FiberWELD® DHμ

FiberWELD® DHμ is a compact, direct energy deposition (DED) head for medium power, fiber-based laser manufacturing applications. The head features transmissive and reflective optics to maximize space while minimizing focus shift – even in high duty cycle processes. FiberWELD® DHμ's advanced optical design permits wire to be fed directly into the beam path – right into the center of the melt pool. This allows the laser process to have total directional independence. Also, FiberWELD® DHμ's easily accessible, protective cover glasses extend the life of internal optics.

FiberWELD® DHμ's slim, compact design is ideal for additive manufacturing applications inside smaller machines and cells.

Features

- For most fiber-delivered laser systems (Diode, Fiber, Disc) up to 6 kW
- All optics are housed in sealed compartments to prevent contamination from process smoke and debris
- Temperature monitored optics
- High-pressure cross-flow air knifes
- Omnidirectional processing
- Hot wire compliant
- Quick and easy access to the cover slide
- Direct-cooled wire feed
- Direct-cooled, process heat shield protection

Specifications

Power Rating	up to 6 kW
Clear Aperture	48 mm
Collimator Focal Lengths	100 mm, 150 mm
Focusing Optic	400 mm
Wavelengths (Diode, Fiber, Disc)	900 - 1100 μm
Fiber Connections	HLC-16, QD (LLK-D, LCA), QBH (HLC-8), LLK-B (Q5)
Wire Sizes	0.8 - 1.6 mm
Weight	~10 kg*

*Base configuration. Weight will vary based on options added.

Specifications subject to change without notice.

WELDING APPLICATIONS

25325 Regency Drive • Novi, Michigan 48375 • Phone: (248) 474-9480 • Web: www.lasermech.com • E-Mail: info@lasermech.com

© 2023 Laser Mechanisms, Inc. Laser Mech® and FiberWELD® are registered trademarks of Laser Mechanisms, Inc.

June 2023