



**吉林省永利激光科技有限公司**  
**Jilin Yongli Laser Technology Co., Ltd.**

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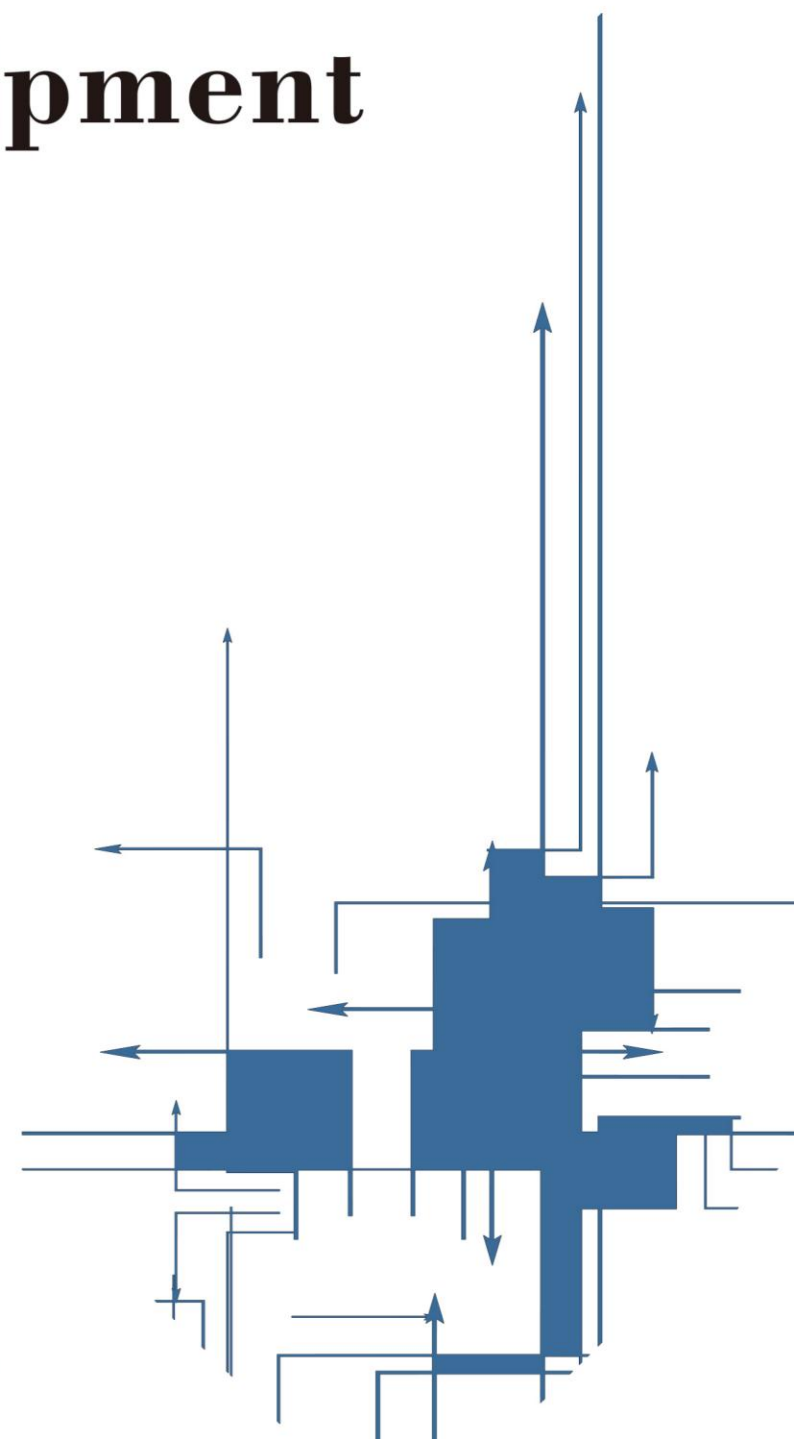
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# Expert of Laser Equipment

Reputable manufacturing  
expert of LASER equipment

吉林省永利激光科技有限公司  
Jilin Yongli Laser Technology Co., Ltd.



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目标  
Goal



定位  
Positioning



理念  
Idea

传承

Inheritance

创新

Innovation

发展

Development

世界的永利

工程师中的商人

World's Yongli

A Businessman

Among

Engineers

至专

Professional

至诚

Sincerity

致远

Growth

专业激光器件品牌智造者

Reputable manufacturing expert of **LASER** equipment

# ABOUT US

## 公司介绍

吉林省永利激光科技有限公司(以下简称永利激光)成立于2005年6月,总部位于中国吉林省长春市,是集激光系列产品的研发、生产、销售、服务于一体的综合性专业制造商,是国家级高新技术企业、国家级专精特新“小巨人”企业、中国光学学会激光加工专业委员会常务委员和长春市民营企业协会副会长单位。

永利激光现有四家子公司,主营产品涵盖二氧化碳激光管、射频激光器、半导体激光器、光纤激光器、激光器相关配件和集成设备,同时可为激光整机设备集成商提供产品定制化服务及成套激光解决方案。公司拥有独立的进出口权,在洛杉矶、迪拜、济南、聊城、苏州、东莞、广州、深圳等地设有办事处,墨西哥设有海外仓,在加拿大、美国、韩国、印度、巴西等地设有国际代理商。主营产品通过了ISO9001:2015质量体系、CE、FCC、FDA、REACH、ROHS、MSDS等国际认证,出口至114个国家和地区,注册商标42个国家,广泛应用于工业、农业、医疗、科研等领域。

永利激光拥有一个省级企业技术中心,是吉林省先进激光技术科技创新中心的依托单位。全部产品为自主研发,其中多项技术为国内首创、国际领先,现已获得授权专利112项,其中包含国际发明专利1项。

永利激光以品质、服务、创新为经营之道;以放心、省心、安心、共赢为合作之道;坚持做一家有专业技术、有企业文化、有责任担当的企业,争创激光器行业民族领先品牌。

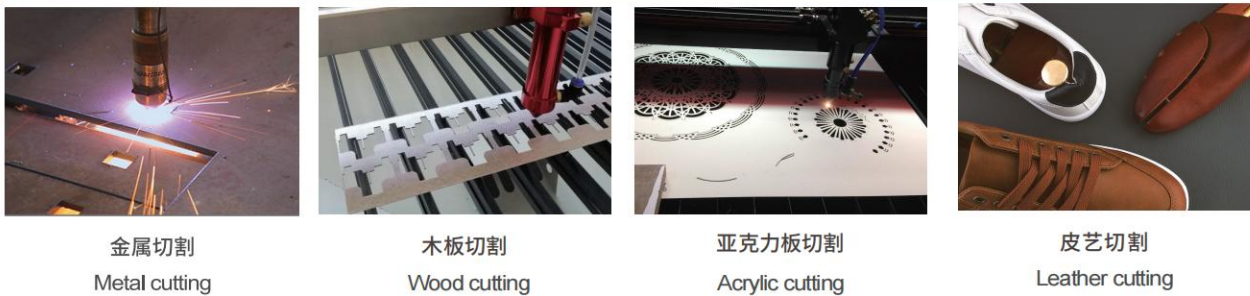


Jilin Yongli Laser Technology Co., Ltd. (referred to as Yongli Laser) was established in June 2005. Headquartered in Changchun, Jilin Province, China, Yongli Laser is a comprehensive professional manufacturer engaged in the research and development, production, sales, and service of laser series products. The company is recognized as a national high-tech enterprise, a national-level "Little Giant" enterprise specializing in niche markets with cutting-edge technologies, a standing committee member of the Laser Processing Professional Committee of the Chinese Optical Society, and a vice president unit of the Changchun Private Enterprise Association.

