## **ALW**

## FRGONOMIC SFATED 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 100/150

With 100 or 150 watts, this ALW is mainly used when the primary tasks include repairs and deposition welding in tool and mold manufacturing, but programmed welding is not required.



ALW 150

150 W

10 kW

100 J

0.2 – 2.0 mm With micro welding function (optional) <  $100 \mu m$ 

Display with membrane keyboard Laser parameters can also be set using a multifunctional footswitch

Leica trinocular microscope attachment with eyepieces for use with eyeglasses,

150 mm, further according to lens data sheet

Adjustability of power curve within a laser pulse

Nd:YAG, 1064 nm:

Single pulse - 20 Hz

800 x 850 x 550

350 kg max., central

920 x 1220 x 1570

Motorized through joystick

180 mmx 180 mm x 380 mm

3 x 400 V / 50-60 Hz / 3 x 16 A

600 x 600

500 kg

Integrated

ALW 100

100 W

0.5 - 20 ms Single pulse - 15 Hz

9 kW

75 J

Pulsed

Nd:YAG, 1064 nm

10x, Optional 16x

800 x 850 x 550

350 kg max., central

920 x 1220 x 1570

Coaxial illumination

Rotary axis module

Micro welding function

Motorized through joystick

180 mmx 180 mm x 380 mm

3 x 400 V / 50-60 Hz / 3 x 16 A

TV system for demonstrating and

observing the welding process

600 x 600

500 kg

Integrated

Ergo wedge

TECHNICAL DATA

Laser type / wave length

LASER

Average power

Pulse energy

Pulse duration

Pulse freauency Operating mode

Welding spot Ø

Pulse shaping

WxDxH in mm

Weight

workpiece weight

Workpiece movement Movement range (X, Y, Z)

EXTERNAL DIMENSIONS WxDxH in mm

ELECTRICAL CONNECTION

Electrical connection

Extreme cooling

Extraction

OPTIONS

Focusing objective

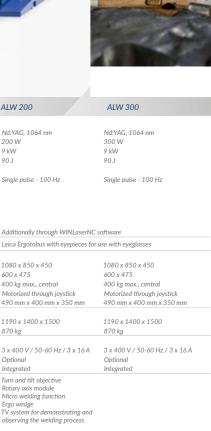
Display and operation

**OBSERVATION LENS** 

WORKING CHAMBER

Mounting plate (WxD) in mm

Peak pulse power



ALW 200

200 W

9 kW

90 J

Nd:YAG, 1064 nm

Single pulse - 100 Hz

1080 x 850 x 450

400 kg max., central

1190 x 1400 x 1500

Turn and tilt objective

Rotary axis module

600 x 475

870 kg

Optional

Integrated

Frgo wedge

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