Coloplast TFL Drive

Thulium Fiber Laser (TFL)

*Power made safer**

Experience the power of advanced Thulium Fiber Laser (TFL) technology with the Coloplast TFL Drive. Our innovative all-in-one laser system for lithotripsy, BPH and precise soft tissue treatments was designed by surgeons for surgeons. Its intuitive graphical interface, surgical versatility and cutting-edge technology provides confidence and support in the OR.

Cutting-edge technology

- Deliver highly effective intra-operative performance with the latest Thulium Fiber Laser (TFL) technology
- Reduce treatment times due to:
  - Finer and faster dusting capabilities
  - Less stone retropulsion
  - Pre-settings for stones (75%) and BPH (71%) compared to same device used without pre-settings
- Plug and play device for easy setup and use with **standard wall power outlets**
- Enjoy low noise levels thanks to the machine's **quiet air-cooling technology**

All-in-One solution

- Gain a cost-effective, all-in-one laser system for lithotripsy, BPH and precise soft tissue surgery
- Achieve surgical versatility and high clinical performance in one machine

Coloplast

* User interface designed with warning limits for safer use

Safety & support

With the Coloplast TFL Drive, you can deliver the power of innovative laser technology while managing safety thanks to our intuitive graphical interface. This interface allows you to quickly select appropriate treatment parameters. It guides you through setup of the fiber/pre-setting combination for specific clinical situations. And its dial-like dashboard lets you view highlighted nominal values and optimization areas.

To optimize effectiveness in specific conditions, the device also features pre-settings that adapt energy, frequency and power values to the size of fiber used. The pre-settings improve users' confidence in using this laser system. And, when pre-defined power limits are exceeded, you'll receive an alert.

Review energy, power and frequency values before starting procedure

Choose setting

Choose treatment area and treatment type

Laser fibers

The Coloplast TFL Drive operates with a large range of fibers depending on the application, flexibility and settings required. The Coloplast TFL Drive has been designed for use with both ***single-use and reusable fibers**.*

* 150µm and 600µm fibers are only available in single-use

The sizes we offer include: 150µm, 200µm, 272µm, 272µm ball tip, 365µm, 550µm, 600µm (lateral flow), 800µm and 1000µm.

For greater scope flexibility, it's suitable for use with the smallest fibers (150µm), freeing up space inside the uretero-scope working channel to increase irrigation and visibility.

Design and technology features

Laser Specifications

Laser Classification	Class 4
Laser type	TFL (Thulium Fiber Laser)
Wavelength	1940 nm ± 20nm
Max pulsed energy	0.02 - 6 J
Repetition rate	1 - 2500 Hz
Max power	60 W (CW and pulsed mode)
Operating mode	Pulsed (single or multiple) / CW
Pulse duration	50µs - CW
Aiming Beam	Green 532nm (adjustable) < 5mW, class 3R

Technical Specifications

Classification of Medical Device Directive	Class IIb
Electrical requirements	100–240 Vac; 50/60 Hz; 1000VA
Dimensions	470 (W) x 810 (D) x 1156 (H) mm – display standing up 470 (W) x 810 (D) x 940 (H) mm – display closed
Weight	100kg
Cooling system	Air cooling system
Protection against electric shock	Class 1 / Type BF

Coloplast TFL Drive Laser Fibers BRIEF STATEMENT

Indications
Single Use Lateral and 150µm Optical Fibers are intended to be used to deliver the laser radiation to the target tissue when used with any cleared/certified surgical laser with operational wavelengths between 532 nm – 2200 nm equipped with SMA 905 or SMA 906 or compatible connector, as per the indications of the laser device used with.

Indications – Single Use and Reusable Optical Fibers
Single Use and Reusable Optical Fibers are intended to be used in conjunction with any cleared surgical laser distributed by Coloplast equipped with SMA 905 or SMA 906 or compatible connector for use in general surgical applications (incision, excision, vaporization, ablation, hemostasis or coagulation of soft tissue in contact or non-contact mode). Optical Fibers are also indicated for use in open or closed endoscopic applications where incision, excision, tissue dissection, excision of external tumors and lesions, complete or partial resection of internal organs, tumors or lesions, tissue vaporization, hemostasis and or coagulation may be indicated. The Optical Fibers are indicated for use in general surgery, urology, gastroenterology, gynecology, dermatology, vascular surgery, neurosurgery, plastic surgery, ENT/otolaryngology, endovenous occlusion of the greater saphenous vein in the patient with superficial vein reflux and laser assisted lipolysis. Optical Fibers are also intended as an aid for otologic procedures, for use in incision, excision, coagulation and vaporization of soft and fibrous tissue including osseous tissue, and for use in lithotripsy. Optical Fibers are indicated for use with laser devices emitting radiation from 532 nm to 2100 nm, with pulsed and continuous wave (CW) emission mode, and, but not limited, for use with Diode laser, Argon, KTP/532, Ho:YAG, Nd:YAG, Tm:YAG pulsed and continuous wave CW laser devices. Optical Fibers may be used in surgical specialties or procedures for which compatible lasers have received regulatory clearance: for a complete information about applications, contraindications, precautions and warnings when using Optical Fibers it is necessary to refer to the applicable laser device User Manual.

