

CYL/H 1kW~3kW

1.0μm Single-Mode (Highly Reflective Metals) Continuous Fiber Laser

PRODUCT DESCRIPTION

GT Lasers CYL/H series high-brightness anti-high reflective single-mode 1.0μm 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.

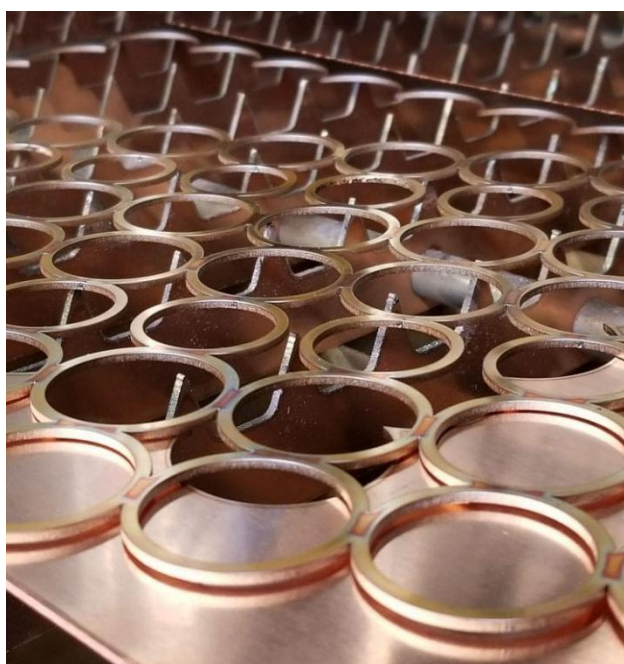


PRODUCT FEATURE

- ▶ High electro-optic conversion efficiency, greatly reduce power consumption.
- ▶ Strong anti-high reflection ability, suitable for different material processing.
- ▶ Remote real-time monitoring.
- ▶ High lifetime, high safety and reliability.
- ▶ Can be 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.	Remarks
Optic Feature	Central wavelength	(nm)	1070	1080	1090	
	Spectral bandwidth	(nm)		3	5	-3dB
	Output optical power	CYL-1000/H	(W)	1000		
		CYL-1500/H		1500		
		CYL-2000/H		2000		
		CYL-3000/H		3000		
	Short-term power stability	(%)	±1			
	Long-term power stability	(%)	±2			
	Laser turn-on time	(μs)	50~100			
	Laser off time	(μs)	100~200			
	Power adjustment range	(%)	10		100	
	Beam quality	(M ²)			1.3	QBH-25/400
	Modulation frequency	(KHz)	5		20	100% output
	Red light power	(mW)	5		60	
Output Feature	Output connector			QBH		Customizable
	Output fiber core-diameter	(μm)		25		
	Output fiber length	(m)		15		Customizable
	Output fiber bending radius	(mm)	200			
	Work mode		Continuous / modulation			CW/Modulate
	State of polarization		Random			Random
Electrical cooling Feature	Communication interface		RS232 / AD / Super terminal			
	Remote telecommunication		APP			Customizable
	Power supply	(V)		220		
	Power consumption	CYL-1000/H	(KW)		3.0	Single-phase three-wire
		CYL-1500/H			4.5	
		CYL-2000/H			6.0	Two sets 220V
		CYL-3000/H			8.5	
	Cooling mode		Water cooling			Circumscribed
	Coolant temperature	(°C)	20		28	
	Coolant flow	CYL-1000/H	(L/min)	10		
		CYL-1500/H		20		
		CYL-2000/H		25		
		CYL-3000/H		40		
General Feature	Working environment temperature	(°C)	10		40	
	Working environment humidity	(%)	10		85	
	Storage temperature	(°C)	-10		60	
	Structure		Rack			
	Weight/Size	CYL-1000/H	38	(W) × (L) (contain the handles) × (H)(mm)	486.2(440)×451×104	
		CYL-1500/H	40		486.2(440)×451×104	
		CYL-2000/H	43.4		486.2(440)×596×111	
		CYL-3000/H	53		486.2(440)×666×111	

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		500	500W	S	Single	QBH	QBH	020	20/400	15	15m
					1000	1000W	M	Multi-mode	LOC	LOC	025	25/400	20	20m
					1500	1500W	H	High brightness anti-high reflection	QCS	QCS	050	50/360	XX	Customize
					2000	2000W					100	100/360		
					3000	3000W					150	150/360		