

ALFlak F

Fiber laser systems

ALL ALFlak MACHINES ARE AVAILABLE WITH A SELF-PROPELLED CATERPILLAR TRACK OR AS A MANUALLY MOVING VERSION.



FIBER LASER POWER (WATT)

300 450 600 900



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

LASER (technical values see p. 58/59)

Display and operation

Touch display. Additional setting of the laser parameters via multifunctional foot switch. Operation of WINLaserNC software via touch screen.

OBSERVATION OPTIC

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

WORK AREA

Movement speed (X, Y, Z)	0 to 25 mm/s
Movement range (X, Y, Z)	340 x 330 x 370 mm
Lowest working point	565 mm
Highest working point	1780 mm
Arm deflection	approx. 1400 mm

EXTERNAL DIMENSIONS

W x D x H (base unit incl. chassis)	1200 x 1030 x 1150 mm
Weight	With caterpillar track approx. 910 kg, without approx. 610 kg

EXTERNAL CONNECTIONS

Electrical connection	3 x 400 V / 50 - 60 Hz / 3 x 16 A
External cooling, sealing air	ALFlak 300 F, 450 F: Optional ALFlak 600 F, 900 F: Optics cooling and sealing air integrated

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

ALFlak 600 F, 900 F additionally:

Powder nozzle // water-cooled turn-tilt-objective



Learn more on our website

The **ALFlak** is also available with fiber laser sources: 300, 450, 600, 900 and even 1200 W. The fiber source model is recommended if your application requires a validated process, if you wish to weld using CW (continuous wave) method or pulses. For deep welding in sheet metal fabrication, for laser cladding. And also, for melting thick wire diameters up to 2.0 mm in the high performance classes.

There are a number of options available:

- Automatic wire feeder AL-DV
- Powder nozzle for automated powder deposition welding (fiber lasers > 450 W)
- Powder feeder AL-PF for automated powder deposition welding (fiber laser > 450 W)
- Heavy duty rotary axis for shaft welding
- Different lenses
- Mabotic and 3D-Scanner