Warnings and Precautions - Single Use, Single Use 150µm and Reusable Optical Fibers
Optical Fibers shall be used by trained and qualified users only. Reuse, reprocessing or resterilization may compromise the structural integrity of the device and/or lead to a device failure which, in turn, may result in patient injury, illness or death (For Single Use Fibers Only). On patients with confirmed or suspected Transmissible spongiform encephalopathies (TSEs), also known as prion disease, use only Single-use Sterile Optical fibers.

Potential Complications - Single Use, Single Use 150µm and Reusable Optical Fibers
Complications that could occur during laser treatments include local and/or systemic infection, thermal changes to the surrounding structures, local hematoma, dissection and perforation, tissue adhesion, distal tip detachment, and discomfort during and/or after (laser) energy application. In the unlikely event of a detached tip, it may be visually located through an appropriate scope and removed using forceps. Irrigate the area thoroughly to remove any traces of the tip. The information provided is not comprehensive with regard to product risks. For a comprehensive listing of indications, contraindications, warnings, precautions, and adverse events refer to the product's Instructions for Use. Alternatively, you may contact a Coloplast representative at 1-800-258-3476 and/or visit the company website at www.coloplast.com.

Caution: Federal law (USA) restricts this device to sale by or on the order of a physician.

Minneapolis, MN
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Coloplast TFL Drive BRIEF STATEMENT

Indications
The Coloplast TFL Drive laser device and its accessories are intended for incision, excision, resection, ablation, coagulation, hemostasis, and vaporization of soft tissue with or without an endoscope, in the following indications: Urology, Lithotripsy, Gastroenterological Surgery and Gynecological Surgery.

Contraindications
The use of the laser is contraindicated:
- In patients whose general medical condition contraindicates surgical intervention.
- When appropriate anaesthesia is contraindicated by patient history or inability to receive anesthesia.
- Where tissue (especially tumors) is calcified.
- For hemostasis of vessels with diameters over approximately two millimeters.
- Where laser therapy is not considered the treatment of choice.
- In patients who have recently undergone radiotherapy. Such patients may be at greater risk of tissue perforation or erosion.
- In patients unable to receive endoscopic treatment.
- In patient suffering from bleeding disorders and coagulopathy.
- Diagnosed with acute or chronic prostatitis, prostate cancer, or severe urethral stricture.
- Diagnosed at the time of treatment with acute or chronic urinary tract infection.
- Patients with compromised renal function or upper urinary tract obstructive diseases.
- Patients who still wish to have children.
- Patients with an ASA classification of physical status 5.
- Patients with a prostate gland > 120g.

Warnings and Precautions
Clinical studies have shown that patients who have undergone radiation therapy present a greater risk of perforation or tissue erosion. The Coloplast Drive Laser System is a surgical device that should be used only by physicians or surgeons who have been thoroughly trained in laser surgery. Surgeons using Coloplast TFL Drive Laser System must understand the laser's unique properties prior to using the device. As with conventional endoscopic surgery, the possibility of complications and adverse events (such as chills, fever, edema, hemorrhage, inflammation, tissue necrosis or infection) may occur following treatment. In extreme cases, death may occur due to procedural complications or concurrent illness. The laser may not be effective for coagulation in massive haemorrhage situations. The surgeon must be prepared to control haemorrhages with alternative non-laser techniques, such as ligature or cautery. The risk of infection and scarring associated with any surgical procedure has to be taken into account. Tissue perforation may result if excessive laser energy is applied. This could occur through the use of excessive laser power or the application of a correct power for excessive periods, particularly in diseased tissue. The use of mechanical pressure on the Single-Use and Reusable Optical Fiber devices does not increase its cutting or vaporization effects but may induce bleeding, thermal damage and fiber destruction. The manufacturer has no clinical information or experience concerning the use of the Laser System on pregnant women or nursing mothers. There is no guarantee that treatment with the Laser System will entirely eliminate the disease. Repeated treatment or alternative therapies may subsequently be required.

Potential Complications
Complications and risks are the same of the conventional laser surgery. Acute pain may occur immediately following laser therapy and may persist for as long as 48 hours. Immediately following laser therapy, the patient may experience fever and leucocytosis, which are commonly associated with tissue destruction. These generally resolve without treatment. Laser ablated tissue may become necrotic or infected after treatment. In case of concerns about any possible infection, appropriate treatment should be carried out. Acute complications and non-thermal risks include induced hemorrhage, ulceration, perforation, edema, pain, fever, leukocytosis, and chills. Critical complications and thermal risks include healing delay, perforation, stenosis, delayed hemorrhage, sepsis, and embolism. The following complications could be serious and could result in death:
- Patients may experience bleeding at the site of laser therapy. Haematocrit analysis after treatment is recommended to identify this potential complication.
- Sepsis can result from performing any surgical procedure. In case of concerns about any possible sepsis, appropriate evaluations should be made.
- Perforation may occur as a result of laser treatment. In order to diagnose perforations, patients must be carefully followed post-operatively with appropriate tests.

The information provided is not comprehensive with regard to product risks. For a comprehensive listing of indications, contraindications, warnings, precautions, and adverse events refer to the product's Instructions for Use. Alternatively, you may contact a Coloplast representative at 1-800-258-3476 and/or visit the company website at www.coloplast.com. **Caution:** Federal law (USA) restricts this device to sale by or on the order of a physician.

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Ostomy Care | Continence Care | Wound and Skin Care | Interventional Urology | Voice and Respiratory Care

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