

100 Series CLN Router Table System



Ideal for Plastic, Aluminum, Wood,
MDF, Foam, Brass, PVC and more.

- Available in 4x8, 5x10, 6x12 and Custom Sizes
- All tables are made with Heavy-Duty Steel Frames
- High Speed Rails and Bearings
- Tables can be equipped with ATC
- Chip Removal System
- Vacuum Table Hold Down
- Auto-Misting Lubricating System

Standard features on the 100 Series:

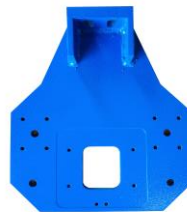
Gantry

4"x 6" - To ensure a vibration free precision cut we engineer our Gantry from 3/8" thick steel tube. All of our Gantry's are welded and then precision machined, this guarantees an accurate and smooth y axis.



Gantry Supports

Our supports are made of 1/2" thick machined aluminum to provide rigid vibration free support for our Gantry.



Frame

The CLN 100 Series base is a heavy duty welded steel frame. We use 4"x 6"x 0.1875" steel tube for the main beams, 2"x 4"x 0.1875" cross beams and 3"x 3"x 0.1875" legs. When welding our steel frame we take the time to ensure that each part of the frame is precisely square and level. Each frame is thoroughly inspected before it is passed along to our paint department.

Drive Assembly

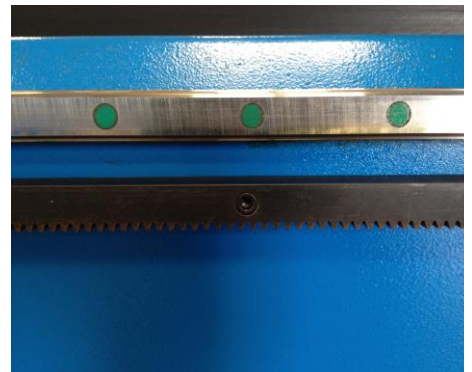
The 100 Series comes standard with micro stepper motors.

- 500 ipm
- Precision micro step technology, never lose a step
- Best in class service life

* Tables can be upgraded to Servo Motors (3500 ipm)

Rack and Pinion Design

All tables come standard with rack and pinion drive systems. Our rails are CNC machined to ensure precision x and y axis and z axis movement.



Linear High Speed Bearings

Standard equipped with 20 mm high speed linear bearings for high speed and low resistance. Our bearings glide effortlessly over stainless steel rails on all axes. These bearings provide low noise and high load capacity.



Planetary Gear Reduction Box for X and Y axes

Designed for continuous operation, our planetary gear boxes are second to none. We use hardened, high-carbon alloy steel gears applied directly to our gear rack. This eliminates the use of belts and consumables in our tables, which is just one among the many components that make our machines the longest lasting in the industry.

Electronic Housing

Our tables come standard with a CLN Workstation to protect the machines key electronic components. We use a dual fan cooling system to ensure our electronics will not overheat. This housing protects the most important parts of your machine from the elements that are detrimental to your router, and also provides the operator with a convenient control center.



CLN Control System

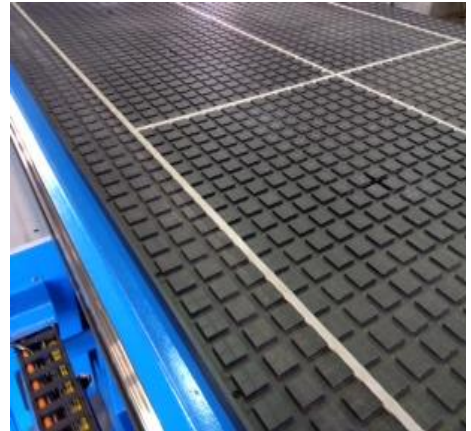
If you can use a desktop computer, you can use our router tables. Our easy to use motion control system is one of the most user friendly systems on the market.

- 19" Wide Screen Monitor
- Keyboard & Mouse
- Spindle Speed Control
- Automatic Tool Length Measuring.
- Spindle Temperature and Over current Monitoring.
- Restart Capability allows jobs to be restarted at any point within the job file.
- Hands free material calibration
- Tool Database
- Input Monitoring
- Job Simulation

Features Available For Our 100 Series

Cutting Surface

- Phenolic
- Aluminum T-Slot



Calibration Touch Pad

- Effortless calibration of tools
- Eliminates human error when setting your cutting depth

Servo motors

- Speed and Precision
- Maximum Cutting Speed: 2000 IPM *
- Maximum Rapid Movement Travel: 3500 IPM

*Cutting speeds may vary when cutting different materials.

