

AL-Q

Laser welding station for series production



FIBER LASER POWER (WATT)
150 300 450 600



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

LASER (technical values see p. 58/59)

Display and operation 15" Display with touch function. WINLaserNC-Software programmable via integrated PC, keyboard and mouse.

OBSERVATION

Monitor

WORKING CHAMBER

W x D x H 900 x 650 x 850 mm
Mounting plate (W x D) 610 x 440 mm
Workpiece weight 100 kg, zentral
Movement range (X, Y, Z) 210 mm, 175 mm, approx. 300 mm
Total vibration value > 2.5 m/s²

EXTERNAL DIMENSIONS

W x D x H 1850 x 1775 x 2470 mm (working position with door open)
 1250 x 1140 x 1990 mm (transport position, door closed, without warning lamp)

Weight 475 kg

EXTERNAL CONNECTIONS

Electrical connection 3 x 400 V / 50 - 60 Hz / 3 x 16 A

OPTIONS

turn-tilt-objective // sealing air // cross jet // rotary axis // Pneumatic // I/O

The **AL-Q** is a laser cell that is available with different air-cooled fiber laser sources with 150, 300, 450 or 600 watts. The 450 and 600 watts are optionally available with water cooling. The machine can be flexibly equipped with all ALPHA LASER processing heads. A quick-change system is included as standard.

The AL-Q is ideal for automated work. An electric door opens and closes at the push of a button, ideal for quickly equipping the work chamber. Individual parts or magazines find enough space on the centrally arranged worktable. Long components can also be inserted into the cabin from underneath via a passage in the worktable or via slots on the side of the housing. A pick-and-place system can be connected or retrofitted for more automation.

Programming is easy to learn, since our well-known WINLaserNC software doesn't require G-codes. Different user levels and access rules can be defined to avoid working errors.

Even manual welding tasks can be carried out on the AL-Q (rework, single piece, etc.). Just connect the optional ALPHA LASER 2D-video goggles to observe the welding process.

Work is then carried out with the door open – with additional laser protection measures. An external extraction (start-stop integrated in the AL-Q) reliably extracts welding fumes.

