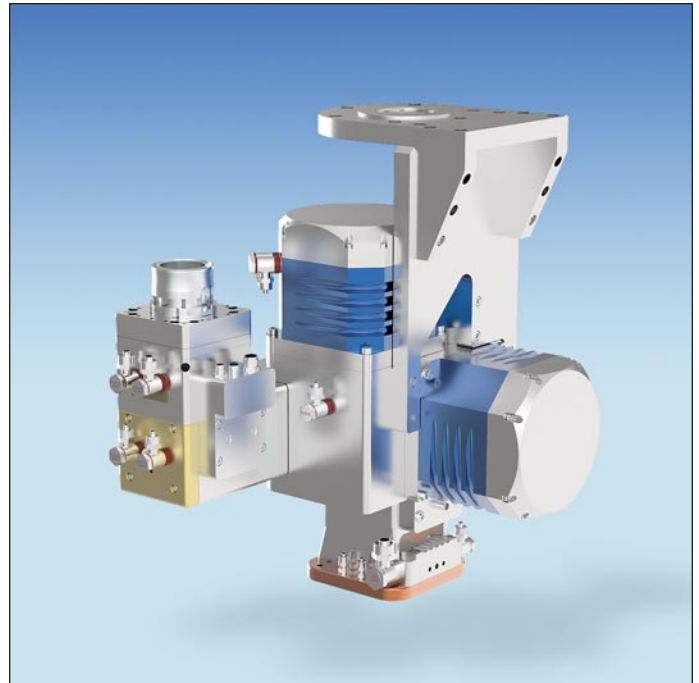




FiberSCAN™ HR

Laser Mechanisms' FiberSCAN™ HR is a scanning head for high-power laser sources including Fiber, Disk, CO₂ and Diode lasers. Available for collimated beams up to 48 mm diameter, FiberSCAN™ HR can deliver 20+ kW of laser power to any point within the system's field of view. FiberSCAN™ HR employs direct water-cooled copper optics for all wavelengths throughout its optical path to provide reliable, ultra high-power capability with minimum thermal focus shift. The rugged design is optimized for high power and long processing times required in applications such as continuous welding on roll forming systems, additive manufacturing of sizeable structures and large area or volume cladding. In addition, high-speed operation up to 100 Hz in a



Laser Mechanisms' FiberSCAN™ HR provides a solution for very high power scanning, stirring, wobbling or spot welding.

smaller field enables wide gap seam welding and laser stir "wobble" welding of materials that are difficult to process.

Specifications

Laser Power	20+ kW
Scan Motion	Programmable frequency & waveform with feedback
Scan Frequency (depends on feature size)	up to 100 Hz for 1 mm circle
Shapes	Standard shape library with custom shape capability
Field of View (depends on focal length)	40 mm x 40 mm (1.6" x 1.6") for f=350 mm (14")
Seam Tracking	Optional
Interfacing	Start/Stop; scan program; orientation of weld line
Electrical Supply	90-246 VAC, 1-Phase, 47-63 Hz, 14A @ 115 VAC Typical, 7A @ 230 VAC Typical
Dimensions	300 x 350 x 320 mm ³ (12" x 14" x 13")
Weight	~25 kg (~55 lbs.)

Specifications subject to change without notice.

SCANNING SOLUTIONS