

# EMSYS PlasmaCut

SOLUZIONI PER L'AUTOMAZIONE INDUSTRIALE

PlasmaCut is a powerful software package for the control of thermal cutting machines, developed on D-Electron CNC Z32 FlorenZ hardware and Windows.

The screenshot displays the PlasmaCut software interface. At the top left, it shows coordinate values: X +01723.949, Y +00874.519, and Z -00035.748. The mode is set to JOG, and the torch velocity is 0. The interface includes a central workspace with a 2D CAD drawing of a part, surrounded by navigation tools like 'Mostra Tutto', 'Zoom +', 'Zoom -', 'Zoom Finestra', and 'Segui Torcia'. On the right side, there are several control panels for parameters such as 'Tensione d'arco da inseguire [V]' (123), 'Velocità in lavoro [mm/min]' (3045), 'Percentuale per bassa velocità [%]' (60), 'Percentuale velocità rallentata [%]' (60), 'Ritardo di sfondamento [s]' (0.3), 'Altezza di sfondamento [mm]' (4.0), 'Altezza di lavoro [mm]' (2.0), and 'Velocità dell'asse Z [%]' (20). The bottom status bar shows 'Traccia selezionata' (66) and 'Tempo Stimato' (~11min). The bottom navigation bar includes buttons for 'Scelta lavoro', 'Esegui', 'Riparti da queste quote', 'Simulazione programma', 'Simula da queste quote', 'Riavvia', and 'Spegni'.

Combined to the last generation of high-definition plasma sources, PlasmaCut, can control different accessories, such as:



• Mono/multi driller	• Double Torch
• Beveling 3D	• Tube-cut
• Oxycut	• Automatic Gas Console

PlasmaCut can also be customised with logos and functions, in order to satisfy any company's requirements.



# SPECIFICATIONS

## Easy to use

- Simple, compact and extremely user-friendly interface oriented towards the use of touch screen monitors
- Possibility to change the zoom from full working table to the smallest details of each track
- Possibility to choose the starting track simply selecting it by a double click or typing its number directly

- Automatic preview of works during the "Select Work" phase

- Up to 12 origins for getting the zero plate with the possibility to modify the angle (manually or automatically) when certain sheets are not perfectly aligned to the working table

## Control Height

- Integrated torch control height (it can be enabled or disabled by the operator) to guarantee always a very good cutting quality

## Parameters

- Integrated default cutting parameters for most common plasma sources: after selection of work to execute, it only needs to select type of material, thickness and technology
- Possibility to change all cutting parameters, even during a work execution
- Possibility to correct any eventual mechanical misalignment problem directly via software

## Execution/Simulation

- Possibility to simulate loaded work for any eventual verification
- Powerful control of restart work in case of accidental plate contact with automatic calculation of a new lead-in on the plate scrap
- Full compatibility with most common CAD/CAM such as Lantek, Alma, SigmaNEST, SI, Taglio, CutExpert and more
- Possibility to execute plate trimming by drawing the path in an extremely simple and fast way

