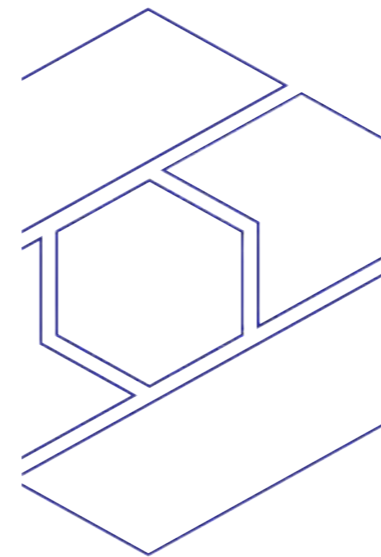


G Z T

Leading supplier of advanced laser for precision manufacturing



**Wuhan Guangzhi Technology Corporation Ltd**

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Suzhou Sales Center: Room 1118, 11th Floor, Building 40, Tus Fashion City, No. 60 Weixin Road, Suzhou Industrial Park, Suzhou City, Jiangsu Province

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

# COMPANY ” PROFILE

Wuhan Guangzhi Technology Co., Ltd. (hereafter referred as GZ for short) was founded on May 31st 2018. GZ's market strategy is to become a leading supplier of advanced industrial laser products for precision manufacturing.

GZ has a first class research and development team consist of optics, electronics, software and mechanics engineers. GZ can provide fiber laser products operating on 1064nm,1550nm,1940nm wavelength range, and green laser based on extra-cavity second-harmonic generation technology.

We have more than 5000 square meter clean workshop for laser production and all set of specialty fiber processing and laser measurement equipment. GZ has gotten the High-Tech enterprise certificate of China in 2020 and has around 34 patents and software copyrights on fiber laser technologies. GZ's laser products are widely used in 3C, 5G, photovoltaic, battery and semi-conductor industries. GZ has full series of nanosecond MOPA laser covering 20W to 500W power range. GZ also provides single-mode air cooled CW laser and customized ultra-fast and green laser.

GZ's clients include leading companies in laser equipment market such as HAN'S, HG, HMX, UW etc. And GZ also has good cooperation relations with universities and institutions such as Tsinghua University, Shandong Univerisity, Shenzhen University and SIOM, etc.

The company's website is [www.gzlasertech.com](http://www.gzlasertech.com), welcome to contact us.

## Mopa pulsed laser source

Our company provides 20W to 500W full-power range pulse width adjustable MOPA nanosecond pulsed laser products, including the GM series that is compatible with domestic similar products, the high-brightness GMZ series that is compatible with imported products, and the ultra-high peak coverage for special applications. GT series with second pulse width, and GMC series for laser cleaning.

## Ultrafast pulsed laser source

Our company provides picosecond and femtosecond fiber mode-locked seed sources for 1064nm band and 1030nm band with optional acousto-optic down-frequency and amplification power, suitable for solid-state amplifier seed sources and ultra-fast marking applications.

## Air-cooled continuous laser source

Our company provides 10W to 300W air-cooled continuous laser products, using 10/130 or 14/250 fiber system to ensure near single-mode beam quality output, optional QCS/QBH output head specifications, can be used for IC marking, precision cutting and welding and 3D Printing field. The 150W air-cooled QCW product has excellent beam quality and a wide range of adjustable pulse width. It is suitable for precision welding and cutting applications of metals/ceramics and other materials.

## Research customized laser source

Our company has rich experience in research and development of customized laser products, including high average power narrow linewidth single-mode lasers, 2um band medical surgery and plastic welding lasers, polarization-maintaining single-frequency laser amplifiers, 1064nm/1550nm radar light sources, etc. A variety of customized laser source products.

## Solid UV and Green Laser source

Based on the end-pumped Q-switched nanosecond intracavity frequency doubling laser, it can realize green and ultraviolet laser output, and is suitable for marking, cutting and drilling applications of glass, plastic, silicon wafer, PCB, ceramics and other materials.

## 1-1 20W/30W GM系列脉冲光纤激光器

1-1 20W / 30W GM SERIES PULSED FIBER LASER

### 01 产品特点

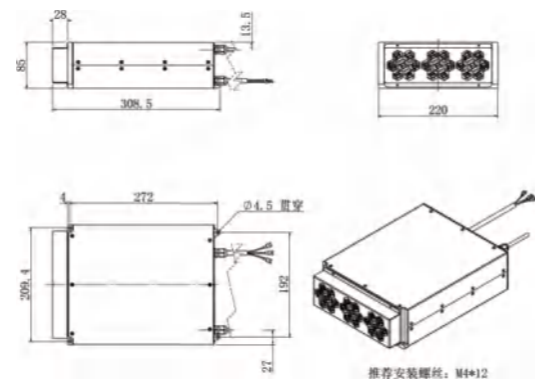
Characteristics

- 脉宽可调  
Pulse Width Tunable
- 频率可调  
Frequency Tunable
- 首脉冲可调  
First Pulse Tunable



### 02 主要应用

Applications



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-20/30-GM
最大功率	Max. Average Power	W	20/30
最大能量	Max. Pulse Energy	mJ	0.8
频率范围	Frequency Range	kHz	1 ~ 3000
脉冲宽度	Pulse Width	ns	2 ~ 500
光束质量	Beam Quality M <sup>2</sup>		<1.35
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	6.0 ~ 8.0
铠缆长度	Delivery Cable Length	m	2.0
电 压	DC Voltage	V	24
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

## 1-2 60W/70W/80W GM系列脉冲光纤激光器

1-2 60W/70W/80W GM SERIES PULSED FIBER LASER

### 01 产品特点

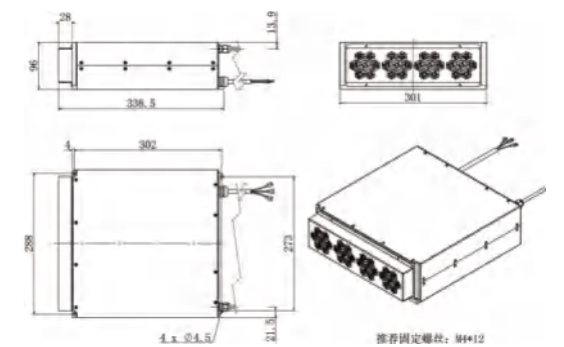
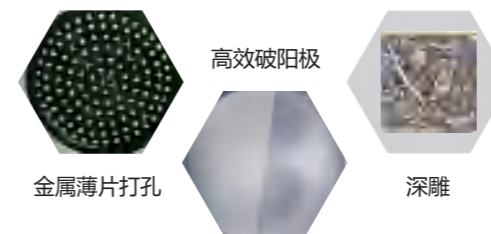
Characteristics

- 脉宽可调  
Pulse Width Tunable
- 频率可调  
Frequency Tunable
- 大单脉冲能量  
Large Single Pulse Energy



### 02 主要应用

Applications



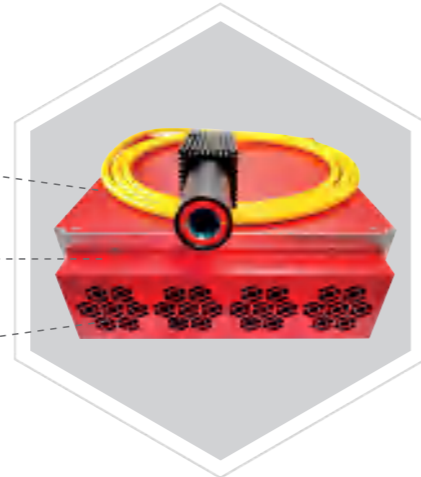
技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-60/70/80-GM
最大功率	Max. Average Power	W	60/70/80
最大能量	Max. Pulse Energy	mJ	2.0
频率范围	Frequency Range	kHz	1 ~ 3000
脉冲宽度	Pulse Width	ns	2 ~ 500
光束质量	Beam Quality M <sup>2</sup>		< 1.8
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	6.0 ~ 8.0
铠缆长度	Delivery Cable Length	m	3.0
电 压	DC Voltage	V	48
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

