



# Laser Series

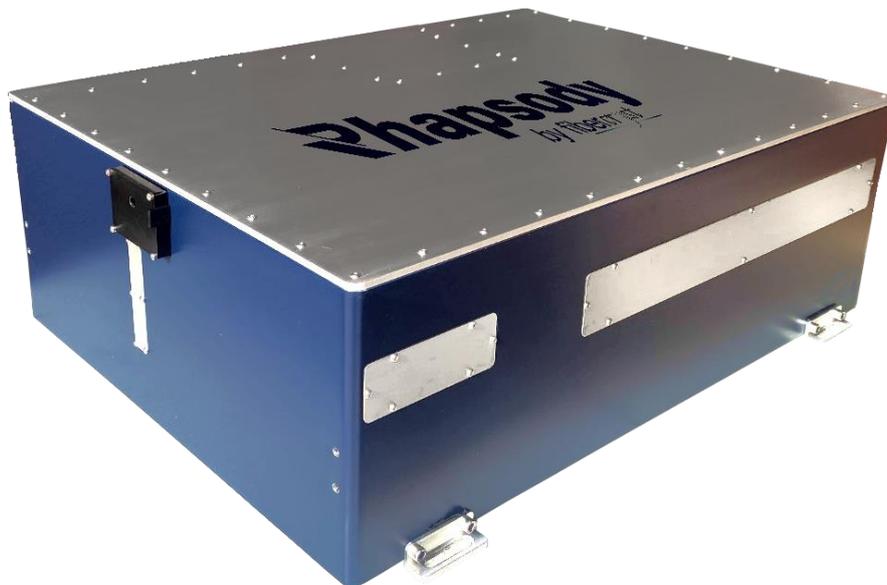
## Rhapsody

### The Industrial femtosecond laser powered by Taranis

Rhapsody Laser series is a range of powerful industrial femtosecond lasers offering output power up to 100W and pulse energies in excess of 500 $\mu$ J, with pulses shorter than 500 fs.

Based on our unique technology (patented Taranis Single Crystal Fiber), it enables high pulse energy and flexible repetition rate. This unique architecture provides excellent reliability and beam quality, all in a compact packaging.

The ultra-short pulse-widths, high energy and high power combined with all other features (Position Synchronized Output, flat-Burst, UV convertor) enable to achieve cost-efficient industrial processes.



**Femtosecond Lasers**

*Fast & Steady wins the race*

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# Specifications

	Rhapsody 4015	Rhapsody 4017	Rhapsody 4019	Rhapsody 4020
Average Power	30 W	50 W	80 W	100 W
Repetition Rate	from 50 kHz to 2 MHz			
Pulse Energy*	150 µJ	250 µJ	400 µJ	500 µJ
Average Power Stability	< 2%			
Center wavelength	1030 nm ± 2			
PER	> 20 dB			
Polarization direction	vertical			
Pulse duration	< 500 fs			
Beam diameter**	2 mm			
Beam divergence	2 mrad			
Beam Ellipticity	≥ 0.9			
Beam Quality (X/Y)	$M^2 \leq 1.3$			
Warm-up time	< 30 min			
Dimensions*** (l x L x h)	645 x 480 x 220 mm			
Weight****	76 kg			

\* Pulse Energy @200kHz

\*\* Other diameters on request

\*\*\* Dimensions of Laser Head. Does not include PSU dimensions  
PSU dimensions : 560 x 430 x 134 mm

\*\*\*\* Weight of Laser Head. Does not include PSU weight.  
PSU weight : 9 kg

## Features

- On request

PSO

Position Synch. Output

UV

Flat-Burst

## Cooling

Water-cooled

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