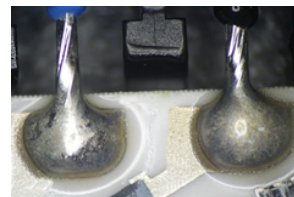
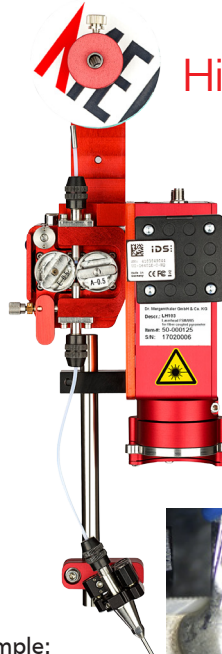


## LH103

### Low Power Laser Head



Small size processing Head  
offering  
Highest application flexibility



Application example:  
Laser soldering LH103 with SWF100

### Typical Applications

Laser Soldering  
Plastic Welding  
Heat treatment

Fiber coupled laser up to 200W

### Features

Beam shaping  
View port for camera and pyrometer  
Small size and low weight

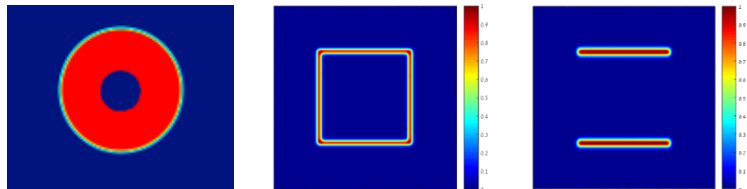
Solder Wire feeder  
LASCON® Controller and  
Camera Manager for process control

# Technical Data

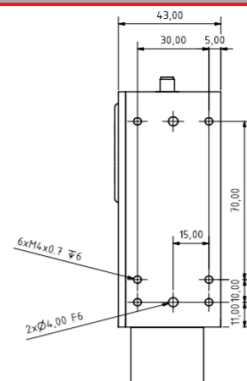
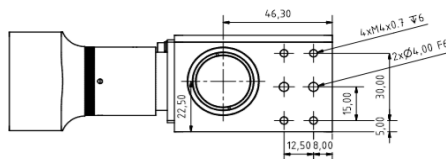
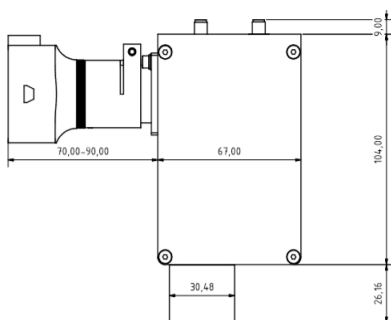
	<b>LH103</b> (Low Power Laser Head)
Optical power:	up to 200W with fiber coupled laser
Spectral range:	808nm - 980nm
Optics:	1.0"; AR coated, focal length and beam shaping on request
Fiber connector:	FSMA905
Fiber diameter:	typical 100µm - 600µm
Num. Aperture:	typical 0.22 others on request
Sighting:	Video port for camera, ring light illumination
Pilot Laser:	Class 2, 650nm +/- 10nm, via fiber coupled Pyrometer
Process Control:	Closed loop temperature process control via fiber coupled pyrometer and LPC-04 LASCON Controller®; Camera Manager for position control
Ambient temperature:	5°C to 55°C for operation, no condensation
Dimensions:	approx.: 50 x 110 x 180mm, Optics: dia 30.6mm, length 100mm
Weight:	0.7 kg
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

Wide range of beam shapers availabel:

e.g.: rectangle and round formats  
lines, double lines



## Dimensions



You are solely responsible for selecting the appropriate product for your application, validating and testing your application, and ensuring your application meets applicable standards, and any other safety, security, or other requirements.  
Data are subject to be changed without notice.

ultimate laser processing

Dr. Mergenthaler GmbH & Co. KG  
Lilienthalstraße 14, D-89231 Neu-Ulm, Germany  
+49-731-159790-40  
info@mergenthaler-laser.com  
www.mergenthaler-laser.com