



Zhejiang GT Lasers Tech. Co., Ltd.
https://www.gtlasers.com

浙江光泰激光科技有限公司
ZHEJIANG GT LASERS TECH.CO.,LTD.

CYL-2000/S Single-mode Continuous Fiber Laser Test Report

Process: Test before installation

Test date: 2021.4.12

Inspector: Siyun Zhu, Xiao Zhang

1	Test items	Optical path detection	Cooling fiber effect	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Fiber line loss	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Fiber device installation	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Weld effect	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
2	Test items	Circuit test	Fixed screw	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Welding point	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Wiring	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
3	Test items	QBH test	Appearance of armored cable and mechanical parts	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Appearance of window panel and quartz column	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
4	Test items	External effect	Fiber laser connect with water cooler	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Power meter connect with water cooler	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			QBH short-circuit metal contacts	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			The red light spot is normal and aimed at the power meter	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG

Process: Test work station

Test date: 2021.4.13

Inspector: Siyun Zhu, Xiao Zhang

1	Test items	Alarm function test	Forward light alarm test		<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG		
			QBH alarm test		<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG		
2	Test items	Water cooling temperature	Power percentage	Power/W	Beam quality M ²	Raman	Center wavelength /nm
		25°C	10	156.5			
		25°C	20	284			
		25°C	30	550			
		25°C	40	745			
		25°C	50	950			
		25°C	60	1103			
		25°C	70	1320			
		25°C	80	1553			
		25°C	90	1753			
		25°C	100	2024			

Process: Aging, vibration test

Test date: 2021.5.9-5.11

Inspector: Siyun Zhu, Xiao Zhang

1	Test items	Vibration test	Vibration time 30min	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Optical path effect after vibration	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Circuit effect after vibration	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Red light after vibration	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Total power after vibration	2018W
2	Test items	Aging test	Full power continuous output light 72H	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Optical Path effect after aging	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Circuit effect after aging	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Red light after aging	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Power test after aging	2010W



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CYL-2000/S Single-mode Continuous Fiber Laser Test Report

Process: Cutting test

Test date: 2021.5.11-5.13

Inspector: Jixiang Shen, Long Qian

1	Test items	1.5mm, 3mm stainless steel cutting effect	The section is smooth, no burrs, and the cutting effect is OK.
2	Test items	3mm、6mm carbon steel cutting effect	Good section, the cutting effect is OK.
3	Test items	1.5mm、3mm aluminum alloy cutting effect	Good section, the cutting effect is OK.
4	Test items	The above material cutting aging	No abnormality after cutting and aging for 2 days, and the cutting effect is good.

Process: Test after cutting

Test date: 2021.5.13

Inspector: Siyun Zhu, Xiao Zhang

1	Test items	Test after cutting	Optical path effect after cutting	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Circuit effect after cutting	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
2	Test items	Alarm function test	Forward light alarm test	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			QBH alarm test	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
3	Test items	Total power test	2010W	Beam quality M ²
4	Test items	Central wavelength (nm)	1080	Raman
				47dB

Process: Warehousing test

Test date: 2021.5.14

Inspector: Qinghui Long, Peng Zheng

1	Test items	Appearance test	Whole machine appearance test	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Appearance of armored cable and mechanical parts	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Appearance of window panel and quartz column	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
2	Test items	Traceability confirmation	Traceability table test information confirmation	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			The internal and external SN numbers are the same	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			Encryption time confirmation	Not encrypted
3	Test items	U disk content confirmation	Software	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
			User manual	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
4	Test items	Power test	Total power test	2012W
5	Test items	Accessories confirmation	Complete accessories, no abnormality	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG
6	Test items	Packing material confirmation	Foam, packing box	<input checked="" type="checkbox"/> OK <input type="checkbox"/> NG

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