

ATARIUM XTR

Picosecond Fiber Laser

ATARIUM XTR, the new sub 2 picosecond laser, offers a significant advantage over the commonly used picosecond or the more complex femtosecond lasers. High peak power and high pulse energy up to 300 μ J make the ATARIUM XTR an ideal tool for high speed, high precision micromachining applications.

The ATARIUM family is designed by laser specialists with more than 20 years of experience in industrial 24/7 and scientific applications.

Rely on a stable laser source with good value, low cost of ownership and high reliability to make your application a success. Each member of the ATARIUM family passes strict quality control procedures, including shock and vibration tests, temperature and humidity tests and burn in tests on many laser parameters.

Built in semi intelligence with automatically cross calibrated sensors enables performance self optimization. It opens new horizons for serviceability and predictive maintenance. We are happy to mentor your application with a service hotline.

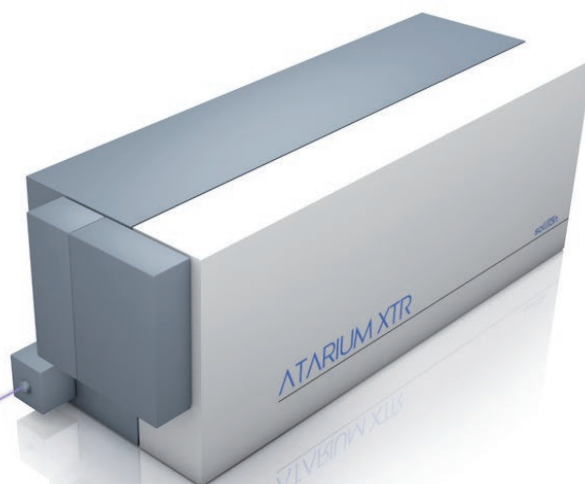
Our highly experienced service team operates worldwide on site or in our clean room facilities in Asia and Europe.

Highlights

- Compact
- High Energy
- 24/7 operation
- 40.000 h diode lifetime expected
- 20.000 h SHG and THG lifetime expected
- Industry 4.0 ready

Applications

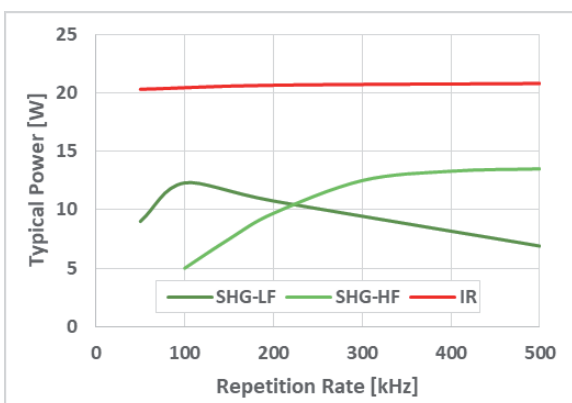
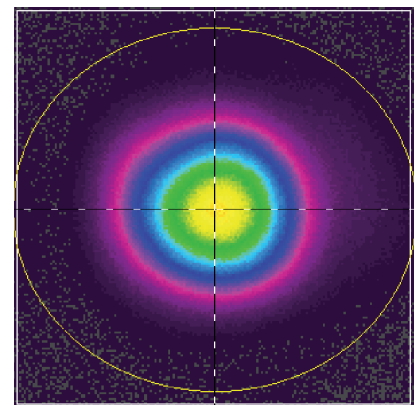
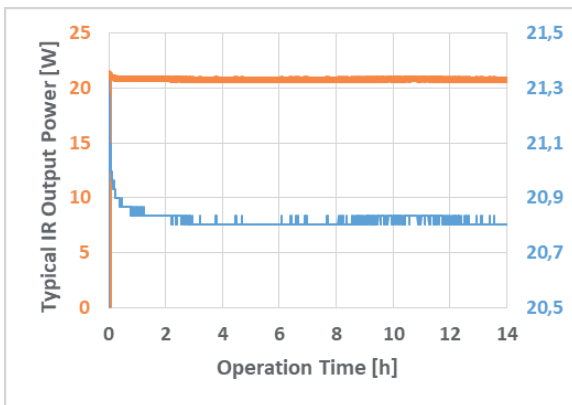
- ceramic cutting
- glass cutting
- micro structuring
- non thermal ablation
- thin film processing



