

Laser welding with precision:

Stationary Laser

The compact laser system - for tools weighting up to 250 kg



Innovation and precision for tool- and mould-making industry

Stationary Laser

laser power up to 400 watts

Compact. Ergonomic. Modular.

Our laser systems are designed to satisfy the specific requirements of the tool- and mould-making industry.

The compact and reliable stationary laser system is designed for repairing of tools weighting up to 250 kg. The open construction is a design feature that ensures high ergonomic efficiency for the user during continuous operation, and ease of handling. Our modular construction principle permits the unit to be converted to a closed system.

In this way, the SL can be operated as a class 1 or 4 laser, depending on production requirements.

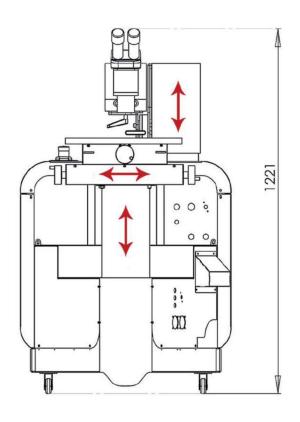




Modular construction:

The operation of the working table is manually or motorized. Both manually and the motorized working table provide high precision during the process of welding. The pivoting arm maximizes the accessibility. Two motorized z-axes are integrated as standard in order to provide the required ergonomical operation. Beside that, "SL" can be upgraded to a Mobile Welder at any time.

An upgrade with a CNC-controller is also available.

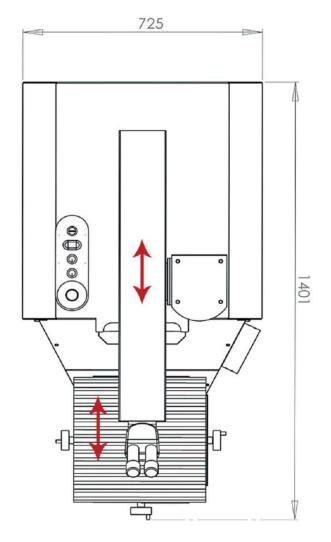


Ergonomic:

Two motorized z-axes are integrated as standard. Motorized table with joystick is available as option.

Compact:

The laser system provides all required options for repairing of tools within a compact area.



Special features

Everything within reach - and under control

The detachable display with its magnetic holders simplifies the operation of the system and the control of the laser parameters.

You can save various welding parameters in 50 memory units.

The control's greatest strength is that remote diagnostics are possible through the error memory function.



The display functions:

- 50 memory units: Welding parameters can be saved and easily retrieved
- Remote diagnostics: integrated sensor technology in the control checks each electronic module separately. In the case of malfunctions, the control reports an error code with a description of the fault.
- Detachable display with magnetic holders and 1.5 meters of cable
- Menu navigation for operational data such as pulse status and operating hours
- Self-test function

Analogue, digital - for any situation the right choice

Using the multifunctional joystick, the system is controlled extremely accurately, quickly and easily. One further ergonomic benefit is provided by the automatic pulse function.

A great special feature that distinguishes this device from others: the joystick allows both analogue and digital operation. The jog-off-function additionally provides control of movement through the buttons.



More potential for more movement

CNC-Controller

- upgrade with CNC-Controller available
- Interpolation of 4 axes
- up to 8 axes upgradeable
- Teach-In-Function and 4 GB memory
- Integrated G-Code interpreter
- network compatible
- driver for peripheral devices



Technical Data*	SL 60	SL 120	SL 160	SL 300	SL 400
Nd:YAG-Laser	wave length 1064 nm				
max. mean power	60 Watt	120 Watt	160 Watt	300 Watt	400 Watt
max. pulse energy	60 Joule	80 Joule	120 Joule	120 Joule	120 Joule
pulse peak power	6 kW	9 kW	13 kW	13 kW	13 kW
pulse duration	0.5-20ms	0.5-20ms	0.5-20 ms	0.5-50 ms	0.5-50 ms
repetition rate	0.5-20 Hz	0.5-20 Hz	0.5-20 Hz	0.5-100 Hz	0.5-100 Hz
focus diameter	0.2-2.0 mm				
beam expander	motorized				
pulse shaping	no	yes	yes	optional	optional
flash lamps	1	2	2	2	2
Memory function	50 storage places (upgradeable to 100)				
Controlling optics	Leica binocular with large oculars				
Dimensions					
weight	210 kg	250 kg	250 kg	300 kg	400 kg
B x L x H in mm	725 x 1401 x 1221				
traverse path	200 x 200 x 300 mm with 250 kg mechanical load capacity				
Line voltage	380 V / 3 Ph / 50 Hz				
Upgrade to higher power	up to 160 Watts	up to 300 Watts	up to 300 Watts		- n. a. ———
Cooling system	——— water/air ———— water/air - external —				
Options	> motorized rot	ation device			
	> remote diagnostics				
	> CNC-controller				
	> swivel optics with telescopic lense				
	> Leica camera system				
	> Sig-CAD-Software, Teach-In or CAD-Data transfer				
	> automatic wire feed system				
	> optional high power cooling system				
	> upgrade to "N	Nobile Welder"			

Laser innovations from Germany - represented around the world.

Sigma Laser GmbH stands for the highest quality and expertise in the field of laser technology. Through our innovations, we supply state-of-the-art solutions for industry.

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- 2 India
- 3 Iran
- Canada
- Poland
- 6 Portugal
- Slovakia
- 8 Slovenia
- 9 Singapore
- 10 South Korea
- 1 Czechia
- 12 Turkey
- U.A.E.
- 4 Greece





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