

CYL-500/S

1.0 μ m Single-Mode Group Continuous Fiber Laser

PRODUCT DESCRIPTION

GT Lasers CYL-500/S 1.0 μ m single-mode 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, Metal 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.

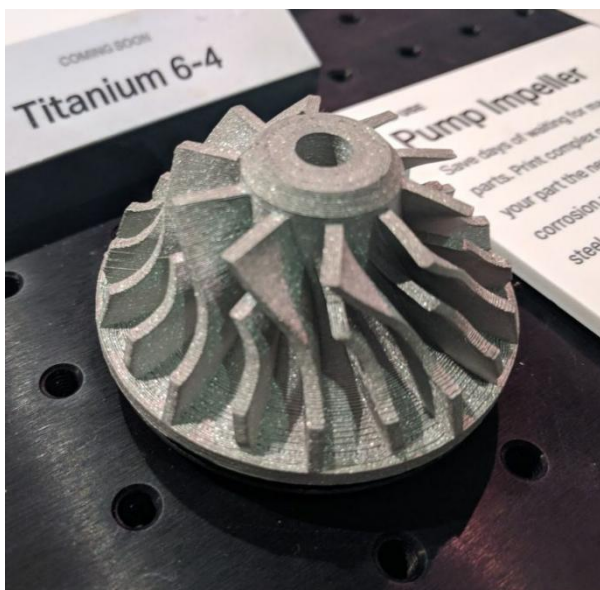


PRODUCT FEATURE

- ▶ High wall plug efficiency, greatly reduce power consumption
- ▶ Remote real-time monitoring.
- ▶ High lifetime, high safety and reliability.
- ▶ Can achieve personalized customization.
- ▶ Excellent after-sales service system.
- ▶ Excellent cost performance

MAIN APPLICATION

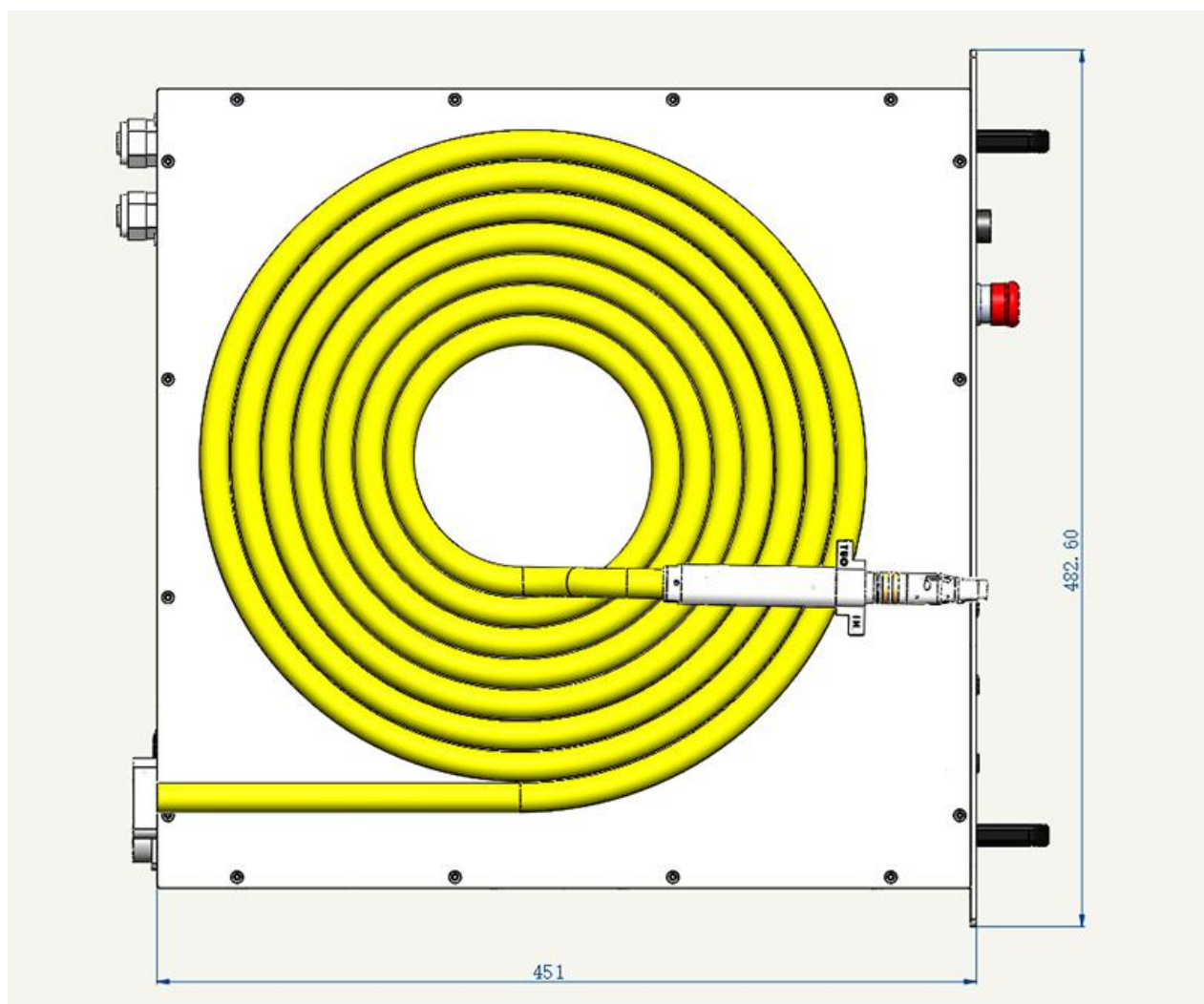
- ▶ Laser cutting.
- ▶ Laser welding.
- ▶ Laser cladding.
- ▶ Laser brazing.
- ▶ Laser thermolizing.
- ▶ Laser additive manufacturing
- ▶ Solar plant automation

