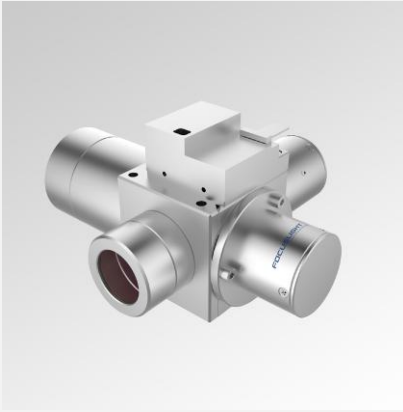


Industrial Laser System for Material Processing

Activation Series - Laser Process Heads



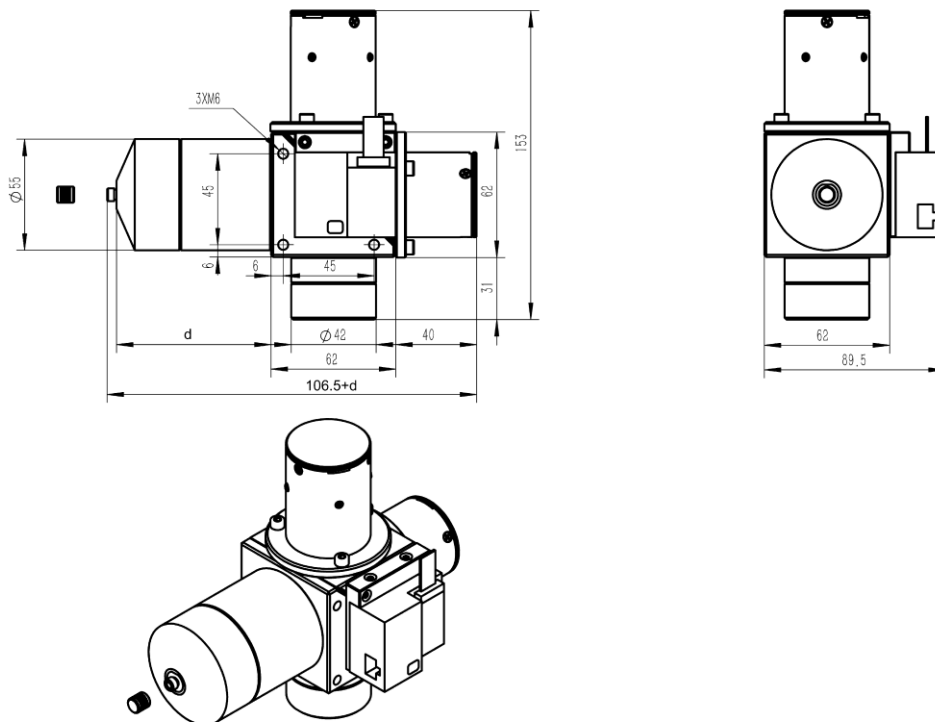
Features

- Optimized beam shaping
- Perfect process tool for welding and soldering
- Safe process data transfer
- Individual software package

Applications

- Material processing
- Laser annealing
- Laser reflow soldering
- Laser bonding
- Plastic welding
- Laser non-contact heating

Product Dimensions (mm)



Remark: The structure drawing is for reference only. Please feel free to contact us for any special requirements.