Yongli Laser currently has four subsidiaries. Its main products include carbon dioxide laser tubes, radio frequency lasers, semiconductor lasers, fiber lasers, laser-related accessories, and integrated equipment. The company also provides customized product services and complete laser solutions for laser equipment integrators. With independent import and export rights, Yongli Laser has established offices in Los Angeles, Dubai, Jinan, Liaocheng, Suzhou, Dongguan, Guangzhou, and Shenzhen, as well as an overseas warehouse in Mexico. The company has international agents in Canada, the United States, South Korea, India, Brazil, and other regions. Its main products have obtained international certifications such as ISO9001:2015, CE, FCC, FDA, REACH, ROHS, and MSDS, and are exported to 114 countries and regions. The company has registered trademarks in 42 countries, and its products are widely used in industrial, agricultural, medical, and scientific research fields.

Yongli Laser operates a provincial-level enterprise technology center and serves as the supporting unit for the Jilin Provincial Advanced Laser Technology Innovation Center. All products are independently developed, with several technologies being the first of their kind in China and leading internationally. The company has been granted 112 patents, including one international invention patent.

Yongli Laser adheres to the principles of quality, service, and innovation in its operations, and emphasizes trust, convenience, security, and mutual benefit in its partnerships. The company is committed to being a professional, culturally driven, and socially responsible enterprise, striving to become a leading national brand in the laser industry.



产品介绍 Introduction

As系列激光管采用金属热沉和散热帽结构设计，结合金属催化还原技术，具有光斑模式好、稳定性好、使用寿命长的特点，适用于切割和雕刻应用。其中，A6s、A8s针对金属薄板材和非金属厚板材，具有更好的切割效果。

The As Series laser tubes incorporate advanced metal heat sinks and heat dissipation head designs, coupled with metal catalytic reduction technology. These features ensure an high quality beam mode, exceptional stability, and extended service life, making them highly effective for both cutting and engraving tasks. Notably, the A6s and A8s models deliver outstanding cutting performance on both metal and non-metal sheets, offering superior results across various applications.

产品参数 Technical Parameter

| 型号<br>Model | 额定功率<br>Rated Power (W) | 最大功率<br>Max. Power(W) | 起辉电压<br>Ignition Voltage(kV) | 最大工作电流<br>Max Working Current(mA) | 建议工作电流<br>Recommend Working Current(mA) | 功率不稳定性<br>Power Instability(%) | 长度<br>Length (mm) | 外径 Dia.<br>(mm) | 水冷角度<br>Angles Between Water Inlet & outlet | 用途<br>Application          | 质保期<br>Warranty (M) |
|-------------|-------------------------|-----------------------|------------------------------|-----------------------------------|-----------------------------------------|--------------------------------|-------------------|-----------------|---------------------------------------------|----------------------------|---------------------|
| A0s         | 28                      | 35                    | 12                           | 20                                | 16                                      | ≤ 5                            | 605               | Φ80±2           | 180°                                        | 切割/雕刻<br>Cutting/Engraving | 6                   |
| A1s         | 75                      | 90                    | 20                           | 22                                | 18                                      | ≤ 5                            | 1112              | Φ80±2           | 180°                                        | 切割/雕刻<br>Cutting/Engraving | 10                  |
| A2s         | 90                      | 100                   | 23                           | 26                                | 21                                      | ≤ 5                            | 1262              | Φ80±2           | 180°                                        | 切割/雕刻<br>Cutting/Engraving | 18                  |
| A4S         | 100                     | 130                   | 26                           | 28                                | 22                                      | ≤ 5                            | 1462              | Φ80±2           | 180°                                        | 切割<br>Cutting              | 18                  |
| A6s         | 130                     | 160                   | 30                           | 30                                | 24                                      | ≤ 5                            | 1662              | Φ80±2           | 180°                                        | 切割<br>Cutting              | 12                  |
| A8s         | 150                     | 180                   | 32                           | 35                                | 28                                      | ≤ 5                            | 1862              | Φ80±2           | 180°                                        | 切割<br>Cutting              | 12                  |



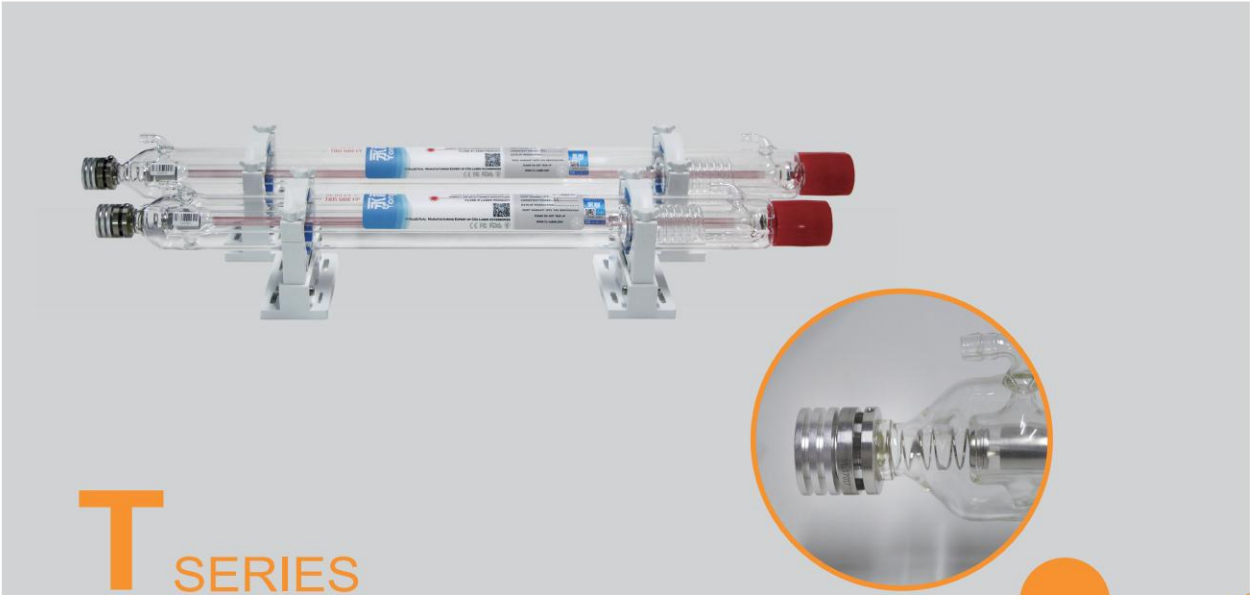
产品介绍 Introduction

H系列激光管采用金属热沉和散热帽结构设计，结合特定的谐振腔参数设计和特有工作物质配比，具有功率调节范围大、光束质量好、功率输出稳定、小电流匹配性佳的特点，更适用于雕刻应用。