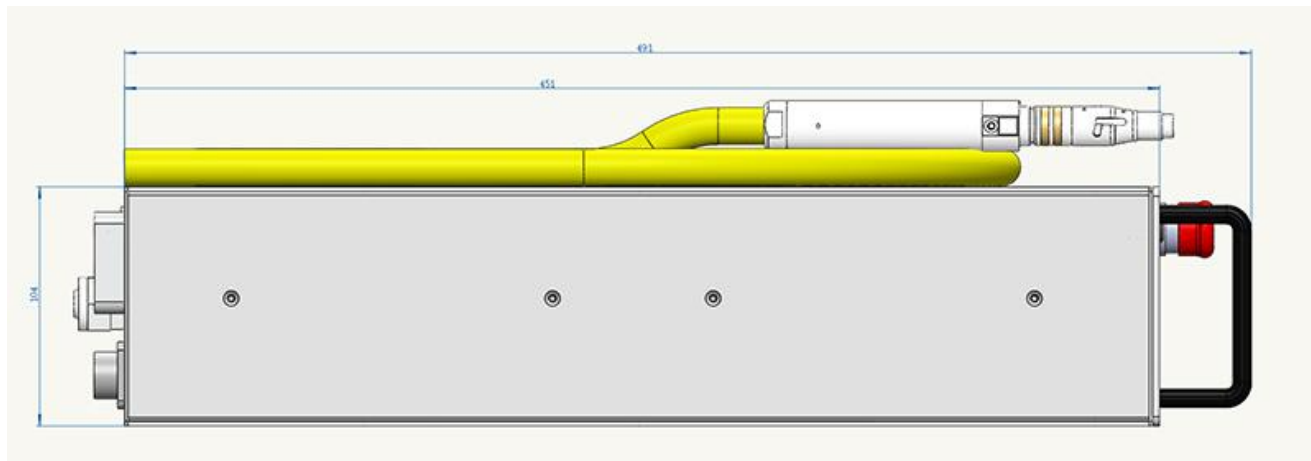


TECHNIQUE INDEX

Performance			Min.	Typ.	Max.	Supplement
Optic Feature	Central wavelength	(nm)	1070	1080	1090	
	Spectral bandwidth	(nm)		3	5	-3dB
	Output optical power	(W)		500		
	Power ADJ. range	(%)	10		100	
	Output power stability	(%)		1	1.5	100% continuous > 1h
				2	3	100% continuous > 24h
	Beam quality	(M ²)			1.3	QBH-20/400
					2.8	QBH-50/360
	Modulation frequency.	(KHz)			20	100% output
Output Feature	Output connector			QBH		Customize
	Output fiber core-diameter	(μm)		20	100	
	Output fiber length	(m)		15		Customize
	Output fiber bending radius	(mm)	200			
	Working mode		Continuous modulation			CW/Modulate
	Polarization state		Random			Random
Electrical cooling Feature	Telecommunication port		RS232 / AD / Super terminal			
	Remote telecommunication		APP			Customize
	Power supply	(V)		220		Two phase three wire
	Power consumption	(KW)			3.0	
	Cooling method		Water-cooling			Circumscribed
	Coolant temp.	(°C)	21		25	
	Coolant flow	(L/min)		10		
General Feature	Working environment temp.	(°C)	10		40	
	Working environment	(%)	10		85	
	Storage temp.	(°C)	-10		60	
	Weight	(kg)		38		
	Structure		Machine cabinet			
	Size (W) × (L) × (H)	(mm)	482.6(440) × 451 × 104			With hook

SIZE





ORDER INFORMATION

C Y L - □ □ □ □ / S - Q B H - □ □ □ / □ □

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-mode	QBH	QBH	050	50/360	15	15m
							M	Multi-mode	LOC	LOC	100	100/360	20	20m
									QCS	QCS	150	150/360	XX	Customize
											200	200/360		
											030	30/400		
											020	20/400		