Product Specifications

Product Code		ACT000031	ACT000048
Part No. ¹		LM-LPH-SMA-LH-10×2-175	LM-LPH-LD80-LH-10×2-175
General Data		Unit	Value
Housing Material		-	Anodized Aluminum
Dimensions (length × width × depth)		mm	143 × 93 × 62
Mounting Threads (on both sides)		-	3 × M6
Fiber Connector Types		-	SMA905
Length d (shown in the picture)		mm	76.5
Weight		g	1450
Optical Data		Unit	Value
Max. Laser Power (CW)		W	120
Wavelength Range		nm	790 - 990
Max. Numerical Aperture		-	0.22
Max. Fiber Core Diameter		μm	400
Transmission Rate		-	90% (typ. 95%)
Collimation Focal Length		mm	30
Focusing Focal Length		mm	175
Working Distance		mm	167 ± 10
Line Length X-direction TopHat FWHM		mm	12.0 ± 1.0
Line Length Y-direction Gauss FWHM		mm	1.6 ± 0.2
Uniformity of X-direction (1 - (Imax - Imin) / (Imax - Imin))		%	95%
Thermal Data		Unit	Value
Operating Temperature		°C	5 ~ 40
Storage Temperature		°C	15 ~ 50
Max. Housing Temperature in Operation		°C	60
Pyrometer Control Data		Unit	Value
Detection Wavelength		nm	-
Temperature Measurement Range		°C	-
Sampling Rate (standard)		kHz	-
Calibration Standard Type		-	-
Power Monitoring Data		Unit	Value
Wavelength Range		nm	-
Sampling Rate (standard)		kHz	-
Operating Temperature Range		°C	-
Measurement Accuracy		%	-
Interfaces Data		Unit	Value
Interface Type		-	-
Data Cable Type		-	-
Socket Type		-	-
Communication Protocol of Laser Driver		-	-
Software		Unit	Value
Process Software		-	-

¹ Part No. = Brand Code - Series - Fiber Connector Type - Beam Type - Beam Size - Focusing Focal Length - Structure Type



Product Specifications

Product Code		ACT000049	ACT000066
Part No. ¹		LM-LPH-SMA-LH-10×10-175	LM-LPH-LD80-LH-10×10-175
General Data	Unit	Value	
Housing Material	-	Anodized Aluminum	Anodized Aluminum
Dimensions (length × width × depth)	mm	143 × 93 × 62	143 × 93 × 62
Mounting Threads (on both sides)	-	3 × M6	3 × M6
Fiber Connector Types	-	SMA905	LD80
Length d (shown in the picture)	mm	76.5	76.5
Weight	g	1500	1500
Optical Data			
Max. Laser Power (CW)	W	120	500
Wavelength Range	nm	790 - 990	790 - 990
Max. Numerical Aperture	-	0.22	0.22
Max. Fiber Core Diameter	μm	400	400
Transmission Rate	-	90% (typ. 95%)	90% (typ. 95%)
Collimation Focal Length	mm	30	30
Focusing Focal Length	mm	175	175
Working Distance	mm	167 ± 10	167 ± 10
Line Length X-direction TopHat FWHM	mm	12.0 ± 1.0	12.0 ± 1.0
Line Length Y-direction Gauss FWHM	mm	12.0 ± 1.0	12.0 ± 1.0
Uniformity of X-direction $(1 - (I_{max} - I_{min}) / (I_{max} - I_{min}))$	%	95	95
Thermal Data			
Operating Temperature	°C	5 ~ 40	5 ~ 40
Storage Temperature	°C	15 ~ 50	15 ~ 50
Max. Housing Temperature in Operation	°C	60	60
Pyrometer Control Data			
Detection Wavelength	nm	-	-
Temperature Measurement Range	°C	-	-
Sampling Rate (standard)	kHz	-	-
Calibration Standard Type	-	-	-
Power Monitoring Data			
Wavelength Range	nm	-	-
Sampling Rate (standard)	kHz	-	-
Operating Temperature Range	°C	-	-
Measurement Accuracy	%	-	-
Interfaces Data			
Interface Type	-	-	-
Data Cable Type	-	-	-
Socket Type	-	-	-
Communication Protocol of Laser Driver	-	-	-
Software			
Process Software	-	-	-

¹ Part No. = Brand Code - Series - Fiber Connector Type - Beam Type - Beam Size - Focusing Focal Length - Structure Type



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All rights reserved. Product specifications and descriptions are subject to change. Product delivered with limited warranty. Please contact our sales representative for complete details.

Focuslight Technologies Inc.

Email: sales@focuslight.com | Website: <https://www.focuslight.com>