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[Home](#) > [Products](#) > [Lasers: Diode Lasers](#) > [Fibre Coupled Lasers](#)

# Fibre Coupled Lasers



## FERMION I SERIES TURNKEY FIBRE COUPLED LASERS

TECHNOLOGY FROM: [MICRO LASER SYSTEMS](#)

**Typical Power Output:** 10mW-50mW  
**Wavelengths:** 405nm-1600nm

The Fermion I Series of Turnkey Fibre Coupled Lasers are designed to make using lasers easy and convenient. These systems have higher output powers, typically 10-60mW coupled to single mode fibre, versus 1mW or less that is usually available. A range of discrete wavelengths cover the span from 405nm to 1600nm.

Internally the lasers are coupled to single mode fibre for that particular wavelength. All lasers are temperature controlled for highest stability. Output is spatially filtered and can be adjusted from zero to full power using the knob or an external voltage source. The laser can run in [CW](#) or pulsed mode and includes one metre of fibre patch cord.

Output of the fibre can be collimated with an [FC](#) Series of fibre collimators with adjustable focus. They are available with apertures from 5mm to 45mm and give beam sizes from 2mm to 33mm. Receptacles on the collimators are either FC or FC/APC.

[PM](#) fibre versions or multimode fibre versions are also available.

### KEY FEATURES

- 405nm to 1600nm
- High output powers from single mode fibre
- High stability
- Narrow line widths
- Variable output
- Modulation to 2 MHz
- Certified turnkey system



## FERMION III SERIES HIGHER POWER FIBRE COUPLED LASERS

TECHNOLOGY FROM: [MICRO LASER SYSTEMS](#)

**Power Output:** 0-490mW  
**Wavelengths:** 375nm-1064nm

The Fermion III Series of Turnkey Fibre Coupled Lasers are designed to make using lasers easy and convenient. These systems have higher output powers, typically 50 to 490mW coupled to 100 micron core fibre. A range of discrete wavelengths cover the span from 375nm to 1064nm.

Internally the lasers are coupled to 100 micron core fibre. All lasers are temperature controlled for highest stability. Output can be adjusted from zero to full power using the knob or an external voltage source. The laser can run in [CW](#) or pulsed mode. It includes one metre of fibre patch cord.

Output of the fibre can be collimated with the FC Series of fibre collimators with adjustable focus. They are available with apertures from 5mm to 45mm.

### KEY FEATURES

- 375nm to 1064nm
- Narrow line widths
- Up to 490mW
- Variable output
- High stability
- Certified systems



## FIBRE COUPLED LASERS OEM VERSION

TECHNOLOGY FROM: [MICRO LASER SYSTEMS](#)

**Power Output:** 6mW-120mW for Single mode and PM fibres  
**Wavelengths:** 405nm-1600nm

The SRT-F Series of Thermoelectric Cooled Fibre Coupled Diode Lasers are designed for instrumentation and research applications requiring high stability, remote application, or true Gaussian profile of a diode laser. The diode laser's output minimises mode hops and can be slightly tuned.

The package is compact and rugged with a 3mm durable fibre cable which is pre-aligned and fixed at the factory. Optional

900 micron jacket or stainless steel sheath is also available. System includes diode laser, coupling optics, single mode fibre, TE cooler, thermistor, heat sink all integrated into a compact package and drivers.

With single mode fibre, the diode laser's output is spatially filtered and Gaussian. This is ideal for applications such as holography, interferometry, free space communications and metrology. Optional polarisation maintaining fibre can also be integrated. Multimode fibre is also available for higher throughput.

Fibre collimators of various beam sizes are also available for collimating the output of the fibre for a clean beam.

**KEY FEATURES**

- Single mode or [PM](#) fibre
- Higher output powers
- Large selection of wavelengths
- Rugged construction

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