

LP2500 TECHNICAL SPECIFICATIONS:				
LASER TYPE	Pulsed CO ₂ , Transversely Excited At Atmospheric Pressure			
OUTPUT WAVE-LENGTH	10.6 Microns (Infrared)			
NOMINAL ENERGY DENSITY	HE - .5 J/cm SS - .4 J/cm LS - .4 J/cm MS - .3 J/cm HS - .2 J/cm			
BEAM DIVER-GENCE	10 mR (Full range, half power)			
MINIMUM BEAM SIZE	Rectangular 2.5 x 2.8 cm at 90% energy density, one meter from front optic			
PULSE DURATION	100 ns Peak (FWHM), with lower energy 4 μ s tail.			
PULSE DURATION	MAXIMUM Laser Cold, Fresh Gas Single Shot HE - 5.5 J SS - 4.4 J LS - 4.4 J MS - 3.3 J HS - 2.2 J		MINIMUM Laser Hot, Equilibrium Gas Max Rep Rate HE - 4.8 J SS - 3.8 J LS - 3.8 J MS - 2.8 J HS - 1.9 J	
MAXIMUM PULSE REPETITION RATE	MODEL	FREQUENCY	PPM	PPH
	HE	5 HZ	300	18,000
	SS	7 HZ	420	25,200
	LS	13 HZ 1	800	48,000
	MS	8 HZ	1080	64,800
	HS	25 HZ	1500	90,000
ELECTRICAL	115V / 15A or 230V / 10A, 50-60 HZ, Single Phase			
COMPRESSED GAS	Four component laser gas mixture: 16% nitrogen, 8% carbon dioxide, 4% carbon monoxide, balance helium. 99.99% purity. Laser gas consumption 0.07 scfh.			
COOLING WATER*	Flow 10 gph, maximum pressure 100 psi, maximum temperature 25 Degrees C, Minimum Temperature 10 Degrees C. *Only required when laser is run above 7 hz.			
LASER WEIGHT	Approximately 300 lbs.			