**PULSED FIBER LASER**

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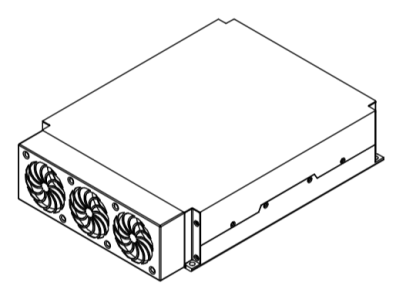
**INTRODUCTION**

GQM Series of pulsed fiber lasers are designed for high throughout industrial laser marking application. Compared to the traditional laser systems,the conversion efficiency from pump power to output power of fiber laser is 10 times higher. The low power consumption and compact design,benefited from the high efficiency and air cooling,makes the GQM Series the best choice for lab and industrial application,since it can be integrated into the customer equipment easily. GQM Series also have great immunity to EMI environment because of the full isolation between the control electronics and the customer interface,which brings convenience for system connection.

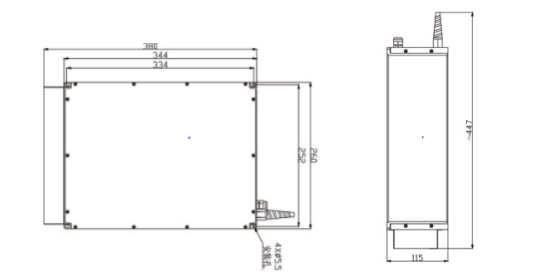
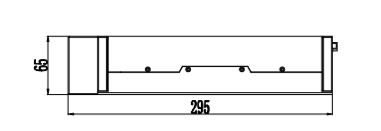
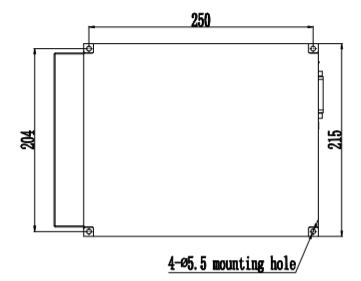
**FEATURES**

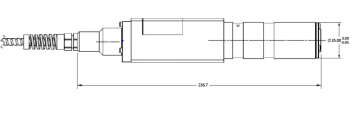
. Compact structure . Stable performance . Maintenance-free . High beam quality

**APPLICATION**

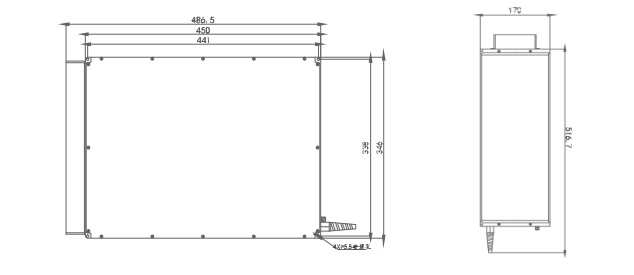
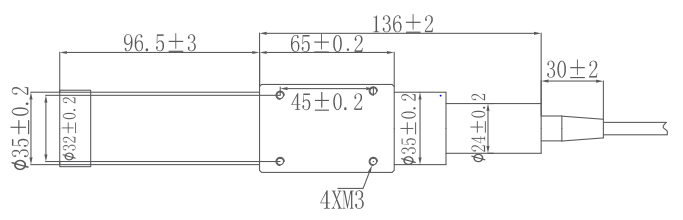
. Marking . Micromachining . Engraving . Scribing

