



# FiberWELD® HR

Engineered for high duty cycle production welding applications with medium to high-power, fiber-delivered lasers, FiberWELD® HR is a robust head with direct-cooled reflective optics that minimize focus shift. FiberWELD® HR's easily accessible, protective cover glass helps extend the life of internal optics. Per the end user's processing requirements, FiberWELD® HR can be configured with straight or right-angle fiber input, camera viewing, wire feed, air knife, weld monitoring and special focusing optics (twin spot and rectangular).

## Features

- Robust, direct-cooled reflective optics minimize focus shift
- For all fiber-delivered laser systems up to 30 kW
- Available with either a straight laser beam path or left or right-hand, 90° fiber connection
- Temperature monitored optics
- Cover glass contamination monitoring/warning
- Quick and easy access to the cover slide (no tools required)
- Cross-flow air knife with 360° adjustment
- All optics are housed in environmentally-sealed compartments to prevent contamination from process smoke and debris



*Laser Mechanisms' rugged FiberWELD® HR features direct-cooled reflective optics for high-power production welding applications.*

- Compatible with all weld-monitoring systems – including the latest technologies
- Available HLAW mounting bracket
- Fiber collimator from 100 mm - 200 mm
- Focusing optics from 200 mm - 1000 mm

## Specifications

Power Rating	up to 30 kW
Clear Aperture	48 mm
Collimator Focal Lengths	100 mm, 120 mm, 150 mm, 200 mm
Focusing Mirrors	200 mm to 1000 mm
Optional Custom Optics	Twin Spot, Rectangular
Fiber Connections	QD (LLK-D, LCA), QBH (HLC-8), LLK-B (Q5)
Weight	~6 kg*

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

Specifications subject to change without notice.

## WELDING APPLICATIONS

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