

Laser Fibres for Veterinary Applications

Excel Lasers brings 20 years of medical fibre manufacturing expertise to a range of veterinary fibres, built at our UK facility. All fibres are manufactured using medical grade components under controlled conditions to ensure that we always supply consistent, high quality and reliable products.

A standard SMA connector makes the range compatible with most lasers available today. To enhance usability the connector is fitted with a moulded ergonomic grip, adding strain relief of the fibre at the laser port.

In most situations the bare-tipped fibres are suitable for multiple re-use by cutting back using the appropriate tools.

Details of the fibres that we offer are shown below, with ordering information overleaf. Please contact us if you require a specific fibre type not listed, as we manufacture custom items to order.



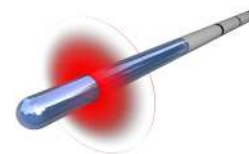
Bare tipped fibres

Available in 600 µm and 1000 µm core sizes. The larger diameter is ideal for removal of larger masses in contact mode.



Conical tipped fibres

Available in 600 µm core size. Used where precise incision with minimal heating of surrounding tissue is required.



Radial tipped fibres

Available in 600 µm core size with 1.6 mm diameter atraumatic rounded tip. Delivers energy evenly in one plane through 360°

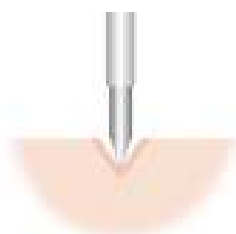
Advantages

Laser energy which is delivered by a light and flexible optical fibre has a number of advantages over the articulated arm source of a CO₂ laser:

- Allows access into areas and at angles that are difficult for articulated arm lasers to reach. This can help the patient to be positioned comfortably or even standing
- Can be used for internal procedures through minimally invasive techniques avoiding large wounds and reducing the potential for infection and scarring
- When used in a fluid environment the 810 nm wavelength laser energy will target pigmented tissue rather than heat the water content in the surrounding area

Modes of Use

When delivered by a flexible optical fibre, laser energy can be used at different powers and in different modes to achieve distinct and highly controllable effects on tissue.



Contact Mode

For incision, excision, vaporisation or coagulation of soft tissue, the laser fibre is used in 'contact' with the tissue using sculpted tip or bare end fibres.



Non-contact Mode (Free Beam)

To simply achieve vaporisation or coagulation of tissue, a bare end fibre is held a short distance from the target.

EXCEL LASERS
Making Light Work

Quality Management System certified to ISO 13485

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VETERINARY ACCESSORIES

Fibre Tools

Correct use of these tools to reprocess our fibres will reduce the chances of "burn-back", prolong the useful life of a fibre and reduce the risk of damage to the laser.



Fibre SMA cleaning cassette

Use to clean the SMA tip before attaching to the laser. Ensures optimal energy transmission and reduces the risk of damage due to a burnt fibre tip.

ELA028FIB



Fibre stripping tool

Removes the protective sheath without damage to optical cladding, or the fibre itself.

ELA033FIB 1000 µm fibre

ELA032FIB 600 µm fibre



Fibre cleaving tool

Provides a clean cut to the optical fibre, unlike scissor types which crush and create a shattered or chipped tip.

ELA031FIB

Fibre Handpieces

To support our fibres we have a selection of hand pieces designed to aid access and precise control of the fibre tip.

Order Ref.	Description
ELA600-40HP	Handpiece for 600 micron fibres
ELA1000-40HP	Handpiece for 1000 micron fibres
ELA600M110HP	Handpiece, with extended malleable tip, for 600 micron fibres



Laser Safety Eyewear

We have a wide range of laser safety eyewear, in a variety of styles, covering all types of lasers. Please contact us for a brochure and for free advice on the best choice of eyewear for your circumstances.



Fibre Ordering

Order Ref.	Core size (Microns)	Outer diameter (mm)	Length (m)	Application
ELF600V	600	1.04	2.7	General surgical applications
ELF600V4	600	1.04	4.0	Long, for endoscopic procedures
ELF600V5	600	1.04	5.0	Extra long, for endoscopic procedures
ELF1000V3	1000	1.5	3.0	Larger diameter, more robust for sarcoid removal
ELF600CON	600	0.9	3.0	For delicate surgery. 300 µm tip. Sterile.
ELF600RAD	600	1.6	3.0	Treatment of fistulas. Sterile.

Please note that, unless otherwise stated, our fibres are supplied non-sterile

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