



Argon/ Krypton Ion-Laser D-Series

The Argon/ Krypton/ Mixed gas high power lasers of the D-series provide Multi-Mode, Single-Mode and Single-Frequency operation at 457,9 - 676,4 nm in the visible range of the spectrum. These systems provide excellent beam stability parameters, due to utilisation of a mechanically decoupled innovative SuperInvar® resonator. The power control unit, in combination with a special stabilising system, exhibits an extremely high output stability, even with fluctuating mains supplies. A remote control module optimises the operating comfort with an integrated beam pointing indicator. The safety system inhibits operator misuse, thus ensuring a long operating life and personal safety.

Laser	D-20		D-5K		D-5AK		
Gasfilling	Argon		Krypton		Argon + Krypton		
Wavelength (nm)	Output Power		Output Power		Output Power		
Multi-Mode	457,9 - 514,5	> 20 Watt	647,1 - 676,0	> 5 Watt	476,2 - 676,4	> 6 Watt	
	488,0	> 6 Watt					
	514,5	> 7 Watt					
Single-Mode	457,9 - 514,5	> 15 Watt	676,4	> 1 Watt			
	488,0	> 4 Watt	647,1	> 3 Watt			
	514,5	> 6 Watt					
Single-Frequency	488,0	> 2.5 Watt	647,1	> 1 Watt			
	514,5	> 3 Watt					
Polarisation	100 : 1						
Divergence	< 1 mRad						
Beam-Diameter	2 mm		3 mm		3 mm		
Output-Stability	< 2% in 0,5 hr						
Mains Supply	380 VAC 3-Phase +/- 10%, 50 Hz						
Power Consumption	< 40 kVA						
Cooling	Water						
Warranted Lifetime of Lasertube	> 1000 hrs		> 500 hrs		> 500 hrs		
Average Lifetime	> 5000 hrs						
Dimensions and Weights							
Laserhead	1800 x 225 x 195 mm / 60 Kg						
Power Supply	500 x 500 x 140 mm / 50 Kg						
Rectifier	500 x 500 x 140 mm / 34 Kg						
Current Stabiliser	240 x 500 x 140 mm / 15 Kg						
Control Module	75 x 200 x 65 mm / 1,5 Kg						