

# NOVOLAS



**Lasersystems for  
Plastic Welding and Soldering**

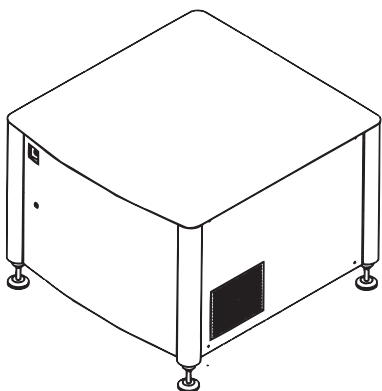
**The integration solution**



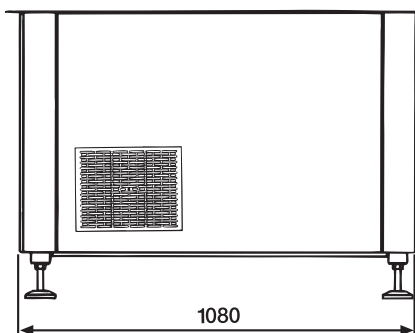
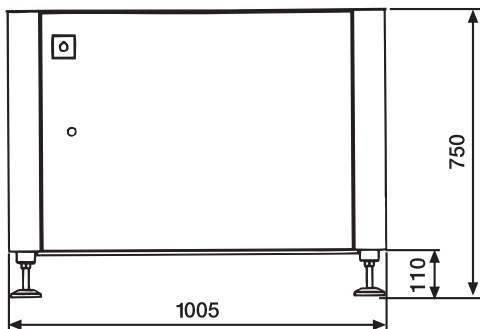
**Lasersystems**



## NOVOLAS OEM / WS



Dimensions in mm



These flexible systems incorporate LEISTER's knowledge and experience in the areas of plastic welding and soldering with lasers. NOVOLAS OEM / WS are available with fiber coupled spot lasers or line lasers and with positioning systems or a galvanometer scanner. The OEM versions are suited for integration into manufacturing lines.

The durable systems have been designed to provide easy integration with material handling systems and safety apparatus. Clamping devices, positioning systems, optics and process control can be selected to match each individual application.

### Technical Information

The compact and elegantly designed housing corresponds with industrial standards. The modular system is prepared for all available options.

The graphical user interface does allow simple and quick programming of all machine parameters. Parameters are defined according to DIN Standard 66025 and supplemented with various powerful functions. Predefined interfaces for laser protection circuit and emergency shut-down assure a high safety standard.

The controls offer serial and I/O interfaces. Also available is a telediagnostic service system.

<b>Laser Type</b>	High Power Diode Laser
<b>Beam Shape</b>	Spot or line
<b>Laser Power Output</b>	25 W – 100 W
<b>Process Control</b>	PLC – CNC for laser, axis and process control
<b>Data Interface</b>	I/O, RS 232, ethernet
<b>Aiming Beam</b>	< 1 mW (laser class 2)
<b>Line Voltage</b>	200 – 230 VAC +/- 10%
<b>Frequency</b>	50 / 60 Hz
<b>Current Consumption</b>	Max. 10 A
<b>Air Pressure</b>	Min. 6x10 <sup>5</sup> Pa, 1/4" tube
<b>Cooling</b>	Air stream, exhaust air max. 130°F (55°C)
<b>Environment Conditions</b>	60-105°F (15 – 40°C)
<b>Weight</b>	~450 lb (ca. 300 kg)
<b>Laser Class</b>	4

<b>Options</b>	
<b>Galvanometer-Scanner</b>	depending on version
<b>Moving System</b>	up to 400 x 400 x 100 mm
<b>Process Specific Units</b>	Clamp devices, solder wire feeder, fume exhaust system
<b>Process Control</b>	Pyrometer (for welding), camera

CE conform  
 Technical data subject to change  
 Further options on request



**Lasersystems**

a division of LEISTER Process Technologies

ISO 9001:2000

LEISTER Process Technologies  
 Lasersystems Division  
 Riedstrasse  
 CH-6060 Sarnen/Switzerland  
 phone +41 (0)41 662 7474  
 fax +41 (0)41 660 3966  
 e-mail: lasersystems@leister.com

#### Exclusive Distributor USA

LEISTER Technologies LLC  
 1253 Hamilton Parkway  
 Itasca, IL 60143  
 USA  
 phone +1 (1) 630 760 1000  
 Fax +1 (1) 630 760 1001  
 e-mail: sales@leisterusa.com

[www.novolass.com](http://www.novolass.com)