

# EVO 0800-TD

## Process module quasi-simultaneous welding

- ▶ Customized laser optics
- ▶ Highly flexible for laser plastic welding
- ▶ Small footprint
- ▶ 100 % process monitoring
- ▶ Shortest cycle time



The **EVO 0800-TD** is a slim process module with customized lasers and optics for contour or quasi-simultaneous welding of plastics.

Out of the box, all components relevant for the welding process are part of the process module. The joining force required for the welding process is realized by the integrated clamping module. The clamping movement takes place in the so-called top-down clamping concept from top to bottom, with integrated joining path monitoring.

The welding unit is optimized for drag-and-drop integration into different automation environments.

The **EVO 0800-TD** is designed from the start to be compact and robust, and at the same time highly flexible so that a wide variety of assemblies can be processed.

During assembly, each **EVO 0800-TD** passes through the unique CQC calibration concept of Evosys Laser GmbH, which ensures the comparability of the systems.

### Technical data

Laser class	4												
Laser wavelength	980 nm (others on request)												
Laser power	up to 400 W												
Work field	100 mm x 100 mm (others on request)												
Clamping force area	160 N - 1.600 N												
Power supply	400 VAC / 50-60 Hz / max. 2 kW												
Compressed air	4,5 to 10 bar compressed air according DIN 8573-1 class 1-4-1												
Configuration	<ul style="list-style-type: none"> <li>✓ Joining path monitoring</li> <li>✓ Quick tool change</li> <li>✓ Communication interface</li> <li>✓ Software "EvoLaP"</li> </ul>												
On demand	<ul style="list-style-type: none"> <li>✓ Tool coding by means of RFID</li> <li>✓ Pyrometer</li> <li>✓ Welding console for stable suspension of the process module</li> <li>✓ Remote maintenance module</li> <li>✓ Second clamping module with own process monitoring</li> </ul>												
Dimensions (WxHxD) and weights	<table border="0"> <tbody> <tr> <td>EVO 0800-TD</td> <td>192 x 830 x 305 mm</td> <td>/</td> <td>60 kg</td> </tr> <tr> <td>EVO 0800-TD-2</td> <td>450 x 830 x 305 mm</td> <td>/</td> <td>90 kg</td> </tr> <tr> <td>Control/Switch cabinet</td> <td>600 x 2.000 x 800 mm</td> <td>/</td> <td>250 kg</td> </tr> </tbody> </table>	EVO 0800-TD	192 x 830 x 305 mm	/	60 kg	EVO 0800-TD-2	450 x 830 x 305 mm	/	90 kg	Control/Switch cabinet	600 x 2.000 x 800 mm	/	250 kg
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CAR REVIEW CAMERA



CAR KEY



ACTUATOR

## Layout description

The **EVO 0800-TD** is a flexible, integrable process unit. Due to its space-saving design, it fits into almost any production environment. All components such as laser, control and supply unit are integrated in the control cabinet or the plug-in module.




Output increase with the EVO 0800-TD-2:  
Machining of two assemblies in one cycle with two independent clamping modules with separate joint travel monitoring for each component.



Quality:  
In addition to the usual parameters, the entire time history of all process-relevant variables is monitored and evaluated in all Evosys machines.

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.

## CONTACT

Evosys Laser GmbH  
 [www.evosys-group.com](http://www.evosys-group.com)

*Technical data are subject to change.*

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We are the specialists when it comes to bringing the latest optical technology into your production!