The H Series laser tubes feature a metal heat sink and heat dissipation cap structure, along with specially designed resonator parameters and a unique working substance ratio. These design elements provide a broad power adjustment range, excellent beam quality, stable power output, and precise small current matching. These attributes make the H Series particularly well-suited for engraving applications.

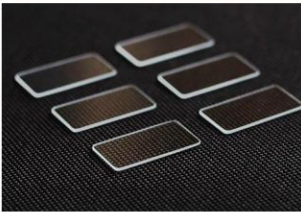
产品参数 Technical Parameter

| 型号<br>Model | 额定功率<br>Rated Power (W) | 最大功率<br>Max. Power(W) | 起辉电压<br>Ignition Voltage(kV) | 最大工作电流<br>Max Working Current(mA) | 建议工作电流<br>Recommend Working Current(mA) | 功率不稳定性<br>Power Instability(%) | 长度<br>Length (mm) | 外径 Dia.<br>(mm) | 水冷角度<br>Angles Between Water Inlet & outlet | 用途<br>Application          | 质保期<br>Warranty (M) |
|-------------|-------------------------|-----------------------|------------------------------|-----------------------------------|-----------------------------------------|--------------------------------|-------------------|-----------------|---------------------------------------------|----------------------------|---------------------|
| H1          | 75                      | 90                    | 19                           | 20                                | 16                                      | ≤ 5                            | 1112              | Φ60±2           | 180°                                        | 切割/雕刻<br>Cutting/Engraving | 10                  |
| H2          | 90                      | 100                   | 21                           | 26                                | 21                                      | ≤ 5                            | 1242              | Φ60±2           | 180°                                        | 切割/雕刻<br>Cutting/Engraving | 12                  |
| H4          | 100                     | 130                   | 24                           | 28                                | 22                                      | ≤ 5                            | 1433              | Φ60±2           | 180°                                        | 切割/雕刻<br>Cutting/Engraving | 12                  |
| H6          | 130                     | 160                   | 28                           | 30                                | 24                                      | ≤ 5                            | 1662              | Φ70±2           | 180°                                        | 切割/雕刻<br>Cutting/Engraving | 12                  |
| H8          | 150                     | 180                   | 30                           | 35                                | 28                                      | ≤ 5                            | 1862              | Φ70±2           | 180°                                        | 切割/雕刻<br>Cutting/Engraving | 10                  |



T SERIES

T 系列 CO<sub>2</sub> 激光管 T series CO<sub>2</sub> Laser Tube



亚克力切割  
Acrylic Cutting



木质雕刻  
Wood Engraving



金属雕刻  
Metal Engraving



皮艺切割  
Leather Cutting

产品介绍 Introduction

T系列激光管结合了As系列和H系列产品的优点, 光束质量好、稳定性好, 适用于精密雕刻和切割。T系列激光管体积小、结构简单, 更适用于小型化桌、台面机使用, 可定制。

The T Series laser tubes integrate the advantages of both the As Series and H Series products, offering excellent beam quality and stability. They are ideal for precision engraving and cutting. With a compact size and simple structure, the T Series is particularly well-suited for miniaturized desktop machines. Customization options are also available.

产品参数 Technical Parameter

| 型号<br>Model | 额定功率<br>Rated Power (W) | 最大功率<br>Max. Power(W) | 起辉电压<br>Ignition Voltage(kV) | 最大工作电流<br>Max Working Current(mA) | 建议工作电流<br>Recommend Working Current(mA) | 功率不稳定性<br>Power Instability(%) | 长度<br>Length (mm) | 外径 Dia. (mm) | 水冷角度<br>Angles Between Water Inlet & outlet | 用途<br>Application          | 质保期<br>Warranty (M) |
|-------------|-------------------------|-----------------------|------------------------------|-----------------------------------|-----------------------------------------|--------------------------------|-------------------|--------------|---------------------------------------------|----------------------------|---------------------|
| T0          | 35                      | 45                    | 16                           | 18                                | 14                                      | ≤ 5                            | 700               | Φ55±2        | 35°                                         | 切割/雕刻<br>Cutting/Engraving | 9                   |
| T2          | 40                      | 50                    | 17                           | 20                                | 16                                      | ≤ 5                            | 800               | Φ55±2        | 35°                                         | 切割/雕刻<br>Cutting/Engraving | 9                   |



R SERIES

R 系列 CO<sub>2</sub> 激光管 R series CO<sub>2</sub> Laser Tube



亚克力切割  
Acrylic Cutting



木质雕刻  
Wood Engraving



金属切割  
Metal Cutting



亚克力雕刻  
Acrylic Engraving

产品介绍 Introduction

R系列激光管采用镜片水冷散热结构设计, 结构简单、工艺成熟稳定、应用范围广, 适用于切割和雕刻, 具有较高的性价比。

The R Series laser tubes feature a water-cooled output end design, characterized by a simple structure and a mature, stable manufacturing process. They offer a broad range of applications, making them suitable for both cutting and engraving. The R Series is known for its high cost-effectiveness.

