

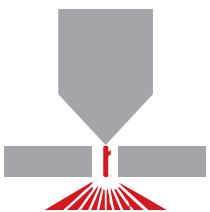


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EC245P / EC245L

CNC PLASMA, LASER CUTTING SYSTEMS

ERCOLINA EC245P-CNC TUBE, PIPE &

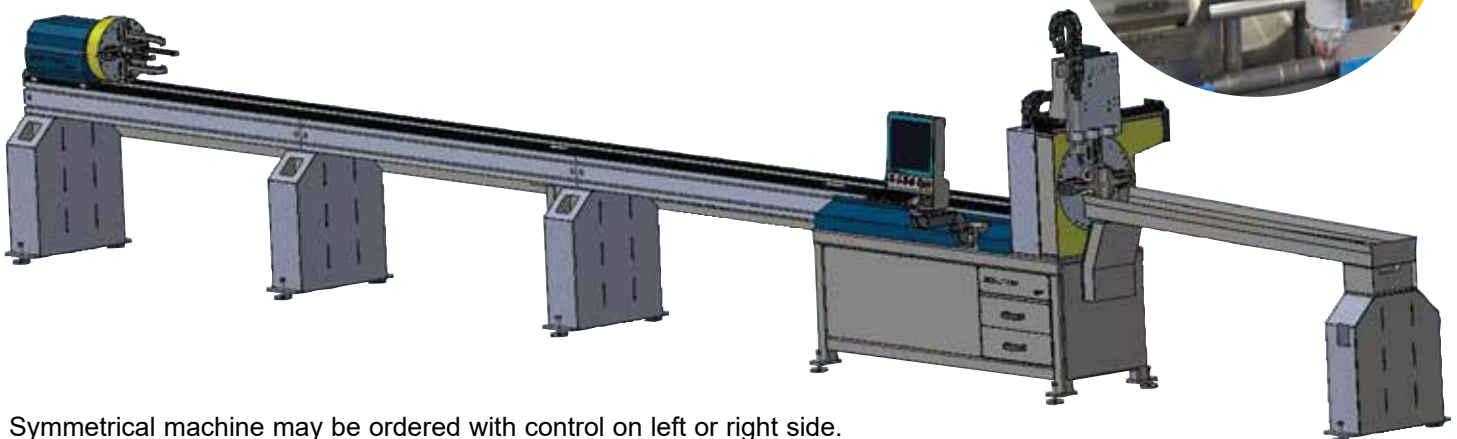
High Precision when Cutting Edges

OVERVIEW

Ercolina's Plasma CNC Tube, Pipe and Profile Cutting System Model EC245P-CNC performs two-dimensional cuts of any shape quickly and productively on conductive metal tubes, such as aluminum, steel, copper, brass or others.

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.

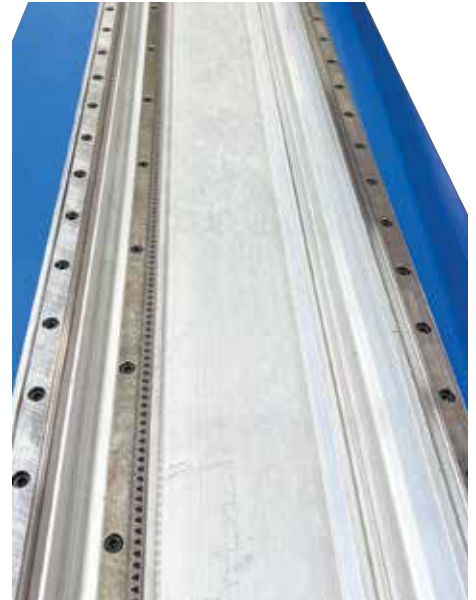
The operator interface is easy to learn and very user-friendly. Torch spindle is connected to cutting head increasing the amount of usable cutting area on material. All axis movements are controlled with servo drives for greater accuracy. Operator friendly control interface with easy to learn software allows operator to create desired cut and analyze torch path to minimize scrap before cutting.



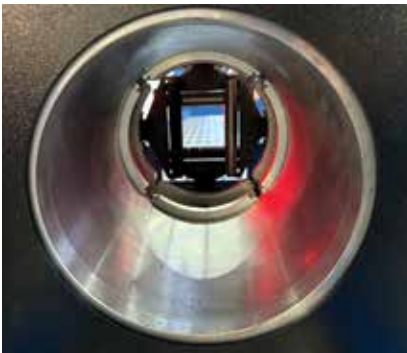
Symmetrical machine may be ordered with control on left or right side.

PROFILE PLASMA CUTTING SYSTEM

Included software allows import of standard IGES and DXF CAD files that are supported by most CAD software; such as Solidworks, Tekla, SDS2, Auto CAD, and Pro/Engineer, for faster setup. Touch screen control allows 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.



