

Products Portfolio

FIBER LASER SERIES

APPLICATIONS

Sensor, motor, compressor, etc.
 Auto Parts (flywheel panel, clutch, gear, radiator, auto motor), Battery Module (end plate, side plate), Battery Busbar (thickness $\leq 2.5\text{mm}$, material: aluminum), Soft Connection (copper $\leq 0.6\text{mm}$), Soft Battery Pole, Pressure Vessel, all splicing welding of metal parts (SS: $\leq 6-6.5\text{mm}$, Al: $\leq 5\text{mm}$), all penetration welding of metal parts (SS: $\leq 3.5-4\text{mm}$, Al: $\leq 2.5\text{mm}$).



UW-S500-UM

Model NO.	UW-S500-UM	UW-S1000-UM	UW-S1000-TU	UW-S2000-TU	UW-S3000-TU	UW-S4000-TU	UW-S6000-TU
Max laser power	500W	1000W	1000W	2000W	3000W	4000W	6000W
Laser wavelength	1080nm	1080nm	1070nm	1070nm	1070nm	1070nm	1070nm
Laser operating mode	Continuous wave						
Optical output quantity	1 path						
Total power consumption	<2.5KW	<5KW	<10KW	<15KW	<20KW	<30KW	
Positioning	Red indicator						
Power supply	AC220V $\pm 10\%$, 50/60Hz	AC380V $\pm 10\%$, 50/60Hz					
Cooling type	Water cooling						
External chiller	1.2KW	2.5KW	2.5KW	5KW	8KW	12KW	18KW
Fiber type	QBH						
Fiber core diameter	50um, single mode optional	50um/100um, single mode optional	50/100/200um optional				100/200/300/400um optional
Fiber length	10m			20m			
Machine Size(mm)	890L*490W*220H	1420L*690W*1060H					1540L*780W*1240H
Weight	53kg	256kg	249kg	266kg	316kg	321kg	490kg

The rare earth ions absorb pump laser and their electrons are excited to a higher excitation level to achieve ion number inversion. The ions are transferred from the high energy level to the ground state, then release the energy and output the laser.

ADVANTAGE

1. Miniaturization, precision, and high integration;
2. Free adjustment, free maintenance, high stability;
3. Adaptable for harsh working environments, with high tolerance to dust, vibration, shock, humidity and temperature;
4. More than 20% electro-optical efficiency, which can save operating costs.



UW-S4000-TU