产品参数 Technical Parameter

| 型号<br>Model | 额定功率<br>Rated Power (W) | 最大功率<br>Max. Power(W) | 起辉电压<br>Ignition Voltage(kV) | 建议工作电流<br>Recommend Working Current(mA) | 功率不稳定性<br>Power Instability(%) | 长度<br>Length (mm) | 外径 Dia. (mm) | 用途<br>Application          | 质保期<br>Warranty (M) |
|-------------|-------------------------|-----------------------|------------------------------|-----------------------------------------|--------------------------------|-------------------|--------------|----------------------------|---------------------|
| R1          | 65                      | 80                    | 20                           | 16                                      | ≤±5                            | 1050              | Φ80±2        | 切割/雕刻<br>Cutting/Engraving | 6                   |
| R3          | 80                      | 100                   | 23                           | 21                                      | ≤±5                            | 1250              | Φ80±2        | 切割/雕刻<br>Cutting/Engraving | 12                  |
| R5          | 100                     | 120                   | 28                           | 24                                      | ≤±5                            | 1450              | Φ80±2        | 切割/雕刻<br>Cutting/Engraving | 12                  |
| R7          | 130                     | 150                   | 29                           | 26                                      | ≤±5                            | 1650              | Φ80±2        | 切割<br>Cutting              | 12                  |
| R9          | 140                     | 160                   | 31                           | 28                                      | ≤±5                            | 1850              | Φ80±2        | 切割<br>Cutting              | 10                  |



产品介绍 Introduction

B系列激光器是针对雕刻、打标领域推出的一款应用集成化产品。该系列产品标配激光电源和红光指示器，性价比高，具有响应速度快、光束质量好的优点，产品性能更符合细分行业的特殊要求。

The B Series laser is designed for engraving and marking applications, integrating standard laser power supplies and red light indicators. This series is cost-effective and offers advantages such as fast response speed and excellent beam quality. Its performance is tailored to meet the specific requirements of niche industries.

产品参数 Technical Parameter

| 型号<br>Model | 额定功率<br>Rated Power (W) | 起辉电压<br>Ignition Voltage(kV) | 建议工作电流<br>Recommend Working Current(mA) | 功率不稳定性<br>Power Instability(%) | 长度<br>Length (mm) | 外径 Dia.<br>(mm) | 水冷角度<br>Angles Between Water Inlet &outlet | 用途<br>Application          | 质保期<br>Warranty (M) |
|-------------|-------------------------|------------------------------|-----------------------------------------|--------------------------------|-------------------|-----------------|--------------------------------------------|----------------------------|---------------------|
| B2          | 40                      | 20                           | 20                                      | ≤ 5                            | 730               | Φ50             | 35°                                        | 切割/雕刻<br>Cutting/Engraving | 6                   |
| B4          | 45                      | 20                           | 20                                      | ≤ 5                            | 850               | Φ50             | 35°                                        | 切割/雕刻<br>Cutting/Engraving | 6                   |
| B6          | 50                      | 20                           | 20                                      | ≤ 5                            | 1000              | Φ50             | 35°                                        | 切割/雕刻<br>Cutting/Engraving | 6                   |

标配配件 Standard Accessories



红光指示器  
Red light indicator



激光电源  
Laser power supplies



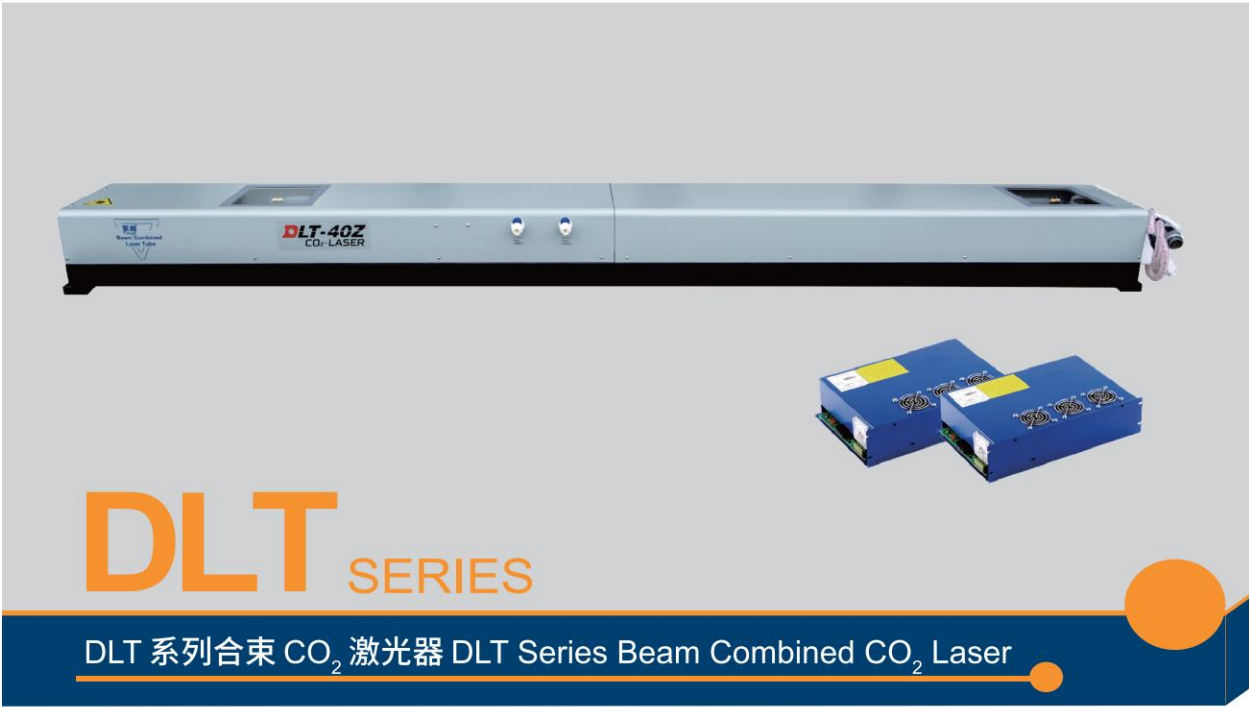
产品介绍 Introduction

C/G系列激光管是我公司的传统产品，采用镜片水冷散热结构设计，工艺成熟稳定、性价比较高，已供应多家大型激光器企业，并伴随整机出口，其稳定的输出功率和良好的光斑模式，多年来已被广大客户所认可。

The C/G Series laser tubes are traditional products from our company, featuring a lens-based water cooling structure. With a mature and stable manufacturing process, these tubes offer high cost-performance and have been supplied to numerous large enterprises. Known for their stable output power and excellent spot mode, the C/G Series has earned widespread recognition and trust from customers over the years, including in whole machine exports.

