

# Excimer laser CL-7000

## Key features

- High pulse energy
- Metal ceramic design
- Long lifetime premix
- Reliable thyatron switch
- Built-in Energy monitor
- Energy stabilization
- Air-cooled versions up to 20 Hz

## Applications

- Manufacturing of diffraction structures in optical fibers
- Materials processing
- Laser Lift-Off process
- Laser engraving
- Pulsed laser deposition



# Excimer laser CL-7000

	ArF	KrF	XeCl
Wavelength (nm)*	193	248	308
Tube material	metal & ceramic		
Preionization	spark		
Max Pulse Energy (mJ)	250	400	300
Average Power (W)			
CL 7020	5	8	6
CL 7050	15	20	15
CL 7100	25	35	25
Max repetition rate (Hz)			
CL 7020		20	
CL 7050		50	
CL 7100		100	
Pulse Duration(ns)	17	20	20
Stability of pulse energy (sigma, %)	< 2		
Beam Size (V x H, mm)	20 x 6	21 x 6	22 x 6
Beam Divergency (V x H, mrad)	1.5 x 4.5 (stable resonator)		
Weight (kg)	170		
Dimensions (L x W x H, mm)	1423 x 375 x 760		
Cooling			
CL 7020	air		
CL 7050	water < 1 l/min		
CL 7100	water < 3 l/min		
Power			
CL 7020	220 V, 50 Hz, 1.5 kW**		
CL 7050	220 V, 50 Hz, 1.8 kW**		
CL 7100 (трехфазное)	380 V, 50 Hz, 3.5 kW**		
Gas	1 premix cylinder		
Control	RS 232 Windows		

\* – option wavelength 157 nm

\*\* – option 110 V (220 V)/60 Hz