### 1-3 100W/120W GM系列脉冲光纤激光器

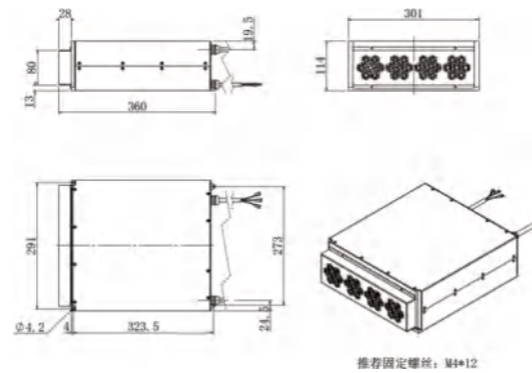
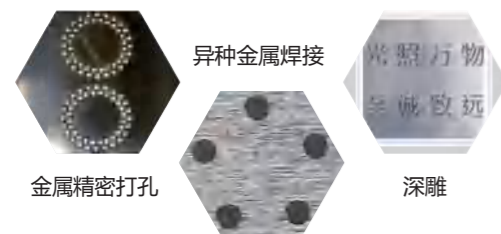
1-3 100W/120W GM SERIES PULSED FIBER LASER

#### 01 产品特点 Characteristics

- 大单脉冲能量  
Large Single Pulse Energy
- 兼容连续工作模式  
CW Mode Compatible
- 脉宽/峰值/光斑定制  
Parameters Customizable



#### 02 主要应用 Applications



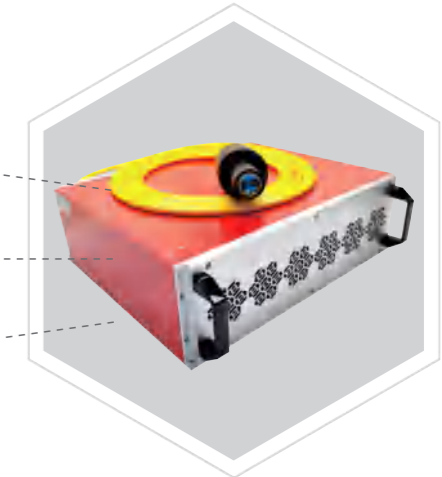
技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-100/120-GM
最大功率	Max. Average Power	W	100/120
最大能量	Max. Pulse Energy	mJ	2.0
频率范围	Frequency Range	kHz	1 ~ 3000
脉冲宽度	Pulse Width	ns	2 ~ 500
光束质量	Beam Quality M <sup>2</sup>		< 1.8
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	6.0 ~ 8.0
铠缆长度	Delivery Cable Length	m	3.0
电 压	DC Voltage	V	48
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

### 1-4 200W/250W GM系列脉冲光纤激光器

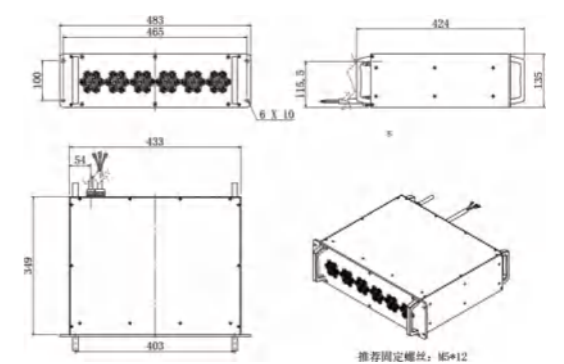
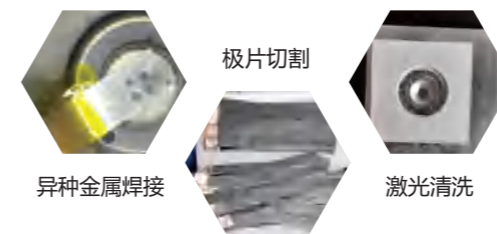
1-4 200W/250W GM SERIES PULSED FIBER LASER

#### 01 产品特点 Characteristics

- 大单脉冲能量  
Large Single Pulse Energy
- 兼容连续工作模式  
CW Mode Compatible
- 风冷设计  
Air Cooling



#### 02 主要应用 Applications



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-200/250-GM
最大功率	Max. Average Power	W	200/250
最大能量	Max. Pulse Energy	mJ	2.0
频率范围	Frequency Range	kHz	1 ~ 3000
脉冲宽度	Pulse Width	ns	2 ~ 500
光束质量	Beam Quality M <sup>2</sup>		< 1.8
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	6.0 ~ 8.0
铠缆长度	Delivery Cable Length	m	3.0
电 压	DC Voltage	V	48
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

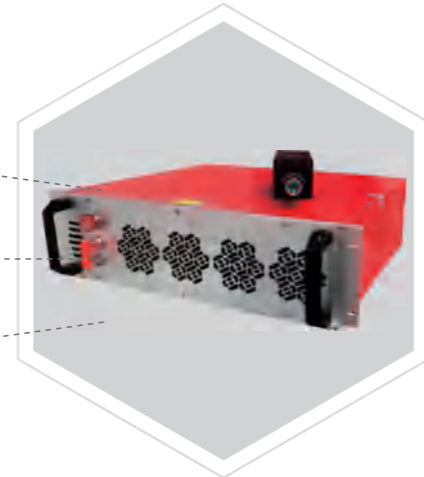
## 1-5 300W/350W GM系列脉冲光纤激光器

1-5 300W/350W GM SERIES PULSED FIBER LASER

### 01 产品特点

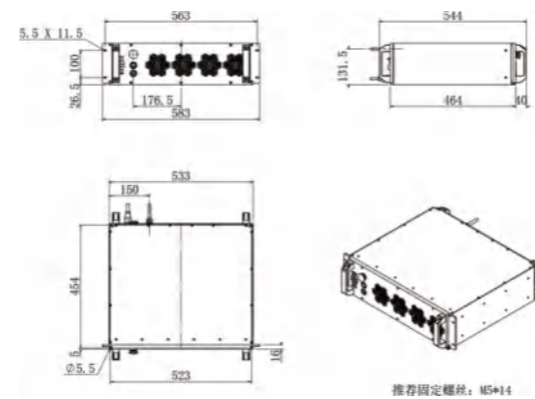
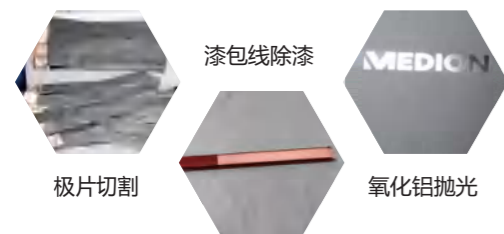
Characteristics

- 大单脉冲能量  
Large Single Pulse Energy
- 脉宽可调  
Pulse Width Tunable
- 频率可调  
Frequency Tunable



### 02 主要应用

Applications



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-300/350-GM
最大功率	Max. Average Power	W	300/350
最大能量	Max. Pulse Energy	mJ	2
频率范围	Frequency Range	kHz	1 ~ 3000
脉冲宽度	Pulse Width	ns	20 ~ 500
光束质量	Beam Quality $M^2$		< 1.8
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	6.0 ~ 8.0
铠缆长度	Delivery Cable Length	m	3
电 压	DC Voltage	V	220
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