Hand Held Controller

- Get closer to your work
- Full Machine Control
- Adjust Speeds and Feeds
- Set Material Home
- Raise and Lower Dust Boot
- Turn Mister On/Off



Spindles

3 HP HSD Spindle

- Connection Type: Collet ER25
- Rated Voltage: 380V
- Max Speed: 18,000 rpm
- Rotation: Right



4.8 HP HSD Spindle

- Connection Type: Collet ER25
- Rated Voltage: 380V
- Max Speed: 20,000 rpm
- Rotation: Right



5 HP HSD Automatic Tool Changer

- Connection Type: Collet ER 32
- Rated Voltage 220V
- Max Speed 24,000 rpm



Vacuum Hold Down System

We offer a wide variety of FPZ blowers for our vacuum hold down system.

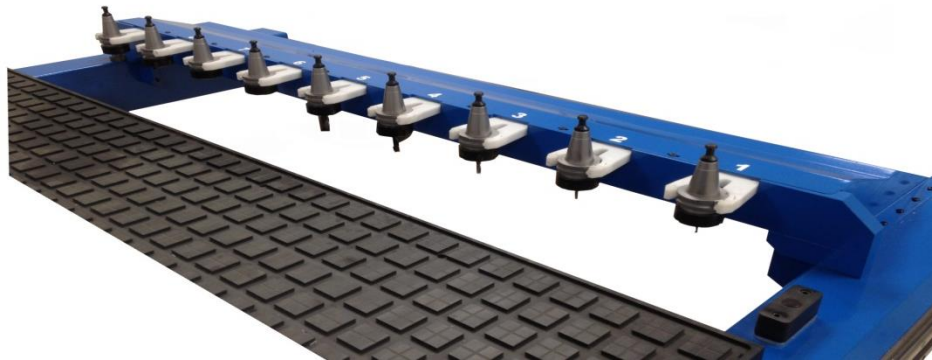
- Aluminum alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC-cURus Motor
- Special Voltages



Automatic Tool Changer (ATC)

The 100 Series can be equipped with a Linear Rack Tool Changer

- **Linear Rack Tool Changer** the more economical way to automate your tool changing system. This feature offers a range of tools depending on the size of the table and are located on the back of the table which allows easy access to your tools while keeping them out of the way.



*Upgrading to and ATC requires an upgraded spindle that is equipped with ATC capabilities. See spindles above.

CLN Vision Camera System Powered By **OptiSCOUT**™

CLN's vision registration system is your digital print finishing solution. Cut your digital prints with precision. Maximize workflow, increase throughput, and reduce waste. Optiscout is one of the most widely used optical recognition systems in the industry. This camera recognition software will locate your sheet, adjust for distortion, and create a toolpath all with one mouse click.



CLN Knife Cutting Systems and Tangential Creasing Tool

The Tangential Cutting Module

Cut Cardboard, Foam, Kevlar, Leather Paper, Rubber, Vinyl and more



The Oscillating Knife

Blade oscillation and tangential control allows you to cut material with a high degree of accuracy while delivering a clean edge.



The Tangential Creasing Tool

Crease a variety of material such as
Cardboard, Paperboard,
Corrugated Cardboard and Polypropylene



Chip Extraction Foot

Used in unison with our dust collection system this Chip Extraction Foot is included with your table and offers an easy solution to keeping your shop clean. Utilizing the use of our skillfully engineered Chip Extraction Foot and a vacuum, the CEF allows you to capture debris from the router bit before it hits your shops floor.



Dust Collection System

- Vortex Con Dust Collection System
- 2 HP Vacuum
- 3 PH 230/460V
- 2 Micron Canister Kit



Misting Unit

Used when cutting non-ferrous metals including aluminum, brass and copper on your CLN Router Table. The Unist Misters operate with more precision and reliability than any other dispensing system available. The pulse generator allows for automatic, infinite repeat cycling of the lubricant pump from a single air source. The result is a continuous output of a micro-fine lubricant mist providing longer tool life, better cut finish and higher cutting speeds of non-ferrous metals.



2D or 3D CAD/CAM Software

Enroute- EnRoute's **CNC router software** is best known for its ease of use, intuitive creative tools and accurate toolpathing for your **carving** and **engraving** needs.

