



FCM
FCX
CO₂ Lasers Technical Data

	CX2500	CX3000	CM4000	CD4500	CX5000
Average Power	200-2500W	200-3000W	200-4000W	200-4500W	200-5000W
Wavelength	10.6µm				
Beam Propagation Factor M2 typical (Prometec)	2.1 - 2.5		2.0 - 2.4		2.2 - 2.6
Beam Divergence	1.5mrad half angle				
Beam Diameter at Output	14.5 mm @ 1/e2, 19 mm full beam				
PULSING					
Pulse Rep .Rate	0 - 2 kHz				
Pulse Width	>100 µseconds				
Ponting Stability	+/- 150µrad				
Diode Pointing Laser	Wavelength 635 nm, Power <1 mW				
Electrical Power Consumption	29kW	32kW	34kW	36kW	40kW
Voltage	400/600 Vac 3P				
Operating Environment (min/max)	10°C/40°C (50°F/104°F)				
Relative Humidity	<95% non-condensing				
COOLING					
Required Capacity	27kW	29kW	30kW	33kW	36kW
Inlet Temperature	18°C/20°C (64,4°F/68°F)				
Pressure	4 bar - 5 bar		3 bar - 7 bar		
Flow	133l/min				
Fluid	Distill Water / 35% Glycol				
Filter Requirement	500µm				
Gas Consumption - He (68%), N2 (36%), CO ₂ (4%)	5 - 15 l/hour				20 - 70 l/hour
Dimensions W x H x L (mm)	850 x 887 x 2551		884 x 960 x 3156		849,6 x 957 x 3119
Weight	1137 Kg		1200 Kg		
Protection Degree (IEC60529)	IP54 (NEMA 13 equivalent)				

