

Dear Valued Customer,

Heading towards the end of the 2nd quarter of the year and there's an increasing demand on our optics. So we are pleased to face the 3rd quarter by providing better service and high quality products in order to meet your growing demand. Since fiber is earning a place in the market, our R&D division has something new to offer that will support high power applications.

Fiber Collimator



Features:

- Specially designed water-cooling system can prevent lens form thermal cracking due to uneven thermal energy distribution.
- Maximum 3000w tolerable power which is suitable for high power laser machining application.
- Movable options on focal length specification.
- Specially designed for fiber optics laser for easy operation.

Applications:

This product 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.

High Power Fiber Laser Optics

High Power Focusing lens for fiber laser is made by fused silica, with low absorption coating at 1064nm, it is applied for over 1000w 1064nm laser.



| Part NO: | FL | WD | Diameter | Type |
|-------------|-------|---------|----------|---------|
| HFL80-42 | 80mm | 68.6mm | 42mm | Singlet |
| HFL100-42 | 100mm | 89.5mm | 42mm | Singlet |
| HFL120-42 | 120mm | 109.5mm | 42mm | Singlet |
| HFL120-42-2 | 120mm | 109.1mm | 42mm | Doublet |



High Power 1064nm Mirror

BK7 mirror coated for 1064nm with high reflectance for high power applications available at different sizes.



F-theta lens for High Power Fiber Laser

F-theta scan lens for high power fiber laser, made by fused silica, low absorption coating. For your specific requirements, feel free to contact us.



Part No: RSI-1-3
Silicon Mirror with Gold coating
1 inch diameter x 3mm thickness

Offer valid for the month of July 2013 while stock last!!!
Terms and Conditions Apply.

Laser World of Photonics 2013



Thank you to everyone who dropped by our booth during the Laser World of Photonics 2013.

See you again soon in one of the upcoming exhibition

Upcoming Exhibition

25-27 June 2013—**CIPE 2013**
China National Convention Center

10-13 July 2013—**Laser Korea 2013**
Samseong-dong COEX Korea
Booth No: D-12

4-7 Sep. 2013—**CIOE 2013**
Shenzhen Convention Exhibition Center, Shenzhen, China

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

Dear Valued Customer,

Welcome to our latest newsletter. For the last quarter of the year and there's an increasing demand on our optics. So we are pleased to face the 3rd quarter by providing better service and high quality products in order to meet your growing demand. Since fiber is earning a place in the market, our R&D division has something new to offer that will support 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:

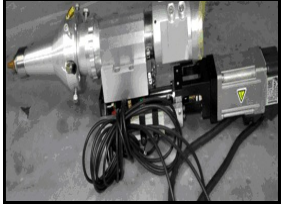
- Multiple clamp end capable of accepting IPG, SPI and Raycus fiber laser output tip
- Focal length of 120mm
- Adjustment screw for the distance between the focal lens and the tip
- Sensor nozzle and gas jet port
- Linear guider with servo motor
- Height sensor unit (HSU)

Upcoming Exhibition

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

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**Laser World of Photonics
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Mumbai, India
Booth No: A15

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) |

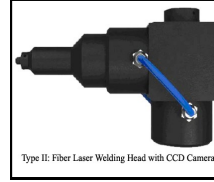
Fiber Laser Welding Head



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

Coaxial Laser Welding Head

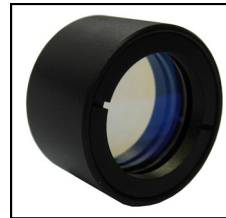


Type II: Fiber Laser Welding Head with CCD Camera

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

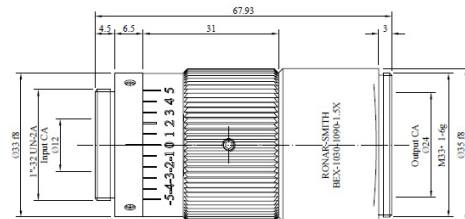
| Specifications | |
|-----------------------|--------------------|
| Maximum Power | 1000W |
| Fiber Connector | D80, LLK-B, SMA905 |
| Wavelength | 1064nm |
| Cooling Method | Water cooled |
| Maximum Input Beam NA | 0.22 |
| Focal Lens Size | 40mmDia x 3mmET |

High Power 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.

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.

Water Cooled Fiber Laser Welding Head

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

Features:

Each Water Cooled Fiber Laser Welding Head consists of:

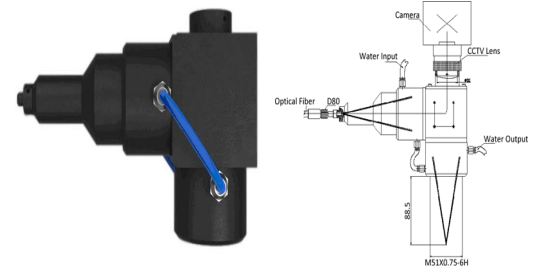
- Multiple connector types: QBH, D80, LLK-B, SMA905
- Focal lens with focal length of 100mm
- Water cooling for collimator and focal lens



Type 1: Simple welding head without CCD camera

Specification of Water Cooled Fiber Laser Welding Head

| | |
|------------------------|--------------------------|
| Maximum Power | 1000W |
| Fiber Connector | QBH, D80, LLK-B, SMA605 |
| Cooling Method | Water Cooled |
| Maximum Input Beam NA | 0.22 |
| Focal Lens Size | Dia40mm, ET3mm |
| Protective Window Size | 40mm x 3mm |
| Size of Welding Head | Refer to outline drawing |



Type 2: Simple welding head with water cooling and CCD camera

| Part NO: | Focal Length | WD | Wavelength (nm) |
|-----------------|--------------|------|-----------------|
| FPW-100 | 120mm | 40mm | 1060-1070 |
| FPW-100-monitor | 120mm | 40mm | 1060-1070 |

Smart Fiber Laser Cutting Head

The Smart Fiber Laser Cutting Head is used to focus the collimated beam from a fiber to perform cutting and drilling operations. It is equipped with a height controller allowing for the working distance to be automatically maintained.

Features:

Each Water Cooled Fiber Laser Welding Head consists of:

- Multiple clamp end capable of accepting IPG, SPI and Raycus fiber laser output tip
- Focal Lens with 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 Controller



| Part NO: | Focal Length | WD | Wavelength (nm) |
|----------|--------------|------|-----------------|
| FXY-120 | 120mm | 40mm | 1060-1070 |

Specification of Water Cooled Fiber Laser Cutting Head

| | |
|-----------------------------|--------------------------|
| Maximum Power | 1000W |
| Input Diameter | <40mm |
| Cooling Method | Water Cooled |
| Maximum Input Beam Diameter | 35mm |
| Focal Lens Size | Dia40mm, ET3mm |
| Protective Window Size | 40mm x 3mm |
| Size of Welding Head | Refer to outline drawing |