



TABLETOP SYSTEM

Evosys EVOWELD MINI

Compact machine for laser plastic welding

AUTOMOTIVE | MEDTECH | CONSUMER

► Compact system

Highest efficiency

Low space requirement

Process reliable machining

Manual loading

Intuitive EvoLaP process software

Evosys CQC calibration procedure

Evosys EvoWeld Mini

COMPACT MACHINE FOR LASER WELDING OF PLASTICS

Evosys EvoWeld Mini means place, connect, weld. With a compact footprint, the system designed as a tabletop unit has everything needed for laser welding. Of course, it also complies with laser class 1, which means that no further safety equipment is required during operation. All essential components are already included in the basic version. The laser including cooling, beam shaping and guiding, and the necessary control components are integrated in the housing.

To increase flexibility and ease of operation, the Evosys EvoWeld Mini is equipped with a galvanometer scanner. This enables the industrially common process variants contour and quasi-simultaneous welding.

The optics developed at EVOSYS specifically for laser plastic welding are also used in the Evosys Evo-Weld Mini and are configured to the highest possible standards in the Evosys CQC process. Combined with the EvoLaP software perfected for this joining technique, the Evosys EvoWeld Mini is in no way inferior to larger EVOSYS machines. In fact, the table-top system complements the portfolio with a compact variant that offers a very simple entry into laser welding of plastics while picking up all the advantages of the process.



**Laser welded parts
from the application areas
Automotive, Medical, Consumer**



Welding processes developed on the Evosys EvoWeld Mini can be transferred very easily and with minimal effort to the more highly automated products from the EVOSYS portfolio. Various extensions for process and quality monitoring are optionally available for the welding system.

Efficient and flexible for the most diverse requirements of all industries

The optionally available laptop is preconfigured and contains the necessary software to quickly set up and use the Evosys EvoWeld Mini for a customer-specific application. The system-relevant parameters are set directly at the factory: the product-specific welding contour can easily be imported into the EvoLaP contour software by the customer. EvoLaP is a modern software that can be operated conventionally by mouse and keyboard or by touchscreen. It is also available in various languages. The machine is ready for production immediately after setting the desired laser power and scanning speed.

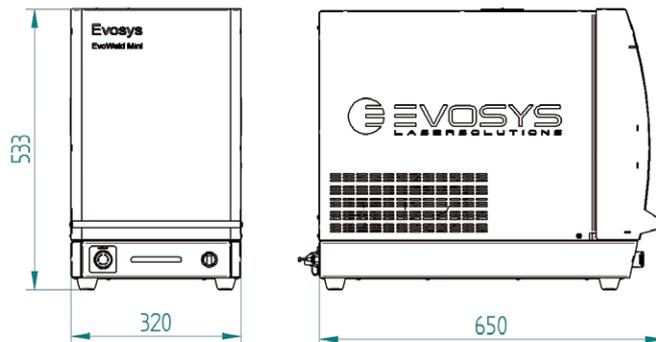
This is how the Evosys EvoWeld Mini lives up to its reputation:
Set up, connect, weld!

Technical specifications

Laser class	1
Laser wavelength	980 nm – other wavelengths on request
Laser power	70 W – higher power on request
Processing field	Approx. 100 x 100 mm – others on request
Power supply	230 V, 50-60 Hz, 400 W
Air supply	4.5 to 10 bar compressed air according to DIN 8573-1 class 1-4-1
Configuration	<p>Evosys EvoWeld Mini compact table system for contour and quasi-simultaneous welding</p> <p>USB connection port for external PC/laptop</p> <p>Permanent license and dongle for Evosys software package</p> <p>EvoLaP software</p> <p>Comfortable setup of welding contour and welding parameters</p> <p>Process variants contour and quasi-simultaneous welding (requires optional displacement measuring system)</p> <p>Graphical display of path-time curve (s/t) (requires optional displacement measuring system)</p>
Options	<p>Clamping module including pressure control valve</p> <p>Displacement measuring system</p> <p>Laptop including pre-installed software EvoLaP</p>
Dimensions (Width x Depth x Height)	See layout sketch

The Evosys EvoWeld Mini has a standard housing. All components such as laser and control unit are integrated in the housing. The system can be used for both contour and quasi-simultaneous processes.

Version 2023-09 / technical data are subject to change.



EVOSYS is the ideal partner for laser welding of plastics. Whether a simple off the shelf machine or complex customized systems, we will convert your challenges into solutions. We are the specialists when it comes to bringing the latest optical technology into your production!

**EVOSYS is certified
ISO 9001:2015**

GERMANY

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**DYNAMIC.
INNOVATIVE.
QUALITATIVE.**