

# CYL-1000/S

# 1.0µM Single-Mode Group Continuous Fiber Laser

#### PRODUCT DESCRIPTION

GT Lasers's CYL-1000/S 1.0 µm single-mode group continuous fiber laser, adopts latest industry technology and the optimization design, with high electro-optical conversion efficiency, high lifetime, high safety and reliability. The unit with high-quality output beam and strong capability on resisting high-reflective, can be widely used in all kinds of materials of laser cutting, welding, punching, 3D printing and other high-end smart manufacturing.

GT Lasers, which is based on Internet technology, established a scientific after-sales service system. Each device has a unique identity code (the internal storage of original technology and



material information). Can achieve remote online real-time monitoring; can provide users with equipment fault early warning and efficient technical support and good after-sales service.

GT Lasers's products with high quality, high reliability and excellent cost performance, can meet the requirements of the customer diversification and personalized customization. It also with good after-sales service, is the ideal choice for system integrates and equipment manufacturers.

#### PRODUCT FEATURE

- $\blacktriangleright$  High wall plug efficiency, greatly reduce power consumption
- ▶ Strong capability on resisting high-reflective, suitable for different materials processing.
- ▶ Remote real-time monitoring.
- ▶ High lifetime, high safety and reliability.
- ▶ Can achieve personalized customization.
- ▶ Excellent after-sales service system.
- ► Excellent cost performance

#### MAIN APPLICATION

- Laser cutting.
- ► Laser welding.
- Laser cladding.
- Laser brazing.
- ▶ Laser thermolizing.

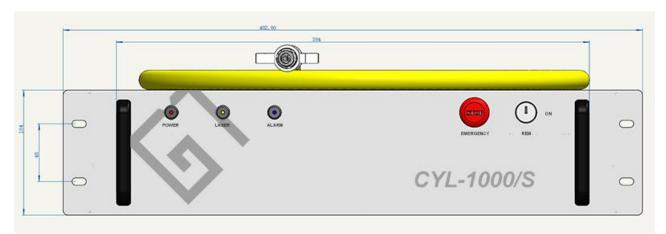


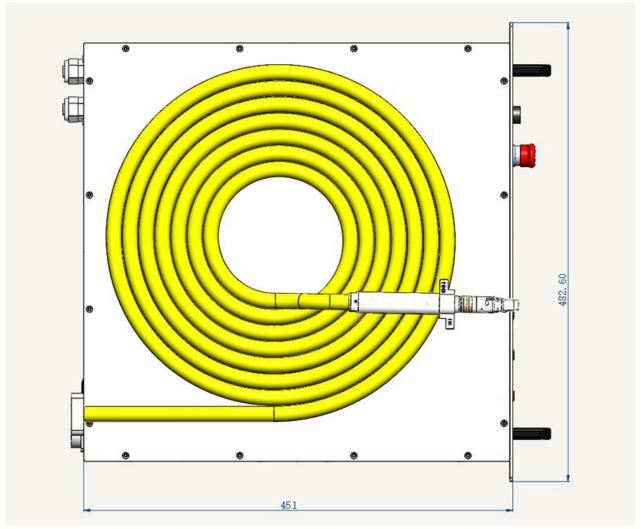
### **TECHNIQUE INDEX**

| Performance                      |                             |        | Min.                        | Тур. | Max. | Supplement            |
|----------------------------------|-----------------------------|--------|-----------------------------|------|------|-----------------------|
| Optic<br>Feature                 | Central wavelength          | (nm)   | 1070                        | 1080 | 1090 |                       |
|                                  | Spectral bandwidth          | (nm)   |                             | 3    | 5    | -3dB                  |
|                                  | Output optical power        | (W)    |                             | 1000 |      |                       |
|                                  | Power ADJ. range            | (%)    | 10                          |      | 100  |                       |
|                                  | Output power stability      | (%)    |                             | 1    | 1.5  | 100% continuous > 1h  |
|                                  |                             |        |                             | 2    | 3    | 100% continuous > 24h |
|                                  | Beam quality                | (M²)   |                             |      | 1.3  | QBH-20/400            |
|                                  |                             |        |                             |      | 2.8  | QBH-50/360            |
|                                  | Modulation frequency.       | (KHz)  |                             |      | 20   | 100% output           |
|                                  | Glow power                  | (mW)   | 0.3                         |      | 1.0  |                       |
| Output<br>Feature                | Output connector            |        |                             | QBH  |      | Customize             |
|                                  | Output fiber core-diameter  | (µm)   |                             | 20   | 100  |                       |
|                                  | Output fiber length         | (m)    |                             | 15   |      | Customize             |
|                                  | Output fiber bending radius | (mm)   | 200                         |      |      |                       |
|                                  | Working mode                |        | Continuous modulation       |      |      | CW/Modulate           |
|                                  | Polarization state          |        | Random                      |      |      | Random                |
| Electrical<br>cooling<br>Feature | Telecommunication port      |        | RS232 / AD / Super terminal |      |      |                       |
|                                  | Remote telecommunication    |        | APP                         |      |      | Customize             |
|                                  | Power supply                | (V)    |                             | 220  |      | Two phase three wire  |
|                                  | Power consumption           | (KW)   |                             |      | 3.0  |                       |
|                                  | Cooling method              |        | Water-cooling               |      |      | Circumscribed         |
|                                  | Coolant temp.               | (°C)   | 21                          |      | 25   |                       |
|                                  | Coolant flow                | (L/min |                             | 10   |      |                       |
| General<br>Feature               | Working environment temp.   | (°C)   | 10                          |      | 40   |                       |
|                                  | Working environment         | (%)    | 10                          |      | 85   |                       |
|                                  | Storage temp.               | (°C)   | -10                         |      | 60   |                       |
|                                  | Weight                      | (kg)   |                             | 38   |      |                       |
|                                  | Structure                   |        | Machine cabinet             |      |      |                       |
|                                  | Size (W) × (L) × (H)        | (mm)   | 482.6 ×674×176              |      |      | With hook             |

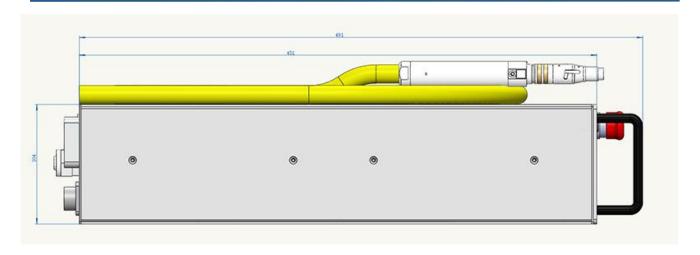


## SIZE









#### **ORDER INFORMATION**