产品参数 Technical Parameter

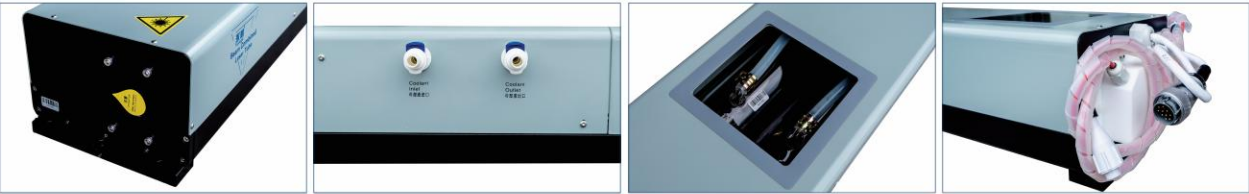
| 型号<br>Model | 额定功率<br>Rated Power (W) | 最大功率<br>Max. (W) | 功率不稳定性<br>Power Instability(%) | 长度<br>Length (mm) | 外径 Dia.<br>(mm) | 用途<br>Application          | 质保期<br>Warranty (M) |
|-------------|-------------------------|------------------|--------------------------------|-------------------|-----------------|----------------------------|---------------------|
| 700-C       | 38                      | 42               | ≤±5                            | 700               | Φ50±2           | 医疗/工业<br>Health/industry   | 12/3                |
| 800-C       | 40                      | 44               | ≤±5                            | 800               | Φ50±2           | 医疗/工业<br>Health/industry   | 12/3                |
| 900-C       | 42                      | 46               | ≤±5                            | 900               | Φ50±2           | 医疗/工业<br>Health/industry   | 12/3                |
| 1200-G      | 65                      | 75               | ≤±5                            | 1200              | Φ55±2           | 切割/雕刻<br>Cutting/Engraving | 6                   |
| 1600-G      | 100                     | 110              | ≤±5                            | 1600              | Φ60±2           | 切割/雕刻<br>Cutting/Engraving | 6                   |



产品介绍 Introduction

DLT合束激光器具有专用的合束合光装置，具有一体化模具设计的特点、安装使用简单、维护保养便捷、使用寿命长、输出功率高、功率范围可调整、光斑模式稳定等特点，是激光整机制造企业配套使用的非金属厚板材和金属薄板材加工的首选配件。广泛应用于刀模加工、印刷包装、广告装饰、家具、工艺礼品、木制品加工、薄钢板加工，皮革制品加工等行业。

The DLT Beam Laser features a specialized beam combining device with an integrated mold design, ensuring simple installation, ease of use , and convenient maintenance. It offers a long service life, high output power, an adjustable power range, and a stable beam mode. This makes it an ideal accessory for laser machine manufacturers processing non-metallic sheets and thin metal plates. The DLT Beam Laser is widely used across various industries, including die board processing, printing and packaging, advertising decoration, furniture, craft gifts, wood products, sheet steel processing, and leather products.



产品参数 Technical Parameter

| 型号<br>Model | 额定功率<br>Rated Power<br>(W) | 最大功率<br>Max. Power(W) | 起辉电压<br>Ignition(kV) | 工作电压<br>Operating voltage(kV) | 最大工作电流<br>Max Working Current(mA) | 建议工作电流<br>Recommend Working Current(mA) | 功率不稳定性<br>Power Instability(%) | 尺寸 Size<br>LxWxH(mm) | 建议安装尺寸<br>Recommended Installation Space<br>LxWxH(mm) | 质保期<br>Warranty (M) |
|-------------|----------------------------|-----------------------|----------------------|-------------------------------|-----------------------------------|-----------------------------------------|--------------------------------|----------------------|-------------------------------------------------------|---------------------|
| DLT-150     | 100                        | 105                   | 26                   | 14                            | 26                                | 24                                      | ≤ 5                            | 1000x190x140.5       | 1150x240x170                                          | 12                  |
| DLT-300     | 290                        | 310                   | 40                   | 26                            | 40                                | 36                                      | ≤ 5                            | 1850x270x146         | 2000x400x200                                          | 12                  |
| DLT-40Z     | 300                        | 320                   | 40                   | 26                            | 40                                | 36                                      | ≤ 5                            | 1850x270x146         | 2000x400x200                                          | 18                  |

产品特点 Characteristic

- 采用自有专利技术,内含一体化合光装置,提高光束质量。
- Featuring independently patented technology, the integrated beam combining device enhances beam quality significantly.
- 光束质量优,稳定性好。
- Excellent beam quality and stability.
- 单管输出,双管同步控制均可,功率输出连续可调。(300P/30-300W 40Z/50-320W)
- Supports both single tube output and synchronous control of dual tubes, with continuously adjustable power output.(300P/30-300W 40Z/50-320W)
- 轻量化底槽设计、金属上罩、安全可靠。
- Lightweight optical base design, metal enclosure, safe and reliable.
- 激光器采用可阀封接技术,内含催化剂,产品性能更稳定,使用寿命可达10000小时以上。
- With kovar sealing technology and inner catalyst, lifetime is over 10000Hr.
- 稳定的单一波长输出。
- Stable single wavelength output.
- 应用优势:适合金属薄板材(3mm不锈钢、4mm碳钢)、非金属厚板材、复合材料切割。
- Applicable advantage: Suitable for metal sheet (3mm stainless steel, 4mm carbon steel), thick nonmetal and composite materials cutting.



激光电源 Laser Power Supply



输入说明  
Enter Instructions  
1 2 3 4 5 6  
TH TL WP G IN 5V

|    |                              |                                                                                                                                                                                                                                                                            |
|----|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TH | 输入信号<br>Input Signal         | TTL 高电平 ( $\geq 3V$ ) 时出光, 低电平 ( $\leq 0.3V$ ) 时不出光<br>Laser output in TTL high level ( $\geq 3V$ ) , Laser off in low level ( $\leq 0.3V$ )                                                                                                                               |
| TL | 输入信号<br>Input Signal         | TTL 高电平 ( $\geq 3V$ ) 时不出光, 低电平 ( $\leq 0.3V$ ) 时出光<br>Laser output in TTL high level ( $\geq 3V$ ) , Laser off in low level ( $\leq 0.3V$ )                                                                                                                               |
| WP | 保护接口<br>Protection Interface | 不用时与地短接<br>Short-circuit when not in use                                                                                                                                                                                                                                   |
| G  | 信号地<br>Signal Ground         | 此脚必须和激光机的机壳、控制板的接地良好相连<br>This pin must be connected with Ground of the machine shell and control board.                                                                                                                                                                   |
| IN | 输入信号<br>Input Signal         | 激光功率控制端, 可用 0-5V 模拟信号控制, 或用 5V 为幅值的 PWM 信号控制( $F\geq 20KHz$ ), 或用手动电位器控制<br>Laser power control terminal, can be controlled by 0-5V analog signal, or controlled by 5V PWM signal of amplitude( $F\geq 20KHz$ ), or controlled by manual potentiometer (4.7K $\Omega$ /2W) |
| 5V | 输出电源<br>Output Power Supply  | 5V 输出, 最大输出电流为 50mA<br>5V output, its maximum output current is 50mA                                                                                                                                                                                                       |

产品介绍 Introduction

激光电源是针对本公司激光管研制而成, 产品具有性能稳定、抗干扰能力强、体积小、耐老化的特点。

The power supply is specifically developed for our CO<sub>2</sub> laser tubes. It features stable performance, strong anti-interference capability, portability, and excellent durability against aging.