Rack and Pinion with hardened steelways



Large through-spindle capacity



Innovative recessed front gate allowing carriage to position last cut of only 6"



FEATURES

- Intuitive software provided is the market leader quickly and accurately produces cuts, holes, designs.
- Self-centering chucks keep material on center, capturing rounds, square, rectangular, angle and C Channel with no modifications required to 6-5/8 inch.
- Feed system seamlessly processes pipe with full eight-inch pipe pass through with included gate roll.
- Automatic material supports on each table support interpolated with front gate moving automatically to correct height of programmed part for easy material leveling.
- Laser-like quality axis movements at plasma cost.
- X1 (back/forth movement of carriage) precision thanks to low backlash helical rack and pinion.
- B1 B2 Low backlash planetary gearboxes for accurate rotation of rear carriage and front gate.
- B1 and B2 rotation drive via high precision brushless motors with integrated absolute encoders.
- B1 and B2 rotation with high precision/low maintenance belts and cogs.
- B1 and B2 rotation bearings conducted to ground with carbon brushes, increasing bearing life by eliminating current arcs on bearings.
- All working devices shielded to ip65 specs, exceeding most stringent NEMA standards... <https://www.nemaenclosures.com/blog/ingress-protection-ratings/>

OPTIONAL

- Bevelling, drilling, threading functions, automatic loading table

ADVANTAGES

- Industrial design with greater support for heavy wall tubes and profiles by quality manufacturer exceeds competing products.
- Brush servo motors and rigid design increases capacity, reduces vibration during cutting and produces smoother cuts than competitive models.
- 24 ft Standard length capacity.
- Modular design and table and front gate allow additional length while improving setup and shipping. Machine can be positioned to right or left side optimizing shop floor space.
- One-piece extruded table bed for greater strength. 2,400mm sections connect quickly and easily with dowel pin and jackscrew.
- Steel linear self-cleaning guides on feed table.
- Extended grip tail stock reduces material waste to 6 inches.



- Finished cabinet protects electronics and plasma unit. Power component isolated from control circuit in separate cabinet to eliminate disturbances to control.
- Quick attach lines for direct connections to plasma source.
- Multi tool head for cutting, pen marking, and impact marking material. Optional anti-collision system not only protects torch, but sensors also work for height control necessary for cutting rusty/painted tubes.
- LED light for accurate alignment of cut area.
- Included front exit support table helps support longer workpieces.
- 2.5 m included are extendable by 2.4 m sections.
- Industrial touch screen control handles all axis speed and movement in manual or automatic movement.



Machine operation center



Auto 5th axis bevelling head (available)

- Software for part design, data entry, part nesting, downloading files, and remote diagnostics and assistance.
- Imports most CAD files including STEP and IGES.
- Compatible with most CAD software, Solid works, Tekla, SDS2, AutoCAD, Pro Engineer. Software interprets file and creates productive cut path for greater productivity.
- Cuts steel, stainless, aluminum, galvanized, black pipe and chrome materials.
- Designed to easily accept exhaust air flow with accessory for cleaner work area.
- Limit safety switches are mechanical as inductive switches fail in harsh cutting environments.



Part simulation



EC245P CNC Plasma
Cutter Videos

Front View

Technical data ERCO CUT EC245P.

All information and data on cutting PLASMA TUBES

ERCO CUT EC245P

Minimum profile length	59 in
Maximum standard length	9.8' - 24.6' - 39.3'
Maximum weight of materials (Steel, Stainless Steel, Aluminum, Brass, Copper)	30 lb/ft
Round section dimensions (min. – max.)	Ø .75" – 8.625"
Square section dimensions (min. – max.)	.75" x .75" – 9.4" x 9.4"
Dimensions of closed profiles (min/max side length)	.75" x .75" – 9.4" x 9.4"
Dimensions of corner profiles (L) with equal and unequal sides (min. – max.)	.75" x .75" – 9.4" x 9.4"
U profile dimensions, UPN, UPE (min. – max.)	.75" – 9.4"
Flat bar dimensions	.387" – 9.4"
Flat bar thickness	.187" – .437"*
Maximum linear speed of X, Y, Z axes	196 ft/min
Maximum spindle speed	100 rpm
Maximum length of piece unloading	8' Standard
Controlled axes	8
Machine weight	2646 lbs
Numerical control	Sync 3D

* Depending on the power of the plasma



Rear View

Ercolina Ercocut EC245L Laser

Ercolina laser for cutting pipe, tube and profiles

Need a precision cut in tube, pipe or profiles? Ercolina's Ercocut EC245L Laser provides highly accurate cutting in a variety of tubes and profiles, greatly improving workflow and reducing finish operations. CNC control positions material and controls movement throughout the cutting cycle.

Software optimizes cutting process for the most efficient cutting. Digital servos maintain and remember axis position. Fourth CNC controlled axis automated beveling operations.

Sturdy base design supports pipe to 8 inches. Powerful Raycus 2 kW Laser cuts up to 12mm. The larger 3kW Laser, available on request, cuts up to 16mm.



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