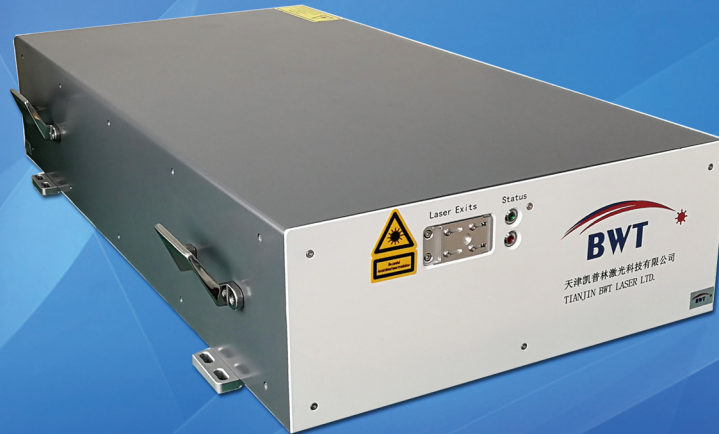


20W Industrial High Power Femtosecond Laser



The 20W Femtosecond laser developed by Tianjin BWT Laser Ltd. is based on all fiber configuration (fiber oscillator + fiber amplifiers), which enables the stability of the product. The entire laser is built inside a sealed cavity which effectively prevent micro-dust from getting inside the laser cavity. There are multiple photo-detectors built inside the laser to monitor the system performance and to fine-adjust parameters to ensure the optimum performance. All lasers are built inside class-10k cleanroom environment and we strictly follow advanced production process protocols. This Femtosecond laser is suitable for OLED processing, Glass and Ceramic cutting and drilling, and metal parts precision machining.

KEY HIGHLIGHTS

- Average power: 20W
- Maximum Pulse Energy: 50 μ J@400kHz
- Pulse Energy Stability: < 3% rms
- Beam Quality: M2 < 1.40, circularity > 85%
- Rep Rate: 100kHz – 1MHz adjustable
- Burst mode, can adjust individual pulse intensity
- External Control: RS232, GATE, TRIG
- Pulse on Demand function ready

APPLICATIONS

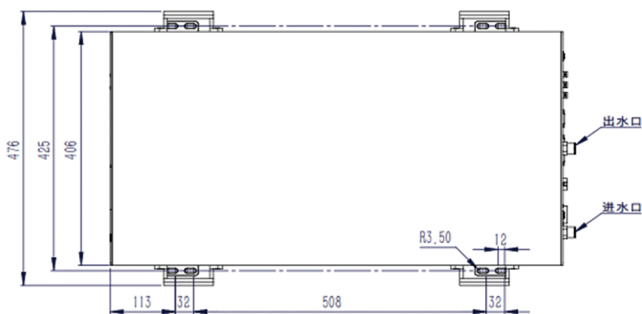
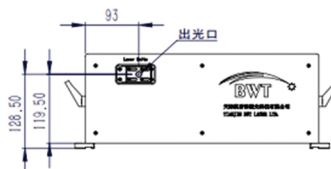
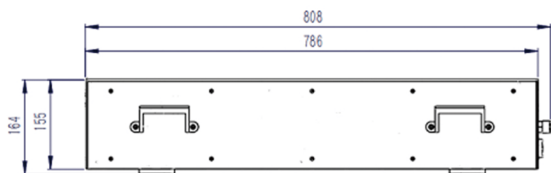
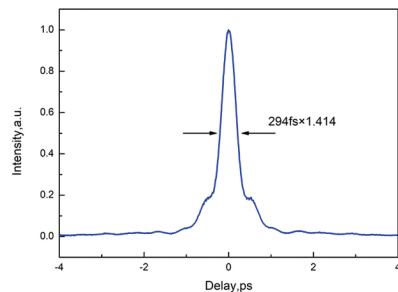
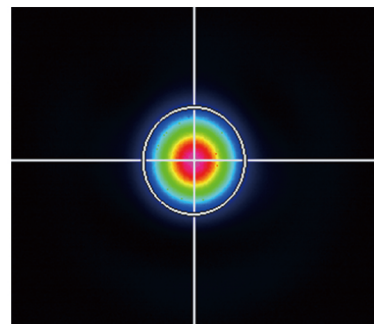
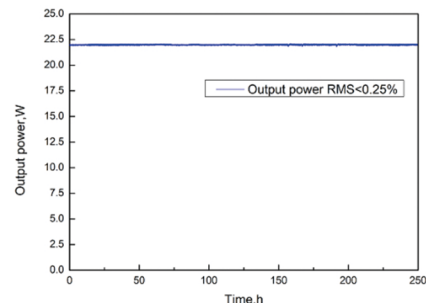
- OLED display cutting and drilling
- Glass, Ceramic etc cutting and drilling
- Semiconductor cutting
- Fuel Injector drilling
- Thin Film Cutting
- Micro / nano Processing
- Precision Laser Marking
- Other Precision Machining

BFL-1030-20B



20W Industrial High Power Femtosecond Laser

Parameters	Specifications
Wavelength	1030nm
Rep Rate	100kHz – 1MHz
Pulse Width	< 500 fs
Average Power	20 W
Max. Pulse Energy	50 μ J
Power Stability	< 2%rms over 8 hours
Pulse Energy Stability	< 3% rms
Beam Quality	TEM00 (M2 <1.4)
Beam Divergence	< 2 mrad (full angle)
1/e2 Bema Diameter	3.0 \pm 0.25 mm
Beam Circularity	> 85%
Pointing Stability	< 50 μ rad / $^{\circ}$ C
Polarization	Horizontal
PER	>100:1
External Control	RS232, GATE, TRIG
Cooling	Water cooling
Ambient Temp	15 – 30 $^{\circ}$ C
Storage Temp	-10 – 50 $^{\circ}$ C
Humidity	10%-80% (non-condensing)
Warm-up Time	<20 min
Voltage	90 – 260 V AC



20W Industrial High Power Femtosecond Laser

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