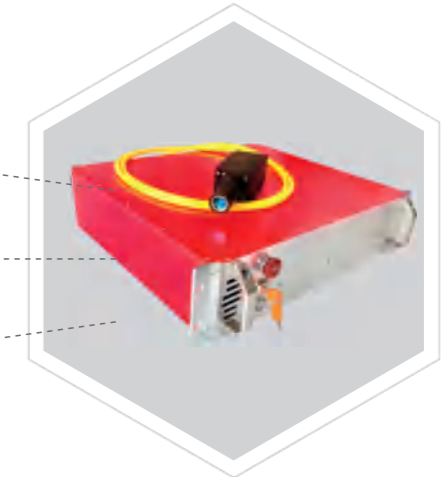
## 1-6 500W GM系列脉冲光纤激光器

1-6 500W GM SERIES PULSED FIBER LASER

### 01 产品特点

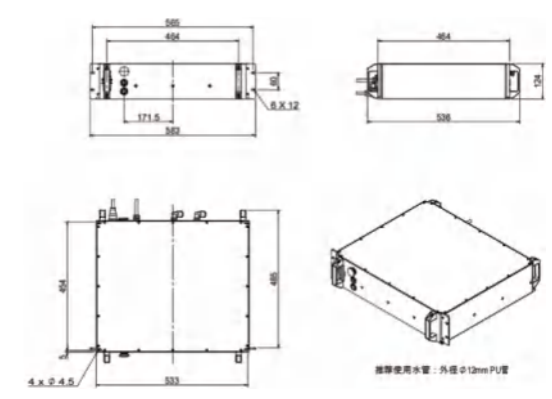
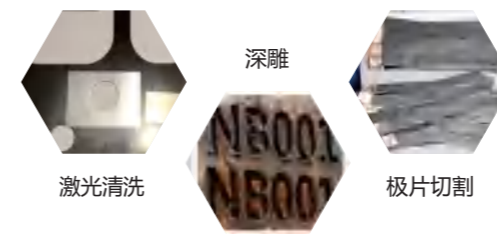
Characteristics

- 高功率  
High Power
- 单模  
Single Mode
- 大单脉冲能量  
Large Single Pulse Energy



### 02 主要应用

Applications



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-500-GM
最大功率	Max. Average Power	W	500
最大能量	Max. Pulse Energy	mJ	2
频率范围	Frequency Range	kHz	1 ~ 4000
脉冲宽度	Pulse Width	ns	20 ~ 500
光束质量	Beam Quality $M^2$		< 1.8
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	9~11
铠缆长度	Delivery Cable Length	m	3
电 压	DC Voltage	V	220
冷却方式	Cooling Method		Water
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

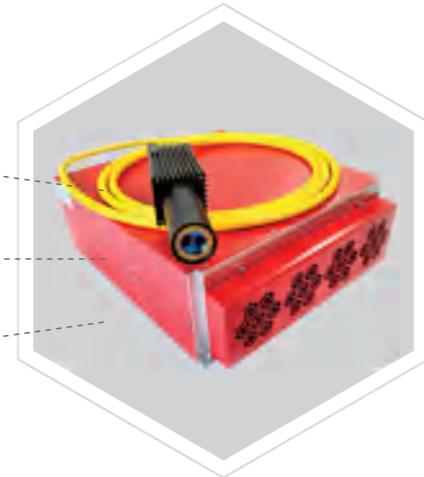
## 1-7 50W/60W/70W/80W/100W GL系列脉冲光纤激光器

1-7 50W/60W/70W/80W/100W GL SERIES PULSED FIBER LASER

### 01 产品特点

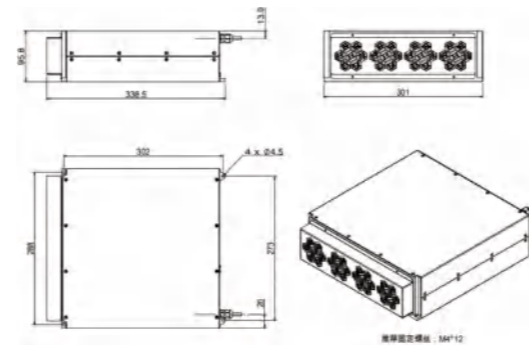
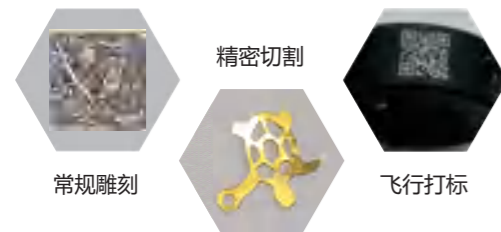
Characteristics

- 优化的波形  
Optimized Waveform
- 频率范围大  
Wide Frequency Range
- 高性价比  
Cost-effective



### 02 主要应用

Applications



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-50/60/70/80/100-GL
最大功率	Max. Average Power	W	50/60/70/80/100
最大能量	Max. Pulse Energy	mJ	1.5
频率范围	Frequency Range	kHz	1 ~ 1000
脉冲宽度	Pulse Width	ns	150~ 300
光束质量	Beam Quality M <sup>2</sup>		<1.8
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	6.0 ~ 8.0
铠缆长度	Delivery Cable Length	m	3
电 压	DC Voltage	V	48
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

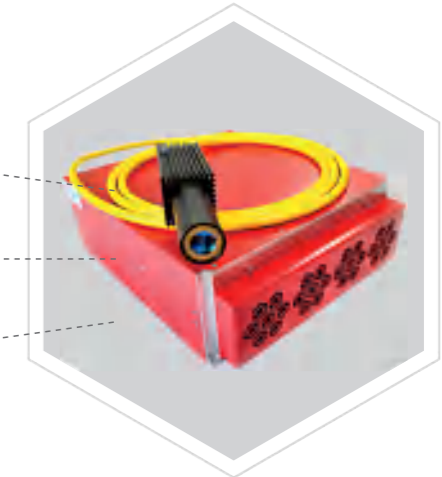
## 1-8 60W/70W/80W/100W GME系列脉冲光纤激光器

1-8 60W/70W/80W/100W GME SERIES PULSED FIBER LASER

### 01 产品特点

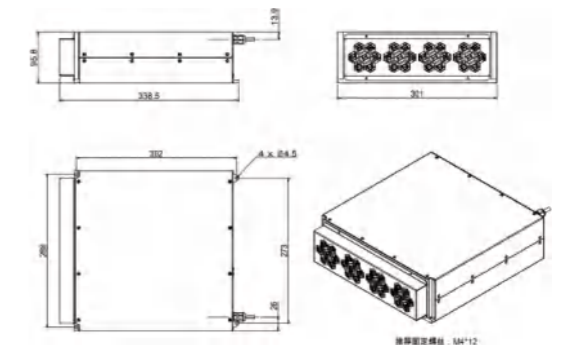
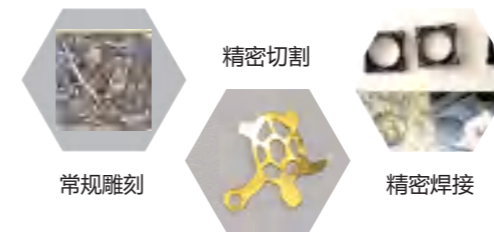
Characteristics

- 脉宽可调2~500ns  
Pulse Width Adjustable 2~500ns
- 频率范围大  
Wide Frequency Range
- 高性价比  
Cost-effective



### 02 主要应用

Applications



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-60/70/80/100-GME
最大功率	Max. Average Power	W	60/70/80/100
最大能量	Max. Pulse Energy	mJ	1.5
频率范围	Frequency Range	kHz	1 ~ 3000
脉冲宽度	Pulse Width	ns	2 ~ 500
光束质量	Beam Quality M <sup>2</sup>		<1.8
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	6.0~ 8.0
铠缆长度	Delivery Cable Length	m	3
电 压	DC Voltage	V	48
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

