

ALW

Ergonomic seated workplace

Nd:YAG-LASER POWER (WATT)

200 300



FIBER LASER POWER (WATT)

300 450



LASER (technical values see p. 58/59)

Display and operation

12.1" Display with touch function. Setting of the laser parameters via touch screen and multifunctional foot switch. WINLaserNC-Software programmable with the integrated PC.

OBSERVATION OPTIC

Leica ergotubus with eyepieces for glasses wearers, 10 x, optional 16 x

WORKING CHAMBER

W x D x H 1080 x 850 x 450 mm
Mounting plate (W x D) 600 x 475 mm
Workpiece weight 400 kg max., central
Workpiece movement Motorized via joystick
Movement range (X, Y, Z) 478 x 340 x 332 mm

EXTERNAL DIMENSIONS

W x D x H 1190 x 1400 x 1740 mm (with display folded 1500 m)
Weight 900 kg

EXTERNAL CONNECTIONS

Electrical connection 3 x 400 V / 50 - 60 Hz / 3 x 16 A
External cooling Optional
Exhaust **ALW Nd:YAG:** Exhaust system integrated
ALW FIBER LASER: Connection for external exhaust system integrated
USB keyboard and mouse Port available

OPTIONS

Turn-tilt-objective // rotating axis with chuck, tiltable, for horizontal to vertical rotation // Camera system for demonstrating and observing the welding // Ergo wedge // AL-DV programmable laser wire feeder // function micro welding for Nd:YAG systems // optics cooling // sealing air (only for fiber lasers) // Cross Jet



The system meets the high safety requirements of performance level d.



Find out more in our product video

ideally suited for automatic applications, but also for the exact positioning of components when repairing molds and tools. Workpieces weighing up to 400 kg can be moved precisely on 3 axes (X, Y, Z). In addition, a rotary axis for circumferential welding is available as an option. You select the laser source depending on your requirements.

Nd:YAG laser sources with either 200 or 300 W are available, which are characterized by a high pulse peak power. However, they can also be

used to realize fine welds. It gets even finer with the optional, switchable fine welding option. This provides spot weld diameters < 0.1 mm for high-precision micro-welds.

You can also get the ALW with a 300 or 450 W **fiber source**. We recommend fiber lasers for sheet metal processing, for deep penetration welding, for CW welding and for reproducible welding results thanks to the integrated power monitoring. The fiber source is characterized by high energy efficiency.

The closed, laser-safe housing makes the **ALW** a laser-protected workplace that can be used in the normal production environment without

additional safety precautions. The stable steel construction ensures high precision of the movement mechanics, so that the ALW is