

Technical data AL 150

Manufacturer

ALPHA LASER GmbH
Zeppelinstraße 1
D-82178 Puchheim

Measurement supply unit (L x W x H) 820 x 450 x 910 mm
Weight approx. 85 kg
Measurement laser head with focusing optic (L x W x H) 700 x 120 x 120 mm
Weight approx. 10 kg
Electrical connection Triple phase
380V / 50 Hz - 60 Hz / 3 x 16 A / 8 kW
air cooled

Laser crystal / wavelength Nd:YAG, 1064 nm
Average power 150 W max.
Pulse energy 100 mJ-100 J
Peak pulse power 10 kW max
Pulse duration 0.5-20 ms
Pulse frequency single pulse -20 Hz/continuous pulse
Range of setting 0.2 - 2.0 mm
Focal length f 150 mm
Pulse shaping modulation of the intensity of the impulse
Optical Viewing System Stereo-Microscope / model Leica
14 fold magnification
Field of vision diameter 21 mm
RS 232 Interface
16 Bit IO Communication

The system consists of:

- supply unit with 2,5 m supply cables
- laser head with optical viewing system Leica
- focussing optic
- UV-anti-glare protection
- laser protection glass
- 2-step footswitch and joysticks for setting laser parameters and welding diameter
- illumination
- protection gas supply



The laser head can be mounted on a portal with Z-adjustment