


# ALV

It's your choice

<b>Nd:YAG-LASER POWER (WATT)</b>	
<b>120</b>	<b>180</b>
<b>FIBER LASER POWER (WATT)</b>	
<b>150</b>	<b>300</b>
 <p>The system meets the high safety requirements of performance level d.</p>	
<b>LASER</b> (technical values see p. 58/59)	
<b>Display and operation</b>	Touchscreen. Setting of the parameters also via the optional multifunctional foot switch.
<b>OBSERVATION OPTIC</b>	
Leica microscope attachment with eyepieces for glasses wearers, 10 x, optional 16 x	
<b>WORKING CHAMBER</b>	
<b>W x D x H</b>	580 x 420 x 530 mm
<b>Mounting plate (W x D)</b>	455 x 315 mm; Table feed through downwards (oblong hole Ø 46 x 40 mm)
<b>Workpiece weight</b>	Max. 50 kg, zentrale Last
<b>Workpiece movement</b>	Motorized via Joystick (manual, semi-automatic or automatic)
<b>Movement range (X, Y, Z)</b>	110 x 90 x 280 mm
<b>Movement speed</b>	0 to 25 mm/s
<b>Exhaust</b>	Integrated
<b>EXTERNAL DIMENSIONS</b>	
<b>W x D x H</b>	650 x 1160 x 1590 mm
<b>Weight</b>	260 kg
<b>EXTERNAL CONNECTIONS</b>	
<b>Electrical connection</b>	<b>ALV 120, ALV 150 F:</b> 200 - 240 V / 50 - 60 Hz / 16 A <b>ALV 180, ALV 300 F:</b> 3 x 400 V / 50 - 60 Hz / 3 x 16 A
<b>OPTIONS</b>	
Various rotary axis modules with chuck (also pneumatic) for horizontal/vertical rotary movements // micro welding function // camera system for demonstration and observation of the welding process // ergo wedge // multifunctional foot switch // hinged doors // turn-tilt-objective // lens extension for f = 120 mm laminar nozzle	



Find out more in our product video

The compact and ergonomic **ALV** with its laser-safe working chamber is available with different laser powers, laser sources and with app or NC control.

The ALV is used in the areas of precision and deposit welding in tool and mold making, in sensor production and in medical and precision engineering.

The welding laser offers a large vertical travel and doors that can be opened wide, so that larger workpieces can also be accommodated. For sensor applications and for easy placement of long pipes, upward-opening hinged doors with a side slot can be ordered. In addition, a duct in the working chamber floor allows pipes to be inserted from below.

A fine welding function reduces the spot diameter to < 0.1 mm for high-precision micro-welds. The ALV has 3 linear movement axes, with the vertical Z-axis lifting up to 50 kg.

Different rotary axes for machining cylindrical parts are optionally available. The device version with WINLaserNC control enables interpolated travel in XYZ for automated welding, e.g. processing magazines with several components. The ALV is operated via an intuitive touchscreen.

With just a few simple steps, the laser-safe, closed system can be turned into an open laser workplace for which appropriate laser safety precautions must then be taken.