

**SECO/WARWICK**

INVENTION MEETS RELIABILITY



# TORCHPROFILER

software for generating plasma torch motion trajectories

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## SOFTWARE FOR GENERATING PLASMA TORCH MOTION TRAJECTORIES

TorchProfiler is a software designed to generate motion trajectories of servo-driven plasma torches used in titanium recovery melting furnaces.

One of the key features of the software is torch motion simulation, which provides an early opportunity to detect potential collisions that may occur during operation. They could result in the destruction of burners and stop the process during production, thus the software protects the company from incurring huge financial losses.

The tool allows the user to define the working area of individual torches, create and edit the created profiles in the form of straight lines, curves, arcs, and circles, as well as to determine the speed of torch movement in individual segments of the profile, and the work current of the torch. It also allows the users to manage profiles in the PLC unit by profile transfer and readout operations. The software displays the created profiles in a graphic and tabular form.

In addition, the tool allows users to read and save torch positions, generating motion paths. It enables the user to analyze and trace torch operation correctness, and to supervise their current status, as well as control the operational parameters of individual torches. All the described functionalities enable you to optimize the performance of the furnace and the installed torches.



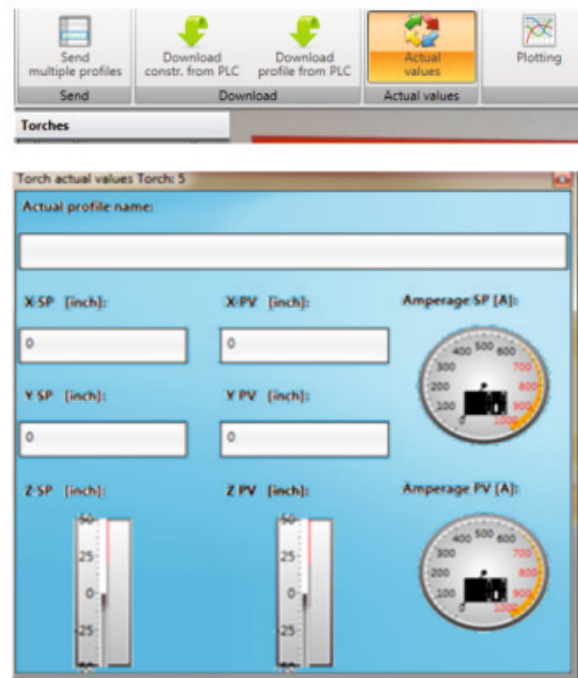
### TORCHPROFILER ENABLES:

- / Design of working areas and torch movement trajectories,
- / Monitoring of torch operation parameters,
- / Management of the created profiles,
- / Graphical representation of movement,
- / Communication with the PLC.



### TORCHPROFILER PROVIDES:

- / Profile design and management,
- / Reading and saving torch positions, thus creating movement paths,
- / Ability to analyze the furnace operation,
- / Ability to trace the correctness of torch movements,
- / Data presentation, motion simulation.



SECO/WARWICK is a technological leader in innovative heat treatment furnaces. Expertise includes end-to-end solutions in 5 categories: vacuum heat treatment, atmosphere and aluminum thermal processing, controlled atmosphere brazing of aluminum heat exchangers and vacuum metallurgy.

SECO/WARWICK Group has 9 companies located on three continents with customers in nearly 70 countries. The company provides standard or customized state-of-the-art heat processing equipment and technologies to leading companies in the following industries: automotive, aerospace, electronics, tooling, medical, recycling, energy including nuclear, wind, oil, gas, and solar and production of steel, titanium, and aluminum.