

AL-CROSS

Passion for mobile precision welding

FIBER LASER POWER (WATT)

450 600



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

LASER (technical values see p. 58/59)

Display and operation Setting of the laser parameters via touch screen, multifunctional footswitch, keyboard or/and AL-DRIVE.

OBSERVATION OPTIC

Leica microscope attachment with eyepieces for glasses wearers, 10 x, optional 16 x

WORK AREA

The processing head can be freely positioned in the space and additionally moved using a joystick

Movement speed (X, Y, Z) 0 to 25 mm/s
Movement range (X, Y, Z) 120 x 110 x 800 mm
Lowest working point 400 mm
Highest working point 1900 mm
Arm deflection 1300 mm

EXTERNAL DIMENSIONS

W x D x H 790 x 1590 x 1250 mm
Weight 480 kg

EXTERNAL CONNECTIONS

Electrical connection 3 x 400 V / 50 - 60 Hz / 3 x 16 A
External cooling / sealing air **AL-CROSS 450 F:** Optics cooling/sealing air optional
AL-CROSS 600 F: Optics cooling/sealing air included
Connection possibility for an external cooler to support the cooling of the laser source.

OPTIONS

Turn-tilt-objective // rotating axis with chuck with chuck, tiltable, for horizontal to vertical rotation // Crossjet // Camera system for demonstrating and observing the welding // Ergo wedge



Find out more in our product video

The **AL-CROSS** is ideal for use in sheet metal applications or in mechanical engineering. Equipped with a 600 W laser source, it is an entry-level system for „heavy metal“ operations. Anyone who wants flexible pulsed or CW deep penetration welding – e.g. on large tanks – gets the necessary laser power and flexibility with the AL-CROSS. The welding behavior can be influenced via predefined pulse shapes.

The AL-CROSS fits in standard vans. Integrated eyelets on the robust steel housing plus a hook for a cable winch ensure that the system can be easily loaded or lifted. The sturdy aluminum handles provide impact protection for edges and housing.

MULTIFUNCTIONAL
AND
COMPACT