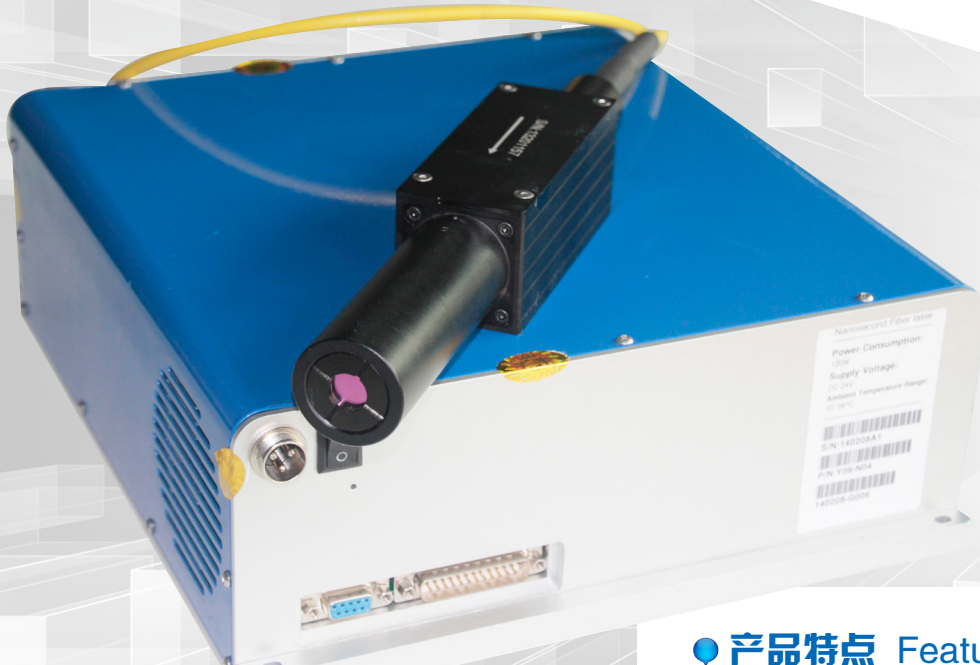




# 亚纳秒光纤激光器

## Sub-Nanosecond Fiber Laser

Y9 系列光纤激光器产生高精度的纳秒激光，为工业金属或非金属加工与材料表面处理而设计。脉冲宽度可在 0.8ns 至 20ns 范围内任意可调，重复频率可在 20kHz 至 1MHz 范围内可调。Y9 系列是 MOPA 结构激光器，非常稳定可靠。

Series Y9 fiber lasers produce highly precise nanosecond pulse lasers, suitable for a wide variety of laser marking and material processing applications. Series Y9 fiber lasers offer precise pulse sequence (0.8ns~20ns, 20kHz~1MHz). Y9 series are designed with MOPA configuration which is high stability and high reliability.

### 产品特点 Features

线偏振  
Linear Polarization  
外部或内部触发同步，和同步输出  
External or internal Trig Synchronization, and Trig Output  
优良的光束质量  
Excellent Beam Quality  
高抗反射能力  
High Anti-reflection  
免维护  
Maintenance-free

### 产品应用 Applications

打标  
Marking  
钻孔  
Drilling  
微机械加工  
Micromachining  
硅晶片加工  
Wafer Scribing  
科学研究  
Scientific Research

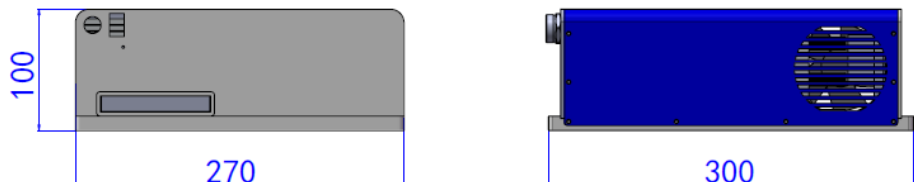


● 技术参数 Specifications

| 参数 Parameters                                      | 单位 Unit | Y10                      |
|----------------------------------------------------|---------|--------------------------|
| 工作模式 (Working Mode)                                |         | 脉冲 Pulse                 |
| 中心波长 (Center Wavelength)                           | nm      | 1064 ± 5                 |
| 平均光功率 (Average Power)                              | W       | 10                       |
| 脉冲宽度 (Pulse Width)                                 | ns      | >0.8                     |
| 重复频率 (Pulse Repetition Rate)                       | kHz     | 20~1000                  |
| 偏振 (Polarization)                                  |         | 线性或随机 (Linear or Random) |
| 脉冲能量 (Max Pulse Energy)                            | μJ      | ≤ 50@1ns                 |
| 光束质量 M <sup>2</sup> (Beam Quality M <sup>2</sup> ) |         | ≤ 1.2                    |
| 输出光斑直径 (Collimated Beam Diameter)                  | mm      | 5 – 8                    |
| 输出光功率可调范围 (Output Power Tunability)                | %       | 0 – 100                  |
| 功率稳定度 (110 小时)                                     | %       | < 2                      |
| 传递光纤长度 (Delivering Fiber Length)                   | m       | 1                        |
| 工作环境 Working Conditions                            |         |                          |
| 功率消耗 (Power Consumption)                           | W       | <100                     |
| 工作电压 (Electrical Supply Voltage)                   | VDC     | 24                       |
| 工作温度 (Operating Temperature)                       | ° C     | 0 – 30                   |
| 存储温度 (Storage Temperature)                         | ° C     | 0 to 50                  |
| 体积 (Dimensions) (L x W x H)                        | mm      | 300 x 270 x 100          |
| 重量 (Weight)                                        | Kg      | 8                        |

★ 本产品可以根据客户要求定制  
Above specifications can be customized for your specific application.

● 机械结构 Mechanical Dimensions



● 订购信息 Ordering Information

请联系我们的销售人员  
Please contact with our sale staff.

[www.gslasers.com](http://www.gslasers.com)