

Fiber Coupling Option: TEC-100 Littrow Series



Description:

Sacher Lasertechnik offers a fiber coupling option for the TEC-100 Littrow Series. The fiber coupling is highly stable and offers an excellent coupling efficiency of 50% or above.

Type of Connector:

Standard fiber couplers are angled APC FC/PC connectors. The APC design avoids optical feedback from the fiber coupler. For most applications, an optical isolator can be avoided.

Type of Fiber:

We perform fiber coupling to single mode fiber and polarization maintaining single mode for most of our TEC-100 Littrow Series laser systems. Please contact us on availability for your desired wavelength.

Anamorphic Beam Correction Optics:

Diode lasers show an elliptic beam due to the astigmatism of diode lasers. We perform beam circularization via Cylinder Lenses which results in a perfect reconstruction of the beam quality. The approach with a pair of anamorphic prisms results in a major deformation of the wavefronts of the laser beam. Please note that InP grown diode lasers (1.3 μm ... 1.7 μm) have an almost round beam profile which do not need any beam correction optics.

Coupling Efficiency:

The coupling efficiency depends on the type of fiber. Coupling efficiencies of more than 50% are typical for Single Mode fibers. Coupling efficiencies of more than 90% are typical for Multi Mode fibers. Please contact us for details.

Document: <http://data.sacher-laser.com/techdocs/LtwFC.pdf>
Note: Specification are subject to change without further notice.

Sacher Lasertechnik GmbH
Hannah Arendt Str. 3-7
D-35037 Marburg, Germany

Tel.: +49 6421 305290
Fax: +49 6421 305299
Email: contact@sacher.de

Sacher Lasertechnik, LLC
5765 Equador Way
Buena Park, CA 90620, USA

Tel.: 1-714-670-7605
Fax: 1-714-670-7662
Email: sales@sacher-laser.com

