

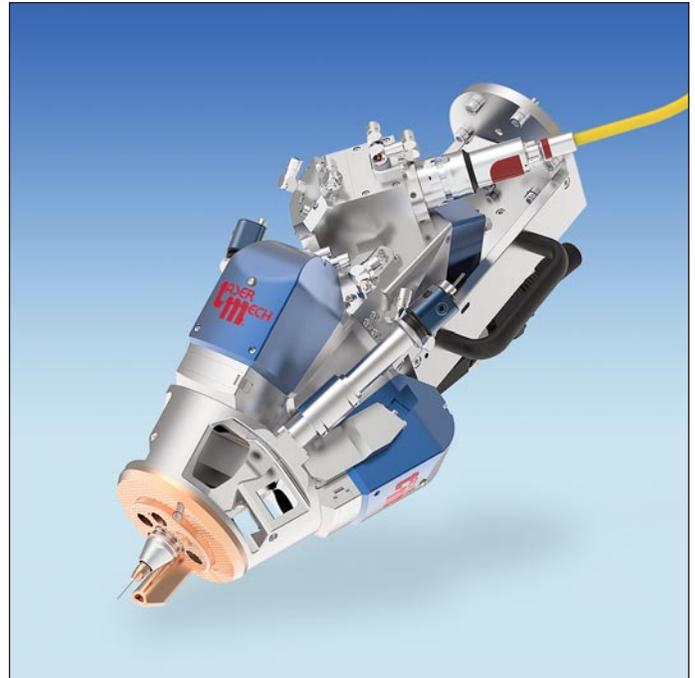


FiberWELD® DH

FiberWELD® DH is a robust head with direct-cooled reflective optics that minimize focus shift. It's engineered for high duty cycle production applications with medium to high power, fiber-delivered lasers. The head'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 or cladding process to have total directional independence. Also, FiberWELD® DH's easily accessible, protective cover glass extends the life of internal optics.

Features

- Robust, direct-cooled reflective optics minimize focus shift
- For all fiber-delivered laser systems (Diode, Fiber, Disc) up to 30 kW
- All optics are housed in sealed compartments to prevent contamination from process smoke and debris
- Temperature monitored optics
- Cover glass contamination monitoring/warning
- Quick and easy access to the cover slide (no tools required)
- Cross-flow air knife
- Omnidirectional processing



Laser Mechanisms' rugged FiberWELD® DH is ideal for heavy deposition cladding and additive applications.

- Hot wire compliant
- Direct-cooled wire feed
- Direct-cooled, back-reflection protection
- Optional camera-based vision and process monitoring

Specifications

Power Rating	up to 30 kW
Clear Aperture	52 mm
Collimator Focal Lengths	100 mm, 150 mm
Focusing Mirrors	300 mm
Wavelengths (Diode, Fiber, Disc)	900 - 1100 µm
Fiber Connections	HLC-16, QD (LLK-D, LCA), QBH (HLC-8), LLK-B (Q5)
Wire Sizes	0.6 - 1.6 mm
Weight	~35 kg*

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

Specifications subject to change without notice.

WELDING APPLICATIONS