

# Galvo Scanner PHF Series

Processing Head for Diode Lasers  
Compact Series

The galvo scanner is used for quasi-simultaneous welding and fast positioning of the laser focus in the working field without additional mechanical axes.

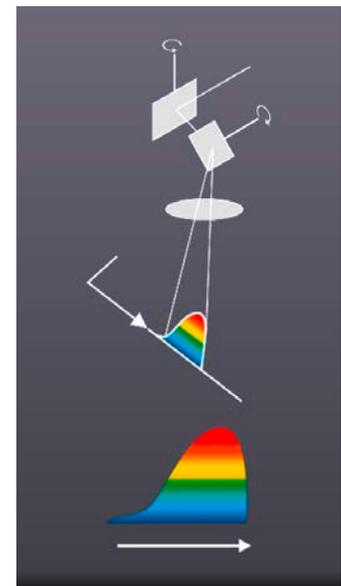
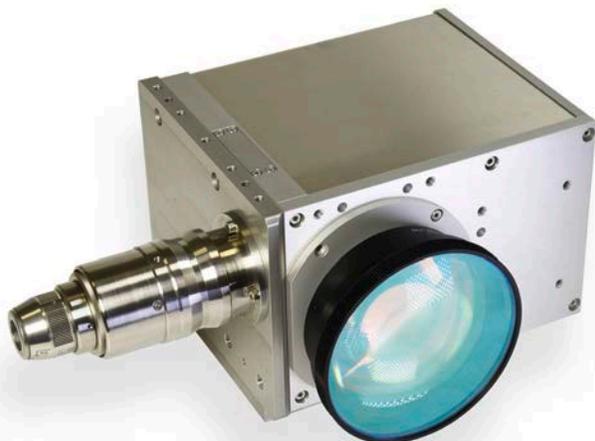
The unit is equipped with a fiber connector, collimating unit and F-Theta lens. It is controlled by a Galvo PC with Coherent's powerful VLM software.

## Features and Benefits

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

## Applications

- Plastics Welding
- Selective Soldering
- Heat Treatment



## SPECIFICATIONS

	Galvo Scanner PHF	
Fiber Connector	SMA, QBH	
Numerical Aperture	≤0.22	
Entrance Aperture (mm)	20	30
Collimation Focal Length (mm)	37, 44	37, 44, 58, 64
Focal length F-Theta (mm)	80, 163, 300, 330, 400	254, 420, 635
Wavelength (nm)	980	
Maximum Input Power with Air Cooling (W)	300	700
Wavelength (nm)	600	1400
<b>COOLING REQUIREMENTS</b>		
Air Quality	ISO 8573.1:2001 Class 1.6.7	
Cooling Temperature (°C)	20 to 40 (non-condensing)	
<b>DIMENSIONS &amp; WEIGHTS</b>		
Dimension <sup>1</sup> (L x W x H) (depending on F-Theta)	350 x 162 x (214 .. 250) mm [13.78 x 6.38 x (8.43 .. 9.84) in.]	
Weight (depending on F-Theta)	6.5 .. 8 kg (14.33 .. 17.64 lbs.)	
<b>ENVIRONMENTAL CONDITIONS</b>		
Ambient Temperature in Operation (°C)	15 to 35 °C (59 to 95 °F)	
Storage Temperature (°C)	5 to 50 °C (41 to 122 °F)	

<sup>1</sup> Step files available on request.



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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.

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