laser technology tcms

ALFLAK MAX

AN ESPECIALLY LONG REACH

DESCRIPTION

With a laser arm almost 2.80 m long, the ALFlak MAX offers an especially large movement radius as a service provider or mold maker, this gives you even more flexibility for your applications. Whether working on pressing tools, large molds or machine components, just move the ALFlak MAX on its self-propelled caterpillar track to the workpiece, aim the laser arm at the weld, and start welding. Welding seams up to 340 mm are possible without relocation.

A rotatable laser head, the unique optional turn and tilt objective, and various focusing lenses ensure that you can reach almost any position on the workpiece with the laser beam. The ALFlak MAX comes in two versions: with a self-propelled caterpillar track or a model that can be moved manually.

The User Coordinate Controller offers additional ease of use for effortlessly teaching in a slope as a work surface.

ALFlak MAX

TECHNICAL DATA

	ALFLak MAX 250	ALFlak MAX 300
LASER		
Laser type/wave length	Nd:YAG, 1064 nm	Nd:YAG, 1064 nm
Average power	250 W	300 W
Peak pulse power	9 kW	9 kW
Pulse energy	90 J	90 J
Pulse duration	0,5 - 2,0 ms	
Pulse frequency	Einzelpuls - 100 Hz	
Operating mode	Gepulst	
Welding spot Ø	0,2 - 2,0 mm	
Focusing objective	150 mm, further according to lens data sheet	
Pulse shaping	Adjustability of power curve within a laser pulse	
Display and operation	Display with membrane keyboard Laser parameters can also be set using a multifunctional footswitch, WINLaserNC software through external PC	
OBSERVATION LENS	Leica microscope attachment with eyepieces for glasses wearers, 10 × Optional 16 ×	
WORK AREA		
Movement speed	0 - 25 mm/s	
Movement range (X, Y, Z)	320 × 330 × 370	
Lowest working point in mm	510	
Highest working point in mm	1870	
Arm deflection in mm	2700	
EXTERNAL DIMENSIONS		
W × D × H in mm	1200 × 1200 × 1300	
Weight	with caterpillar track approx. 910 kg, without caterpillar track approx.	
EXTERNAL CONNECTIONS		
Electrical connection	3 × 400 V/50-60 Hz/3 × 16 A/16 A	
Extreme cooling	Prepared	Prepared
OPTIONS	Turn and tilt objective Rotary axis module with chuck, tiltable, for horizontal to vertical rotation TV system for demonstrating and observing the welding process Ergo wedge	

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