产品参数 Technical Parameter

| 型号 Model | 输出电压<br>Voltage<br>Output(kV) | 最大电流<br>Max.<br>Current(mA) | 尺寸 Size<br>LxWxH(mm) | 壳体颜色 Color | 配套管型<br>Laser Tube   | 质保期<br>Warranty (M) |
|----------|-------------------------------|-----------------------------|----------------------|------------|----------------------|---------------------|
| YL-U1    | 35                            | 28                          | 270x180x80           | 黑色 Black   | A2s,A4s,H2,H4        | 12                  |
| YL-U2    | 45                            | 35                          | 320x210x80           | 黑色 Black   | A6s,A8s,H6,H8        | 12                  |
| YL-2     | 30                            | 25                          | 220x150x100          | 黑色 Black   | A0s, A1s, T0, T2, H1 | 12                  |

激光功率计 Laser Power Meter

手持功率计 HLP-200B

Hand-held Power Meter HLP-200B



产品介绍 Introduction

- 体积小, 易携带
- Portable Design
- 可更换电池, 维护方便
- Replaceable battery for easy maintenance
- 读数直观, 测量精度高
- Easy to read, high accuracy

台式功率计 YL-S- III

Desktop Power Meter YL - S - III

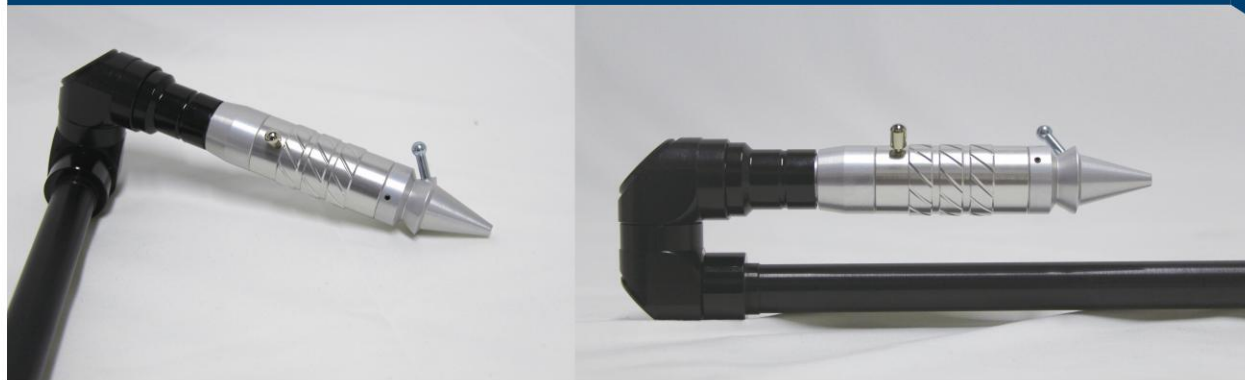


产品介绍 Introduction

- 响应快, 精度高
- Better response time, high accuracy
- 高效热敏探头可测量8-12 $\mu$ m范围光谱
- The Efficient Thermal Probe is capable of measuring within the 8-12 $\mu$ m spectral range
- 接收面积均匀良好
- Targeting area with good uniformity
- 自带标配水冷模块, 适合长时间测量
- With standard water cooling module, suitable for constant measurement

| 型号 Model                      | HLP-200B                                         | YL-S- III                           |
|-------------------------------|--------------------------------------------------|-------------------------------------|
| 样式 Type                       | 手持式 Hand-held                                    | 台式 Desktop                          |
| 量程 Range                      | 0-200W                                           | 0-200W                              |
| 最小分辨率 Min Resolution          | 0.1W                                             | 0.1W                                |
| 光感面积 Light Sensitive Area     | $\Phi$ 19mm                                      | $\Phi$ 28mm                         |
| 波长范围 Wavelength Range         | 8-12 $\mu$ m                                     | 8-12 $\mu$ m                        |
| 冷却方式 Cooling Method           | 自然冷却 Nature-cooling                              | 水冷 Water-cooling                    |
| 电源要求 Power Supply Requirement | 3V/3.6V 2032 纽扣电池<br>3V/3.6V 2032 Button Battery | AC220V+10%,50Hz                     |
| 显示 Display                    | 四位 LCD 显示 4 Digits LCD Display                   | 三位半 LED 显示 3 1/2 Digits LED Display |
| 质保期(月) Warranty(M)            | 12                                               | 12                                  |

## 万向传输激光器 Articulated Arms



### 产品介绍 Introduction

万向传输激光器转折关节采用精密轴承,转动任意角度,实现光束大角度应用,光路采用反射方式传输加透镜聚焦方式,整体封闭设计,避免镜片污染,不受机械振动影响。广泛应用于绣花、切割、雕刻等类型电脑机械设备,更多款式可定制。

The articulated arms for the CO<sub>2</sub> laser feature precision bearings that allow for smooth rotation at any angle, enabling applications with a wide beam angle. The beam path utilizes a reflection transmission and lens focusing system. The fully sealed design prevents lens contamination and ensures stability, even in the presence of mechanical vibrations. These articulated arms are widely used in embroidery, cutting, engraving, and other types of computer controlled machinery.



## 高压接头 High Voltage Connector

### 产品介绍 Introduction

高压接头为我公司专利产品,具有操作简单、防护性好的特点。

采用扣合式,安装便捷,省时省力!



防护更全面:减少了以往高压接线防护不良而发生的漏电、打火等情况,更是避免因工作环境潮湿对产品使用造成的不良影响,安全放心!

The High Voltage Connector is a patented product of our company, designed for simple operation and enhanced protection. Featuring a tightening cap design, it allows for convenient installation.

The connector provides comprehensive protection, significantly reducing the risks of poor insulation, electrical leakage, and other issues associated with high-voltage wiring. Additionally, it helps mitigate the adverse effects of wet working environments, ensuring safe and reliable use.

## 激光管支架 Laser Tube Bracket

### 产品介绍 Introduction

该管支架具有可升降式螺旋,方便客户设定所需管位高度。同时支架直径可调节,调节范围为50mm-80mm,客户可根据需要自行调节。该管支架匹配性高、安装方便、操作简单、易于调节。

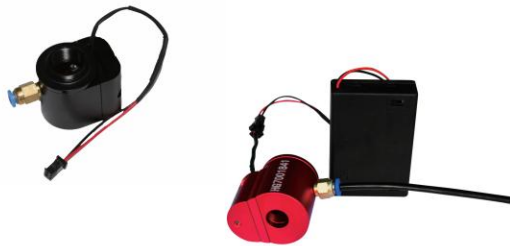


The brackets convenient for customers to set the tube height with the lift screw. The customers can also adjust the diameter of the brackets according to their needs, the adjusted range is 50mm-80mm. It is highly matchable to different types of laser tubes, easy to install, operate and adjust.

