

Processing Head PHF Series

Processing Head for Diode Lasers Compact Series

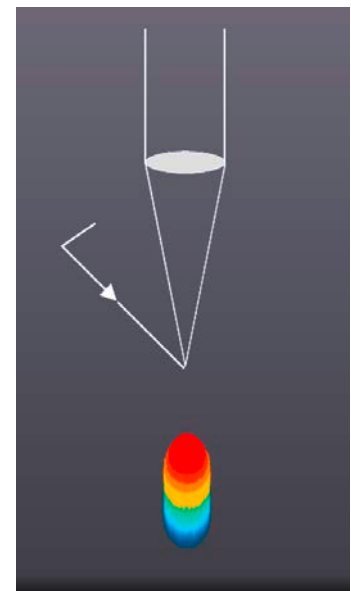
The processing heads with their compact design can easily be integrated into the laser process. An optional integrated single-color pyrometer allows together with a powerful software package and an external controller closed-loop temperature control of the laser process.

Features and Benefits

- Wide variation of spot sizes
- Powerful software package
- Designed for diode lasers up to 1 kW

Applications

- Plastics Welding
- Selective Soldering
- Heat Treatment



Processing Head PHF Series

Processing Head for Diode Lasers Compact Series

SPECIFICATIONS

	Collimator	Processing Head	Processing Head Pyro	Processing Head Pyro/CAM	Processing Head Pyro/CI	Processing Head CAM	Processing Head CI
Fiber Connector	SMA, QBH						
Numerical Aperture	≤0.22						
Collimation Focal Length (mm)	37, 44, 58, 64						
Focal length F-Theta (mm)	60, 100, 150, 200, 300						
Wavelength (nm)	808 to 980						
Maximum Input Power (W)	500						
Maximum Input Power with Water Cooling (W)	1200	-	-	-	-	-	-
COOLING REQUIREMENTS							
Flow Rate (l/min.)	1.5 to 2	-	-	-	-	-	-
Cooling Temperature (°C)	20 to 35	-	-	-	-	-	-
OPTION PYRO							
Pyrometer Type	-	-	Single color			-	-
Typical Temperature Range (°C)	-	-	190 to 700			-	-
Sampling rate (kHz)	-	-	10			-	-
OPTION CAM							
Camera Type	-	-	-	CCD	-	CCD	-
Resolution	-	-	-	VGA	-	VGA	-
Output	-	-	-	BNC	-	BNC	-
OPTION CI (CAMERA INTERFACE)							
Open Aperture (mm)	-	-	-	-	30	-	30
Camera Mount	-	-	-	-	4 x M3 x 5	-	4 x M3 x 5
OPTION CI (CAMERA INTERFACE)							
Dimension ¹ (L x W x H)	147 x 66 x 66 mm (5.79 x 2.60 x 2.60 in.)	~217 x 70 x 139 mm (8.54 x 2.76 x 5.47 in.)					
Weight	1 to 1.5 kg (2.20 to 3.31 lbs.)	1.2 to 1.7 kg (2.65 to 3.75 lbs.)	2 to 2.5 kg (4.41 to 5.51 lbs.)				
ENVIRONMENTAL CONDITIONS							
Ambient Temperature in Operation (°C)	15 to 35 °C (59 to 95 °F)						
Storage Temperature (°C)	5 to 50 °C (41 to 122 °F)						

¹ Step files available on request.



Coherent, Inc.,
5100 Patrick Henry Drive Santa Clara, CA 95054
p. (800) 527-3786 | (408) 764-4983
f. (408) 764-4646

tech.sales@coherent.com www.coherent.com

Coherent follows a policy of continuous product improvement. Specifications are subject to change without notice. Coherent's scientific and industrial lasers are certified to comply with the Federal Regulations (21 CFR Subchapter J) as administered by the Center for Devices and Radiological Health on all systems ordered for shipment after August 2, 1976.

MC-006-22-0M0222 Copyright ©2022 Coherent, Inc.

