

CNC

# Celero

## Digital Finishing System

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



**MULTICAM**  
Complete CNC Solutions

# GAME CHANGING PERFORMANCE

## CELERO DIGITAL FINISHING SYSTEM

The Celero Digital Finishing system is engineered to provide end-users with unparalleled performance as well as pristine cut quality. Perfectly balancing speed and precision the Celero utilizes linear motors to reach acceleration speeds of 1.2 G's as well as 12,000 inches per minute maximum traverse speed. This Digital Finishing system substantially reduces sheet-to-sheet time and helps maximize production speeds and workflow. Its unique modular design allows for easy transportation through double door entryways while still providing enough cutting area for large projects. The Celero also features a conveyor system for easy loading or unloading of material as well as automatic tool changing capabilities for both the spindle and knife.



## FEATURES & SPECIFICATION GUIDE

### PERFORMANCE / EASE OF USE / PRODUCTIVITY

# FEATURES

No machine offers more features than the innovative and versatile Celero Digital Finishing System.



## Gantry

### Engineered for Performance

The gantry is engineered from 10mm thick aircraft quality aluminum extrusion for maximum stiffness. References for the precision linear bearings are engineered into the design and have excellent parallelism.



## Working Surfaces

### Versatile, Effective, Multi-functional

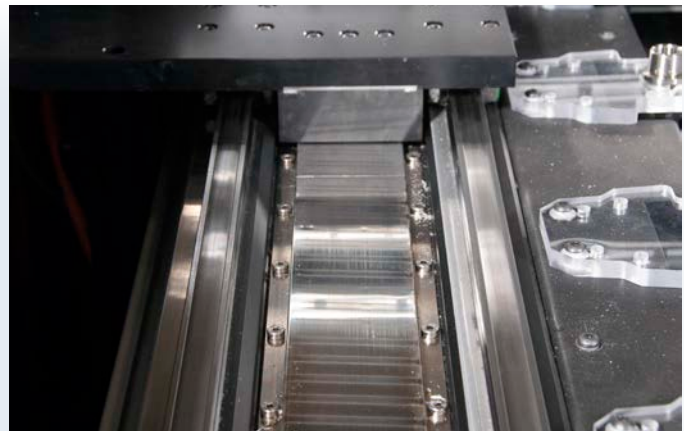
The standard working surface is 1" thick 80-82 Durometer phenolic with a machined 30mm grid pattern utilizing 25" x .25" foam gasket tape. Phenolic makes an excellent work surface because of its dependable mechanical strength and dimensional stability.



## Router Spindles

### High Speed for Increased Productivity

The standard spindle is a 3Kw, 50,000 RPM, HSD spindle which gives the user increased flexibility with high-speed routing in rigid materials.



## Drive Assembly

### High Acceleration, Excellent Cut Quality

Both the X and Y axes are driven by digital AC servo drives coupled to linear motors. This results in both high acceleration of motion as well as excellent cut quality.

# FEATURES

No machine offers more features than the innovative and versatile Celero Digital Finishing System.



## Digital Servo Drive System **Smooth & Reliable**

Digital servo drives and brushless AC servo motors combine to form a digital vector servo drive system that seamlessly integrates position, velocity, and torque loops to provide uncompromisable tracking accuracy, smoothness, and reliability. You will achieve tighter tracking, smoother motion, and faster rapid traverse - all of which yield superior cutting throughput and reliability.



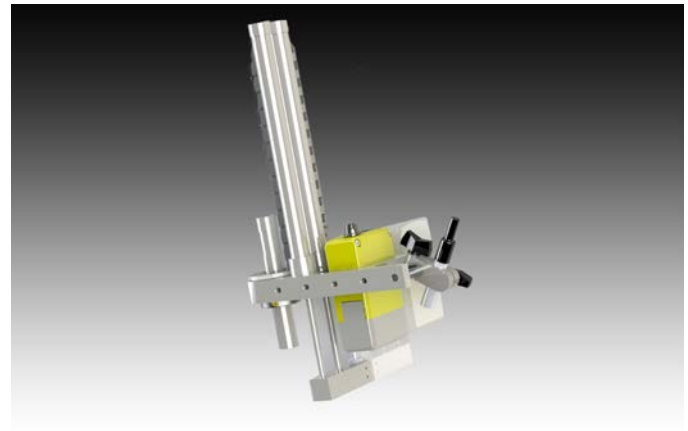
## Electric Oscillating Knife **Versatility to Meet Demand**

- **Stroke options: 1mm - 3mm**
- **Oscillation: 4000-8000 Stokes/min**
- **Stroke Force: 30lbs. (1mm) to 10lbs. (3mm)**
- **Air cooled oscillation motor**
- **Dimensions: 147mm x 88mm x227mm**



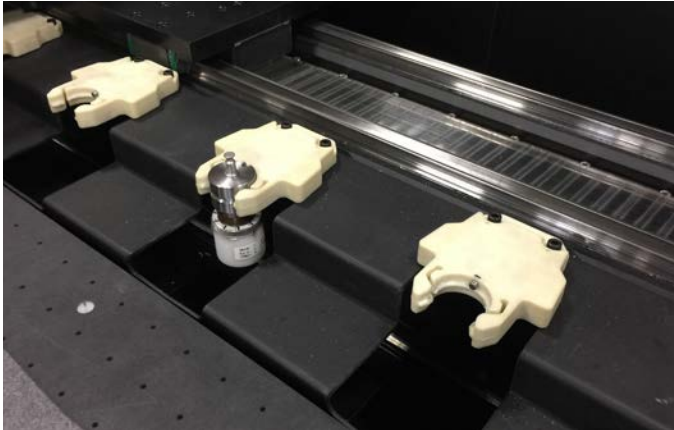
## EZ Control **Easy-To-Use**

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



## MultiVision Digital Registration **Flexible & Accurate**

The MultiVision Digital Registration System is a digital camera/software system which visually recognizes media registration marks and automatically compensates for slew, stretch, distortion, rotation, and image drift. This system easily integrates into your work-flow by utilizing state-of-the-art CAD/CAM software for enhanced tool path generation.