**PRODUCT SIZE(mm)**

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30W/50W/75W 10W/20W

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100W

**SPECIFICATIONS**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **PARAMETERS** | **UNIT** | **GQM-010-0-W** | **GQM-020-0-W** | **GQM-030-0-W** | **GQM-050-0-H** | **GQM-075-0-H** | **GQM-100-0-H** |
| Center wavelength | nm | 1064±3 | 1064±3 | 1064±3 | 1064±3 | 1064±3 | 1064±3 |
| Beam quality | kHz | 20-80 | 30-80 | 25-80 | 50-100 | 75-150 | 100-200 |
| Single pulse energy | % | ﹤5 | ﹤5 | ﹤5 | ﹤5 | ﹤5 | ﹤5 |
| Polarization | mm | 7 | 7 | 7 | 7 | 7 | 7 |
| Pulse width | / | ﹤1.5 | ﹤1.5 | ﹤1.8 | ﹤1.8 | ﹤2.0 | ﹤2.0 |
| Band width | / | Random | Random | Random | Random | Random | Random |
| Repetition rate | ns | [90-110@20kHz](mailto:90-110@20kHz) | [110-130@30kHz](mailto:110-130@30kHz) | [90-110@25kHz](mailto:90-110@25kHz) | 90-110@50kHz | 120-140@75kHz | 150-200@100kHz |
| Average power | mJ | 0.6@20kHz | 0.65@30kHz | 1.10@25kHz | 1.05@50kHz | 1.05@75kHz | 1.05@100kHz |
| Output power tunability | m | 1.8±0.1 | 1.8±0.1 | 1.8±0.1 | 1.8±0.1 | 1.8±0.1 | 1.8±0.1 |
| Output fiber cable length▲ | % | 10-100 | 10-100 | 10-100 | 10-100 | 10-100 | 10-100 |
| Working voltage | V/DC | 24 | 24 | 24 | 24 | 24 | 24 |
| Powerconsumption | W | 80±10 | 110±10 | 150±15 | 200±15 | 300±15 | 400±15 |
| Cooling | / | Air Cooling | Air Cooling | Air Cooling | Air Cooling | Air Cooling | Air Cooling |
| Operating temperature | ℃ | 0-40 | 0-40 | 0-40 | 0-40 | 0-40 | 0-40 |
| Dimension（W×H×D） | mm | 215×65×295 | 215×65×295 | 260×115×380 | 260×115×380 | 260×115×380 | 346\*170\*486.5 |
| Weight | kg | 7.3 | 7.3 | 10 | 10 | 10 | 25 |
| ▲ CUSTOMIZED AVAILABLE | | | | | |  |  |

**LOW POWER CW FIBER LASER**

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**INTRODUCTION**

**GTL Series of continuous wave fiber lasers are designed for industrial materials processing application. This series of fiber laser are aimed to provide 5W to 30W CW laser power. It has the characteristics of high efficiency and high beam quality,simple structure.And the measured M² is usually below 1.1. This series of products are applied in the marking of IC chip and high quality optical source for scientific research,etc.**

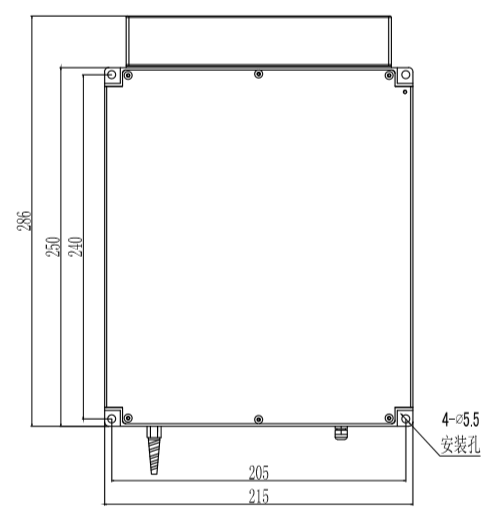
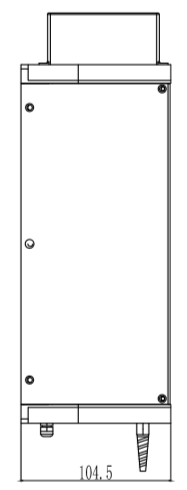
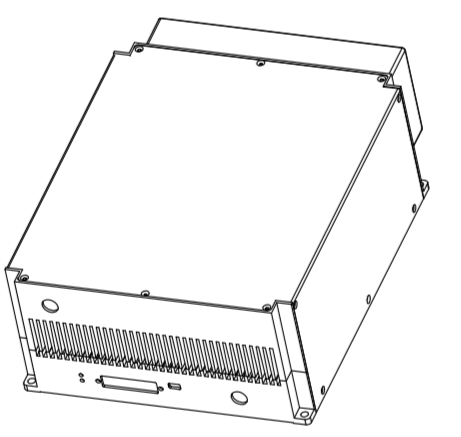
**FEATURES**

