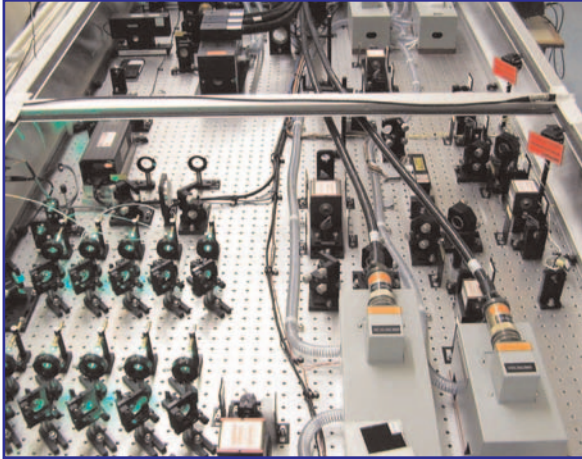


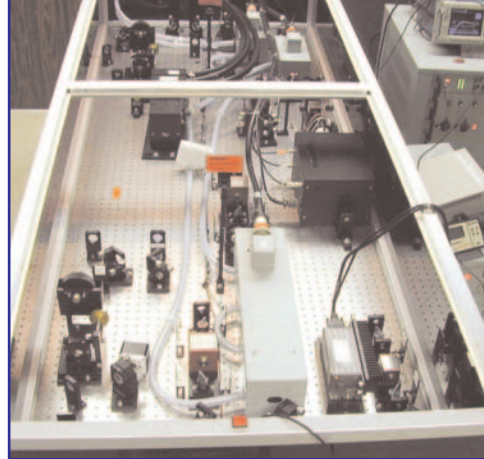
Macropulse System

CUSTOM LASERS

WORLD'S LEADING SOURCE OF LASER SOLUTIONS



FIBER COUPLED MACROPULSE SYSTEM
Delivering 50 mJ per channel in 60 μ s pulse at 532 nm

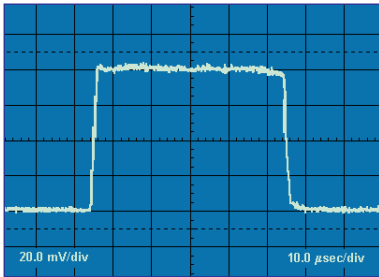


Nd:GLASS MACROPULSE SYSTEM
Delivering 4 J of 532 nm at 40 μ s

MACROPULSE LASER SPECIFICATIONS

DESCRIPTION	
Total Energy	< 300 J
Pulsewidth	4 ns - 100 μ s
Repetition Rate	single shot - 100 Hz
Wavelength	200 nm - 1400 nm
Linewidth	down to 2 MHz

As a part of our continuous improvement program, all specifications are subject to change without notice.



50 μ s flat top temporal profile at 532 nm

A Macropulse laser system is based on a CW or modelocked source. This source is passed through one of a wide range of modulators to define the desired output pulse width and temporal shape. The selection of the proper modulator is based on the output requirements of the customer. High energies are obtained through the use of multiple amplification stages, with pulse shaping used to combat the effects of gain depletion.

The world's greatest macropulse lasers are built by Continuum's Custom Laser Group. With systems such as multiple joules of 532 nm light in 40 μ s for Doppler Shift Velocimetry and high power microsecond 660 nm for the National Ignition Facility, Continuum® has proven that its Custom Laser Group can meet the demanding design requirements for world class laboratories.

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 macropulse lasers are built to be flexible, versatile, and easy to upgrade.

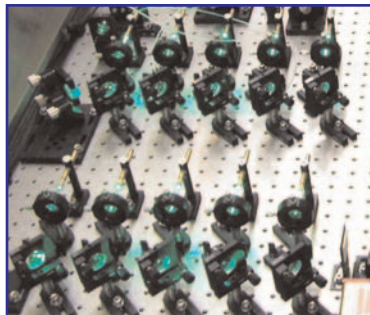
By building these systems with readily available standard components, our entire service organization is automatically capable of servicing the laser, allowing our customers to have the same quick, reliable service that they would receive with the standard laser lines.

Applications:

- Doppler Shift Velocimetry
 - Non-destructive testing
 - Plasma diagnostics
- Long period illumination
- High repetition rate imaging
- Photo-cathode illumination
- Flow visualization
- OPCPA pumping



Doppler Shift Velocimetry at 660 nm for Plasma Diagnostics



Custom Beam Farm for Multiple Point Doppler Shift Velocimetry

ISO 9001
Quality Assured



MACROPULSE SYSTEM