### Automatic Knife Changer (AKC) **Increased Efficiency**

MultiCam's exclusive Automatic Knife Changer allows changing up to 16 (5 standard) knife cartridges in a single cut program.



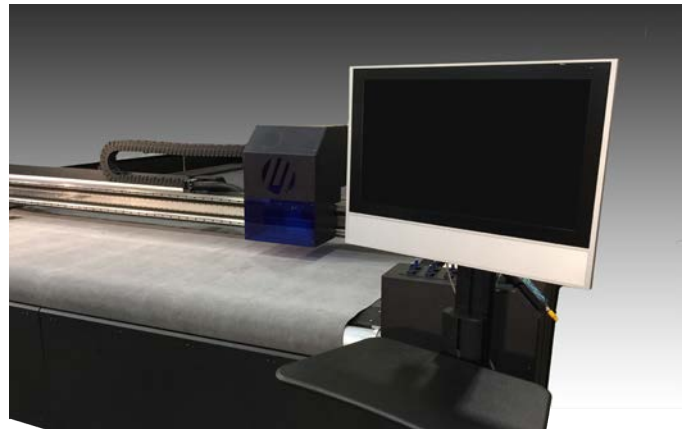
### Automatic Tool Changer (ATC) **Optimized for Faster Throughput**

The Automatic Tool Changer (ATC) provides end-users with up to 16 (5 standard) tools which can be automatically changed out under CNC program controls.



### Z-Axis Assembly **Precise & Robust**

The Celero comes standard with three (3) 14mm precision ground Z-Axis Ball screws. Each screw is held firmly in place by a precision mounting block with dual angular contact ball bearings for high axial force loads. Each Z-Axis screw is driven by a high torque, brush-less digital AC servo drive.



### Integrated Computer Workstation **Ergonomic & Convenient**

The ergonomically designed computer workstation places the computer at the front of the Celero Digital Finishing System for easy access to the controls.

# OPTIONS

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



## Conveyor System **Accelerate Your Production**

The Celero can also be ordered with an optional conveyor system for rolled materials and jobs longer than the table. The conveyor system belt serves as a vacuum cutting surface and automatically advances the material during jobs. Material can be continuously retrieved from a roll or sheets can be automatically fed.



## 16 Tool Changing System **Minimize Production Time**

Automatic tool changing (ATC) is available to increase the flexibility and throughput of the machine. Up to sixteen (16) tools can be automatically changed out under the CNC program control.



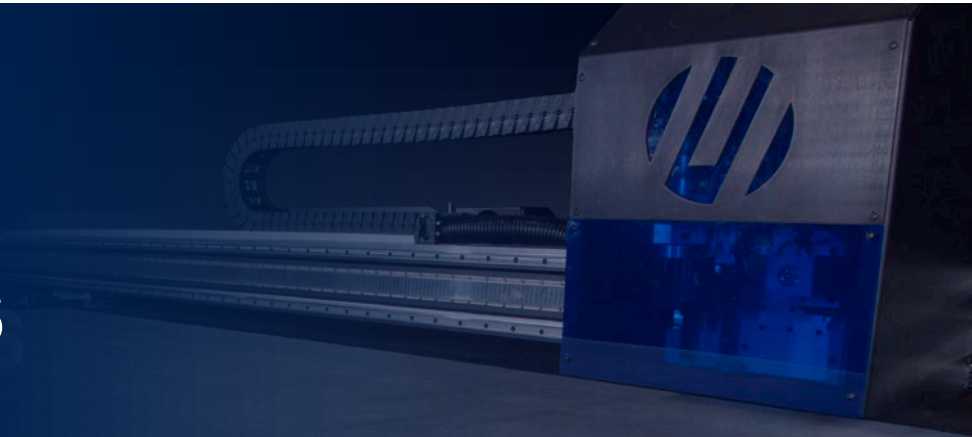
## Vacuum Pumps **Optimum Performance**

A standard vacuum pump includes a 10HP (225 CFM) or 17 HP (335 CFM), two stage regenerative blower. These heavy-duty pumps will maximize material hold down and are designed for optimal performance a wide variety of materials used in the digital finishing market. Other pump options are available for application needs.

## EZ Knife Cartridge Options

- A** Pizza Wheel
- B** Kiss Cut Knife
- C** Drag Knife
- D** Electric Oscillating Tool
- E** 45° Knife
- F** Creasing Wheel

# SPECIFICATIONS



Working Area (in/mm)
60x120 / 1524x3048
97x78.74 / 2464x2000
97x157.48 / 2464x4000
127x78.74 / 3226x2000
127x157.48 / 3226x4000
197x78.74 / 5004x2000
197x157.48 / 5004x4000

Specifications	Inches	Metric
Z-Axis Clearance	2.5"	63.5mm
Z-Axis Travel	6.5"	165mm
Repeatability	+/- .001"	+/- .025mm
Rapid Traverse	12,000 IPM	5MPS
Drive System (X,Y)	Linear Servo	Linear Servo
Drive System (Z)	Servo	Servo
Standard Work Surface	Phenolic	Phenolic



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