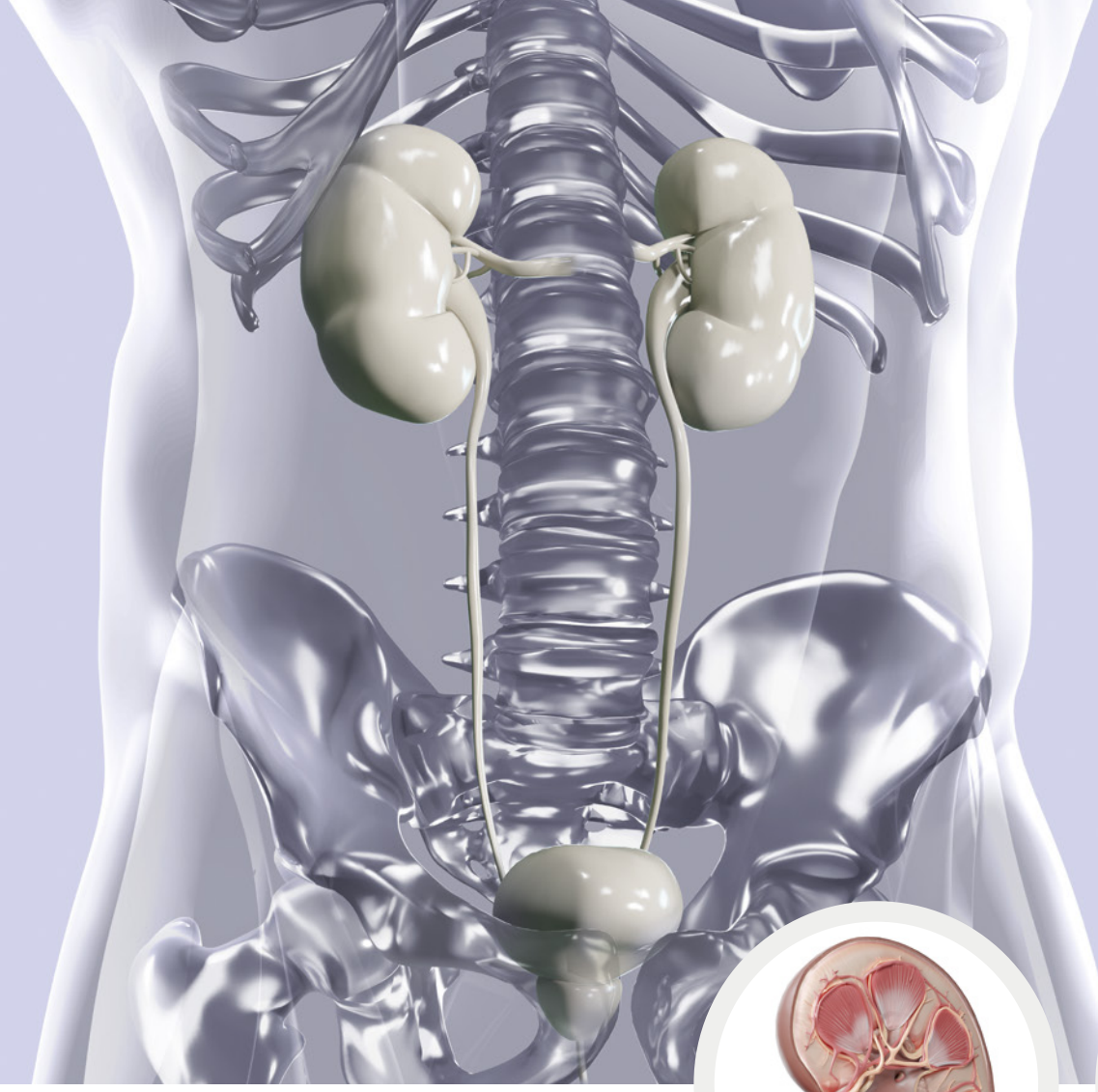
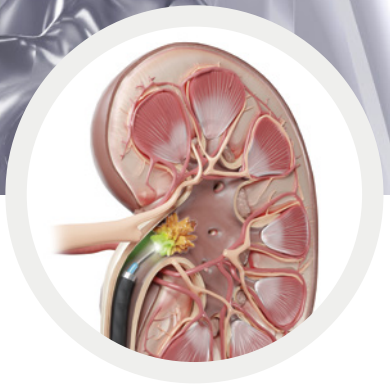
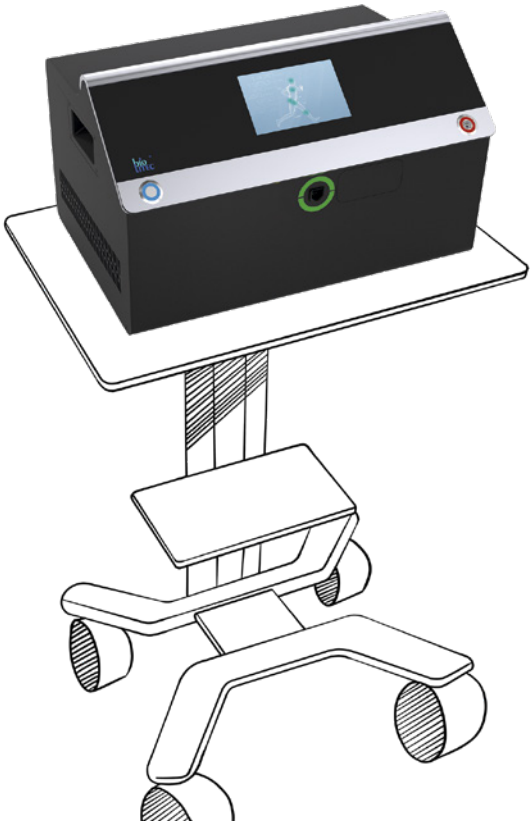




