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## Mode Locked Fibre Laser

# **FLS100**

This all-PM fibre laser system is designed as a high reliability seed laser for femtosecond micromachining systems and confocal microscopy. The laser produces linearly chirped pulses capable of compression to sub-picosecond duration at a variety of repetition rates.

## **Target Applications**

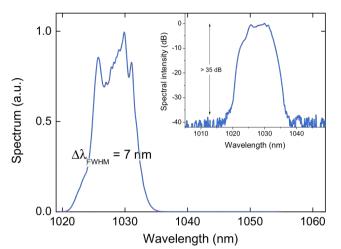
One micron wavelength seed laser for chirped pulse amplification.

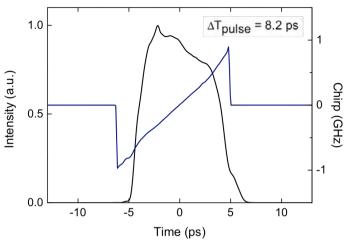
### **Key Features:**

- All PM fibre construction.
- No saturable absorber.
- No free space optics.
- Self starting.
- Available with repetition rates between 1MHz-15MHz.
- Integrated software controller.
- Grating compressor and preamplifier available as an option.









Typical spectrum, pulse shape and chirp of a 10MHz laser. These pulses could be compressed to about 300fs utilising a simple grating compressor due to the excellent linearity of the chirp.

#### Specifications:

Centre Wavelength	1030nm (other wavelengths available)
Repetition rate	1-15MHz(customer specified)
Bandwidth	5-20nm depending on power and repetition rate
Average Output power	10mW (100mW option)
Output polarization	Linear
PC Interface	RS232 or RS485
Dimensions	260(W) X 260(D) X 65(H)mm
	(OEM packaging available)
Power Supply	5VDC 15W

#### All specifications are subject to change without notice, please check with us for latest specifications

#### Note:

Bandwidth and spectral shape can be optimised for customer applications. Bandwidth also depends upon the repetition rate and output power, but all lasers produce pulses capable of compression to sub picosecond duration (typically <500fs).

Systems for the generation of very short (<150fs) pulses can also be supplied to special request.