

# CYL-4000/M

## 1.0 $\mu$ m Multimode Group Continuous Fiber Laser

### PRODUCT DESCRIPTION

GT Lasers's CYL-4000/M 1.0  $\mu$ m multimode group continuous fiber laser, adopts latest industry technology and the optimization design, with high electro-optical conversion efficiency, high lifetime, high safety and reliability. The unit with high-quality output beam and strong capability on resisting high-reflective, can be widely used in all kinds of materials of laser cutting, welding, punching, 3D printing and other high-end smart manufacturing.

GT Lasers, which is based on Internet technology, established a scientific after-sales service system. Each device has a unique identity code (the internal storage of original technology and

material information). Can achieve remote online real-time monitoring; can provide users with equipment fault early warning and efficient technical support and good after-sales service.

GT Lasers's products with high quality, high reliability and excellent cost performance, can meet the requirements of the customer diversification and personalized customization. It also with good after-sales service, is the ideal choice for system integrates and equipment manufacturers.



### PRODUCT FEATURE

- ▶ High wall plug efficiency, greatly reduce power consumption
- ▶ Strong capability on resisting high-reflective, suitable for different materials processing.
- ▶ Remote real-time monitoring.
- ▶ High lifetime, high safety and reliability.
- ▶ Can achieve personalized customization.
- ▶ Excellent after-sales service system.
- ▶ Excellent cost performance

### MAIN APPLICATION

- ▶ Laser cutting.
- ▶ Laser welding.
- ▶ Laser cladding.
- ▶ Laser brazing.
- ▶ Laser thermolizing.

## TECHNIQUE INDEX

Performance			Min.	Typ.	Max.	Supplement
Optic Feature	Central wavelength	(nm)		1080		
	Spectral bandwidth	(nm)			5	3dB
	Output optical power	(W)		4000		
	Power ADJ. range	(%)	10		100	
	Output power stability	(%)		-1	1	100% continuous > 1h
				-2	2	100% continuous > 24h
	Beam quality	(M <sup>2</sup> )	10	11	13	100um
	Modulation frequency.	(KHz)	20		20~50	
	Glow power	(mW)	0.3		1.0	
Output Feature	Output connector			QBH		
	Output fiber core-diameter	(μm)		100		
	Output fiber length	(m)		15		Customize
	Output fiber bending radius	(mm)	200			
	Working mode		Continuous modulation			
	Polarization state		Random			Random
Electrical cooling Feature	Telecommunication port		RS232 / AD / Super terminal			
	Remote telecommunication		APP			Customize
	Power supply	(V)				
	Power consumption	(KW)		11		
	Cooling method		Water-cooling			Circumscribed
	Coolant temp.	(°C)	21		25	
	Coolant flow	(L/min)		40		
General Feature	Working environment temp.	(°C)	10		40	
	Working environment humidity	(%)	10		85	
	Storage temp.	(°C)	-10		60	
	Weight	(kg)		63		
	Structure		Machine cabinet			

## ORDER INFORMATION

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C	Continuous wave	Y	YDF 1.0 μm	Optical fiber laser	Output powers		Mode group		Output connector		Output fiber core-diameter		Fiber length	
P	Puls	E	EDF EYDF 1.5 μm		4000	4000W	M	Multi-mode	QBH	QBH	050	50/360	15	15m
									LOC	LOC	100	100/360	20	20m
									QCS	QCS	150	150/360	XX	Customize
											200	200/360		
											030	30/400		
											020	20/400		