

## CLN 300 Series Router Table Specifications



### **Machine Footprint:**

Our state of the art CNC 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 correlated with the size of the cutting surface.

- 4'x8' has a total floor space of 6' 3" x 12'
- 5'x10' has a total floor space of 7' 3" x 14'
- 6'x12' has a total floor space of 8' 3" x 16'

## Standard features on our 300 Series:

### Gantry

To ensure a vibration free precision cut we engineer our Gantry from 8" x 6" x 0.1875" 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  $\frac{3}{4}$ " thick machined aluminum to provide rigid, vibration free support for our Gantry.



### Frame

The CLN 300 Series base is a heavy duty welded steel frame. We use  $\frac{3}{16}$ " thick steel tube for our 6" X 8" main beams. Our 2" X 6" cross beams and 4" X 4" legs are also constructed out of  $\frac{3}{16}$ " steel tube. 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 tested and inspected before it is handed over to our paint department.

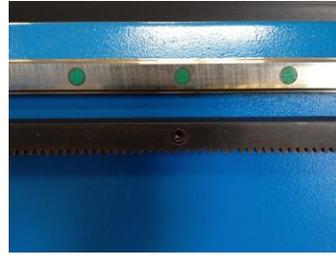
### Drive Assembly

The 300 Series comes standard with 750 Watt Servo Motors.

- 3,500 IPM Rapids
- Precision
- Best in class service life
- Encoder Feedback
- Input Monitoring
- Fault Detection
- Automatic Torque Reduction

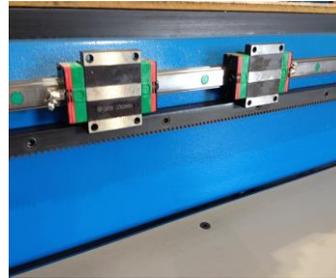
### **Rack and Pinion Design**

All tables come standard with rack and pinion drive systems. Our rails are CNC machined to ensure precision.



### **Linear High Speed Bearings**

Standard equipped with 25 mm 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 both X and Y axis**

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

## Cutting Surface

- Medium Density Phenolic
- Aluminum T-Slot

## Tool Calibration Probe

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

## Material Probe

- Automatic material calibration

## Spindles

### 3 HP HSD Spindle

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



### 5 HP HSD Spindle

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



## 9 HP HSD Spindle

- Connection Type: Collet ER32
- Rated Voltage: 380V
- Rated Speed: 24,000 rpm
- Max Speed: 24,000 rpm
- Rotation: Right

## 5 HP HSD Automatic Tool Changing Spindle

- Connection Type: Collet ER32
- Rated Voltage: 380V
- Rated Speed: 24,000 rpm
- Max Speed: 24,000 rpm
- Rotation: Right

## 11.2 HP Automatic Tool Changing HSD Spindle

- Connection Type: Collet ER32
- Rated Voltage: 380V
- Rated Speed: 24,000 rpm
- Max Speed: 24,000 rpm
- Rotation: Right

## 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)

You have two options when equipping your table with an ATC:

- **Linear Rack Tool Changer** the more economical way to automate your tool changing system. This feature offers a tool rack located on the back of the table which allows easy access to your tools while keeping them out of the way until you need them.

- **Carousel Tool Changer** when it comes to ATC's this is most efficient way to automatically change tools. With a convenient location alongside the gantry you can change tools fast and effortlessly. The Carousel has a 10 position rotary system for optimal tooling.

\*All of CLN's tool changing machines come standard with tool sensing technology and automatic torque reduction.

\*Upgrading to an 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, it 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 they hit your shops floor.



### **Dust Collection System**

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



### **Mister 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