

Dear Valued Customer,

Heading towards the end of the year. We feel an increasing demand on our optics for high power applications. So in this issue, we will showcase our latest developed product that will support your needs for fiber and other high power applications.

Fiber Collimator



Fiber Collimator is very suitable used in fiber laser cutting, welding applications as a collimating lens in its optical system. The special feature of this product is it can tolerate with thousand watt of high power laser.

Features:

- Specially designed water-cooling can prevent lens from thermal cracking due to uneven thermal energy distribution, hence this extends the life span of lenses. Equipped with water inlet and outlet tubes which are readily to be connected water pipes.
- Maximum 3000W tolerable power which is suitable for high power laser machining application.
- Two type of mount connecting interface for easy installation.
- Wide range of focal length
- Specially designed for fiber optics laser for easy operation.

Fiber XY Laser Cutting Head



The Fiber XY laser cutting head is used to focus a collimated beam from a fiber laser to perform cutting and drilling operations. It is equipped with a height sensor unit (HSU) allowing for the working distance to be automatically maintained.

Features:

- Multiple clamp end capable of accepting IPG, SPI and Raycus fiber laser output tip
- Focal length of 120mm
- Adjustment screw for the distance between the focal lens and the tip
- Sensor nozzle and gas jet port
- Linear guider with servo motor
- Height sensor unit (HSU)

Upcoming Exhibition

16-18 Oct. 2-13—**ILOPE 2013**
China Internal Exhibition Center
Beijing, China

12-14 Nov. 2013—
**Laser World of Photonics
India 2013**
Bombay Exhibition Centre
Mumbai, India
Booth No: A15

4-6 Feb. 2014—
Photonics West 2014
The Moscone Center, San Francisco,
California, USA
Booth No: 2505

6-8 May 2014—
**Defense, Security and Sensing
2014**
Baltimore Convention Center
Baltimore, Maryland, USA
Booth No: 1551

For your specific requirements, you may send your request to info@wavelength-tech.com

Wavelength Opto-Electronic

Fiber Smart Laser Cutting Head



Applications:

The FIBER Smart Laser Cutting Head can be used in robot arm fiber laser cutting machine to focalize the collimated beam from fiber to do the cutting work or drill work.

Features:

- Multiple clamp end suitable for IPG, SPI and Raycus fiber laser output tip.
- Focal lens with focal length of 100mm.
- Distance between focal lens and tip could be adjusted by screw.
- Sensor nozzle and gas jet port.
- Linear guider with servo motor
- HSU

Specifications

Maximum Power	200W
Input Diameter	<40mm
Cooling Method	Water cooled
Maximum Input Beam Diameter	20mm
Focal Lens Size	Dia25mm, ET3mm
Protective Window	25mm x 3mm
Power Supply of Height Controller	150V-220V (to be specify)

Fiber Laser Welding Head



Applications:

The fiber laser welding head can be used in a laser welding machine to focus a collimated beam from a fiber laser to perform welding operations.

Features:

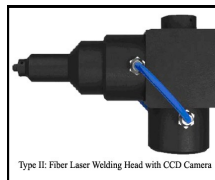
- Multiple connector types: D80, LLK-B, SMA905
- Focal length of 100mm or at your choice
- Water cooling for collimator and focal lens

High Power YAG Focusing Lens



High power focusing lens for fiber laser is made by Fused Silica, with low absorption coating. It is applied for over 1000W YAG Laser.

Coaxial Laser Welding Head

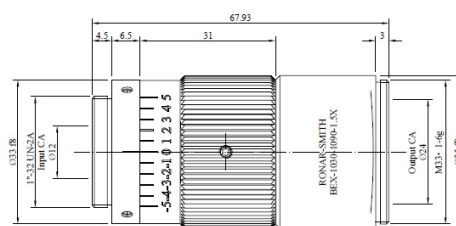


Equipped with CCD and CCTV lens, Coaxial Welding Head provides customer a real time monitor and inspection of the welding effects.

Specifications

Maximum Power	1000W
Fiber Connector	D80, LLK-B, SMA905
Wavelength	1064nm
Cooling Method	Water cooled
Maximum Input Beam NA	0.22
Focal Lens Size	40mmDia x 3mmET

High Power Beam Expander



This series of beam expander is developed for fiber laser 1030-1090nm, all expanders are made by Fused Silica for high power application. With identified outline in dimension and connecting thread C-mount.

High Power CO₂ Optics



We have stocks for ZnSe focusing lens for high power application. For urgent needs kindly contact info@wavelength-tech.com.

Following PN# are in-stock for faster delivery!!!

- LZM-1.5-5-ET7.4
- LZM-1.5-7.5-ET7.4
- LZM-1.5-5-ET9
- LZM-1.5-7.5-ET9
- LZ-2-5-ET7.9
- LZ-2-7.5-ET7.9
- LZ-2-10-ET7.9