These features are the foundation of EnRoute Software that put it in a class by itself:

- Toolpath Engine
- 3D Reliefs
- Baroque Chamfer
- Parametric Texture
- Rapid Texture
- Rapid Picture
- Remnant Creation
- Obstruction Avoidance
- Advanced Nesting Suite
- Object and Toolpath Distortion
- These productivity tools will give you the capability to explore other business opportunities while lowering your production costs. These components are the reason why more business owners, design professionals and craftsmen choose EnRoute CAD/CAM software.

ArtCAM- When you choose ArtCAM, you can rest assured that you've chosen to join thousands of other individuals and businesses around the world who've benefited from our in depth knowledge of artistic design and manufacturing techniques. Each ArtCAM product has been built from our award-winning CAD/CAM engine and is tailored to suit the needs of the smallest home hobbyists through to the largest manufacturing organisations.

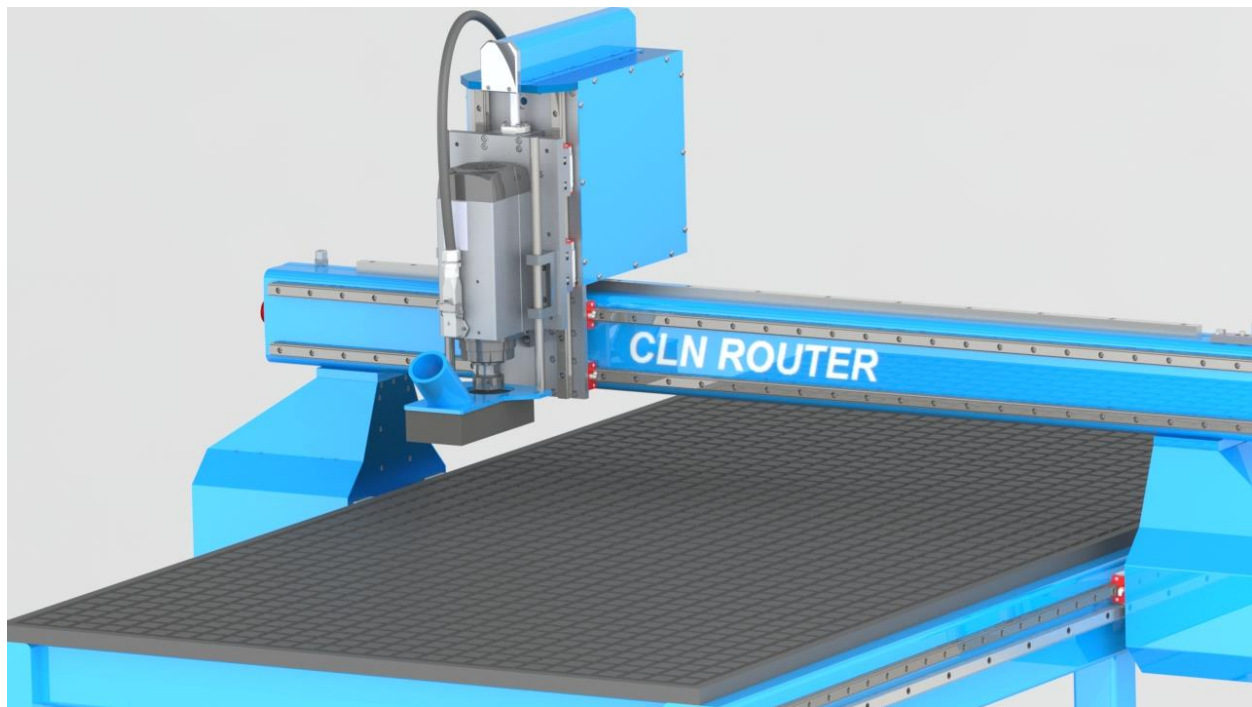
- 2D Design & Creating Vectors
- 3D Design & Clipart Library
- 2D Profiling with Bridging
- 2D Area Clearance or Pocket Machining
- V Bit Incised Craving
- 3D Machining
- Inlay Wizard
- Tool Database
- Toolpath Simulation
- Machine Tool Support

Machine Foot Print:

