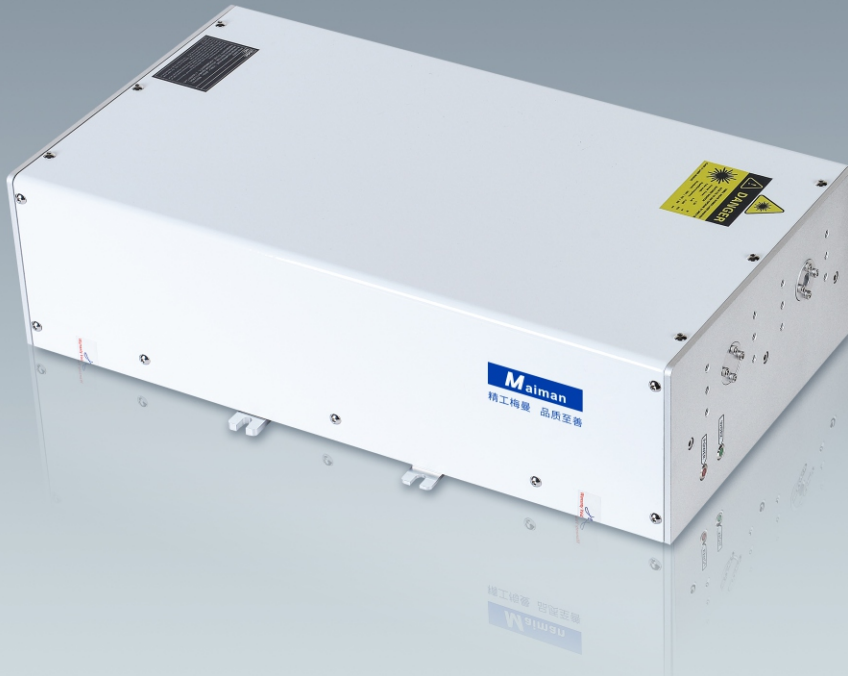
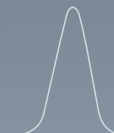


Infrared series 1064nm high energy infrared laser



16-20W

The laser power

IP65

Protection grade IP65

20000hrs⁺

The service life

Introduction

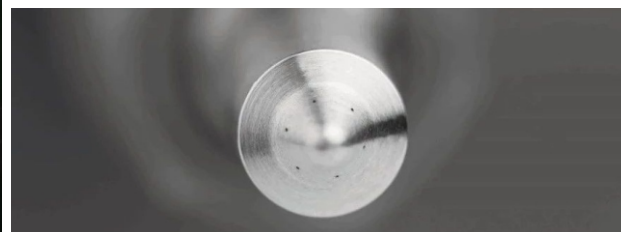
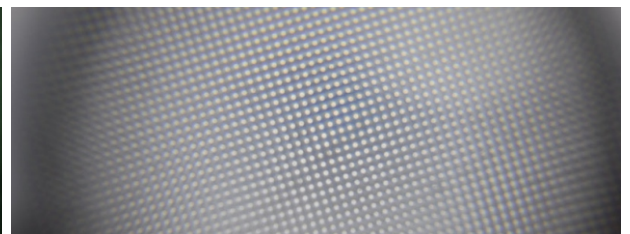
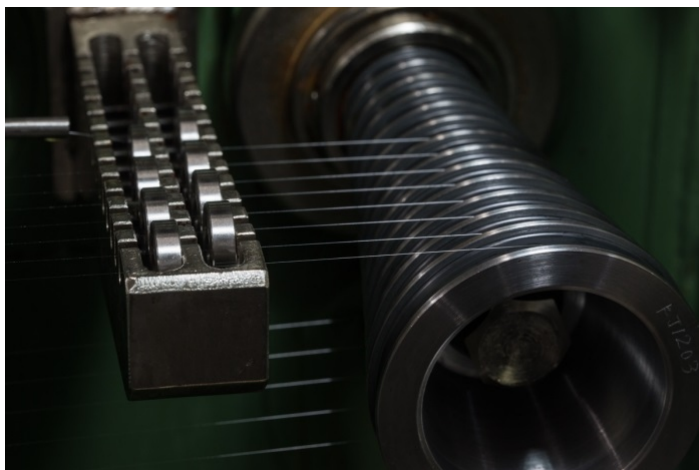
Effectively solve the problem of power attenuation, with a service life of more than 20,000 hours; superior beam quality enables deeper cutting depth and higher processing efficiency.

Features

- The laser power 16-20W, single pulse energy>1mJ;
- Effectively solve the power attenuation, no need for regular commissioning, maintenance-free;
- Water-cooled, 3-layer protective shell, protection grade IP65, suitable for harsh working environment;
- All-in-one structure, easier to integrate;
- Ultra high stability, meeting 7 * 24 hours of work, with a service life of more than 20000 hours.

Application

- Drilling in brittle materials
- Carbon material cutting
- Laser trimming



Specifications

Model No.	MMEPA-1064-16-HE	MMEPA-1064-20-HE
Optical Characteristics		
Wavelength (nm)	1064nm	
Average Power (W)	>16W@10kHz	>20W@10kHz
Single Pulse Energy (uJ)	~1600uJ@10kHz	~2000uJ@10kHz
Pulse Width (ns)	~20ns@10kHz	
Repetition Rate	7kHz-20kHz	
Pulse Stability	<3% rms	
Long Term Stability	<±3%	
Beam Characteristics		
Polarization Ratio	Horizontal, >100:1	
Beam Diameter	~1mm(at exit)	
Beam Circularity	>90%	
Spatial Mode	TEM ₀₀ , M ² <1.3	
Operating Specifications		
Warm-up Time	<15 minutes from cold start	
Electrical Requirement	DC24V, 500W	
Ambient Temperature	10-35°C, RH<80%	
Storage Conditions	-10-40°C, RH<90%	
Physical Characteristics		
Cooling System	Water-Cooled	
Water Temperature (laser inlet)	25°C	

Dimensional Drawings