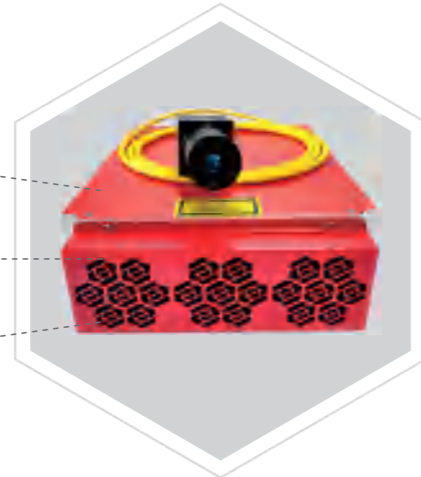
## 1-9 20/30W GMX系列脉冲光纤激光器

1-9 20W/30W GMX SERIES PULSED FIBER LASER

### 01 产品特点

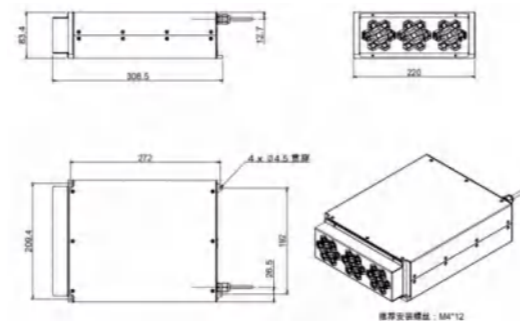
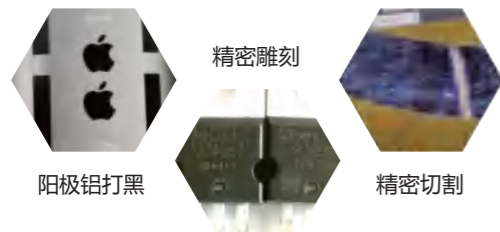
Characteristics

- 准皮秒  
Quasi-Picosecond
- 高峰值  
High Peak Power
- 高光束质量  
High Beam Quality



### 02 主要应用

Applications



技术参数 Technical Parameters	单位 Unit	指标 Specifications
产品型号 Product Model		YFPP-20/30-GMX
最大功率 Max. Average Power	W	20/30
最大能量 Max. Pulse Energy	mJ	1
频率范围 Frequency Range	kHz	1 ~ 3000
脉冲宽度 Pulse Width	ns	0.5 ~ 500
光束质量 Beam Quality $M^2$		<1.5
中心波长 Central Wavelength	nm	1060 ~ 1080
光斑直径 Collimated Beam Diameter	mm	6.0 ~ 8.0
铠缆长度 Delivery Cable Length	m	1.5
电压 DC Voltage	V	24
冷却方式 Cooling Method		Air
工作温度 Operating Temperature	°C	0 ~ 40
存储温度 Storage Temperature	°C	-10 ~ 60

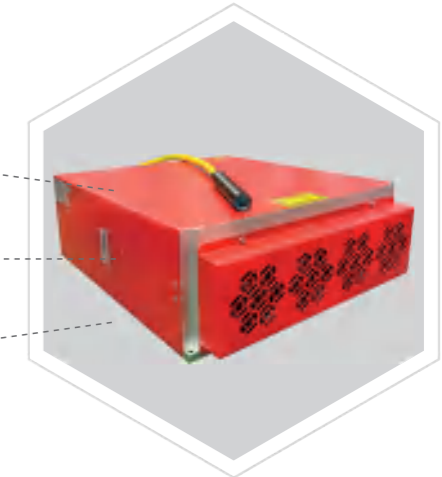
## 1-10 100W GMC系列脉冲光纤激光器

1-10 100W GMC SERIES PULSED FIBER LASER

### 01 产品特点

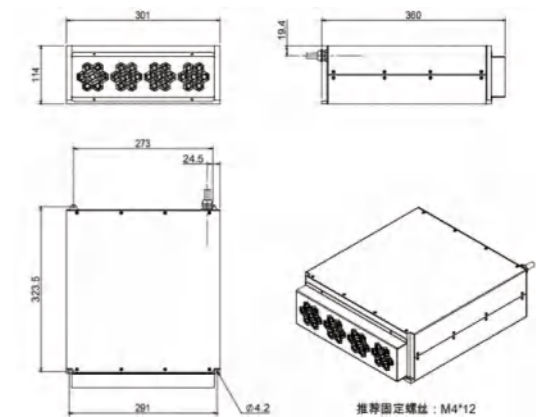
Characteristics

- 小输出头  
Mini QCS Output
- 长光缆输出  
Long Fiber Optic Output
- 大单脉冲能量  
Large Single Pulse Energy



### 02 主要应用

Applications



技术参数 Technical Parameters	单位 Unit	指标 Specifications
产品型号 Product Model		YFPN-100-GMC
最大功率 Max. Average Power	W	100
最大能量 Max. Pulse Energy	mJ	2
频率范围 Frequency Range	kHz	1 ~ 3000
脉冲宽度 Pulse Width	ns	10 ~ 500
光束质量 Beam Quality $M^2$		<2.5
中心波长 Central Wavelength	nm	1060 ~ 1080
光斑直径 Collimated Beam Diameter	mm	4 ~ 5
铠缆长度 Delivery Cable Length	m	5
电压 DC Voltage	V	48
冷却方式 Cooling Method		Air
工作温度 Operating Temperature	°C	0 ~ 40
存储温度 Storage Temperature	°C	-10 ~ 60

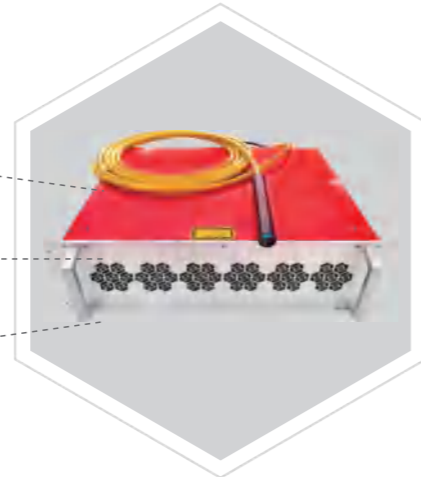
## 1-11 200W GMC系列脉冲光纤激光器

1-11 200W GMC SERIES PULSED FIBER LASER

### 01 产品特点

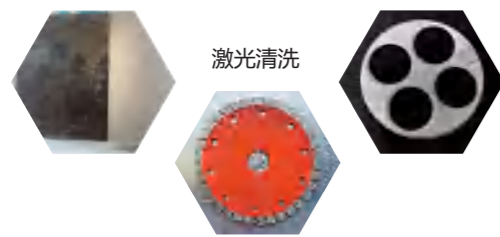
Characteristics

- 大单脉冲能量  
Large Single Pulse Energy
- 准直头输出  
QCS Output
- 风冷设计  
Air Cooling

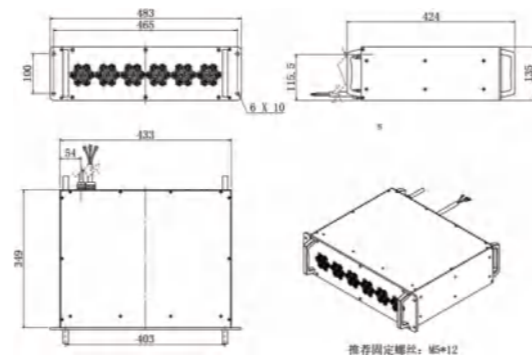


### 02 主要应用

Applications



激光清洗



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-200-GMC
最大功率	Max. Average Power	W	200
最大能量	Max. Pulse Energy		2/5
光束质量	Beam Quality M <sup>2</sup>		< 2.5/< 6
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	5 ~ 6
铠缆长度	Delivery Cable Length	m	5
电 压	DC Voltage	V	48
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

