

0.2 NA FIBER FOCUSING SYSTEM

08-FFS-1

The Model 08-FFS-1 0.2 NA Input Fiber Focusing System is a complete opto-mechanical assembly that provides a stable “industrial strength” means of coupling the output of high power, high divergence lasers into quartz fibers. This system is capable of handling several kilowatts of CW or average power.

COMPONANT DISCRIPTION

Aplanatic Focusing Optics : A 3 element, air-spaced lens, corrected for both spherical aberration and coma, provides a beam waist that is accurately predicted by the product of the focal length (mm) and beam divergence (mrad). A precise focus knob translates the lens without rotating it, thereby preventing internal variation of the focal point.

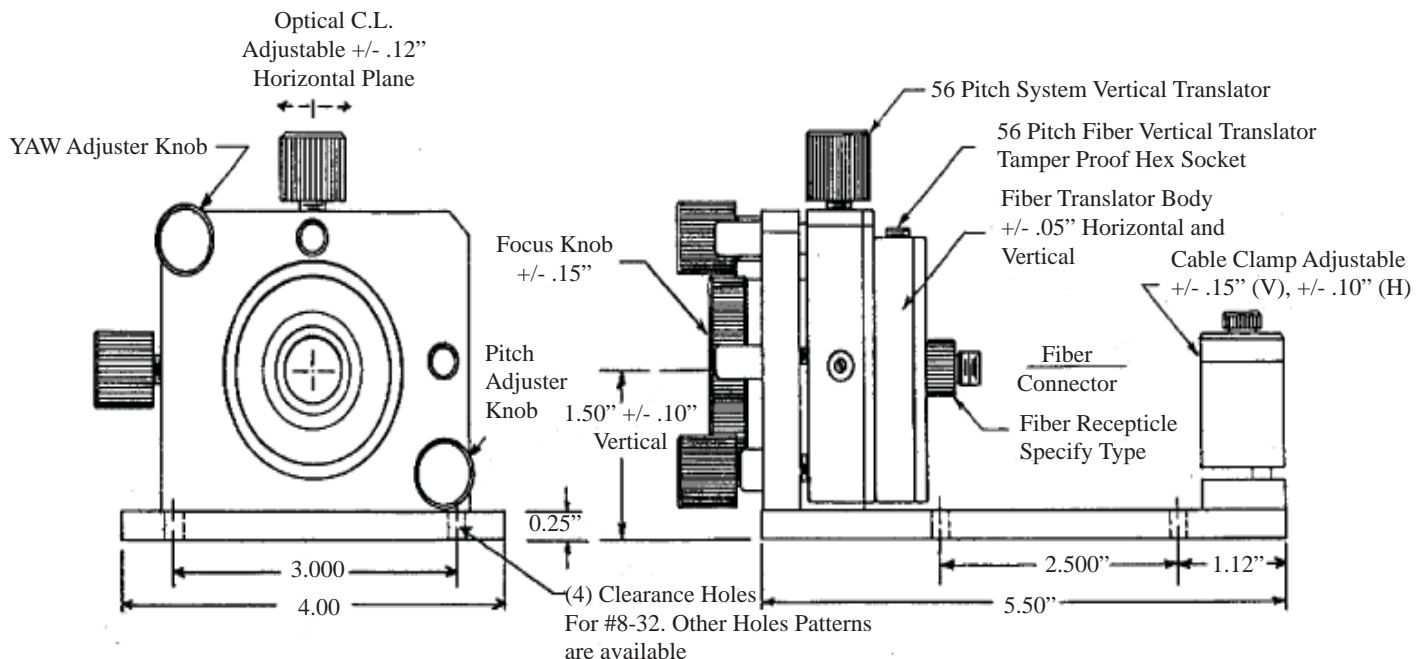
A rugged and stable **Gimbal/Translation Stage**, available with knurled thumb knobs or tamper proof screws provides correct alignment of the focusing optics with respect to the incident beam.

The fiber receptical is held in an **Independant Two Axis Translator**. Tamper Proof 56 pitch drive screws align the fiber face with respect to the lens axis.

A **Screw in Screw out Fiber Recepticle** is available for SMA, Mitsubishi, D80HPS or other connector types.

A **Cable Clamp** with X/Y Adustment prevents movement of the fiber cable. The “V” type clamp accomodates jacket diameters from 1/4” to 3/4”.

MAX Input Beam Diameter	15mm
Fiber N.A.	0.22
Lens Focal Length	37.5mm
Focus (in um) for a 6.3mm dia input beam with 20 mrad divergence after beam expander	375um



JT Ingram Technologies

jim@jtingram.com

www.jtingram.com

PH 561 573 6533