Processing Head (PHFS0) COMPACT Series Diode Laser System



Features

This processing head with f=100mm (standard focal length)¹ is intended to be used with COMPACT Series. The processing head is connected to the diode laser using a SMA-905 fiber, NA 0.22.

Having a compact housing and the mounting thread M40x1 this processing head can easily be integrated into the laser process.



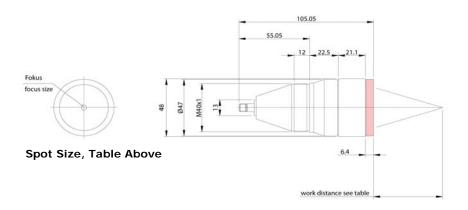
Device Specification

Optical	Units	Standard	Optional				
Connector		SMA-905					
Numerical Aperture	NA			0.22			
Focal Length	mm	100 ¹	300	200	150	60	
Working Distance (Stand Off) ¹	mm	95	290	197.5	145	54	
Output Aperture	mm	40	40	40	40	40	
Weight							
	kg			0.36			

Fiber						
Fiber Core Diameter ¹	μm	100, 200, 400, 600 or 800				
Focal Size ² (Factor to Multiply with Fiber Core Diameter)	μm	1.5 x ^{±50μm}	4.7 x ±50μm	3.1 x ^{±50μm}	2.3 x ^{±50μm}	1.0 x ±50µm

¹Consult DILAS Industrial Laser Systems for other available options.

Package Dimensions³ Length mm 105.05 Diameter Ø 48





U.S. CFR Regulation

The manufacturer and subsequent sale of laser equipment is under the guidelines governed by the U.S. Center for Devices and Radiological Health (CDRH). In accordance to those guidelines, specifically Subchapter J of the Radiation Standards, 21 CFR, the diode laser is registered as a CLASS 4 laser product.

European Commission
In accordance to EN 60825, Safety of Laser Products, the diode laser is registered as a CLASS 4 laser product.

Products specifications are subject to change without notice. For handling precautions, please reference the general handling instruction manual. For additional information, please contact your local sales representative or visit our website at www.dilas-ils.com.

DILAS Industrial Laser Systems a division of DILAS Diodenlaser GmbH Galileo-Galilei-Straße 10

55129 Mainz Germany

Phone: +49 (6131) 9226 400 Fax: +49 (6131) 9226 444 Email: sales@dilas-ils.com www.DILAS-ILS.com

 $^{^2}$ Focal dimensions of diode lasers can deviate in practice depending on measuring method by $\pm 10\%$.

³With additional meniscus lens adapter.

Processing Head (PHFQ0) COMPACT Series Diode Laser System



Features

This processing head with f=100mm (standard focal length)¹ is intended to be used with Compact Series along with an RQB or QBH fiber coupling. The processing head is connected to the diode laser using a fiber connector with RQB/QBH.

Having a compact housing this processing head can easily be integrated into the laser process.



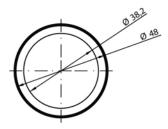
Device Specification

Optical	Units	Standard	Optional				
Connector		RQB or QBH					
Numerical Aperture	NA			0.22			
Focal Length	mm	100 ¹	300	200	150	60	
Working Distance (Stand Off) ¹	mm	95	290	197.5	145	54	
Output Aperture	mm	40	40	40	40	40	
Weight							
	kg			0.66			

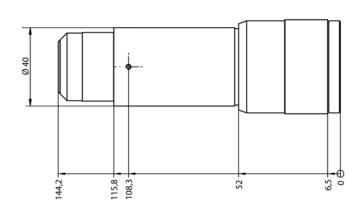
Fiber							
Fiber Core Diameter ¹	μm	200, 300, 400, 600 or 800					
Focal Size ² (Factor to Multiply with Fiber Core Diameter)	μm	1.5 x ^{±50μm}	4.7 x ±50μm	3.1 x ^{±50μm}	2.3 x ±50μm	1.0 x ±50μm	

¹Consult DILAS Industrial Laser Systems for other available options.

Package Dimensions³ Length 144.2 mm Diameter Ø 48



Spot size, see table above





U.S. CFR Regulation

The manufacturer and subsequent sale of laser equipment is under the guidelines governed by the U.S. Center for Devices and Radiological Health (CDRH). In accordance to those guidelines, specifically Subchapter J of the Radiation Standards, 21 CFR, the diode laser is registered as a CLASS 4 laser product.

European Commission
In accordance to EN 60825, Safety of Laser Products, the diode laser is registered as a CLASS 4 laser product.

Products specifications are subject to change without notice. For handling precautions, please reference the general handling instruction manual. For additional information, please contact your local sales representative or visit our website at www.dilas-ils.com.

DILAS Industrial Laser Systems a division of DILAS Diodenlaser GmbH Galileo-Galilei-Straße 10 55129 Mainz Germany

Phone: +49 (6131) 9226 400 Fax: +49 (6131) 9226 444 Email: sales@dilas-ils.com www.DILAS-ILS.com

²Focal dimensions of diode lasers can deviate in practice depending on measuring method by ±10%.

³With additional meniscus lens adapter.