

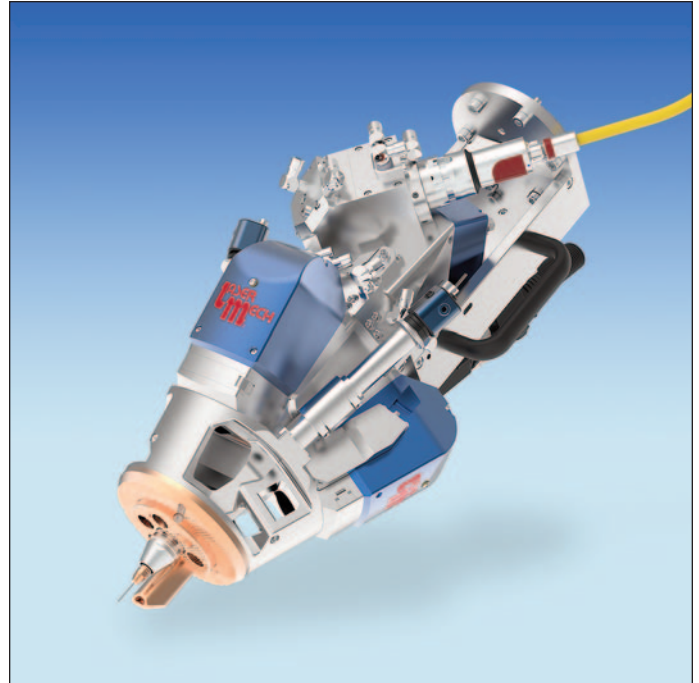


# FiberWELD® DH

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