FiberSCAN™

Laser Mechanisms' FiberSCAN™ option provides both high speed and accuracy in a compact, easy-to-control package.

Available for up to 20 mm diameter beams, FiberSCAN™ can deliver up to 1 kW of laser power to any point within the system's field of view. An available option for all wavelengths from 258 nm to 10.6 µm, these galvo-based solutions can be used with standard F-Theta or telecentric flat-field lenses for large processing areas. For smaller fields, standard focus lenses can be used as an economical alternative. In addition, drilling nozzle systems can also be employed to allow coaxial gas assist to the high speed galvo capability.

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The system can be controlled with standard XY2-100 protocols or a Laser Mech® controller for easy interface to a PLC or computer for pre-programmed shapes. Laser Mechanisms also provides all of the necessary beam delivery to condition and deliver the laser beam to the galvo unit.

Specifications

Sweep Angle (Optical)	800 mrad (45.8°)	640 mrad (36.7°)	180 mrad (10.3°)
Resolution	65536 steps	65536 steps	65536 steps
Drift Measured Over 8 Hours	<24 µrad	<20 µrad	<6 µrad
Angular Repeatability	<12 µrad	<10 µrad	<3 µrad
Positional Accuracy (160 mm FL)	3.84 µm	3.20 µm	0.96 µm
Maximum Translation (160 mm FL)	128 mm	102.4 mm	28.8 mm
Maximum Speed (160 mm FL)	12,800 mm/sec	10,240 mm/sec	2,880 mm/sec
Maximum Power With Air Cooling	1000 W	1000W	1000W
Maximum Clear Aperture	20 mm	20 mm	20 mm
Weight (as shown)	~4.5 kg	~4.5 kg	~4.5 kg

Specifications subject to change without notice.

SCANNING SOLUTIONS

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