

UNITEK MIYACHI LASERS EXTERNAL BEAM SPLITTER

- Serves up to 6 workstations
- Highest laser uptime
- Excellent branch balance
- Significant cost savings



Three SX-200 workstations with one LW15A laser.

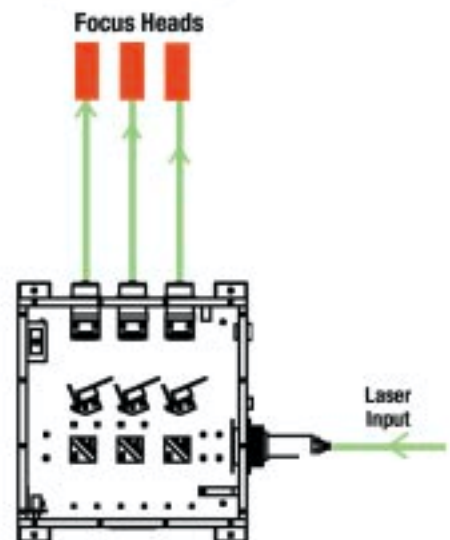
Designed to meet the needs for multiple energy and time share requirements in medical, photonic, and other low duty cycle laser welding applications, the FS Series External Beam Splitter allows time sharing of ONE laser power supply among up to SIX independent workstations.

Exceptional branch balance across multiple outputs assures balanced energy density and proper weld penetration. Used in combination with our new A Series pulsed Nd:YAG lasers configured with Time Share features, it is possible to support up to six different workstations with only one of our new A Series lasers.

The FS Series External Beam Splitter permits sequential operation of multiple workstations without the need for a separate laser power supply for each operator. High speed (<100ms) Time Share Shutters inside the A Series laser direct the laser beam to an FS beam splitter associated with each workstation which then separates the laser energy into balanced beams for simultaneous welding. A single laser power supply may be programmed with different weld schedules and different beam delivery optics for a full range of laser welding requirements for maximum productivity and lowest cost of ownership.

The FS Series External Beam Splitter is CDRH compliant and includes safety interlocks and direct I/O interfacing of individual process shutters with open/close confirmation signals on each output to the system controller.

Figure 1 – Energy Measurement

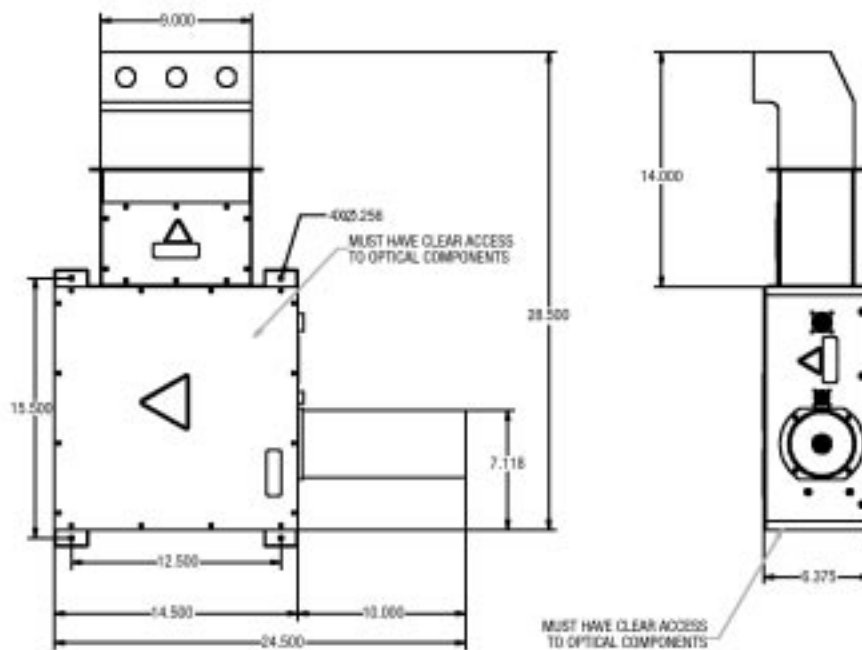


SPECIFICATIONS

Model	FS1X2, FS1X3				FS1X2R, FS1X3R	
Input Fiber	400 SI	400 GI	300 SI	300 GI	400 SI	400 GI
Output Fiber	400 SI	400 GI	300 SI	300 GI	300 SI	300 GI
Number of Outputs	2 or 3					
Collimator Focal Length	55				75	
Aperture (mm)	16					
Beam Balance	3%					

PHYSICAL CHARACTERISTICS

Service Requirements	24 +4/-2 VDC
Supply Rating	2.5 Amps
Footprint Inches (mm)	24.5 x 28.5 x 6.375 (622.3 x 723.9 x 161.9)



Your Local Representative



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