

AO Femto Jericho Series

Industrial Green/IR femsecond laser

- Pulse width less than 800fs
- Unique ability to process materials
- The burst function, excellent beam quality



► Features & Benefits:

The all-in-one design makes the laser more compact and reduces the total weight. It saves space for installation on the customer side, lowers the integration cost and simplifies the installation process. The water-cooled design allows the laser to work reliably in various harsh and extreme environments and makes the laser to be the ideal candidate for the 7x24 non-stop production needs.

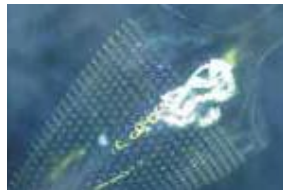
1030nm, power up to 10W, 20W model can be customized.

515nm, power up to 5W, 10W model can be customized.

With the pulse width of < 700 fs, burst mode and PoD function, it is the perfect candidate for various application areas, including injector drilling, medical device manufacturing, polymer processing, semiconductor/photovoltaic processing, wafer scribing, high precision & speed micro-machining, brittle materials cutting and drilling, and so on.



Medical device manufacturing



Brittle material cutting/drilling



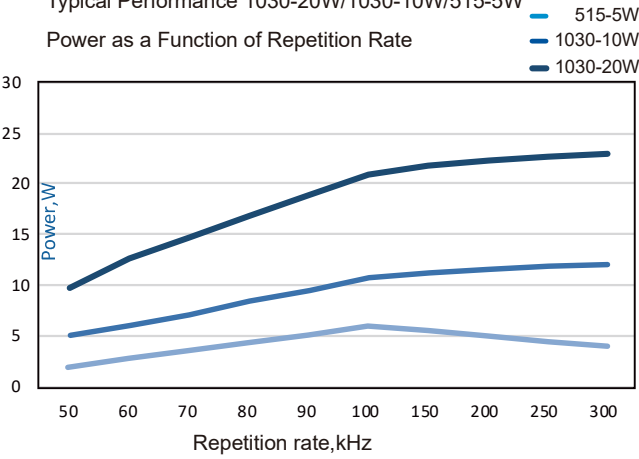
High-accuracy/High-speed/
Micro-machining



Semiconductor/Solar processing/
Wafer scribing

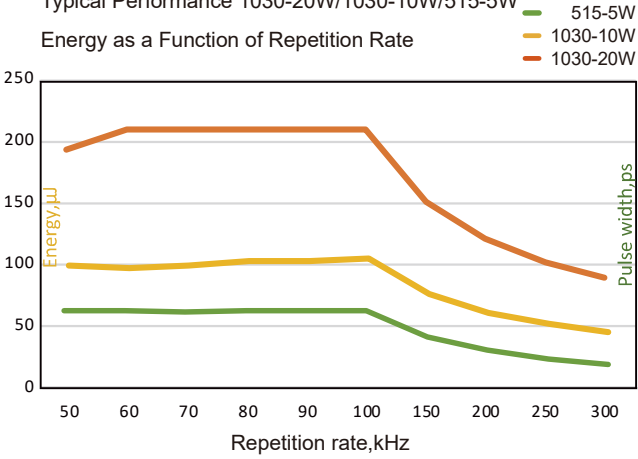
Typical Performance 1030-20W/1030-10W/515-5W

Power as a Function of Repetition Rate



Typical Performance 1030-20W/1030-10W/515-5W

Energy as a Function of Repetition Rate



FEMTOSECOND			
Specification	515-5W	1030-10W	1030-20W
Wavelength (nm)	515	1030	
Average Power (Watts)	> 5W@100KHz	> 10W@100KHz	> 20W@100KHz
Energy (μJ)	> 50	> 100	>100
Specified Repetition Rate(kHz)	100		
Repetition Rate (kHz)	50-300		
Pulse Width (fs)	<800		
Beam Quality (M ²)	<1.3		<1.5
Beam Roundness (%)	>90		
Beam Diameter (mm)	1.3±0.2	~1.5±0.3	
Beam Divergence (mRad)	< 1	<1.3	
Point Stability (μrad/°C)	< 50		
Polarization Ratio	100:1 Linear,Horizontal		
Pulse-to-Pulse Stability (% RMS)	< 2% RMS over 10hours		
Average Power Stability(% over12 hours)	< 3		
Cold Start Warm-Up (mins.)	< 30		
Standby Warm-Up (mins.)	< 20		
Operational Temperature Range (°C)	15 to 35		
Operation Humidity Range (%)	20 to 80,non-condensing		
Storage Temperature Range (°C)	- 20 to 50		
Storage Humidity Range (%)	20 to 80,non-condensing		
Input Voltage (VDC)/Rated Power(W)	24 / 600		
Communication	RS232		
Cooling	Water		
Laser head (kg)	34		

AOFemto Jericho SERIES

AOFemto Jericho Laser Size