红光指示器 Red Light Indicator

产品介绍 Introduction

红光指示器解决了二氧化碳激光传输路径不可见的问题, 该产品设计小巧、性能稳定, 可选配电池盒装置, 是调整激光光路的最佳搭档。



The red light indicator solves the problem of invisible CO<sub>2</sub> laser beam path and irradiation, the product design is small, stable performance, optional battery box device, is the best partner for laser beam alignment.

激光镜片 Mirrors & Lenses



永利激光镜片

Yong Li mirrors & Lenses

产品参数 Technical Parameter

| 名称 Name            | 材料 Material  | 直径 /mm ( 可选 ) Diameter /mm (Optional) | 焦距 /mm( 可选 ) FocalLength /mm (Optional) |
|--------------------|--------------|---------------------------------------|-----------------------------------------|
| 平面反射镜 Flat Mirrors | 硅 Si         | Φ20,Φ25,Φ30                           | —                                       |
| 平面反射镜 Flat Mirrors | 钼 Mo         | Φ20,Φ25,Φ30                           | —                                       |
| 聚焦镜 Focuslens      | ZnSe         | Φ20,Φ25.4                             | 50.8, 63.5                              |
| 聚焦镜 Focuslens      | II - VI ZnSe | Φ20,Φ25.4                             | 50.8, 63.5                              |

缝纫系列

缝纫机专用型号 SEW-2 / SEW-4

Special Models for Sewing Series SEW-2 / SEW-4

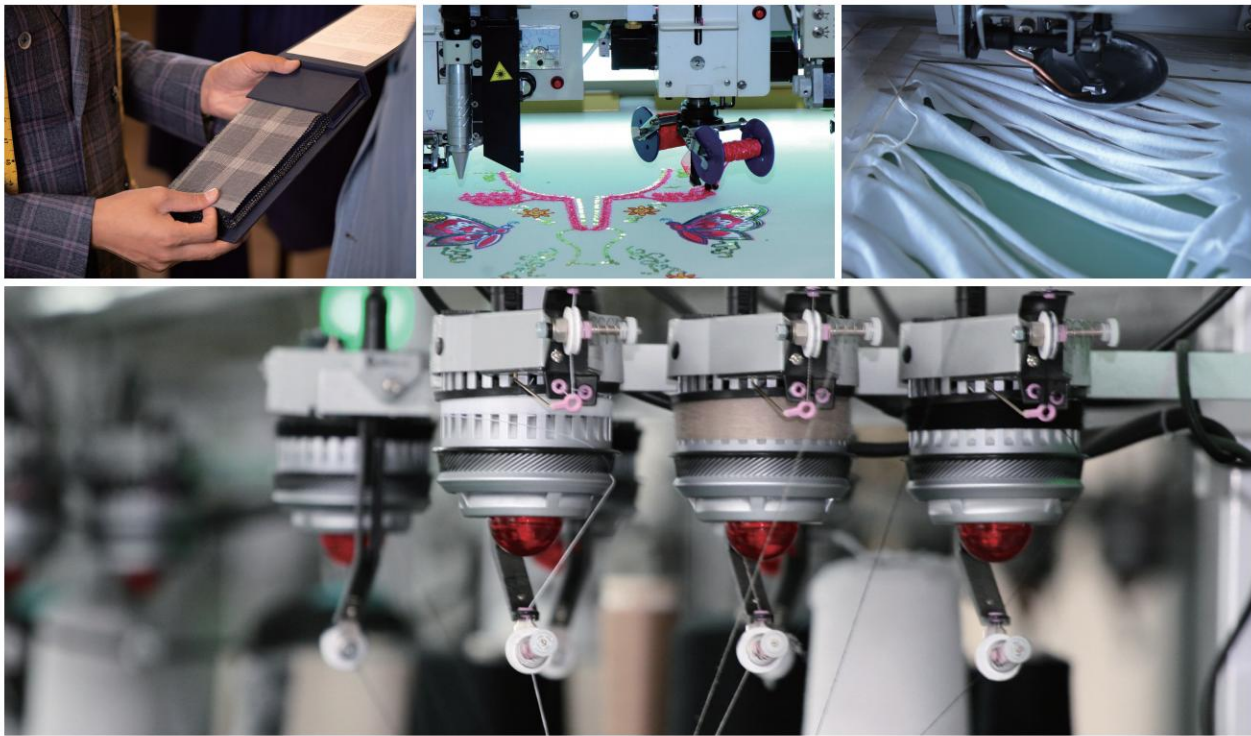
产品介绍 Introduction

SEW系列激光管是专门针对缝纫机领域开发, 采用特有的气体配比, 光束质量好, 特别适合距光路20cm-30cm的位置切割使用, 在此距离内光斑模式可以达到基模标准, 解决了白色布料切割时表面发黄、烧焦等问题。

The SEW Series laser tube is specifically developed for sewing machinery, featuring a unique gas ratio that ensures excellent beam quality. It is particularly well-suited for cutting applications at an optical path distance of 20-30cm, where the beam spot meets basic mode standards. This design effectively addresses common issues such as yellowing and burning of the cutting surface on white fabric.

产品参数 Technical Parameter

| 型号 Model | 额定功率 Rated Power (W) | 最大功率 Max. Power(W) | 起辉电压 Ignition Voltage(kV) | 最大工作电流 Max Working Current(mA) | 建议工作电流 Recommend Working Current(mA) | 功率不稳定性 Power Instability(%) | 长度 Length (mm) | 外径 Dia. (mm) | 水冷角度 Angles Between Water Inlet & outlet | 用途 Application          | 质保期 Warranty (M) |
|----------|----------------------|--------------------|---------------------------|--------------------------------|--------------------------------------|-----------------------------|----------------|--------------|------------------------------------------|-------------------------|------------------|
| SEW-2    | 90                   | 100                | 23                        | 26                             | 21                                   | ≤ 5                         | 1277           | Φ80±2        | 180°                                     | 切割/雕刻 Cutting/Engraving | 12               |
| SEW-4    | 100                  | 130                | 26                        | 28                             | 22                                   | ≤ 5                         | 1477           | Φ80±2        | 180°                                     | 切割 Cutting              | 12               |



# 喷码打标系列

A4s-SF

Marking and Coding Series A4s-SF

## 产品介绍 Introduction

A4s-SF激光管是我们公司针对喷码、打标领域研发制作的定制型号,采用特殊的气体配比,降低气体击穿电压,更适合脉冲工作,有9.3μm、10.6μm两种波长可供客户选择,可以纵向安装使用,在距离出光口70-80cm的位置,可以控制光斑直径在5mm以内。

The customized model A4s-SF laser tube is developed by our company for the inkjet coding and marking industries. It utilizes a special gas ratio that reduces gas breakdown voltage, making it particularly well-suited for pulse operation. Available in two wavelengths, 9.3μm and 10.6μm, this laser tube allows customers to choose the best option for their needs. Additionally, the spot diameter can be precisely controlled within 5mm.



