

New Generation ALM 200 – 250 - 300

- More floor clearance for pallet truck access
- Laser control up to 100 Hz
- CWS Laser power supply
- Laser control with larger display
- Motor control with touch display

The unique mobile one

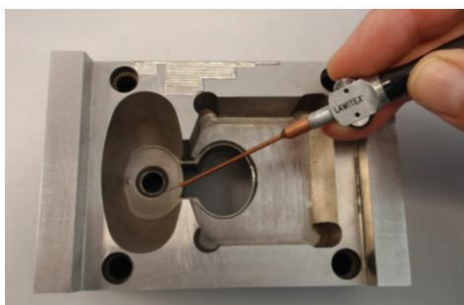
The ALM welding laser unit opens up new application areas for joining and repair welding. Whether on site at the customer's plant or in-house, this unit allows unprecedented mobility. It is especially suitable for working on large moulds, dies, housings and machine parts of all sizes. The laser arm can be positioned flexibly with millimetre accuracy. A turn-and-tilt processing head enables working on any point of the workpiece, even in deep cavities. During welding, the arm can be moved with a joystick, semi-auto-matically, or under remote control. The optional swivelling optics support alignment of the laser beam on the workpiece, thus assuring an ergonomically favourable working position even with complex cavity shapes.

From competent advice in the selection of the appropriate laser system, for your business, to quick response times by our fully trained technical support team.

Our team of application engineers will elaborate process parameters and complete solutions for the individual problems of our customers.



ALM mobile welding



manual wire feeding

Technical Data	ALM 200 mobil	ALM 250 mobil	ALM 300 mobil
Laser			
Wavelength	1064 nm	1064 nm	1064 nm
Average power	200 W	250 W	300 W
Peak pulse power	9 kW	9 kW	9 kW
Pulse energy	90 J	90 J	90 J
Pulse duration	0,5 – 20 ms	0,5 – 20 ms	0,5 – 20 ms
Pulse frequency	single pulse up to 100 Hz	single pulse up to 100 Hz	single pulse up to 100 Hz
Welding spot Ø	0,2 – 2 mm	0,2 – 2 mm	0,2 – 2 mm
Focussing lens	150 mm	150 mm	150 mm
Pulse shaping	Adjustable power-shaping within a laser pulse		
Control	User-specific operation with up to 128 parameter sets		
Viewing optics	Leica binocular with eyepieces for spectacle wearers, tiltable and rotatable		
Working range	Open system Motorised motion system Movement of the arm/processing head can be carried out manually or motor driven under joystick control x,y: 120 x 120 mm z: 1200 mm		
Lowest working position	450 mm		
Highest working position	1500 mm		
Arm travel	1300 mm		
Mechanical dimensions			
L x B x H	1400 x 730 x 1505 mm	1400 x 730 x 1505 mm	1400 x 730 x 1505 mm
weight	approx. 290 kg	approx. 290 kg	approx. 290 kg
Electrical supply	3 x 400 V / 50-60 Hz / 3 x 16 A / 8 kW		
Cooling	Air cooled with internal cooling water circuit		
Options	<ul style="list-style-type: none"> - Turn- and – tilt optics - Tiltable turntable with chuck for horizontal to vertical rotation - Remote control - TV- System for demonstrating and observing the welding process 		