

Excimer laser CL-5000

Key Features

- Compact excimer laser
- Energy stabilization
- Long lifetime of gas mixture
- Computer control
- All-in-one module
- Premix gas mixture

Applications

- Manufacturing of diffraction structures in optical fibers
- Materials processing
- Laser engraving (diamonds, optical elements)
- Laser vision correction
- Spectroscopy



Excimer laser CL-5000

Type	ArF	KrF	XeCl
Wavelength (nm)*	193	248	308
Tube material	metal & ceramic		
Preionization			
CL 5100 CL 5200 CL 5300	corona		
Maximum pulse Energy (mJ)	20	40	25
Maximum average Power (W)			
CL 5100 CL 5200 CL 5300	2 4 5	4 8 10	2.5 5 7
Maximum repetition rate(Hz)			
CL 5100 CL 5200 CL 5300	100 200 300		
Pulse Duration (ns)	8-11		
Stability of pulse energy (sigma, %)	< 2		
Beam Size (at 1/e ² of peak, V x H, mm)	12 x 3.5		12 x 4
Beam Divergency (FWHM, V x H, mrad)	4 x 2 (stable resonator)		
Jitter (ns)	< 2		
Dimensions (L x W x H, mm)	780 x 330 x 583		
Weight (kg)	80		
Cooling			
CL 5100 CL 5200/5300	air water < 1 l/min		
Power consumption	220 V / 50 Hz, 1000 VA**		
Gas	1 premix cylinder		
Control	RS 232, Windows		

* - option wavelength 157 nm

** - option 110 V/60 Hz, ≤ 1000 VA

