Data Sheet

MERGENTHALER
ultimate laser processing

LH501-M
Laser Processing Head

Laser Process Head
offering

QBH, LLK-A, D80, FSMA905 connectors

Dual Wavelength treatment

Co-axial process control

Typical Applications

Laser Soldering
Plastic Welding
Heat treatment

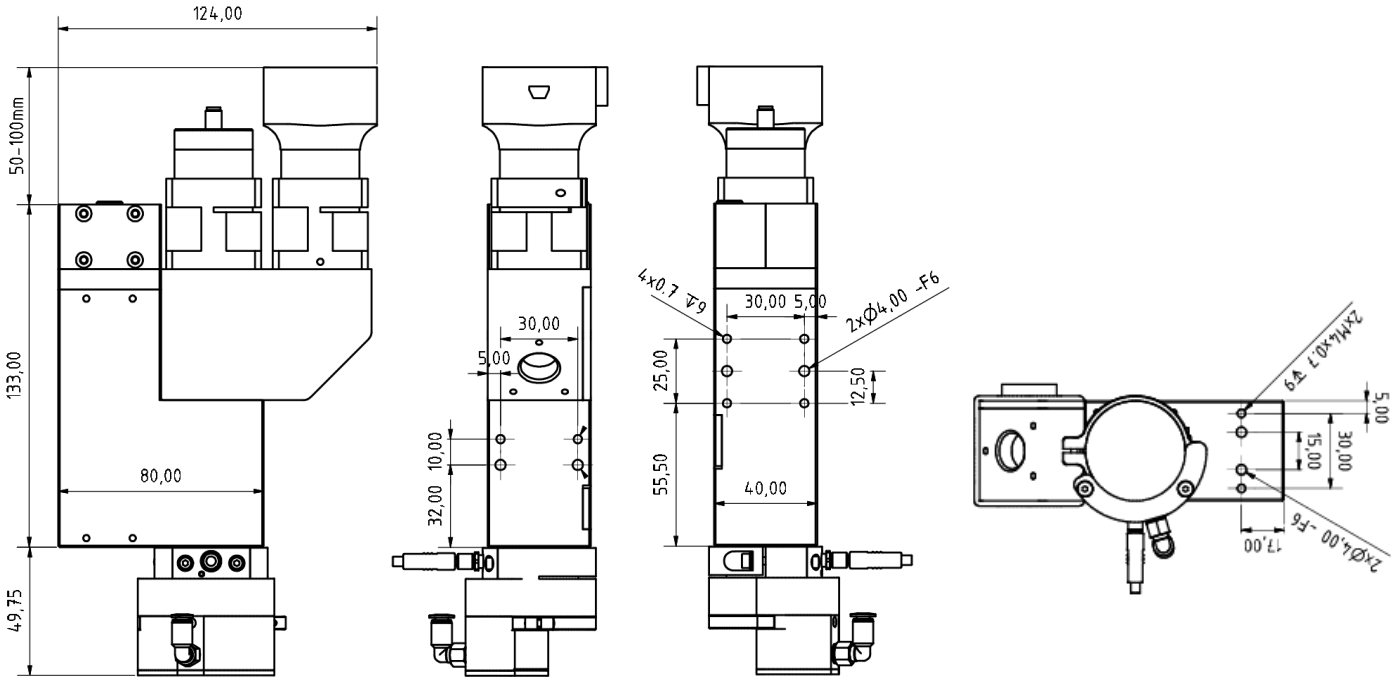
Fiber coupled laser up to 500W

Features

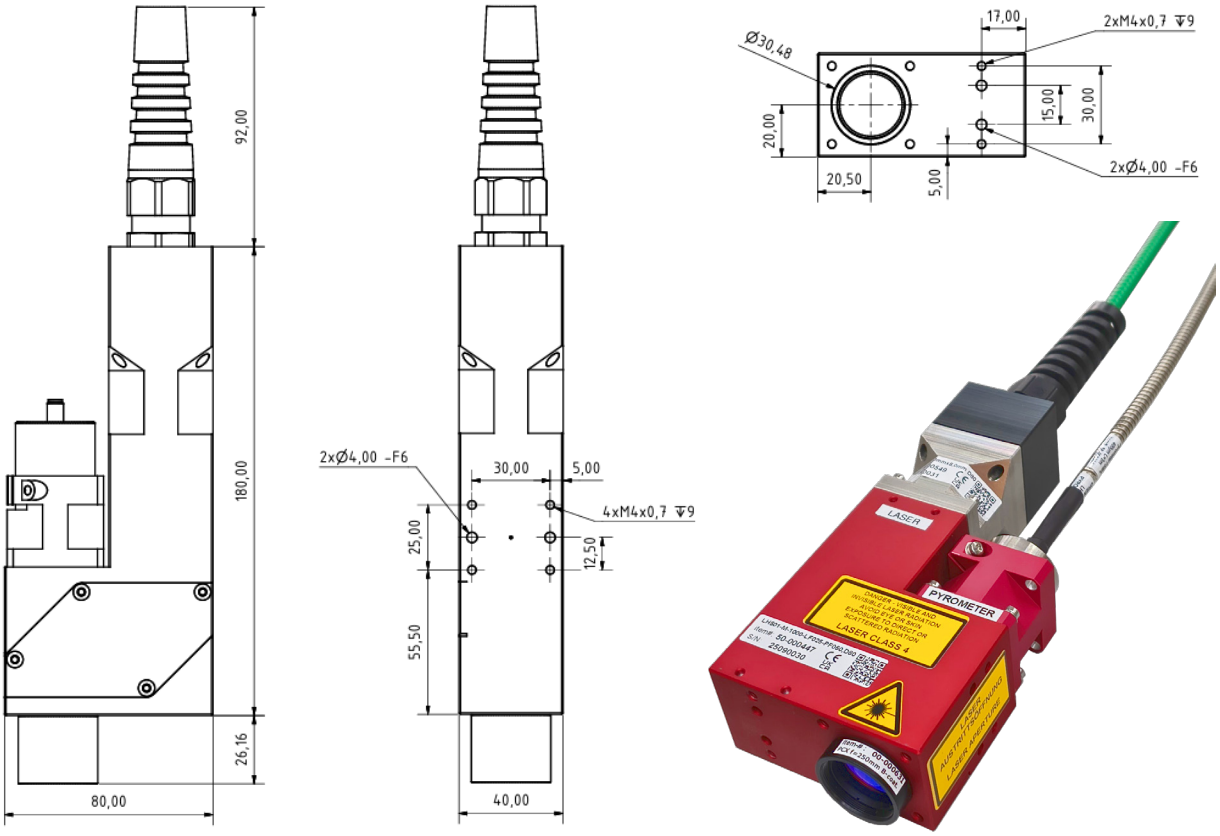
Beam shaping
View port for camera and pyrometer
Air knife

Solder Wire feeder
LASCON® Controller and
Camera Manager for process control

Standard Straight Version

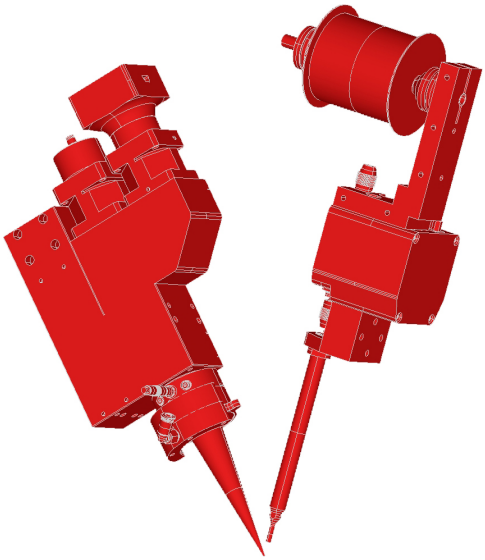


LH501 Beam Shaping Version



Setup for Soldering

LH501 Setup with Solder Wire Feeder SWF200



Adjustable feed speed

Adjustabel feed acceleration

50µm wire feed resolution

Wire diameter of 0.5mm to 1.2 mm

Technical Data

	LH501-M (Laser Processing Head)
Optical power:	up to 500W (250Wcw) with fiber coupled laser
Spectral range:	Diode Laser: 450nm, 808 - 980nm, Fiber laser: 1050 - 1070nm
Optics:	1.0"; AR coated, 23mm max. apperture
Fiber connector:	QBH, FSMA905, D80, LLK-A (connection of various fiber laser collimators available)
Fiber diameter:	typical 100µm - 600µm
Num. Aperture:	typical 0.22 others on request
Sighting:	Video port for camera , ring light illumination, coaxial pyrometer
Pilot Laser:	Class 2, Wavelength 650nm +/- 10nm, via fiber coupled Pyrometer
Process Control:	Closed loop temperature process control via fiber coupled pyrometer and LPC04 LASCON Controller®; Camera Manager for postion control
Ambient temperature:	5°C to 55°C for operation, no condensation
Dimensions:	122 x 40 x 220mm
Weight:	0.8 kg head with pyrometer, 1.3 kg head with pyrometer and camera
Protection:	IP50
CE label:	According to EU directives for electromagnetic immunity
Conformity:	The RoHS Directive 2011/65/EU of 2011-06-08 with supplement from 2015-03-31 is fulfilled

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