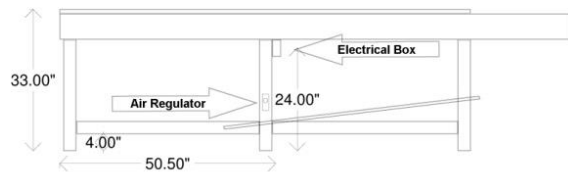
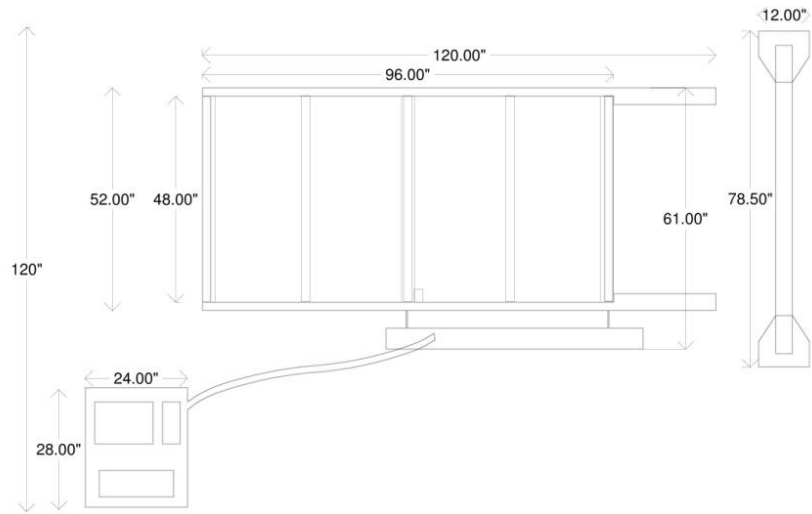
Our state of the art router tables are manufactured in standard and custom sizes to accommodate your needs. To help you figure the floor space you will need in your shop, here is a list of the overall machine size contingent on the size of the cutting surface.

- 4' X 8' has a total gantry clearance of 51" X 97"
- 5' X 10' has a total gantry clearance of 63" X 121"
- 6' X 12' has a total gantry clearance of 75" X 145"

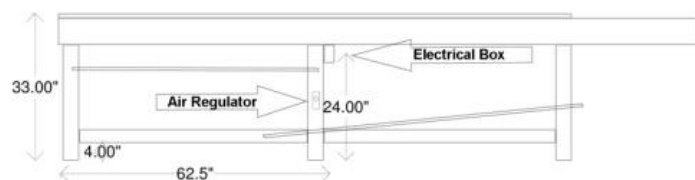
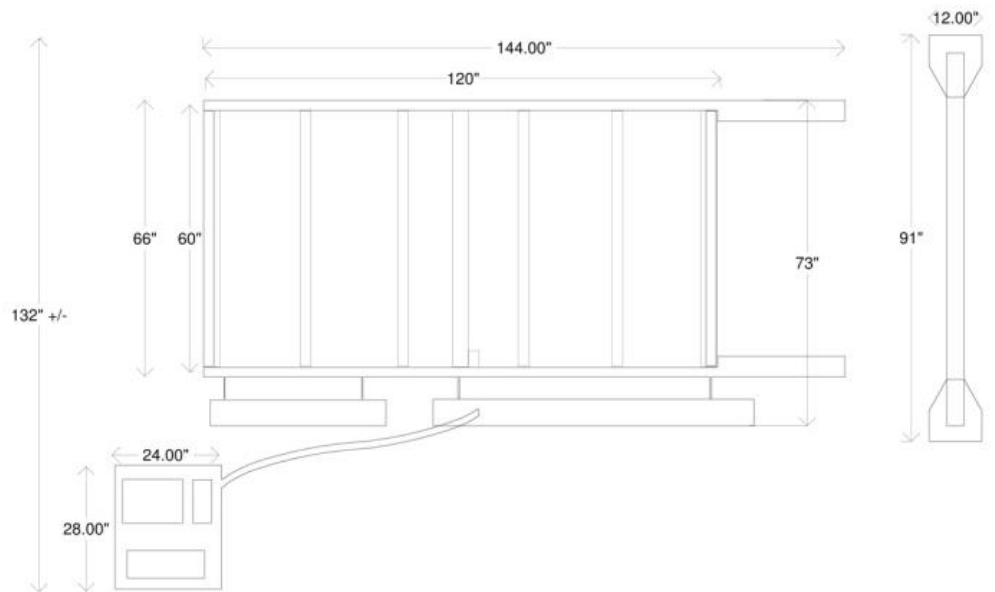
*See layout on next page.



4 x 8
100 Series
Layout



5 x 10
100 Series
Layout



6 x 12
100 Series
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