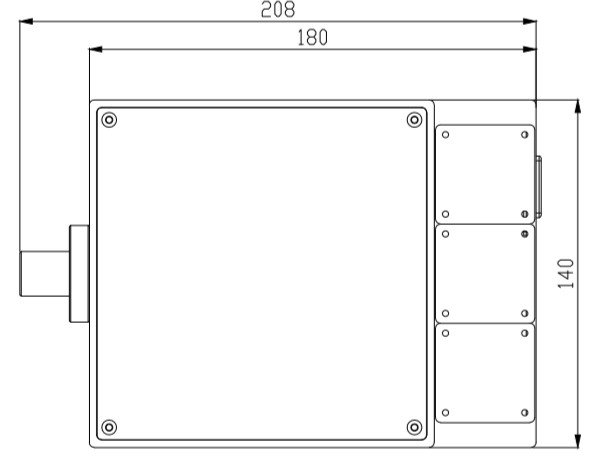
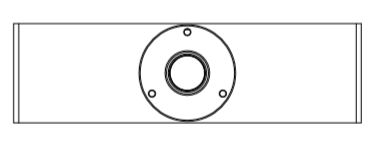
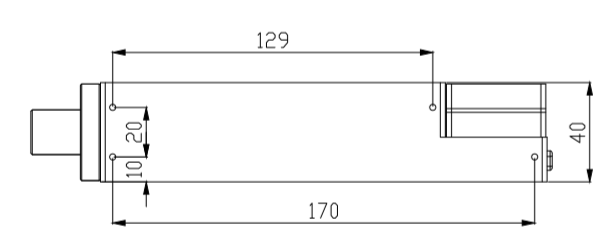
**. High efficiency . High beam quality . Maintenance-free . Fiber delivery output**

**APPLICATION**

**. Marking .Optical Component Test . Scientific research**

**PRODUCT SIZE(mm)**

**  **

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**SPECIFICATIONS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PARAMETERS** | **UNIT** | **GTL-005** | **GTL-010** | **GTL-020** | **GTL-030** |
| CENTRAL EMISSION WAVELENGTH | nm | 1080 | 1080 | 1080 | 1080 |
| BEAM QUALITY | M2 | ＜1.1 | ＜1.1 | ＜1.1 | ＜1.1 |
| OUTPUT POWER STABILITY | ％ | ±3 | ±3 | ±3 | ±3 |
| POLARIZATION | — | RANDOM | RANDOM | RANDOM | RANDOM |
| EMISSION BANDWIDTH | nm | ＜3 | ＜3 | ＜3 | ＜3 |
| MAX. MODULATION FREQUENCY | kHz | 10 | 10 | 10 | 10 |
| NOMINAL AVERAGE OUTPUT POWER | W | 5 | 10 | 20 | 30 |
| OUTPUT POWER TUNABILITY | ％ | 10-100 | 10-100 | 10-100 | 10-100 |
| OUTPUT FIBER DELIVERY LENGTH | m | 2 | 2 | 2 | 2 |
| OPERATING VOLTAGE | VDC | 24 | 24 | 24 | 24 |
| OPTICAL HEAD▲ |  | QCS | QCS | QCS | QCS |
| INPUT/OUTPUT INTERFACE |  | DB25 | DB25 | DB25 | DB25 |
| MAX.POWER CONSUMPTION ▲ | W | 30 | 70 | 90 | 110 |
| COOLING METHOD | — | AIR COOLING | AIR COOLING | AIR COOLING | AIR COOLING |
| AMBIENT TEMPERATURE | ℃ | 0-40 | 0-40 | 0-40 | 0-40 |
| DIMENSIONS (W\*H\*D) | mm | 140\*40\*180 | 140\*40\*180 | 215\*104.5\*286 | 215\*104.5\*286 |
| NET WEIGHT | kg | 2.5 | 2.5 | 5 | 5 |
| ▲ CUSTOMIZED AVAILABLE | | | | | |

**DEDIUM POWER CW FIBER LASER**

**INTRODUCTION**

GTL Series of continuous wave fiber lasers are designed for industrial materials processing application,especially designed for high reflection material processing application such as copper,aluminum and so on.This series of fiber lasers are aimed to provide 200W-1.2kW CW laser power. It has the characteristics of high efficiency and high beam quality and the measured M² is usually below 1.1. The feature of high beam quality makes it be an ideal choice of materials processing application.

