

YFL-1000SM Ytterbium Single-mode CW Fiber Laser System



Techwin YFL-1000SM Ytterbium Single-mode CW Fiber Laser System, 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.

Techwin Fiber Laser, 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.

Techwin Fiber Laser 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.

Features

- ▶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

Applications

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

Techwin (China) Industry Co., Ltd

Specification

Performance		Min.	Typ.	Max.	Supplement	
Optic Feature	Central wavelength	(nm)	1070	1080	1090	
	Spectral bandwidth	(nm)		3	5	-3dB
	Output optical power	(W)		1000		
	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
	Input fiber	Diamete	(μm)		100	NA:0.22rad
		Beam	(BPP)		3	3.5
	Output fiber 1	Diamete	(μm)		300	NA:0.22rad
		Beam	(BPP)		9	10.5
	Output fiber 2	Diamete	(μm)		600	Na:0.22rad
Beam		(BPP)		18	21	Beam Parameter
Glow power	(mW)	0.3		1.0		
Output Feature	Output connector			QBH	Customize	
	Output fiber	(μm)		20	100	
	Output fiber length	(m)		15		Customize
	Output fiber bending	(mm)	200			
	Working mode		Continuous modulation			CW/Modulate
	Polarization state		Random			Random
Electric Cooling Feature	Telecommunication port		RS232 / AD / Super terminal			
	Remote		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/mi		10		
General Feature	Working environment	(°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 × 451 × 104			With hook