



Compact TEA CO₂ Laser

The Most Reliable TEA CO₂ Laser

Overview

Packaged into a single ergonomical enclosure with a corona pre-ionizer and solid state switch pulser delivering in excess of 7 billion pulses ensuring minimal down time.

Corona Pre-Ionizer

Improved stability and jitter by implementation of the corona pre-ionization.

Solid State Switch

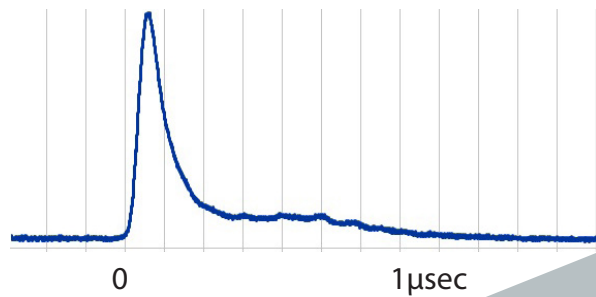
The all solid state switched pulse forming network provides extreme reliability.

Maintainability

Simple maintenance and service by virtue of easily removable enclosure covers.

Reliability

The new design is virtually maintenance free demonstrating 7 billion consistent pulses.

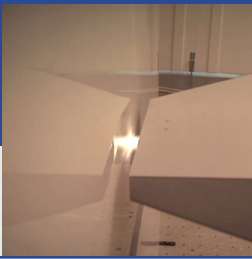


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Model	20/80	30/75	60/90	100/100	500/100
Wavelength - (μm)	9.2 - 10.8				
Repetition Rate - (Hz)	20	30	60	100	500
Pulse Energy - (J)	4	2.5	1.5	1	0.2
Average Output Power - (W)	80	75	90	100	100
Beam Size - (W x H) (mm)	30 x 30	20 x 20	20 x 20	15 x 15	10 x 10
Pulse Width - FWHM (ns)	50 - 100				
Output Stability - (1 sigma)	< 4%				
Pulse Timing Jitter - (1 sigma)	< 10ns				
Dimensions (L x W x H) (mm)	1150 x 650 x 600				
Weight (kg)	~ 300kg				
Gas Load Lifetime	> 100,000,000 Pulses (With Catalyst Option)				
Electrical Voltage	110V, 208V, 230V 50/60Hz				
Phase	Single Phase				
Pulse Circuit	Solid State Switched				
Pre-ionization	Corona Pre-Ionized				
Cooling Service Requirements	Temperature stabilized, closed loop chilled water supply with temperature at 18°C, with a heat removal capacity of 3kW.				
Options	Agile wavelength tuner, manual wavelength tuner and gas regeneration catalysts				

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Applications

- Non-Destructive Testing (NDT)
- Wire Stripping
- Light Detection and Ranging (LIDAR)
- Extreme Ultraviolet (EUV) Generation
- Material Surface Treatment
- THz Imaging
- Mould / Die Cleaning
- Surface De-Coating
- Paint Removal



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