Sigma Laser SL 160

160 W Nd:YAG laser welding system with manual and CNC operation

160 W	492 h	2,922,888	517
Rated laser power	Total operating hours	Laser pulses	System starts





Applications and features

Stationary laser welding system for precision welding and localised repairs on metal components, including tools, moulds and complex parts. The workstation combines a stereomicroscope for precise positioning and process monitoring with a large slotted worktable, joystick and foot pedals.

Technical specifications

Manufacturer	Sigma Laser GmbH, Germany
Series	SL 120 / 160 / 300
Model	SL 160
Welding modes	Manual and CNC-controlled
Approximate age	10 years

CNC control and operating hours

Weld path programming and original machine counters

The graphical user interface allows the operator to set laser parameters and program weld paths. The screens below show profile and circular path functions and automated path control for repeatable welding in series work and complex repairs.



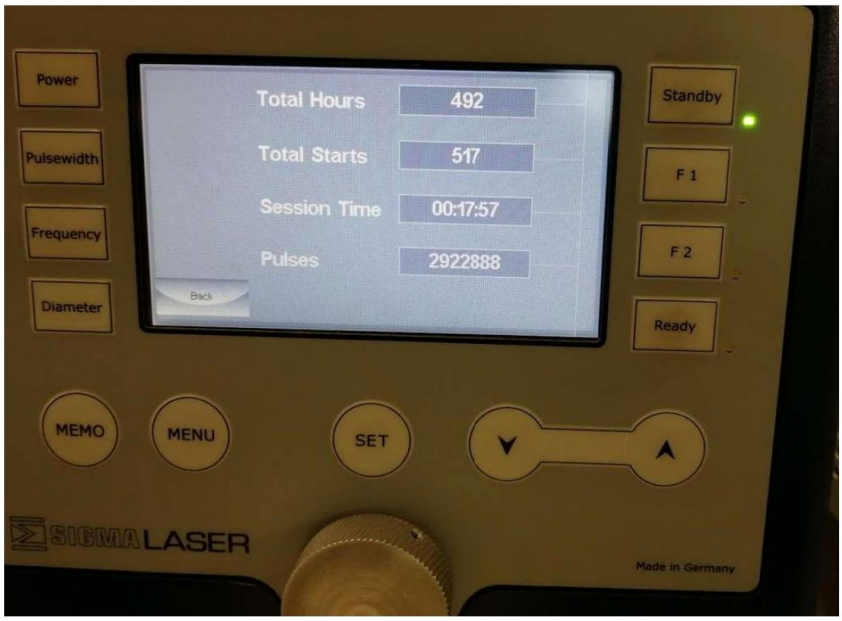
Profile programming



Circular path programming

Original machine counters

The original counters have never been reset. The recorded 492 operating hours are equivalent to approximately 62 eight-hour working days, or about five to six months at four productive hours per working day.



492 h
Total operating hours

517
System starts

2,922,888
Laser pulses

Equipment and service

Included accessories, service history and viewing arrangements



Included equipment

Two spare laser lamps
Optical extension
Laser safety eyewear
Original operating instructions

Service history

In September 2026, the system was professionally inspected, repaired, reassembled, adjusted and function-tested. The work included diagnostics, dismantling and repair of customised assemblies, cleaning mechanical and optical components, reinstalling electronic and optical assemblies, a test run and final system adjustments.

Service date	12 September 2026
Service provider	FOKAB d.o.o.
Service cost	EUR 2,818.20 incl. VAT
Service records	Invoice and service report available to serious buyers

Documentation and viewing

The original operating instructions are included. Additional technical documentation will be provided once available. Inspection and an operational demonstration are available by appointment.