FiberWELD® DHc

Laser Mechanisms' FiberWELD® DHc is a compact material deposition head that is engineered for high duty cycle production applications with low to high power, fiber-delivered lasers. The head's advanced optical design permits wire to be fed directly into the beam path – coaxially to the beam and right into the center of the melt pool. This allows the additive or cladding process to have total directional independence. FiberWELD® DHc also delivers extended beam-on-time for 24/7 operation.

Laser Mechanisms' compact FiberWELD® DHc is ideal for heavy deposition cladding and additive applications.

Features

- For all fiber-delivered laser systems (Diode, Fiber, Disc) up to 9 kW
- Hot wire compliant
- Direct-cooled wire feed
- All optics are housed in sealed compartments to prevent contamination from process smoke and debris
- Temperature monitored optics
- Cover glass contamination monitoring/warning
- Cross-flow air knife
- Omnidirectional processing
- Direct-cooled, back-reflection protection
- Quick and easy access to the cover slide (no tools required)
- Direct water-cooled nozzle
- Optional camera-based vision and process monitoring

Specifications

Power Rating	9 kW
Clear Aperture	44 mm
Collimator Focal Lengths	100 mm, 125 mm, 150 mm, 175 mm, 200 mm
Focal Length	400 mm
Wavelengths (Diode, Fiber, Disc)	900 - 1100 µm
Fiber Connections	QD (LLK-D, LCA), QBH (HLC-8), HLC-16
Wire Sizes	0.6 - 1.6 mm
Weight	~18 kg*

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

Specifications subject to change without notice.

WELDING APPLICATIONS

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August 2021