ALW

ERGONOMIC SEATED WORKPLACE

ALW 200/300

The movement system's stability is an important criterion for optimal welding results. Only this can ensure exact focusing. The ALW's stable steel construction ensures a highly precise movement mechanism, so that the ALW 200/300 is ideal for automatic applications.

During welding, the workpieces can be moved precisely on 3 axes (X, Y and Z). In addition, there is an optional rotating axis for circular welding.

Even demanding materials like aluminum, precious metals, titanium or sensitive alloys can be processed easily with the powerful ALW 200/300.

ALW 200

ALW 200 open

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Technical data

	ALW 200	ALW 300
LASER		
Laser type/wave length	Nd:YAG, 1064 nm	Nd:YAG, 1064 nm
Average power	200 W	300 W
Peak pulse power	9 kW	9 kW
Pulse energy	90 J	90 J
Pulse duration	0,5 - 20 ms	0,5 - 20 ms
Pulse frequency	Single pulse - 100 Hz	Single pulse - 100 Hz
Operating mode	pulsed	pulsed
Welding spot Ø	0,2 - 2,0 mm	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	Additionally through WINLaserNC software	
OBSERVATION LENS	Leica Ergotobus with eyepieces for use with eyeglasses	
WORKING CHAMBER		
W × D × H	1080 × 850 × 450 mm	1080 × 850 × 450 mm
Mounting plate (W × D)	600 × 475 mm	600 × 475 mm
workpiece weight	400 kg max., central	400 kg max., central
Workpiece movement	Motorized through joystick	Motorized through joystick
Movement range (X, Y, Z)	490 mm × 400 mm × 350 mm	490 mm × 400 mm × 350 mm
EXTERNAL DIMENSIONS		
W × D × H	1190 × 1400 × 1500 mm	1190 × 1400 × 1500 mm
Weight	870 kg	870 kg
ELECTRICAL CONNECTION		
Electrical connection	3 × 400 V / 50–60 Hz / 3 × 16 A	
Extreme cooling	optional	optional
Extraction	integrated	integrated
OPTIONS	Turn and tilt objective Rotary axis module Micro welding function Ergo wedge TV system for demonstrating and observing the welding process	