

AL F

The flexible fiber laser for multiple welding tasks

Whenever flexibility and efficiency is needed, count on the flexible AL F fiber laser with its mobile supply unit and a choice of laser heads for a wide array of welding tasks.

The AL F's possibilities range from mobile welding with a laser pistol and video goggles to manual welding viewed through a microscope or fully automatic welding processes observed through a camera.

If necessary, shielding gas and welding wire can be fed through the laser head.

Choose the desired laser power and the suitable laser head for your welding application.

The following laser heads are available:

- ① Laser pistol for mobile applications
- ② Laser head for microscopic observation
- ③ Laser head for camera observation
- ④ Laser head + resonator for use with an ALPHA LASER movement system



Laser system components

- Mobile supply unit with
 - Fiber laser with 300 W, 450 W, 600 W or 900 W
 - Touch display
- Suitable laser head

Options *

- Tilt & swivel lens
- Rotating welding lens
- Turn axle
- Camera system
- Welding wire feed

* depending on the selected laser head

Technical data

Laser	Laser type	Fiber laser, air-cooled
	Wavelength	1070 nm
	Average power	300 W • 450 W • 600 W • 900 W
	Peak pulse power	CW-3 kW • CW-4,5 kW • CW-6 kW • CW-9 kW
	Max. pulse energy	30 J • 45 J • 60 J • 90 J
	Pulse duration	0.2 – CW ¹
	Operating modes	Pulsed / CW ¹
	Pilot laser	0.1 – 1 mW
	Laser protection class	4
Mobile supply unit	External dimensions	approx. 625 x 625 x 885 mm (W x D x H)
	Weight	approx. 95 kg

¹ CW = continuous wave

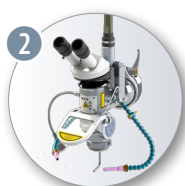
More information on each laser head can be found on its data sheet.

With laser pistol
AL-AKO P



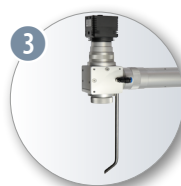
for 450 W

With laser head for
microscopic observation
AL-AKO M



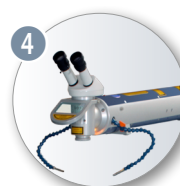
for 300, 450,
600, 900 W

With laser head for
camera observation
AL-AKO K



for 450 W

With laser head
+ resonator
AL-AKO R



for 300, 450,
600, 900 W



AL F
with laser head AL-AKO R
and laser work bench AL-T basic

