

Processing Head (PHFx0-E1-01) COMPACT Series Diode Laser System

Features

This processing head with $f=177\text{mm}$ (standard focal length)¹ is intended to be used with COMPACT Series, along with a SMA or QBH fiber coupling. The processing head is connected to the diode laser using a SMA or QBH fiber, NA 0.22.

Having a compact housing and mounting plate, this processing head can easily be integrated into the laser process creating a line focus with $35 \times 2\text{mm}^2$ or $35 \times 3\text{mm}^2$ dimensions¹.



Device Specification

Optical

Connector		SMA-905 or QBH
Numerical Aperture	NA	0.22
Focal Length	mm	177.0
Working Distance (Stand Off) ¹	mm	160.7
Output Aperture	mm	50.0

Weight

With SMA-905 Fiber Connector	kg	0.9
With QBH Fiber Connector	kg	1.2

Fiber

Fiber Core Diameter ¹	μm	100, 200, 300, 400, 600 or 800
Focal Size of Long Spot Dimension ²	mm	35
Focal Size of Short Spot Dimension ²	μm	Fiber Diameter $\times 5 \pm 50\mu\text{m}$

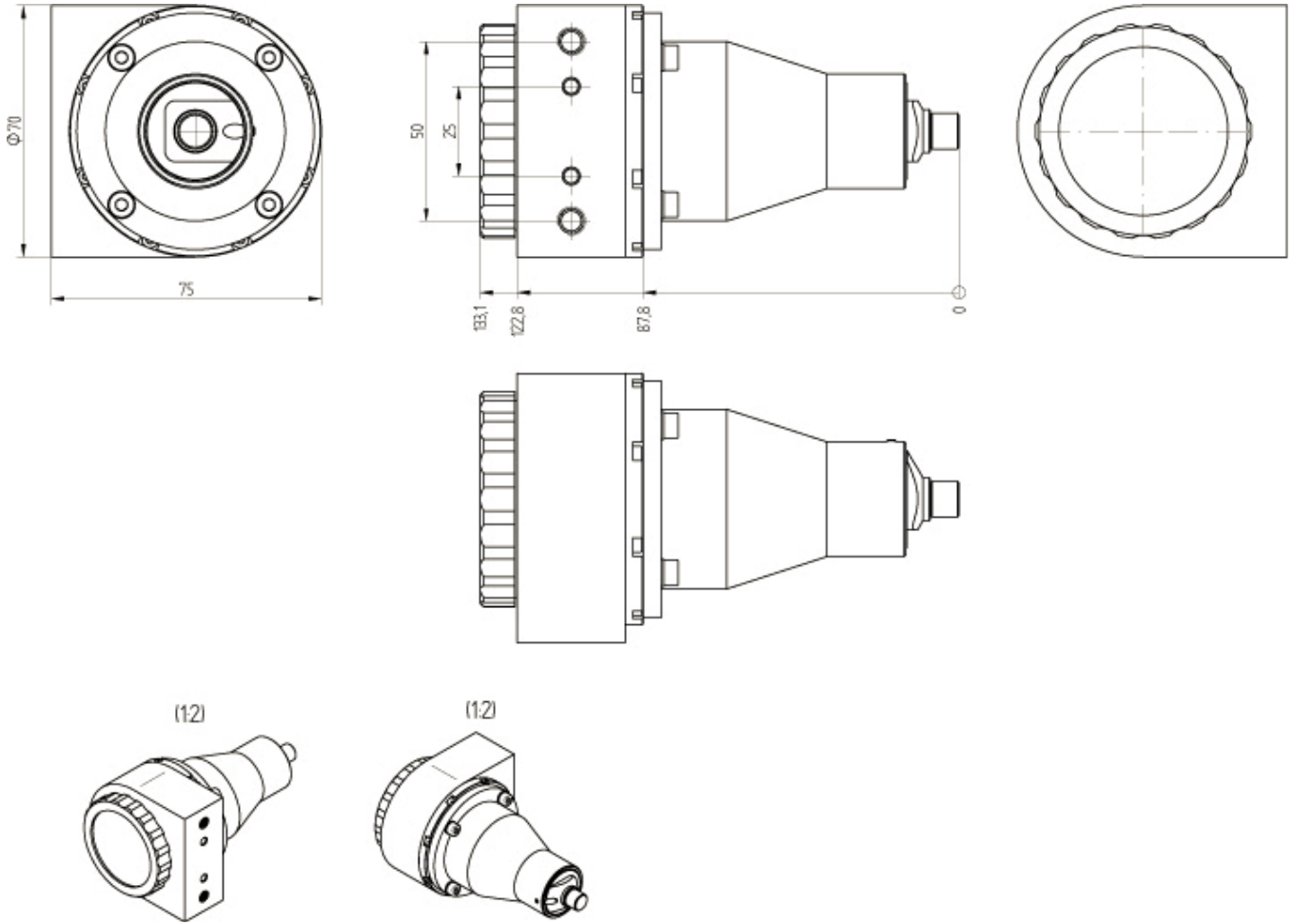
Homogeneity

Homogeneity Long Spot Dimension		Top Hat
Homogeneity Short Spot Dimension or Intensity Distribution Short Spot Dimension		Gaussian

¹Consult DILAS Industrial Laser Systems for other available options.

