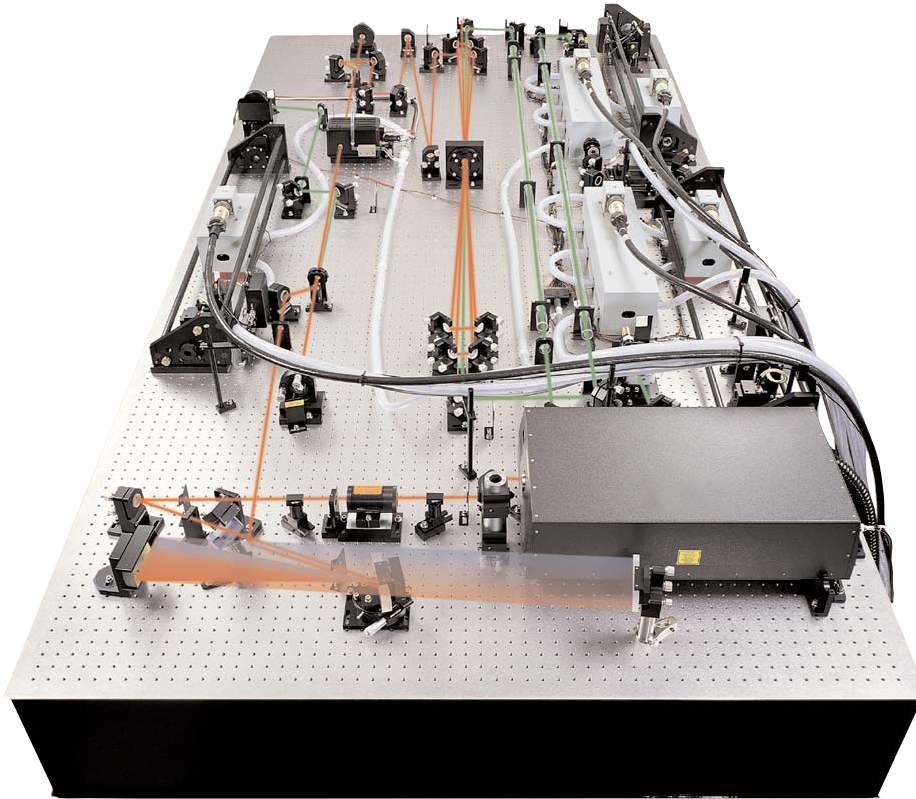


Terawatt System

CUSTOM LASERS

WORLD'S LEADING SOURCE OF LASER SOLUTIONS



CHIRPED PULSE AMPLIFICATION SYSTEM
Delivering over 4 TW peak power

TERAWATT LASER SPECIFICATIONS

DESCRIPTION	
Total Energy	> 200 mJ
Pulselwidth	< 100 fs
Repetition Rate	10 Hz
Wavelength	750 nm - 900 nm
Shot to Shot Stability	< 2.5 % R.M.S.
Contrast Ratio	< 10 ⁶ : 1
M ²	< 2

All specifications subject to change without notice.

A **Ti:Sapphire Terawatt laser** system is a high-energy chirped pulse amplifier for a customer selected mode-locked source. The all reflective pulse-expander seeds the regenerative amplifier. This design employs negative/positive cavity mirrors to generate a large intracavity mode, ensuring reliable long term operation. Zero Volts amplification allows for spectral modulation free amplification. Further amplification is performed in a multi-pass bowtie amplifier pumped by Continuum's time honored Powerlite™ Series lasers. Compression following the amplifier results in beams suitable for a wide range of experiments such as solid density plasma studies or high order harmonic generation.

The world's greatest Terawatt lasers are built by Continuum's Custom Laser Group. Continuum® produced the first commercially available Ti:Sapphire Terawatt system in 1992. Since then, Continuum® has been producing systems with ever increasing technological advances.

The Custom Laser Group

The Group contains over 100 years of combined experience in the custom laser field. With the design history of hundreds of systems to draw upon, systems are confidently designed. Continuum's world renowned project management results in timely and predictable delivery.

Modular Design

Continuum's custom lasers are built with modularity in mind. The modules used by the Custom Laser Group are the same modules found in Continuum's standard laser product line giving the systems the benefit of time-proven reliability. Continuum's Ti:Sapphire lasers are built to be flexible, versatile, and easy to upgrade.

By building these systems with readily available standard components, our entire service organization is automatically capable of servicing the laser, allowing our customers to have the same quick, reliable service that they would receive with the standard laser lines.

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