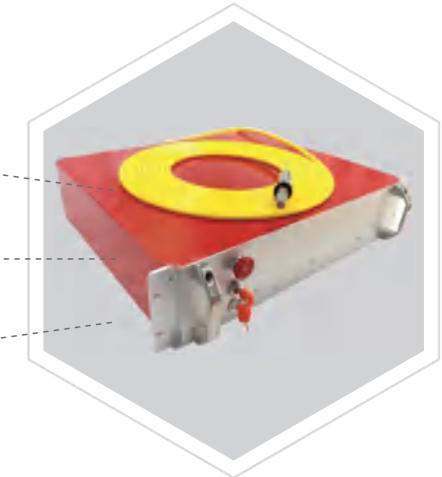
## 1-12 200W/300W/500W GMC系列脉冲光纤激光器

1-12 200W/300W/500W GMC SERIES PULSED FIBER LASER

### 01 产品特点

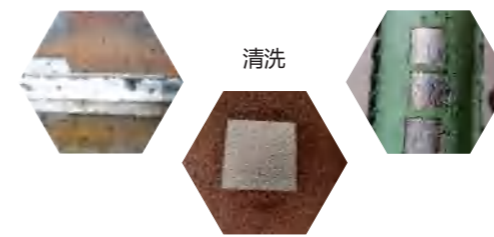
Characteristics

- QBH 输出  
QBH Output
- 10m光纤  
10m Fiber
- 大单脉冲能量  
Large Single Pulse Energy

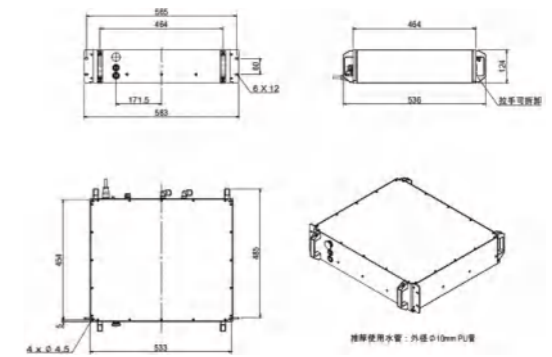


### 02 主要应用

Applications



清洗



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-200/300/500-GMC
最大功率	Max. Average Power	W	200/300/500
最大能量	Max. Pulse Energy	mJ	12
频率范围	Frequency Range	kHz	1 ~ 3000
脉冲宽度	Pulse Width	ns	10 ~ 500
光束质量	Beam Quality M <sup>2</sup>		<15
中心波长	Central Wavelength	nm	1060 ~ 1080
发 散 角	Divergence	mrad	<200
铠缆长度	Delivery Cable Length	m	10
电 压	DC Voltage	V	220
冷却方式	Cooling Method		Water
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

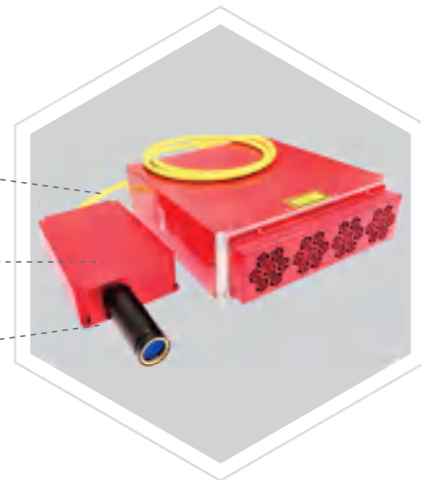


## 1-13 20W/50W GT系列脉冲光纤激光器

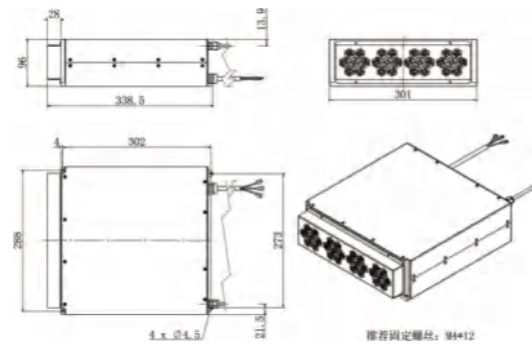
1-13 20W/50W GT SERIES PULSED FIBER LASER

### 01 产品特点 Characteristics

- 高峰值  
High Peak Power
- 脉宽低至200ps  
Min Pulse Width 200ps
- 脉宽可调范围大  
Large Adjustable Range Of Pulse Width



### 02 主要应用 Applications



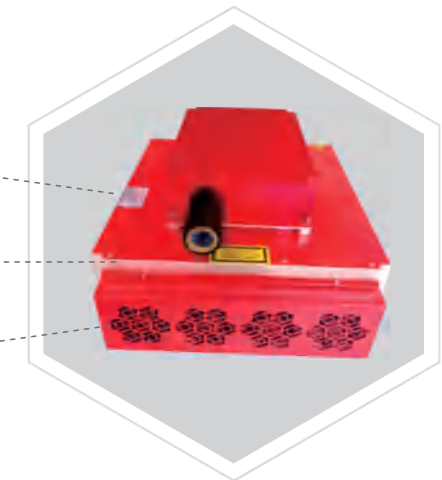
技术参数 Technical Parameters	单位 Unit	指标 Specifications
产品型号 Product Model		YFPP-20/50-GT
最大功率 Max. Average Power	W	20/50
最大能量 Max. Pulse Energy	mJ	1
频率范围 Frequency Range	kHz	1 ~ 3000
脉冲宽度 Pulse Width	ns	0.2 ~ 500
光束质量 Beam Quality $M^2$		<1.5
中心波长 Central Wavelength	nm	1060 ~ 1080
光斑直径 Collimated Beam Diameter	mm	6~8
铠缆长度 Delivery Cable Length	m	2
电 压 DC Voltage	V	24/48
冷却方式 Cooling Method		Air
工作温度 Operating Temperature	°C	0 ~ 40
存储温度 Storage Temperature	°C	-10 ~ 60

## 1-14 80W/120W GT系列脉冲光纤激光器

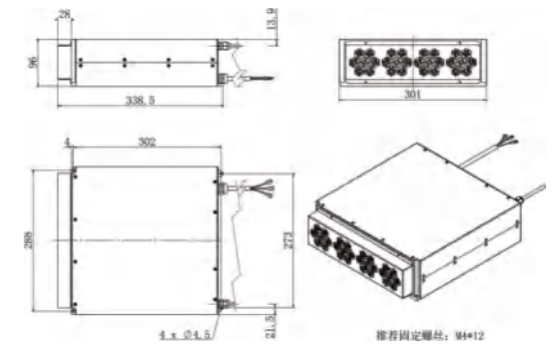
1-14 80W/120W GT SERIES PULSED FIBER LASER

### 01 产品特点 Characteristics

- 高峰值  
High Peak Power
- 窄脉宽  
Narrow Pulse Width
- 大单脉冲能量  
Large Single Pulse Energy



### 02 主要应用 Applications



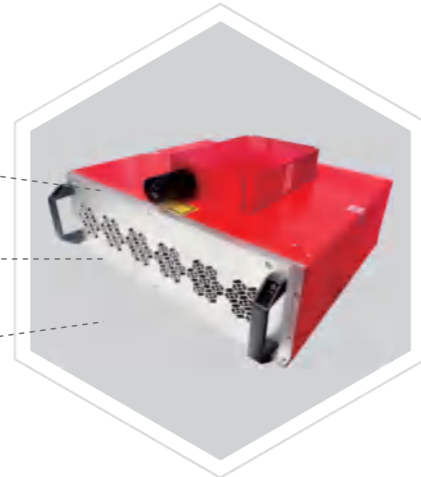
技术参数 Technical Parameters	单位 Unit	指标 Specifications
产品型号 Product Model		YFPN-80/120-GT
最大功率 Max. Average Power	W	80/120
最高峰值 Max. Peak Power	kW	80
频率范围 Frequency Range	kHz	1 ~ 3000
脉冲宽度 Pulse Width	ns	2 ~ 50
光束质量 Beam Quality $M^2$		<1.5
中心波长 Central Wavelength	nm	1060 ~ 1080
光斑直径 Collimated Beam Diameter	mm	5.0 ~ 7.0
铠缆长度 Delivery Cable Length	m	3
电 压 DC Voltage	V	48
冷却方式 Cooling Method		Air
工作温度 Operating Temperature	°C	0 ~ 40
存储温度 Storage Temperature	°C	-10 ~ 60

