

Precision in laser welding:

Mobile Welder

The modular laser system - for tools up to 25 tons



Innovation and precision for tool- and mould-making industry

Mobile Welder

Laser power
up to 400 watts

wide range with extra performance-and with even more on request

The Mobile Welder modular laser system has been specially designed for repairing large tools and moulds. These may range in size up to 25 tons. Mobile Welder is so flexible that even hard-to-reach places can be processed extremely accurately and at astonishing speed.

The system is available as standard with laser power of 60, 120, 160, 300 and 400 watts. And it can be upgraded: If your requirements grow, your Mobile Welder can also grow easily up to a maximum output of 400 watts. Do you need any system with higher power? We are happy to offer you a special solution to suit.



The core benefits of the Mobile Welder:

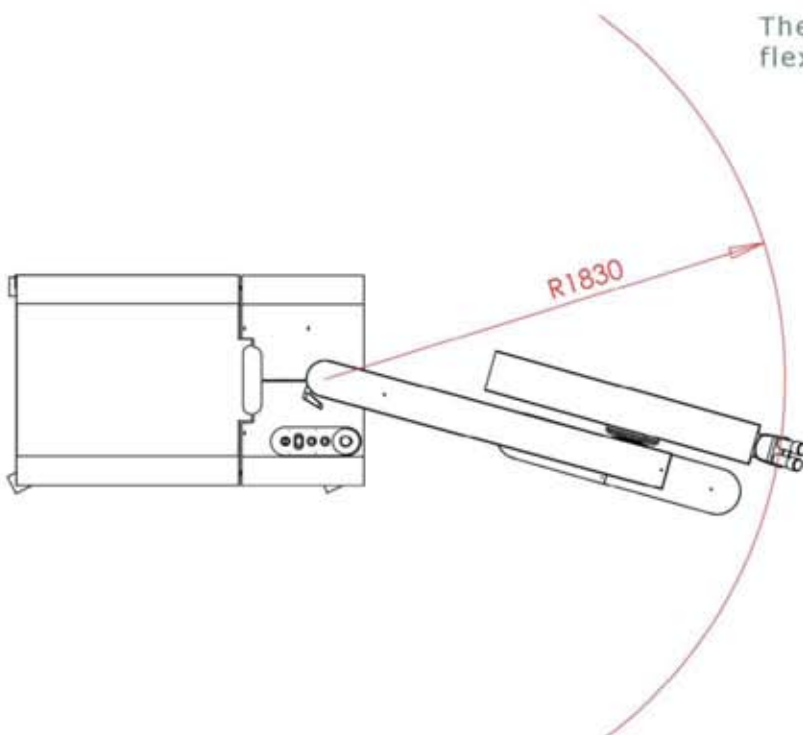
- + Designed specifically for the welding of large tools
- + Stable construction
- + Smooth axis
- + Mobile construction on steered rollers
- + Long travel
- + Modular upgrades available up to 400 watts

Safe transport - safe working in any position

The folding rotary and swivel arm reduces the space required in the transport position, thus providing easy, safe transportation.



The swivel arm has an impressively high degree of flexibility and, above all, a wide range.



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 or digital - make your choice in any situation

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

This is 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.