## 产品参数 Technical Parameter

| 型号<br>Model | 额定功率<br>Rated Power (W) | 最大功率<br>Max. Power(W) | 起辉电压<br>Ignition Voltage(kV) | 最大工作电流<br>Max Working Current(mA) | 建议工作电流<br>Recommend Working Current(mA) | 功率不稳定性<br>Power Instability(%) | 长度<br>Length (mm) | 外径 Dia.<br>(mm) | 水冷角度<br>Angles Between Water Inlet & outlet | 用途<br>Application       | 质保期<br>Warranty (M) |
|-------------|-------------------------|-----------------------|------------------------------|-----------------------------------|-----------------------------------------|--------------------------------|-------------------|-----------------|---------------------------------------------|-------------------------|---------------------|
| A4s-SF      | 100                     | 130                   | 26                           | 28                                | 22                                      | ≤ 5                            | 1450              | Φ80±2           | 180°                                        | 喷码/打标<br>Coding/Marking | 12                  |



# 医疗系列

Medical Series M4 M8 M9 M10

## 产品介绍 Introduction

M系列激光管是针对医疗行业的应用需求研制开发的一款产品,采用纵向激励封离型二氧化碳激光管设计,具有响应速度快、低功率输出稳定的特点,脉冲工作性能好,更适用于医疗行业的美容、美肤医疗设备,对标国家水平。

The M Series laser tube is specifically developed to meet the application needs of the medical industry. It features a longitudinal excitation sealed CO<sub>2</sub> laser tube design, providing faster response times, stable low-power output, and excellent pulse performance. This makes it particularly well-suited for use in medical and cosmetic equipment, meeting international standards in the industry.

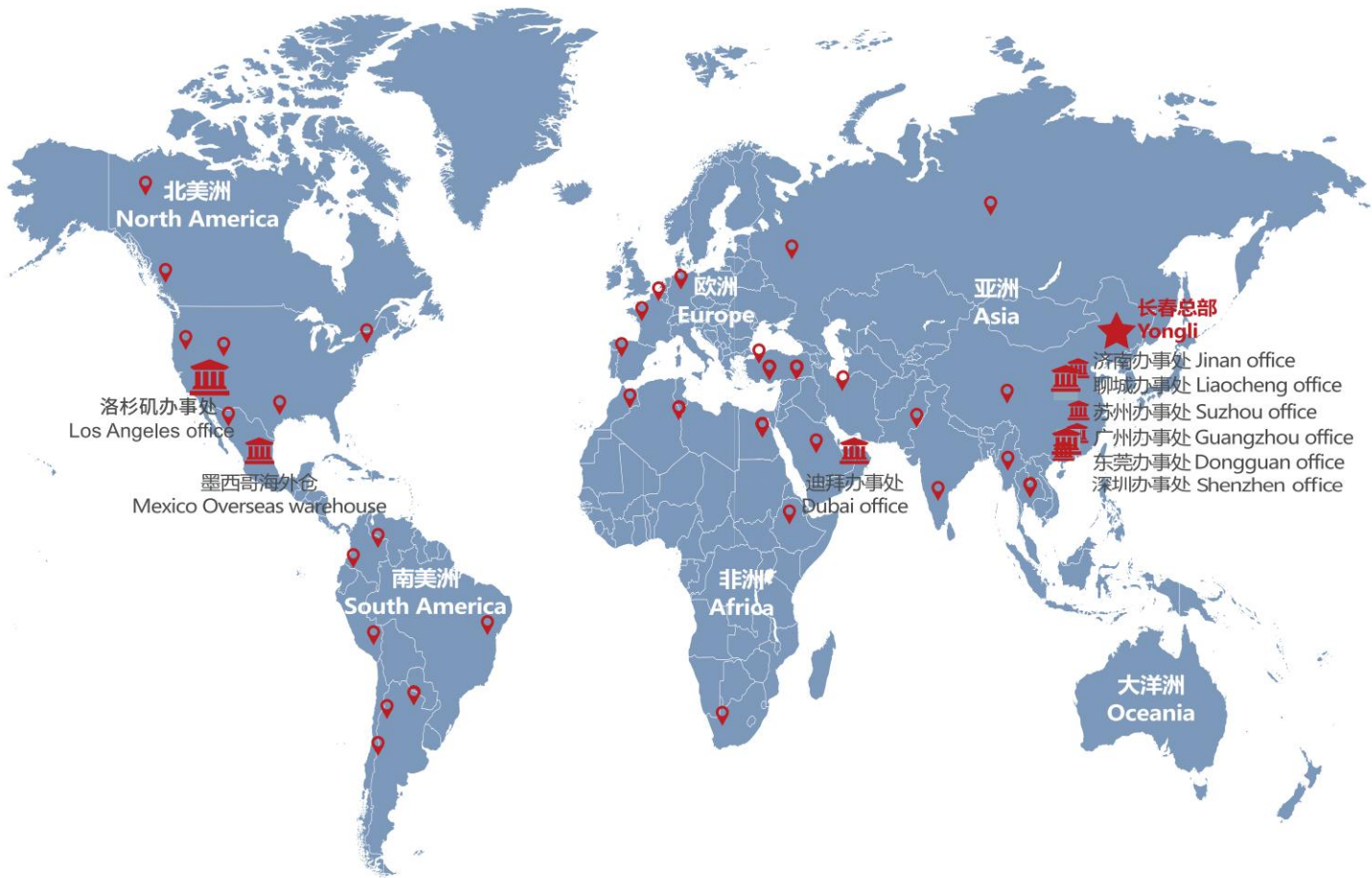


## 产品参数 Technical Parameter

| 型号<br>Model | 额定功率<br>Rated Power (W) | 最大功率<br>Max. Power(W) | 起辉电压<br>Ignition Voltage(kV) | 建议工作电流<br>Recommend Working Current(mA) | 功率不稳定性<br>Power Instability(%) | 长度<br>Length (mm) | 外径 Dia.<br>(mm) | 水冷角度<br>Angles Between Water Inlet & outlet | 用途<br>Application | 质保期<br>Warranty (M) |
|-------------|-------------------------|-----------------------|------------------------------|-----------------------------------------|--------------------------------|-------------------|-----------------|---------------------------------------------|-------------------|---------------------|
| M9          | 40                      | 50                    | 20                           | 20                                      | ≤ 5                            | 860               | Φ55             | 35°                                         | 医疗<br>Medical     | 12                  |
| M10         | 45                      | 55                    | 20                           | 20                                      | ≤ 5                            | 895               | Φ55             | 35°                                         | 医疗<br>Medical     | 12                  |

# 世界的永利 永利的世界

World's Yongli Yongli's World



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