

LAWITEX

AL

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The compact and powerful one

The laser-series AL offer the appropriate laser power for each and every application. The laser is an optimum fit for the workbench AL-T, can however also be simply integrated into existing machine constructions. Diverse processing optics aid you in guiding the laser beam to the position you want to have it in. That makes for quick setting and adjustment of the laser to the workpiece in question. Thanks to many options, you can configure the optimum machine for your area of work.



Technicl Data	AL 75	AL120	AL 150	AL 200	AL 300
Laser					
Average power	75 W	120 W	150 W	200 W	300 W
Peak pulse power	7 kW	9 kW	9 kW	9 kW	9 kW
Pulse energy	60 J	75 J	75 J	90 J	90 J
Pulse duration	0,5 – 20 ms	0,5 – 20 ms	0,5 – 20 ms	0,5 – 20 ms	0,5 – 20 ms
Pulse frequency	-50 Hz	-50 Hz	-100 Hz	-100 Hz (under observation)	-100 Hz
Welding spot Ø	0,2 – 2,0 mm	0,2 – 2,0 mm	0,2 – 2,0 mm	0,2 – 2,0 mm	0,2 – 2,0 mm
Pulsheshaping	Adjustable power-shaping within a laser pulse				
Control	User-specific operable with up to 39 data records interface for external controls				
Focussing optics	150 mm	150 mm	150 mm	150 mm	150 mm
Viewing system					
	Leica binocular with oculars suitable for wearers of glasses				
Power supply					
Dimensions (LxWxH)	820 x 400 x 910 mm	820 x 400 x 910 mm	820 x 400 x 910 mm	820 x 400 x 910 mm	820 x 400 x 910 mm
Weight	ca. 120 kg	ca. 120 kg	ca. 120 kg	ca. 120 kg	ca. 120 kg
Laser beam source					
With focussing unit					
(length x Ø)	900 x Ø 120 mm	900 x Ø 120 mm	900 x Ø 120 mm	1100 x Ø 120 mm	1100 x Ø 120 mm
Weight	ca. 18 kg	ca. 18 kg	ca. 18 kg	ca. 20 kg	ca. 20 kg
Electrical supply					
	200 – 240 V / 50-60 Hz / 16 A		3 x 400 V / 50 – 60 Hz / 3 x 16 A N		
Options					
	<ul style="list-style-type: none"> - Micro welding aperture for welding spot-Ø < 100 µm - Turn- and- tilt optics - Rotational welding optics - TV system for demonstrating and observing the welding process - Tilttable turntable with chuck for horizontal to vertical rotation - LAfet® - programmable laser-wire-feeder 				