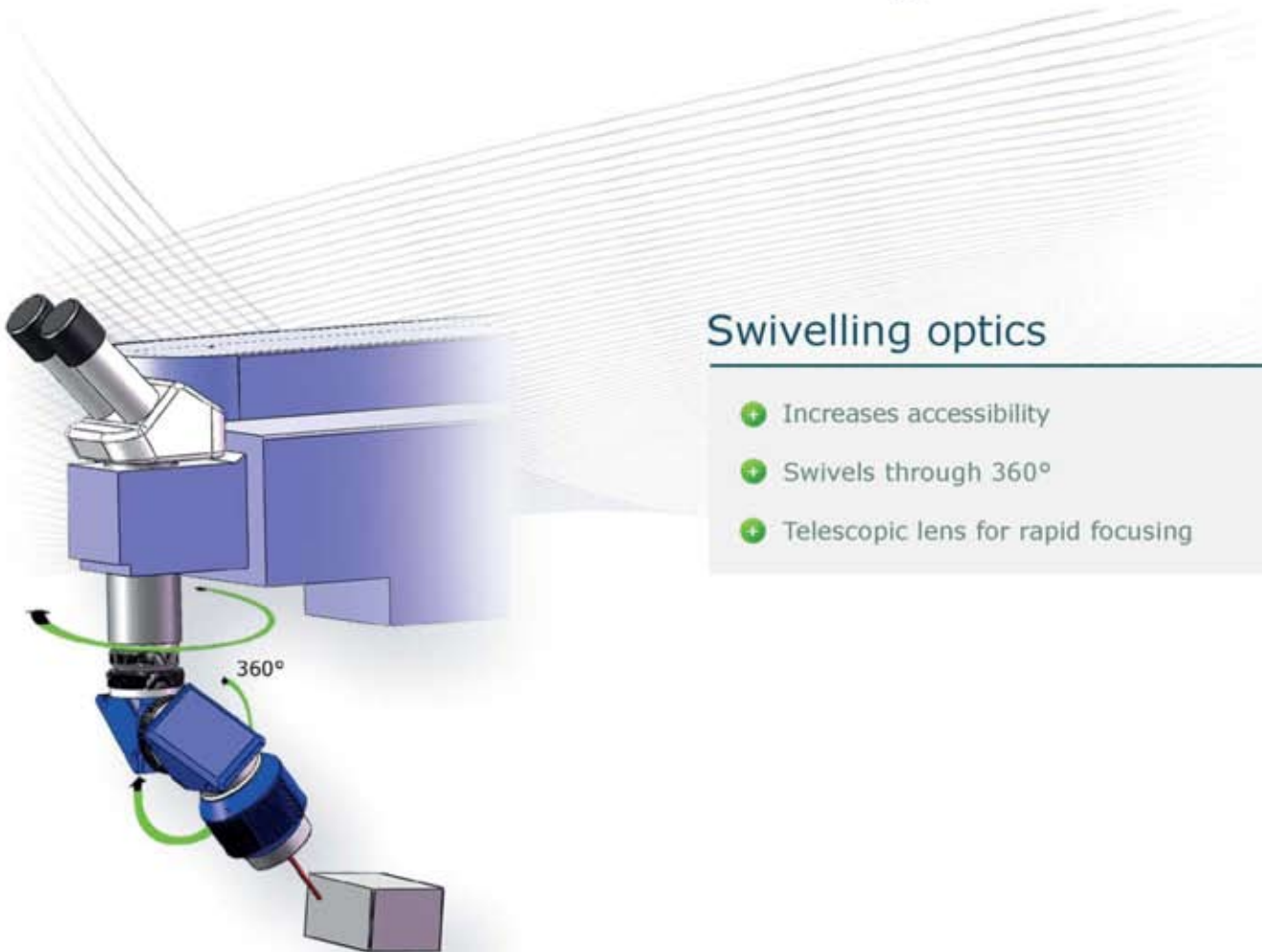
An overview of the joystick:

- Analogue and digital operation possible
- Jog-off-function
- Vmax-function for fast operation
- Coordinate inversion function
- 4-axis control: Control of a motorized rotation device is already integrated
- Freely-programmable buttons for your own applications
- Pulse-automatic

More possibilities for more movement: Accessories

Motorized rotation device

- Drive and control already integrated in the system (no retrofitting required)
- Suitable for very large parts
- Clearance hole \varnothing 50 mm
- Swivels



Swivelling optics

- Increases accessibility
- Swivels through 360°
- Telescopic lens for rapid focusing

Mobile Welder in action



High degree of flexibility and mobility

wide range, long travel

up to 25-ton components

Technical Data*	MW 60	MW 120	MW 160	MW 300	MW 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	250 kg	300 kg	300 kg	350 kg	400 kg
B x L x H in mm	760 x 1300 x 1200				
traverse path	600 x 600 x 400 mm				
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	

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