

## VL 50

### MANUAL WELDING LASER

This compact laser welding device is suitable for demanding manual work and for tasks in small-series industrial production. Ideal for gold and silver, but also for ordinary steels.

The VL 50 bench laser welding device offer 50 watts for high-performance beam behavior and stands out for its consistent, powerful yet smooth welding behavior.

The spacious working chamber offers a very well-lighted work area. The VL 50 is loaded through the front flap.

Even the finest joints can be created with the optional micro welding option, and monitored through the stereo microscope.

Thanks to the ergonomically designed housing, the well arranged operating elements, keyboard, display and joystick, this manual welding laser lets you concentrate on your work – even for hours.



VL 50



Touch-Display

## Technical data

VL 50	
<b>LASER</b>	
Laser type/wave length	Nd:YAG, 1064 nm
Average power	60 W
Peak pulse power	7.5 kW
Pulse energy	50 J
Pulse duration	0.5-20 ms
Pulse frequency	Single pulse-25 Hz
Operating mode	pulsed
Welding spot Ø	0.2-2.0 mm, continuously adjustable
Focusing objective	120 mm
Pulse shaping	3 preset pulse shapes
Display and operation	Display with membrane keyboard Touchscreen optional
<b>OBSERVATION LENS</b>	SMK (Leica binocular microscope attachment optional)
<b>WORKING CHAMBER</b>	
W × D × H	475 × 232 × 192 mm
Max. workpiece height	88 mm (200 mm with recessed working chamber)
Extraction	integrated (H14)
<b>EXTERNAL DIMENSIONS</b>	
W × D × H	510 × 645 × 430 mm
Weight	50 kg
<b>EXTERNAL CONNECTIONS</b>	
Electrical connection	200-240 V / 50-60 Hz / 10 A
<b>OPTIONS</b>	Micro welding function Camera system for demonstrating and observing the welding process Ergo wedge Halogen dimmer LED ring light 50 Hz technology



VL 50 with bristle grips