

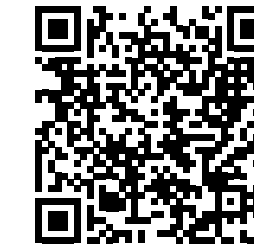
FEATURES

- Intuitive software – Welcome to Sync3D. Thanks to the power of our Siemens-based CAD/CAM platform, virtually all popular CAD formats can be imported directly into Sync3D with just a few clicks, no third-party CAD/CAM software required. Native Solid Edge integration ensures a seamless transition from design to production, eliminating unnecessary file conversions and compatibility issues.
- Sync3D is a complete ecosystem where CAD, CAM, simulation, and G-code generation are all native to the software. There is no need to rely on additional applications to move from design to manufacturing. Everything happens within a single, integrated environment, resulting in a faster, more efficient workflow and a more intuitive user experience.
- Beyond file import, Sync3D delivers the processing power needed for today's most demanding applications. Complex calculations for highly detailed parts are completed in seconds, providing fast, stable performance without the crashes, delays, and bottlenecks often associated with disconnected software systems. G-code is generated natively within Sync3D, creating a seamless path from design to the machine – again, with no third-party software required.
- Unlike many platforms that require users to work on one component at a time, Sync3D can import, view, and edit complete assemblies. Engineers and programmers can evaluate an entire project, make revisions quickly, and maintain full control from concept to finished part.
- And the real question is:
Can your machine edit complete assemblies?
Can your machine instantly array hundreds of holes, features, or patterns across a part in seconds?
Can your machine import, modify, simulate, and generate production-ready G-code entirely within a single software environment?
With Sync3D, the answer is yes.
- From CAD import to toolpath creation, simulation, and machine-ready G-code generation, Sync3D provides a truly integrated workflow designed to maximize productivity, reduce programming time, and eliminate unnecessary software dependencies.
- Self-centering pneumatic chucks keep material on center, capturing round, square, rectangular, angle and C-channel with no modifications required. Interpolated chucks



ensure no torsion on part, improving cut accuracy. Interpolated tube supports maintain tube position, also increasing cut accuracy. Front and rear chucks hold the piece at both ends, eliminating vibration and keeping cuts accurate on bars up to 24.5 feet.

- Automatic material supports on the table adjust to the correct height of the programmed part – no manual leveling, no sagging on long bars.
- 3 kW fiber laser source with autofocus cutting head – high energy efficiency and low maintenance.
- Carriage precision from a low-backlash, hardened and ground rack and pinion running on ball guides – accurate cuts along the full length of the machine.
- Brushless servo motors with battery-free absolute encoders. No re-homing after a power outage or shutdown – the machine knows where every axis is and restarts immediately.
- Fully digital drive system. No analog signals in the wiring means no positioning drift from electrical interference.
- Standard bevel cutting head cuts bevels to $\pm 45^\circ$ for weld joint preparation. Autofocus stays active in bevel mode, so cut quality holds at any angle.
- Detailed part simulation allows safe part preview before cutting.
- Industrial touch screen control at the machine handles all axis speed and movement, manual or automatic.



EC245L CNC Laser
Cutter Videos

TYPICAL APPLICATIONS

- Round, square, rectangular and oval tube in carbon steel, stainless steel and aluminum
- Open profiles: angle and channel
- Structural and ornamental fabrication
- Furniture frames, shelving and racks
- Automotive, agricultural and construction equipment parts
- Hydraulic, pneumatic and HVAC components
- Production to prototype and short runs with fast program changes at the control

CML USA Inc. Ercolina®

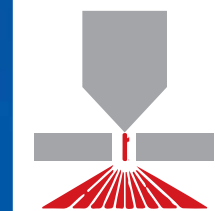
info@ercolina-usa.com

www.ercolina-usa.com

© 08/2026



563-391-7700



EC245L

**CNC LASER
PIPE & PROFILE
CUTTING SYSTEM**

ERCOLINA ERCOCUT EC245L-CNC

TUBE, PIPE & PROFILE LASER CUTTING SYSTEM

OVERVIEW

Need a precision cut in tube, pipe or profiles?

