FiberWELD®

Engineered for harsh production welding applications with a fiber-coupled laser, FiberWELD® is a robust head with all internal wiring and simplified plumbing of coolant and gases. FiberWELD®'s easily accessible, protective cover glass helps extend the life of internal optics. Per the end user's processing requirements, FiberWELD® can be configured with straight or right-angle fiber input, camera viewing, wire feed, air knife, coaxial nozzle, weld monitoring and special focusing optics (twin spot and rectangular).

Laser Mechanisms' rugged FiberWELD® is engineered to withstand the harshest production welding environments.

Features

- For all leading fiber-delivered laser systems up to 12 kW
- Fiber collimator from 100 mm - 190 mm
- Focusing lenses from 200 mm - 1000 mm
- Available with either a straight-through laser beam path (FiberWELD® ST) or left or right-hand, 90° fiber connection (FiberWELD® RA)
- 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
- Stainless steel cooling passages
- Compatible with all weld-monitoring systems – including the latest technologies

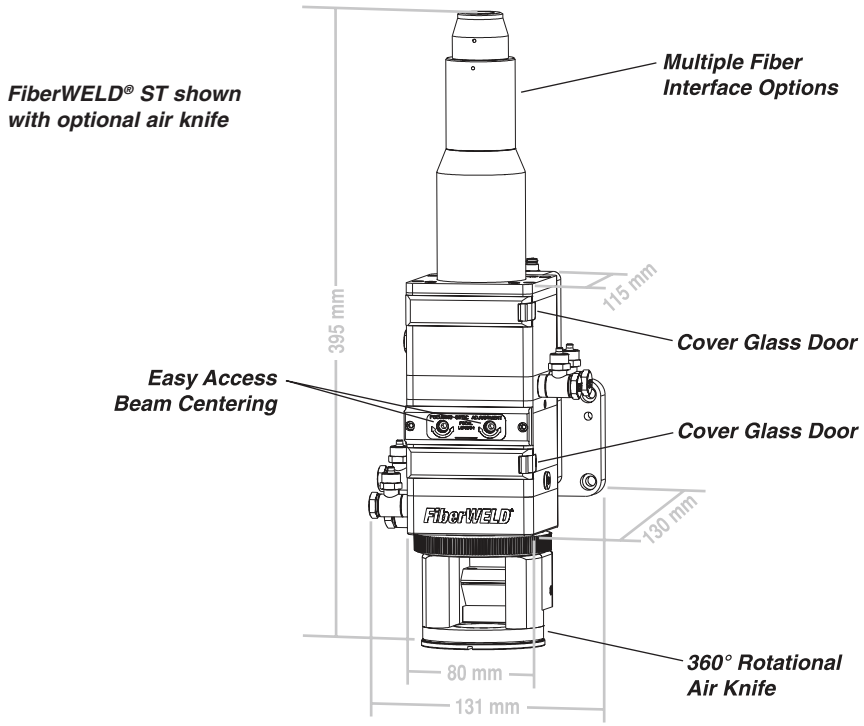
Specifications

Power Rating	12 kW
Clear Aperture	48 mm
Collimator Focal Lengths	100 mm, 120 mm, 150 mm, 190 mm
Focusing Lenses	200 mm to 1000 mm
Optional Custom Optics	Twin Spot, Rectagular
Fiber Connections	QD (LLK-D, LCA), QBH (HLC-8), LLK-B (Q5)
Weight	~4 kg*

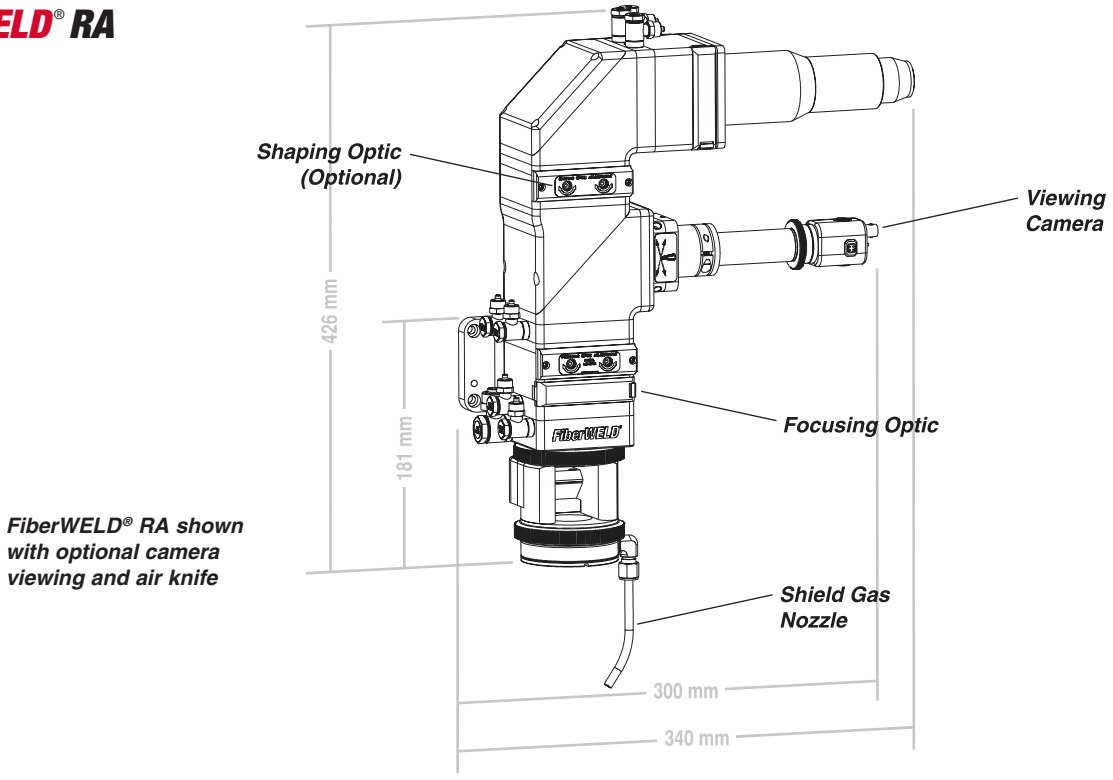
*Base configuration. Weight will vary based on options added.

Specifications subject to change without notice.

FiberWELD® ST



FiberWELD® RA



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