## 1-15 200W GT系列脉冲光纤激光器

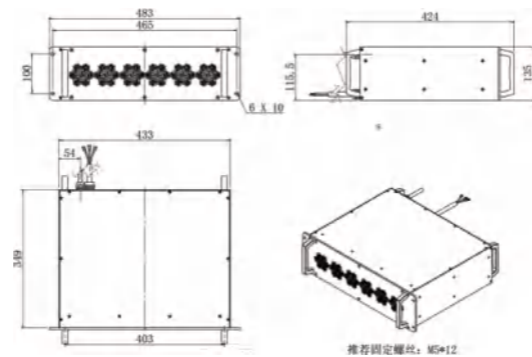
1-15 200W GT SERIES PULSED FIBER LASER

### 01 产品特点 Characteristics

- 高峰值  
High Peak Power
- 窄脉宽  
Narrow Pulse Width
- 大单脉冲能量  
Large Single Pulse Energy



### 02 主要应用 Applications

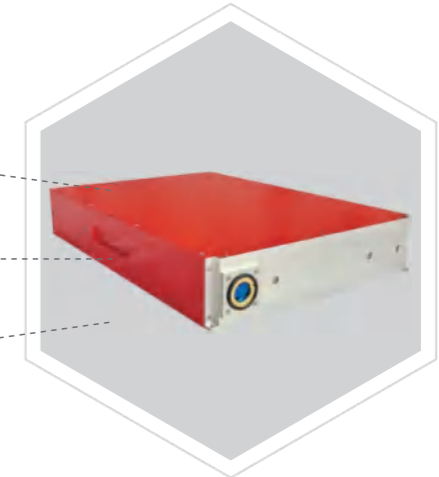


## 1-16 一体机 GT系列脉冲光纤激光器

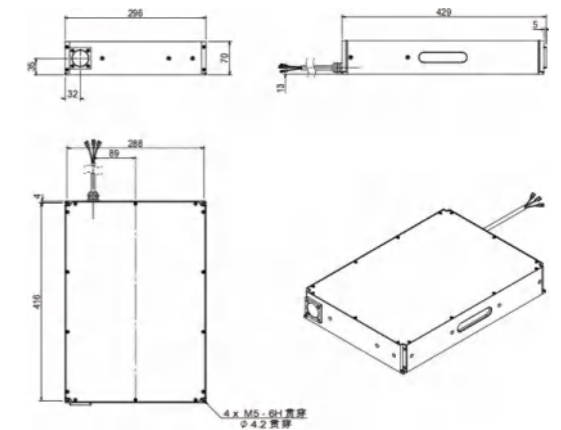
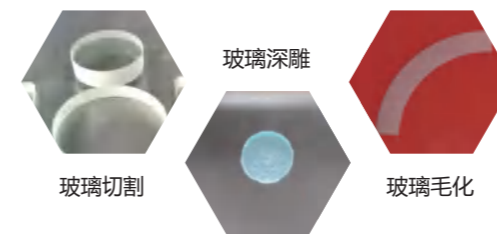
1-16 ALL-IN-ONE GT SERIES PULSED FIBER LASER

### 01 产品特点 Characteristics

- 高峰值  
High Peak Power
- 窄脉宽  
Narrow Pulse Width
- 大单脉冲能量  
Large Single Pulse Energy



### 02 主要应用 Applications



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFPN-200-GT
最大功率	Max. Average Power	W	200
最高峰值	Max. Peak Power	kW	60
频率范围	Frequency Range	kHz	1 ~ 3000
脉冲宽度	Pulse Width	ns	2 ~ 50
光束质量	Beam Quality $M^2$		<1.5
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	5.0 ~ 7.0
铠缆长度	Delivery Cable Length	m	3
电压	DC Voltage	V	48
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		F-80/200-GT
最大功率	Max. Average Power	W	80/200
最大能量	Max. Pulse Energy	mJ	0.8/1
频率范围	Frequency Range	kHz	1 ~ 3000
脉冲宽度	Pulse Width	ns	2 ~ 50
光束质量	Beam Quality $M^2$		<1.5
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	3/6/10
电压	DC Voltage	V	48
冷却方式	Cooling Method		Water
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

## 1-17 10W CWZ系列连续光纤激光器

1-17 10W CWZ SERIES CW FIBER LASER

### 01 产品特点

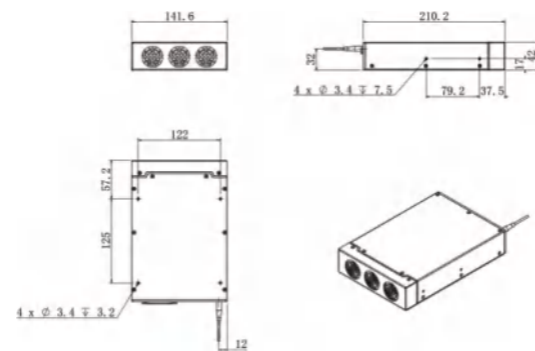
Characteristics

- 高光束质量  
High Beam Quality
- 结构紧凑  
Compactness
- 高速调制工作  
High Repetition Modulation



### 02 主要应用

Applications



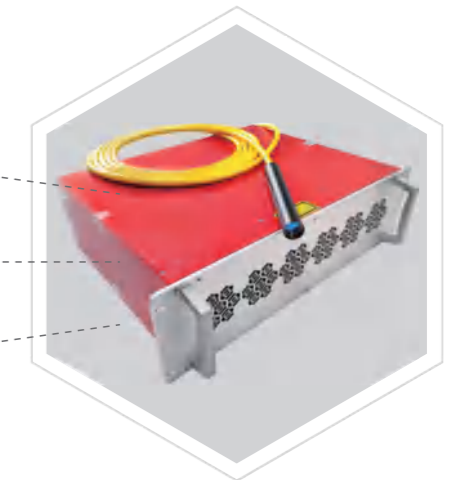
## 1-18 200W/300W CWZ系列连续光纤激光器

1-18 200W/300W CWZ SERIES CW FIBER LASER

### 01 产品特点

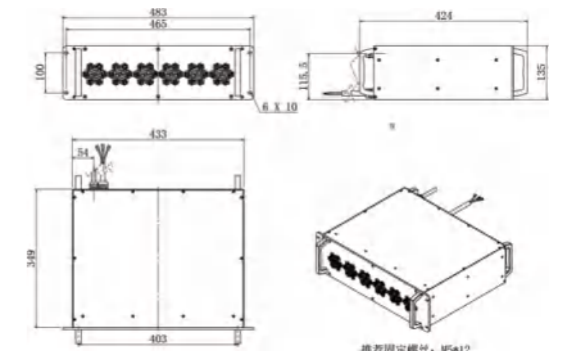
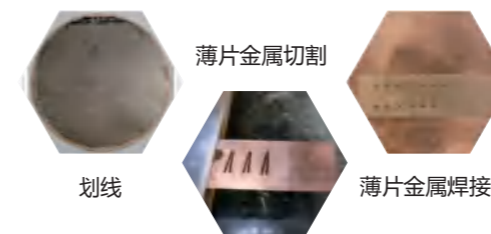
Characteristics

- 高光束质量  
High Beam Quality
- 风冷  
Air Cooling
- 结构紧凑  
Compactness



### 02 主要应用

Applications



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFCW-10-SM
最大功率	Max. Average Power	W	10
光谱宽度	Spectral Width	nm	<5
功率调节范围	Power Tuning Range	%	10-100
输出功率稳定度	Power Stability	%	<3
光束质量	Beam Quality M <sup>2</sup>		<1.2
中心波长	Central Wavelength	nm	1060 ~ 1080
光斑直径	Collimated Beam Diameter	mm	2.5 ~ 3.5
铠缆长度	Delivery Cable Length	m	3
电 压	DC Voltage	V	24
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0 ~ 40
存储温度	Storage Temperature	°C	-10 ~ 60

技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFCW-200/300-SM
最大功率	Max. Average Power	W	200/300
光谱宽度	Spectral Width	nm	<5
功率调节范围	Power Tuning Range	%	10-100
输出功率稳定度	Power Stability	%	<3
光束质量	Beam Quality M <sup>2</sup>		<1.2
中心波长	Central Wavelength	nm	1060~1080
光斑直径	Collimated Beam Diameter	mm	5.0 ~ 7.0
铠缆长度	Delivery Cable Length	m	5
电 压	DC Voltage	V	48
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0~40
存储温度	Storage Temperature	°C	-10~60