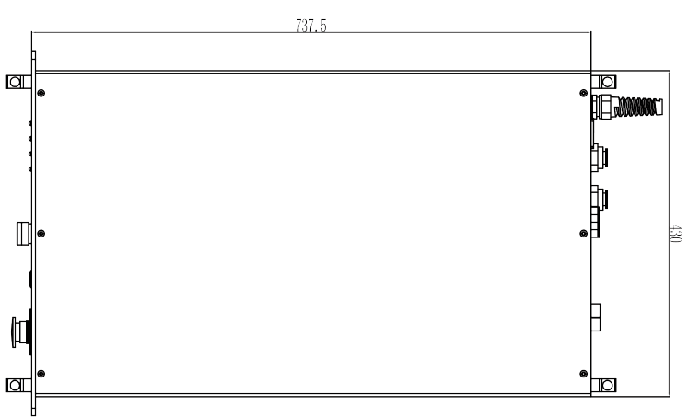
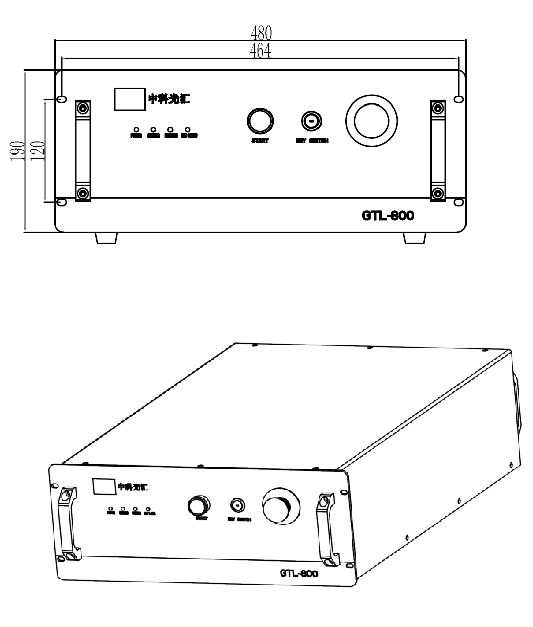
**FEATURES**

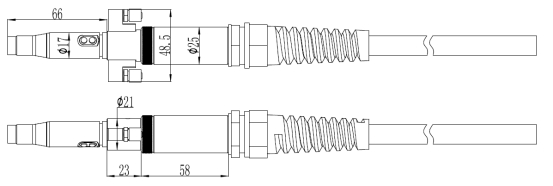
. High efficiency . High beam quality . Maintenance-free . Fiber delivery output

**APPLICATION**

. Fine cutting . Metal welding

**PRODUCT SIZE(mm)**



**SPECIFICATIONS**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PARAMETERS** | **UNIT** | **GTL-500** | **GTL-800** | **GTL-1000** | **GTL-1500** |
| CENTRAL EMISSION WAVELENGTH | nm | 1080 | 1080 | 1080 | 1080 |
| BEAM QUALITY | M2 | ＜1.3 | ＜1.3 | ＜1.3 | ＜1.3 |
| OUTPUT POWER STABILITY | ％ | ±3 | ±3 | ±3 | ±3 |
| POLARIZATION | — | RANDOM | RANDOM | RANDOM | RANDOM |
| EMISSION BANDWIDTH | nm | ＜6 | ＜6 | ＜6 | ＜6 |
| MAX. MODULATION FREQUENCY | kHz | 10 | 10 | 10 | 10 |
| NOMINAL AVERAGE OUTPUT POWER | W | 500 | 800 | 1000 | 1200 |
| OUTPUT POWER TUNABILITY | ％ | 10-100 | 10-100 | 10-100 | 10-100 |
| OUTPUT FIBER DELIVERY LENGTH | m | 15 | 15 | 15 | 15 |
| OPERATING VOLTAGE | V/AC | 220 | 220 | 220 | 220 |
| OPTICAL HEAD▲ |  | QBH | QBH | QBH | QBH |
| INPUT/OUTPUT INTERFACE |  | DB25/RS232 | DB25/RS233 | DB25/RS234 | DB25/RS235 |
| MAX.POWER CONSUMPTION ▲ | W | 3000 | 3500 | 4600 | 5500 |
| COOLING METHOD | — | WATER COOLING | WATER COOLING | WATER COOLING | WATER COOLING |
| AMBIENT TEMPERATURE | ℃ | 10-40 | 10-40 | 10-40 | 10-40 |
| DIMENSIONS (W\*H\*D) | mm | 480\*190\*373 | 480\*190\*373 | 480\*190\*373 | 480\*190\*373 |
| NET WEIGHT | kg | 55 | 60 | 63 | 65 |
| ▲ CUSTOMIZED AVAILABLE | | | | | |