

Industrial Laser System for Material Processing

Activation Series - Laser Process Heads



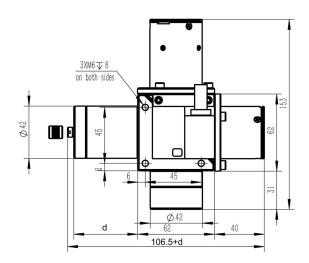
Features

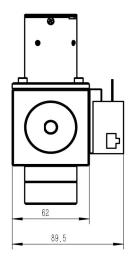
- Optimized beam shaping
- Perfect process tool for welding and soldering
- Safe process data transfer
- · Individual software package

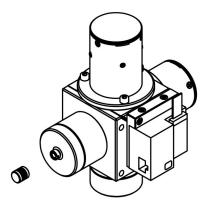
Applications

- 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		ACT000043	ACT000044
Part No. ¹		LM-LPH-SMA-R-A35-200-PM	LM-LPH-LD80-R-35-125-PM
General Data	Unit	Value	
Housing Material	-	Anodized Aluminum	Anodized Aluminum
Dimensions (length × width × depth)	mm	153 × 142 × 89.5	153 × 142 × 89.5
Mounting Threads (on both sides)	-	3 × M5	3 × M5
Fiber Connector Types	-	SMA905	LD80
Length d (shown in the picture)	mm	35.5	35.5
Optical Data			
Max. Laser Power (CW)	W	120	500
Wavelength Range	nm	790 - 990	800 - 1000
Max. Numerical Aperture	-	0.23	0.23
Max. Fiber Core Diameter	μm	600	600
Transmission Rate	-	90% (typ. 95%)	90% (typ. 95%)
Collimation Focal Length	mm	35	35
Focusing Focal Length	mm	200	125
Working Distance	mm	180 ± 10	105 ± 10
Beam Size FWHM with 200µm Fiber	μm	1140	720
Beam Size (90% PE) with 200µm Fiber ²	μm	1200	1100
Beam Size FWHM with 400µm Fiber	μm	2280	1440
Beam Size (90% PE) with 400 µm Fiber ²	μm	2280	1800
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	1100 - 2100	1100 - 2100
Temperature Measurement Range	°C	120 - 400	120 - 400
Sampling Rate (standard)	kHz	1	1
Calibration Standard Type	-	Black Body	Black Body
Power Monitoring Data			
Wavelength Range	nm	800 - 1000	800 - 1000
Sampling Rate (standard)	kHz	1	1
Operating Temperature Range	°C	15 - 40	15 - 40
Measurement Accuracy	%	0.2	0.2
Interfaces Data			
Interface Type	-	Ethernet	Ethernet
Data Cable Type	-	CAT5	CAT5
Socket Type	-	RJ45	RJ45
Communication Protocol of Laser Driver	-	CAN- / Profi - Bus	CAN- / Profi - Bus
Software			
Process Software	-	4PL Plus	4PL Plus

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

² PE means power enclosed.





Product Specifications

Product Code Part No. 1		ACT000045	ACT000046
Part No.		LM-LPH-LD80-R-A35-200-PM	LM-LPH-LD80-R-A35-250-PM
General Data	Unit	Value	
Housing Material	-	Anodized Aluminum	Anodized Aluminum
Dimensions (length × width × depth)	mm	153 × 142 × 89.5	153 × 142 × 89.5
Mounting Threads (on both sides)	-	3 × M5	3 × M5
Fiber Connector Types	_	LD80	LD80
Length d (shown in the picture)	mm	35.5	35.5
Optical Data			
Max. Laser Power (CW)	W	500	500
Wavelength Range	nm	790 - 990	790 - 990
Max. Numerical Aperture	-	0.23	0.23
Max. Fiber Core Diameter	μm	600	600
Transmission Rate	· -	90% (typ. 95%)	90% (typ. 95%)
Collimation Focal Length	mm	35	35
Focusing Focal Length	mm	200	250
Working Distance	mm	180 ± 10	230 ± 10
Beam Size FWHM with 200µm Fiber	μm	1140	1430
Beam Size (90% PE) with 200µm Fiber ²	μm	1200	1450
Beam Size FWHM with 400µm Fiber	μm	2280	2840
Beam Size (90% PE) with 400µm Fiber ²	μm	2280	2700
	μп	2200	2700
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	1100 - 2100	1100 - 2100
Temperature Measurement Range	°C	120 - 400	120 - 400
Sampling Rate (standard)	kHz	1	1
Calibration Standard Type	-	Black Body	Black Body
Power Monitoring Data			
Wavelength Range	nm	800 - 1000	800 - 1000
Sampling Rate (standard)	kHz	1	1
Operating Temperature Range	°C	15 - 40	15 - 40
Measurement Accuracy	%	0.2	0.2
Interfaces Data			
Interface Type	-	Ethernet	Ethernet
Data Cable Type	-	CAT5	CAT5
Socket Type	-	RJ45	RJ45
Communication Protocol of Laser Driver	-	CAN- / Profi - Bus	CAN- / Profi - Bus
Software			
Process Software	-	4PL Plus	4PL Plus

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

² PE means power enclosed.





Product Specifications

Product Code		ACT000030	ACT000047
Part No. 1		LM-LPH-LD80-R-A60-200	LM-LPH-LD80-R-50-200-PM
General Data	Unit	Value	
Housing Material	-	Anodized Aluminum	Anodized Aluminum
Dimensions (length × width × depth)	mm	93× 62 × 125.5	153 × 158 × 89.5
Mounting Threads (on both sides)	-	4 × M5	3 × M5
Fiber Connector Types	-	LD80	LD80
Length d (shown in the picture)	mm	35.5	51.5
Optical Data			
Max. Laser Power (CW)	W	500	500
Wavelength Range	nm	790 - 990	790 - 990
Max. Numerical Aperture	-	0.23	0.23
Max. Fiber Core Diameter	μm	600	600
Transmission Rate	-	90% (typ. 95%)	90% (typ. 95%)
Collimation Focal Length	mm	60	50
Focusing Focal Length	mm	200	200
Working Distance	mm	180 ± 10	180 ± 10
Beam Size FWHM with 200 µm Fiber	μm	720	820
Beam Size (90% PE) with 200µm Fiber ²	μm	800	1200
Beam Size FWHM with 400µm Fiber	μm	1400	1640
Beam Size (90% PE) with 400 µm Fiber ²	μm	1500	2000
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	-	1100 - 2100
Temperature Measurement Range	°C	-	120 - 400
Sampling Rate (standard)	kHz	-	1
Calibration Standard Type	-	-	Black Body
Power Monitoring Data			
Wavelength Range	nm	-	800 - 1000
Sampling Rate (standard)	kHz	-	1
Operating Temperature Range	°C	-	15 - 40
Measurement Accuracy	%	-	0.2
Interfaces Data			
Interface Type	-	-	Ethernet
Data Cable Type	-	-	CAT5
Socket Type	-	-	RJ45
Communication Protocol of Laser Driver	-	-	CAN- / Profi - Bus
Software			
Process Software	-	-	4PL Plus

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

² PE means power enclosed.



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