

CL Product Line

UV Excimer CL-7000k laser series

Key features

- 1000 Hz Excimer laser
- High beam pointing stability
- High pulse energy
- Metal ceramic design
- Long lifetime Thyatron switch
- Built-in Energy monitor
- Energy stabilization



Optromix CL-7000k is excimer laser with 193 nm, 248 nm or 308 nm wavelengths and max repetition rate of 1000 Hz. It has a high beam pointing stability, and on top of that Optromix can deliver the laser system in two different configurations, with a beam size of 16 mm x 5 mm or 6 mm x 5 mm, depending on the client's requirements. CL-7000k has an outstanding energy stabilization properties, its pulse energy stability sigma is < 2%. Our excimer laser is a perfect fit for an industrial laser system to perform material processing, micro marking or laser spraying.

Applications

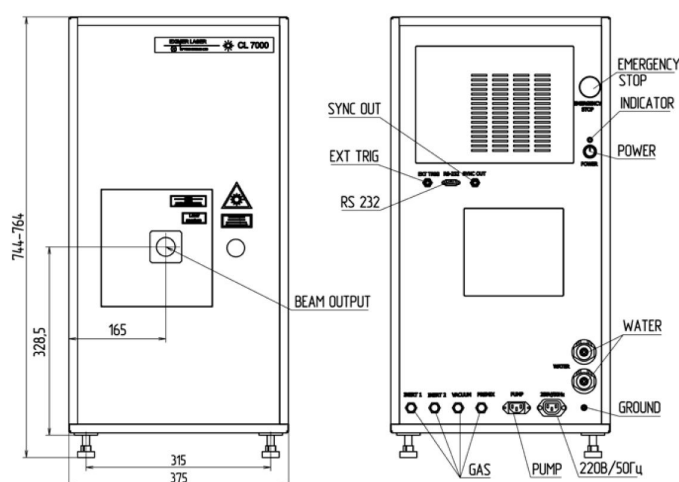
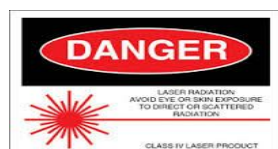
- Material processing
- Micromarking
- Laser spraying
- DUV Lithography



CL-7000k series specification

Parameter	Value		
Gas mixture	ArF	KrF	XeCl
Wavelength	193 nm	248 nm	308 nm
Nominal Pulse Energy	24 mJ	40 mJ	20 mJ
Average Output Power	20 W	35 W	18 W
Max. repetition rate	1000 Hz		
Pulse duration	14 ns	20 ns	
Pulse energy stability	sigma < 2%		
Beam size (V * H)	16 mm x 5 mm (6 mm x 5 mm – optional)		
Beam Divergence (V * H)	4.5 mrad x1.5 mrad (stable resonator)		
Time jitter	< 2 ns		
Gas	1 premix cylinder		
Cooling	water < 3 liter/min		
Control interface	RS-232 (Windows)		
Power consumption	380/220 - 240 V, 50 - 60 Hz, 3.5 kW		
Dimensions (W x H x L)	375 x 746 x 1360 mm		
Weight	170 kg		

Optromix provides 1 year warranty for all systems.



Information in this document is a subject to change without notice.