Ercolina's ErcoCut EC245L fiber laser provides highly accurate cutting in a variety of tubes and profiles, greatly improving workflow and reducing finish operations.

Ideal for cut off, slotting, saddle cuts, hole patterns, tube notching and more. Quickly produce quality, consistent cuts while reducing labor cost, improving job turnaround time and eliminating secondary fabricating operations.

The 3 kW fiber laser cuts round, square and rectangular tube, angle, channel and flat bar in steel, stainless and aluminum – up to 8-5/8 inch round and 24.5 feet standard length. CNC control positions material and controls all

movement throughout the cutting cycle. Software optimizes the cut path for the most efficient cutting, and digital servos maintain and remember axis position.

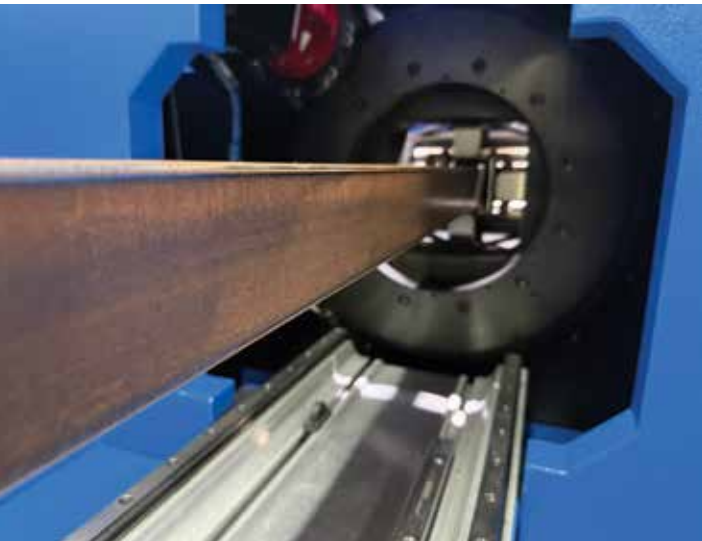
The operator interface is easy to learn and very user-friendly. Touch screen control allows the operator to move all axes, control speed and start or stop the job when needed. Screen displays current G-Code allowing operator to monitor program. Emergency stop conveniently located for operator safety. Included software allows the operator to create the desired cut and preview the torch path in simulation to minimize scrap before cutting.

TECHNICAL DATA ERCO CUT EC245L

Standard laser source	3 kW fiber, autofocus cutting head
Minimum profile length	12 in
Maximum standard length	24.5 ft
Maximum material weight.....	35 lb/ft
Round capacity (min–max).....	3/4 in – 8-5/8 in
Square capacity.....	8 in
Angle capacity (max).....	8 in
Auto bevel.....	45° right and left
Maximum linear speed, X, Y, Z.....	196 ft/min
Maximum spindle speed.....	100 rpm
Maximum unload length	8 ft standard
Controlled axes.....	8
Machine weight.....	2,646 lbs
Numerical control.....	Sync 3D

ADVANTAGES

- Industrial design with greater support for heavy wall tubes and profiles – build quality that exceeds competing products.
- Brushless servo motors and rigid design increase capacity, reduce vibration during cutting and produce smoother cuts than competitive models.
- 24.5 ft standard length capacity.
- Extruded table bed for greater strength.
- Self-cleaning, self-lubricating linear guides and precision ball screws, combined with a hardened and ground rack-and-pinion drive, deliver outstanding cutting accuracy, smooth motion, and long service life even in harsh flame cutting environments.
- Extended grip tail stock reduces material waste to 6 inches.
- Cuts steel, stainless and aluminum tube, pipe and profiles.



OPTIONS

Drilling and Tapping Unit – Drill and tap directly on the workpiece in the same automatic cycle as the laser. One setup, one machine – no secondary operations, no repositioning errors.



Digital drive controllers