## 1-19 准连续 QCW 光纤激光器

1-19 QCW FIBER LASER

### 01 产品特点

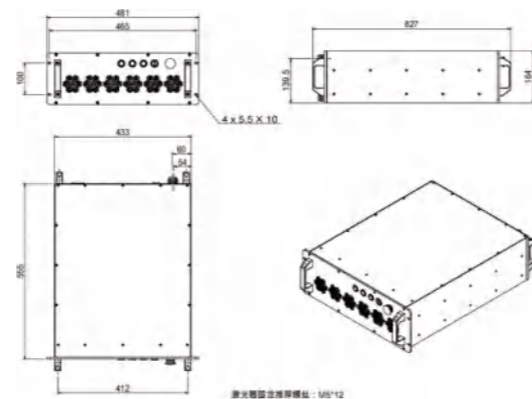
Characteristics

- 大能量  
Large Pulse Energy
- 高峰值  
High Peak Power
- 低功率  
Low Power



### 02 主要应用

Applications



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		YFQCW-150-SM
最大功率	Max. Average Power	W	150
最大峰值功率	Max. Peak Power	W	1500
占空比	Duty	%	≤50
最大单脉冲能量	Max. Pulse Energy	J	15
调制频率范围	Repetition Rate Range	kHz	0~20
脉冲宽度	Pulse Width	ms	0.02~50
光束质量	Beam Quality M <sup>2</sup>		<1.2
中心波长	Central Wavelength	nm	1075~1085
QBH发散角	QBH Divergence Angle	mrad	<120
光斑直径(QCS)	Collimated Beam Diameter	mm	5.5~6.5
铠缆长度	Delivery Cable Length	m	5
电 压	DC Voltage	V	220
冷却方式	Cooling Method		Air
工作温度	Operating Temperature	°C	0~40
存储温度	Storage Temperature	°C	-10~60

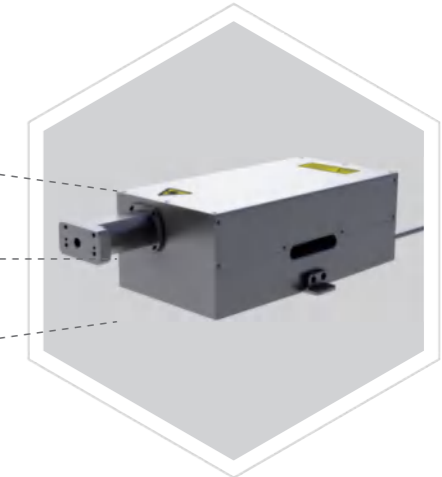
## 1-20 固体紫外激光器

1-20 SOLID UV LASER

### 01 产品特点

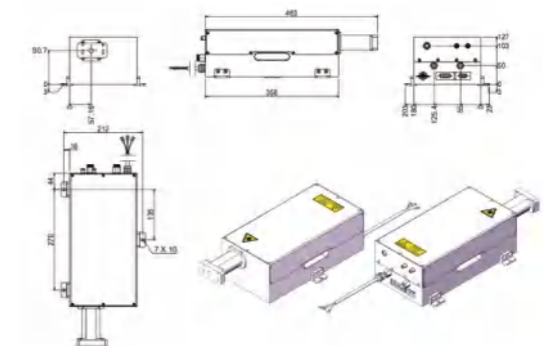
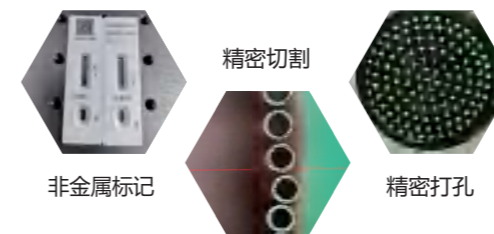
Characteristics

- 结构紧凑  
Compact Structure
- 高光束质量  
High Beam Quality
- 高平均功率  
High Average Power



### 02 主要应用

Applications



技术参数 Technical Parameters		单位 Unit	指标 Specifications
产品型号	Product Model		S-5/10/15-355-N1
平均功率	Max. Average Power	W	5/10/15
单脉冲能量	Pulse Energy	μJ	>100 / >200 / >300
频率范围	Frequency Range	kHz	20~200
脉冲宽度	Pulse Width	ns	<30
光束质量	Beam Quality M <sup>2</sup>		<1.2
光斑直径(8X)	Collimated Beam Diameter (8X)	mm	4±0.5
光斑椭圆度	Collimated Beam Ellipticity	%	>90
中心波长	Central Wavelength	nm	355
偏振方向	Polarization Direction		水平
功率稳定性	Power Stability	RMS	<3%
脉冲稳定性	Pulse Stability	RMS	<3%
电 压	DC Voltage	V	24
冷却方式	Cooling Method		Water
工作温度	Operating Temperature	°C	15~35
存储温度	Storage Temperature	°C	-10~50

# LASER APPLICATION EXAMPLES



## Marking

01

Metal  
Black, white, color marking, 3C electronic products anode broken and bright surface marking  
Non metal  
Ceramics ,silicon ,QR codes and logos marking ,5G filter silver layer removal )  
Polymer Materials  
Mark QR code, words and logos on PCB board, plastic caps, leather, etc.

## Deep Engrave

04

Deep engraving of stainless steel, copper, aluminum and other metal materials  
Deep carving of brittle materials such as glass, ceramics, silicon wafers, etc.

## Cutting

02

Metal  
Precision punching and cutting of high-reflection metal sheets, precision cutting of composite materials such as tabs  
Precise scribing and cutting of wafers, ceramics, silicon wafers, cutting of glass and diamond tools

## Cleaning

05

Metal  
Precision cleaning of different types of metal materials such as molds,ships, auto parts, etc. mainly used to remove rust, coating and oil on the surface of the material  
Non metal  
Remove the brittle screen material of the 3C electronic products and the surface coating of the outer cover of the glass

## welding

03

Metal  
Precision welding of dissimilar metal materials, precision welding of metal materials for 3C electronic products, Precision welding of battery tabs, etc.

## Lithium battery

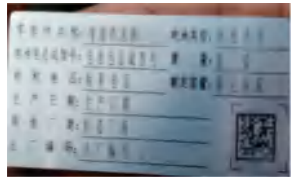
06

Pole piece cutting  
In response to the high-speed production of power batteries, it can meet the requirements of  $\geq 70\text{m/min}$  copper foil, aluminum foil, graphite, ceramics and various materials  
High-speed high-quality cutting  
Pole cleaning  
Cleaning the oxide layer on the surface of aluminum and copper before and after welding to improve welding quality  
Welding  
Thin metal welding such as cylindrical tabs, FPC connecting pieces, etc.