UROLOGY

LEONARDO® DUSTER

Thulium Fiber Laser



Technology
meets Anatomy

Why LEONARDO® Duster?

FINE DUSTING

Dusts urinary stones 3-4 times finer compared to the Holmium YAG laser.[1]

MINIMAL RETROPULSION

The TFL laser allows precise fragmentation and quicker procedure due to less stone displacement.[2]

QUICK DUSTING

The Duster laser ablates stones 3 times faster compared to the Holmium YAG laser.[3]

FIBER RANGE

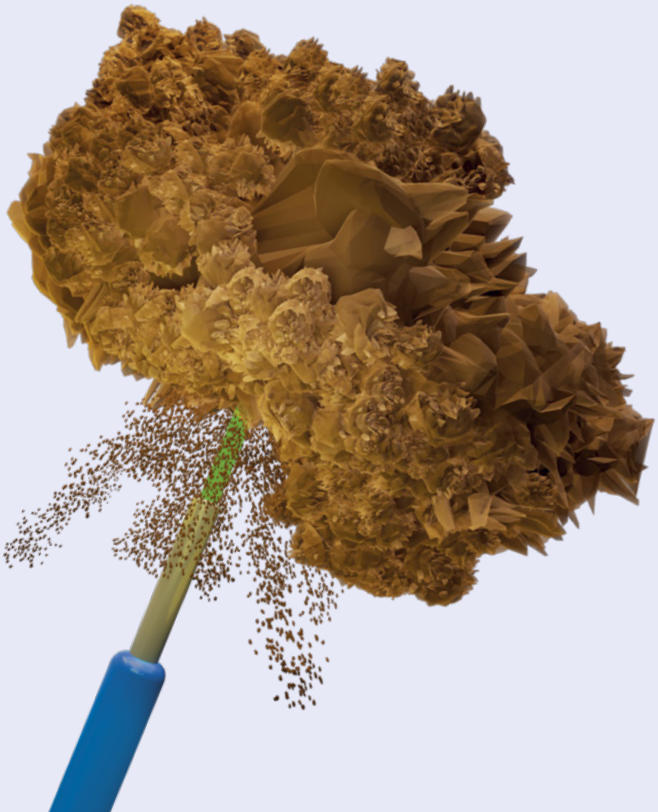
Fibers offered from 150 to 1000 microns for lithotripsy, BPH and soft tissue treatments.

SOFT TISSUE ABLATION

Soft tissue treatment can also be performed using the same laser. Procedures like BPH enucleation and vaporization can be performed precisely.

ECONOMICAL

Making it more accessible for surgeons.



[1] 1 Tzelves L, Somani B, Berdempes M, Markopoulos T, Skolarikos A. Basic and advanced technological evolution of laser lithotripsy over the past decade: an educational review by the European Society of Urotechnology Section of the European Association of Urology. Turk J Urol. 2021;47(3):183–92. doi: 10.5152/tud.2021.21030.

2 Kronenberg P, Hameed BZ, Somani B. Outcomes of thulium fibre laser for treatment of urinary tract stones: results of a systematic review. Curr Opin Urol. 2021 Mar 1;31(2):80-86. doi: 10.1097/MOU.0000000000000853.

[3] Traxer O, Corrales M. Managing Urolithiasis with Thulium Fiber laser: updated real-life Results-A systematic review. J Clin Med. 2021;10(15):3390. doi: 10.3390/jcm10153390.