ATARIUM XTR

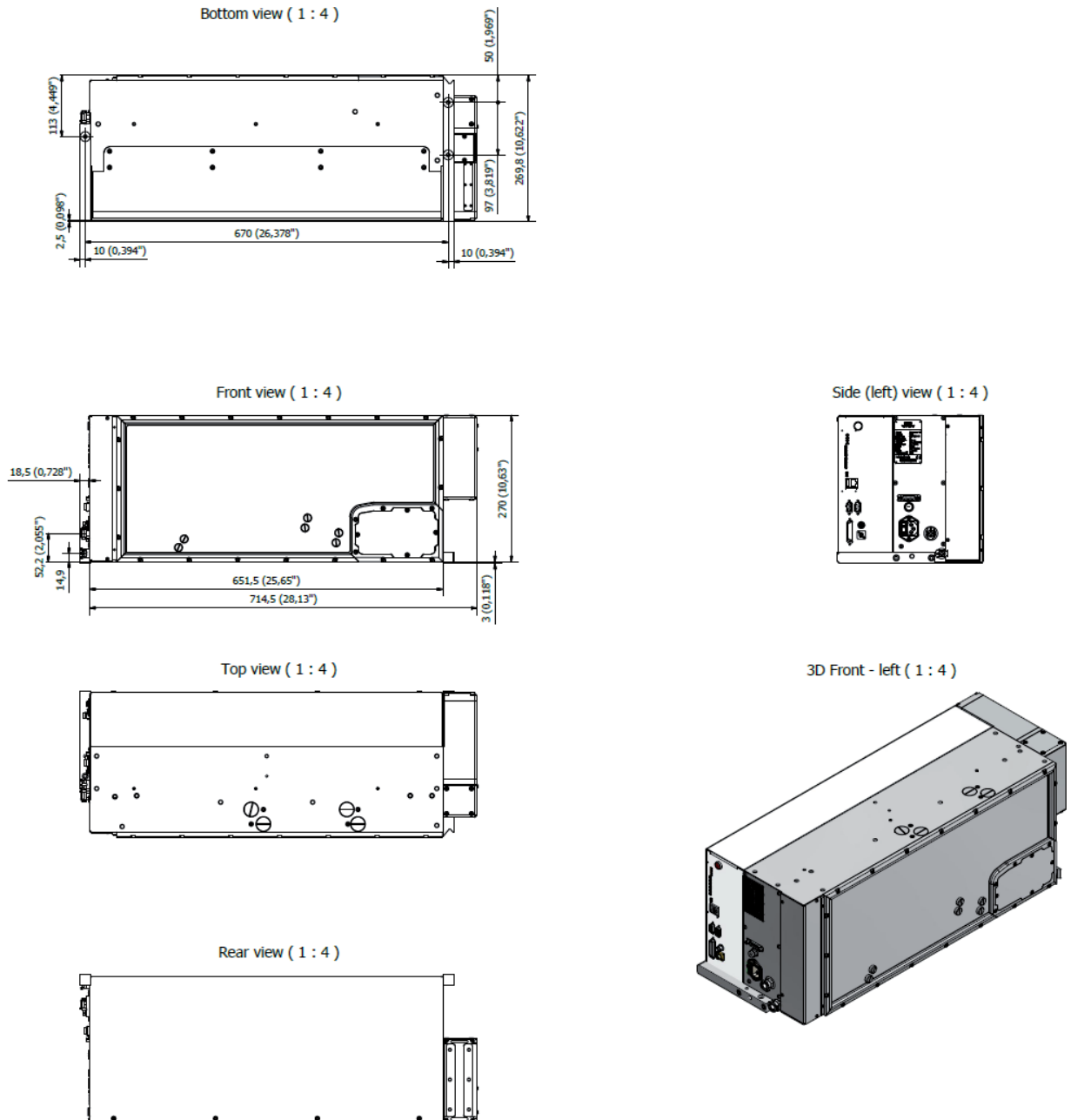
Specifications

ATARIUM XTR	unit	1030 nm	515 nm	343 nm
Wavelength	nm	1030	515	343
Bandwidth	nm		<1	
Average Power	W	> 15	> 10	> 3
Pulse Energy, max.	μJ	> 300	> 200	> 60
Pulse repetition Frequency	kHz	50 – 500 (optional 1000)		
Pulse Control		single pulse picker		
Pulse Duration (sech ²)	ps	< 2		
Beam Quality	M ²	< 1.2	< 1.2	< 1.3
Beam Diameter	mm	~ 1.4		
Astigmatism		< 0.3		
Asymmetry		< 1.3		
Polarization		horizontal	vertical	vertical



ATARIUM XTR

Dimensions



(Schematics show 1030 nm and 515 nm version. Please ask for dimensions of the 343 nm front box)