



ATLEX-500-I

A new generation of compact air-cooled, high repetition rate excimer lasers, designed for low- and mid-range duty cycle applications



ATLEX-500-I main features:

- Soft corona preionization
- HV-solid state pulser
- Laser head volume < 3l
- TMC (Total-Metal-Ceramic) Vessel
- Integrated vacuum pump & halogen filter
- Air Cooled / Optional Liquid Cooled, active thermal management
- RS-485, RS232, USB and fiber optic Interface for system integration
- Flushable optics holder
- Energy stabilization mode
- Dynamic fan speed controls
- Meets European CE-standard
- RoHS compliance

Details

Applications

- Micromachining
- Laser ablation
- Medicine (refractive surgery)
- Spectroscopy
- Metrology

Date

- 30th April 2015

ATLEX-500-I Specifications

Gas Medium	F2	ArF	KrF	XeCl	XeF	Units
Wavelength	157	193	248	308	351	nm
High Voltage Switching Technique	Solid State Switch					
Max. Pulse Energy ¹	1	10	15	8	7	mJ
Max. Average Power	0.5	4.0	6.5	3.0	2.5	W
Max. Rep Rate	500					Hz
Pulse Duration ²	5 – 8					ns
Beam Dimensions ² (V x H)	4 x 6					mm
Beam Divergence ² (V x H)	1 x 2					mrad
Energy Stability (standard deviation)	< 3					%
Dimensions (LxWxH) click here for details	540 x 470 x 370					mm
Weight	60					kg
Cooling	Cooling Air / Optional Liquid					
Power requirement	230 VAC / 6,3 A / 1 phase / 50-60 Hz					

All specifications are typical data and subject to change without notice due to product improvements.

¹ Measured at low rep.rates; allow 10% reduction of output energy and power for laser equipped with stabilization mode.

² Typical value, FWHM

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