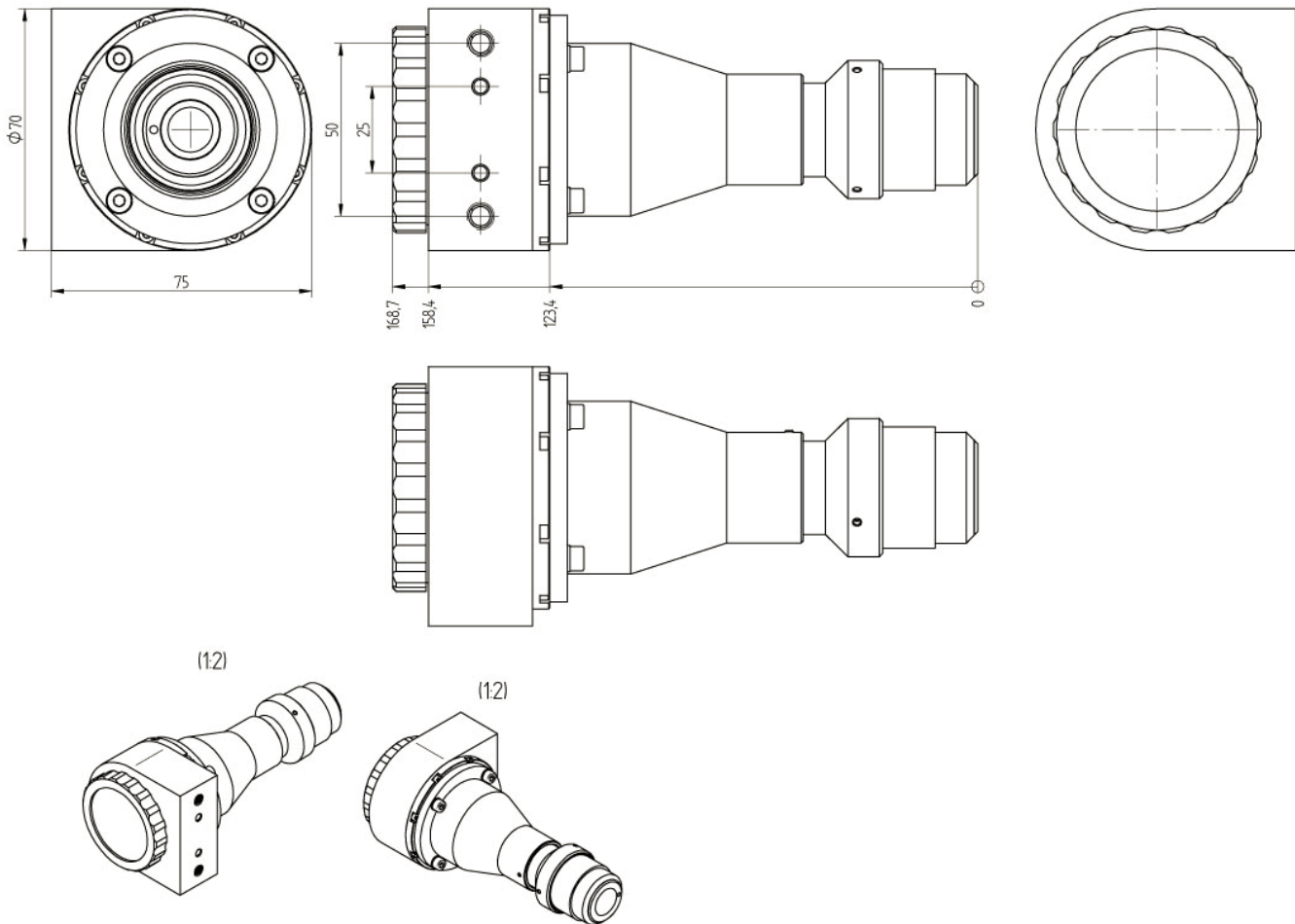
²Focal dimensions of diode lasers can deviate in practice depending on measuring method by $\pm 10\%$.

Package Dimension (SMA-905)¹



Processing Head (PHFx0-E1-O1) COMPACT Series Diode Laser System

Package Dimension (QBH)¹



VISIBLE AND INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT
EN 60825-1

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
Gallileo-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