

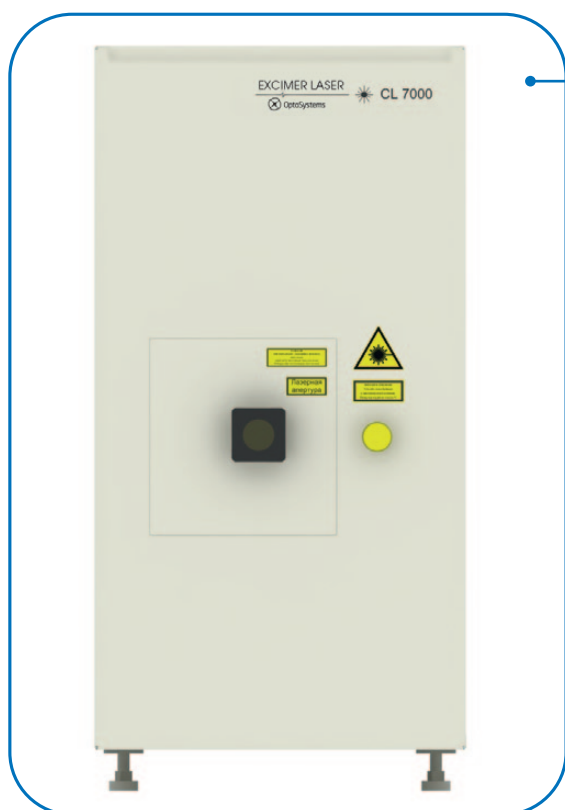
# Excimer laser CL-7000

## Key Features

- power stabilization
- extended gas lifetime
- computer control
- single unit design
- premix gases

## Application

- pulse laser deposition
- fiber bragg grating
- material treatment



# Excimer laser CL-7000

	ArF	KrF	XeCl
Wavelength <sup>1</sup>	193 nm	248 nm	308 nm
Tube material	ceramic		
Preionization	spark		
Nominal Pulse Energy	250 mJ	400 mJ	300 mJ
Average Power			
CL 7020	5 W	10 W	6 W
CL 7050	10 W	20 W	15 W
CL 7100	20 W	35 W	25 W
Max repetition rate			
CL 7020		20 Hz	
CL 7050		50 Hz	
CL 7100		100 Hz	
Pulse Duration <sup>2</sup>	17 ns	20 ns	20 ns
Stability of pulse energy	sigma < 2%		
Beam Size <sup>2</sup>	6 x 20 mm	6 x 21 mm	7 x 22 mm
Beam Divergency <sup>2</sup>	1.5 x 4.5 mrad (stable resonator)		
Time jitter	< 2 ns		
Dimensions, weight	1360 x 382 x 720 mm, 170 kg		
Cooling			
CL 7020	air		
CL 7050	water < 1 liter/min		
CL 7100	water < 3 liter/min		
Power			
CL 7020	220 V / 50 Hz, 10 A, not more than 1500 VA		
CL 7050	220 V / 50 Hz, 10 A, not more than 1800 VA		
CL 7100 (трехфазное)	380/220 V, 50 Hz, 10 A, not more than 3500 VA		
Gas	1 premix cylinder		
Control	RS 232 or RS 432, Windows 7 compatible		

1 - it is possible to work on 157 nm

2 - FW HM