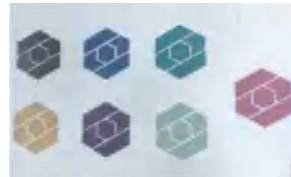
## MOPA激光器标记工艺应用案例

MOPA LASER MARKING APPLICATIONS

### > Metal marking/engraving



纯铝铭牌标记



不锈钢标记彩色



3C产品外壳标记  
亮光面LOGO



3C电子产品标记  
黑色二维码

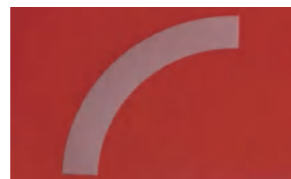
### > Brittle material marking



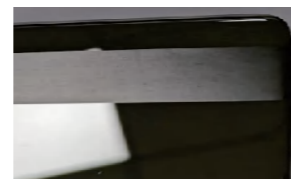
5G陶瓷滤波器标记



玻璃表面  
二维码标记

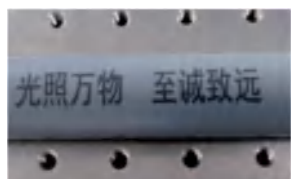


玻璃磨砂



黑色亮光面陶瓷表面  
磨砂纹标记

### > Polymer material marking/engraving



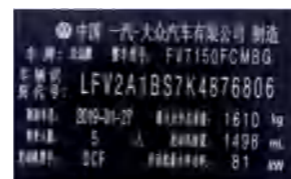
PVC管标记



黑色塑胶壳  
标记白色字体



ITO薄膜蚀刻划线



黑色涂层纸标记铭牌及logo



白色硅胶外壳标记黑色二维码



塑胶按键表面标记白色字体及logo



塑胶键盘表面标记透光字体



塑胶键盘表面标记透光字体

## MOPA激光器切割工艺应用案例

MOPA LASER CUTTING APPLICATIONS

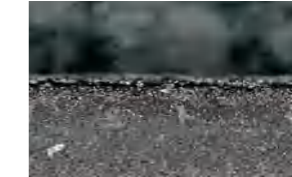
### > Metal material cutting



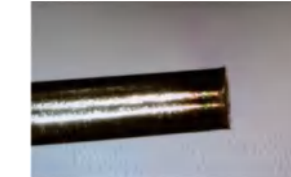
黄铜切割



镜面不锈钢切割



电池极耳切割



镍管切割

### > Metal material punching



不锈钢片打锥孔



铝管高效打孔



铜箔精密打孔



±0.05mm

### > Brittle material cutting



晶圆片划线



太阳能硅片划线



玻璃打孔



金刚石刀头切割



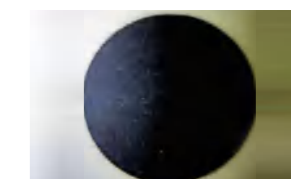
晶圆片打孔



晶圆片打孔



陶瓷片打孔



陶瓷片打孔

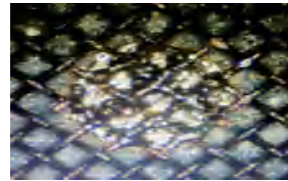
## MOPA激光器焊接工艺应用案例

MOPA LASER WELDING APPLICATIONS

### > Metal material welding



手机摄像头模组焊接



不锈钢网焊接



黄铜焊接紫铜螺旋纹焊斑



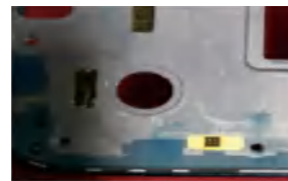
3C产品不锈钢片焊接镍板



3C产品镍片与镍片焊接



3C产品镍片与镍片焊接



手机中框黄铜焊接铝板

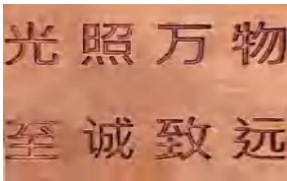


手机中框黄铜焊接铝板

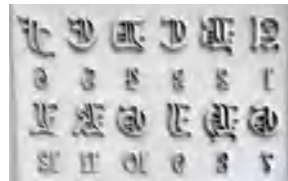
## MOPA激光器深雕工艺应用案例

MOPA LASER ENGRAVING APPLICATIONS

### > Metal material deep engraving



紫铜板深雕



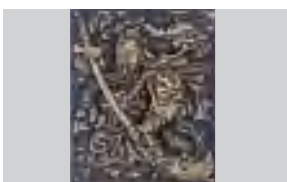
铝深雕



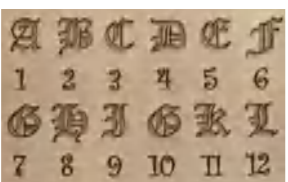
不锈钢手表盖深雕



模具钢高效深雕



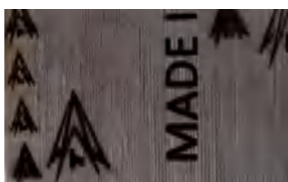
紫铜板深雕



黄铜深雕



黄铜深雕



工具钢深雕

### > Brittle material deep engraving



陶瓷手表盖深雕



陶瓷手表盖深雕



陶瓷水杯深雕



玻璃深雕

## MOPA激光器清洗工艺应用案例

MOPA LASER CLEANING APPLICATIONS

### > Metal material cleaning



不锈钢模具清洗



漆包线清洗



不锈钢焊缝氧化层清洗



锯片清洗

### > Brittle material cleaning



玻璃表面油漆清洗



玻璃管表层油墨清洗



手机玻璃屏幕表面  
黑色油墨清洗

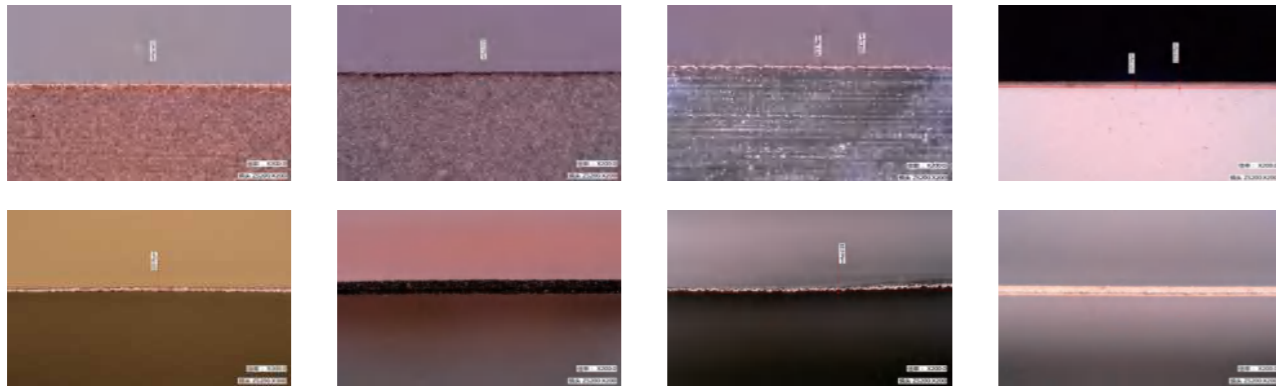


手机玻璃屏幕表面  
黑色油墨清洗

## MOPA激光器锂电工艺应用案例

MOPA LASER SOURCE APPLICATIONS ON LITHIUM BATTERY

### Cutting samples



铜箔

石墨

铝箔

陶瓷层

### Cleaning samples



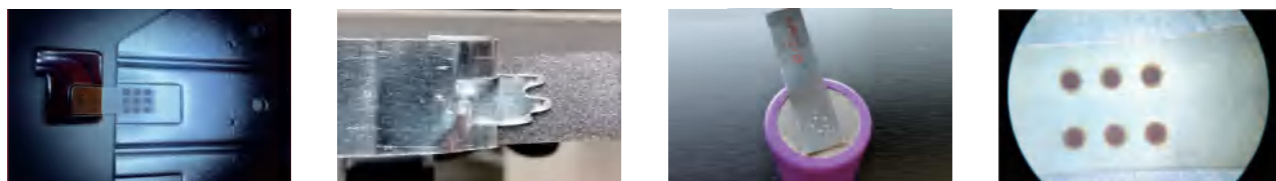
阳极涂层清洗

阴极涂层清洗

注液孔清洗

极柱清洗

### Welding samples



镍与铝

铝与不锈钢

铝与不锈钢

铜与铝

## HONOR & PATENT 荣誉与专利

Total 34 patents  
5 software copyright



2021年

Gazelle Enterprise  
High-tech enterprise honor  
"Annual Laser Industry Growth Enterprise Award"  
"Laser Industry Outstanding Progress Enterprise Award"

2020年

Gazelle Enterprise  
Wuhan Yellow Crane Talent Honor  
Enterprise Honor of Hubei Double Entrepreneurship Team

2019年

New Fourth Army  
Enterprise Gazelle Enterprise

2018年

Founded