped with a high-frequency spindle for optimal durability when cutting thin or dense materials.



## Coreo Software **Workflow Management**

The APEX1R comes with the intuitive Coreo CAD/CAM software. Divided into five segments, Coreo is designed to efficiently streamline work processes and maximize efficiency.

# EASE OF USE

MultiCam's APEX1R makes it easy for you to get the most out of your machine.



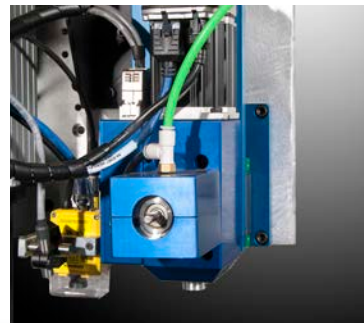
## EZ Control Powerful, Intuitive Control

MultiCam's EZ Control provides all users, from novice to advanced, with the most powerful and easy-to-use control system available on today's market. New operators can be productive in as little as an hour!



## MultiVision Dynamic Digital Registration

MultiVision provides additional flexibility by visually recognizing media registration marks and automatically compensating for skew and image drift.



## Tangential Knife Enhanced Cutting Capabilities

The programmable tangential knife expands the capabilities of the APEX1R by allowing a wide range of materials to be cut with an oscillating or non-oscillating knife option.



# PRODUCTIVITY

## OPTIONS:



### Auto-Mister Minimize Tool Wear

The auto-mister is designed for the use of cutting non-ferrous metals. The micro-mist system helps lubricate the tool when cutting, maximizing edge quality and minimizing tool wear.



### Laser Pointer Decrease Job Set-Up Times

Quickly and accurately identify reference points on the material to minimize job set-up time.

## Features:

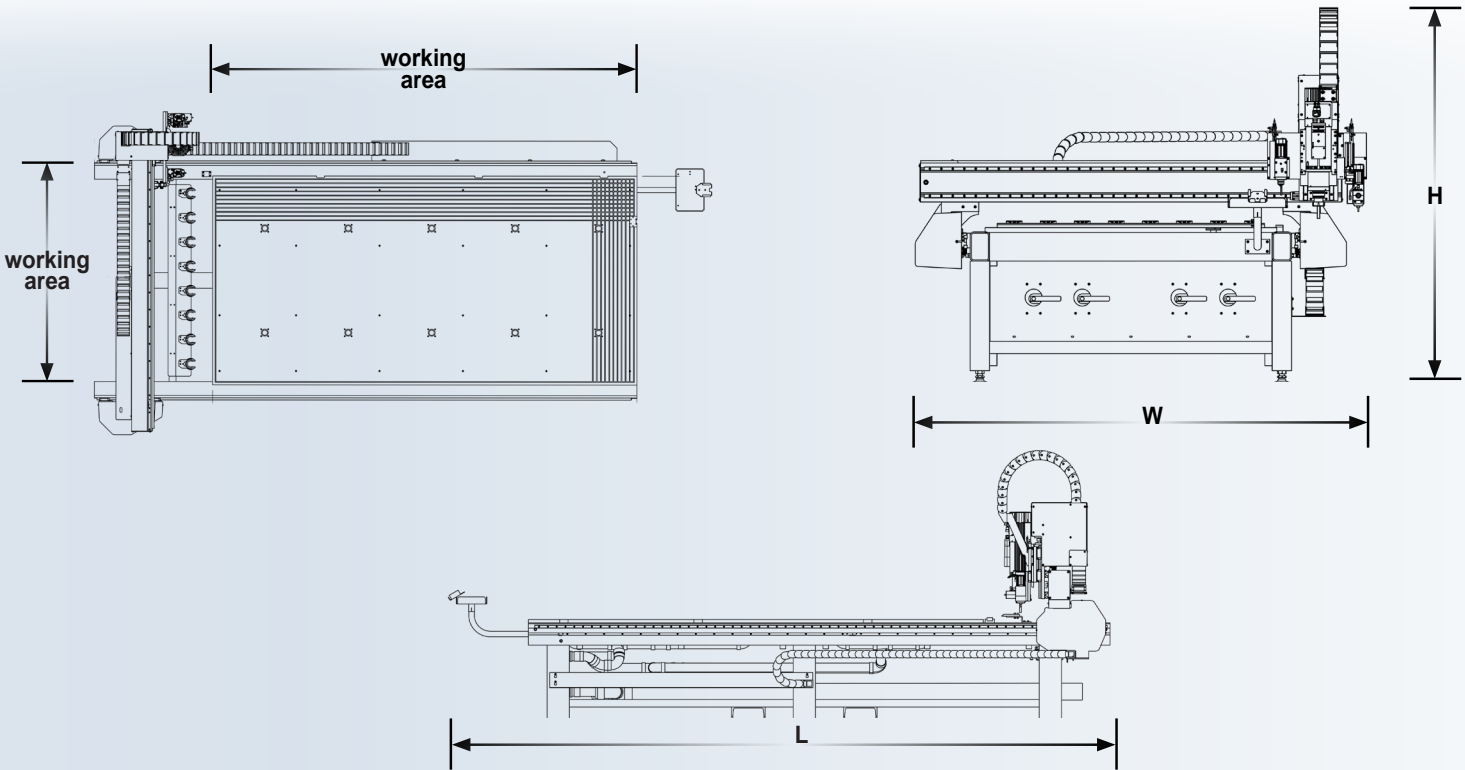
- Solid Steel Frame Construction
- High-Frequency Spindles
- Cast Dust Collector Shroud/Pressure Foot
- High-Speed Motion Controller
- Precision Dual X-Axis Drives
- EZ Control User-Friendly Handheld Operator Interface
- 20mm Linear Bearing Rails
- 10:1 Precision Planetary Gearboxes
- Tangential Knife (Dual or Single) (Option)
- MultiVision Digital Registration System (Option)
- Four Zone Vacuum Work Surface

| Model      | Length         | Width       | Height      | Working Area                | Weight             |
|------------|----------------|-------------|-------------|-----------------------------|--------------------|
| <b>103</b> | 151in/3835mm   | 81in/2057mm | 78in/1981mm | 48inX96in<br>1219mmX2438mm  | 1700lbs<br>771kgs  |
| <b>204</b> | 177.5in/4508mm | 93in/2362mm | 78in/1981mm | 60inX120in<br>1524mmX3048mm | 2200lbs<br>997kgs  |
| <b>304</b> | 177.5in/4508mm | 80in/2032mm | 78in/1981mm | 83inX121in<br>2108mmX3073mm | 2600lbs<br>1179kgs |



# SPECIFICATIONS

|                         |                        |
|-------------------------|------------------------|
| Z-Axis Clearance        | 5"                     |
| Z-Axis Travel:          | 7"                     |
| Slew (Diagonal)         | 1,900 IPM              |
| Slew Acceleration       | 30 in/sec <sup>2</sup> |
| Feed (Linear)           | 1,350 IPM              |
| Feed Acceleration       | 20 in/sec <sup>2</sup> |
| Drive System (X&Y Axes) | Helical Rack & Pinion  |
| Drive System (Z Axis)   | Ball Screw             |
| Standard Work Surface   | 1" Phenolic 4 Zone     |





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