

AL 1200 F

For tough environments



FOR LASER WELDING
PROFESSIONALS

The ALPHA LASER 1200-Watt welding lasers are ideal for applications in the oil & gas sector, marine shaft repair, hard facing with wire and powder, in hydroelectric power plants (casting repairs) and for large but sensitive components where TIG welding becomes problematic. The laser systems are also suitable for mobile use or as a stationary workplace in the workshop.

The **AL 1200 F** is our most powerful laser for heavy duty applications. The welding system is designed to withstand even the toughest environmental conditions, as its housing is completely closed and no ambient air can get inside the machine. This means that all parts, including the optics and electronics, are protected from dirt. The laser modules are water-cooled so that the machine doesn't

overheat while you are welding at high rates of material deposition (1.6 mm wire with a feed rate of 0.5 m/min). The wire can be fed with the **AL-DV** automatic wire feeder.

The AL 1200 F requires a handling system such as the AL-T Basis C or an application device LAV 100 NL.

FIBER LASER POWER (WATT)

1200



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 display, multifunctional footswitch, keyboard and AL-DRIVE. Control of the AL-T Basic table via laser touch screen.

OBSERVATION OPTIC

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

WORK AREA IN COMBINATION WITH AL-T BASIC C

Movement speed (X, Y, Z) 0 to 25 mm/s

Movement range (X, Y, Z) 400 x 210 x 300 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 Water cooled laser modules: system can only be operated with an external cooling unit

OPTIONS

Water-cooled turn-tilt-objective // sealing air // cross jet // various rotary axes // ergo-wedge // camera system // automatic wire feeder AL-DV