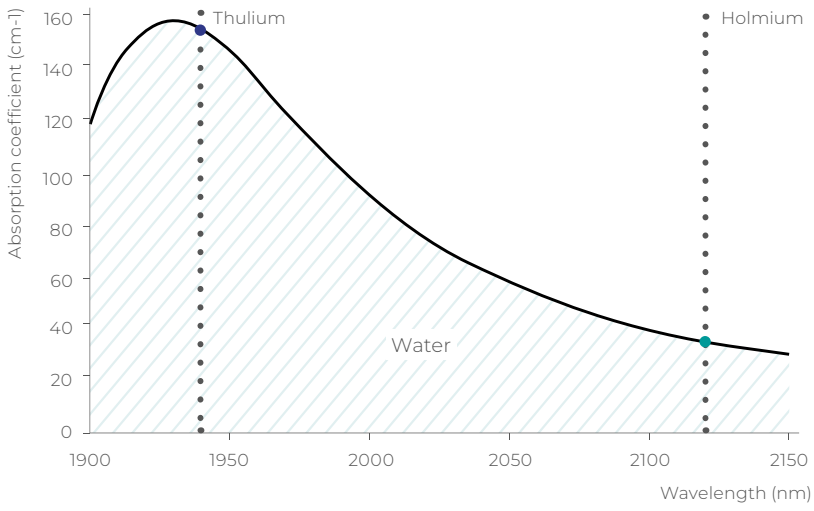
Versatile Laser in Urology

LEONARDO® Duster can treat multiple urological conditions. The versatile functions include treating a wide range of clinical conditions such as stones (Dusting, Fragmentation and Popcorning), benign prostatic hyperplasia (enucleation or vaporization) or soft tissues treatments.

VARIOUS MEDICAL APPLICATIONS

- Lithotripsy – Dusting, Fragmentation & Popcorning
- Benign Prostatic Hyperplasia (BPH) Enucleation & Vaporization
- Other Soft Tissue Treatment

Water absorption coefficient of Thulium Fiber Laser and Holmium YAG Laser



Better Absorption

Experience the Future of Urology with Thulium Fiber Laser Technology!

The latest Thulium Fiber Laser Technology is set to redefine urology, surpassing the Holmium YAG laser in the treatment of urinary stones, prostate conditions, and soft tissue treatments.

Introducing the New LEONARDO® Duster – a cutting-edge solution powered by a 60 W 1940 nm Thulium Fiber Laser, delivering unmatched precision, efficiency, and versatility. Elevate your practice with the next generation of laser technology!

LOW MAINTENANCE

The Thulium Fiber Lasers are designed for maximum efficiency with minimal upkeep. The solid-state technology ensures long-lasting performance, reduced downtime, and lower operating costs, making them a hassle-free solution for modern urology practices.

EASY TRANSPORT

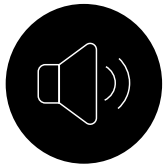
Smaller footprint allows the Duster laser to be mounted on trolleys. The machines can be easily transported between operating rooms.

POWER LOCK MODE

A unique safety feature that locks the power at a desired value while still allowing adjustments to energy and frequency to perform the treatment, such as the ureters.

LED WARNING RING

The LED ring shows system status at a glance: green means ready, pulsing orange means standby, and solid orange with sound means the laser is active. Adjust the brightness to the OR lighting conditions.



ADJUSTABLE AUDIO LEVELS

LEONARDO® Duster features adjustable audio alerts to ensure warnings are always heard — even in noisy environments.

LEONARDO® Duster

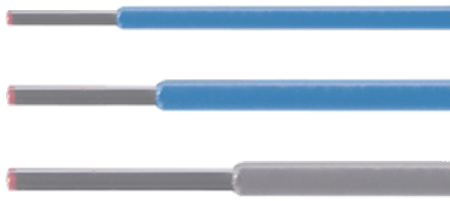
One device for multiple urology applications

LEONARDO® Duster

Super pulsed Thulium Fiber Laser

High Quality Biolitec® laser fibers

ranging from 150 to 1000 microns



Technical Specifications

Model	LEONARDO® Duster
REF	TFL1940nm60W
Wavelength	1940 nm ± 3 nm
Max average power	60 Watt
Max peak power	600 Watt
Pulse energy	0.02 – 6 J
Aiming beam	Laser diode, green 525 nm (adjustable) < 1mW, class 3R (brightness adjustable)
Treatment mode	CW / Superpulsed
Pulse duration	42 µs to 20 ms
Repetition rate	1 to 2500 Hz
Power supply	110 – 240 VAC, 50/60 Hz
Dimensions (H × W × D)	37.8 cm × 57.7 cm × 36.8 cm
Weight	42.5 kg

All laser sets incl. 3 safety goggles, foot switch, power cord and manual.
Fibers are offered in sizes ranging from 150 to 1000 microns.

Accessories

REF	Product	PU*
LA3131	LEONARDO® Duster Trolley	1
SA2895	PeliCase	1

*Packing unit

CONTACT US

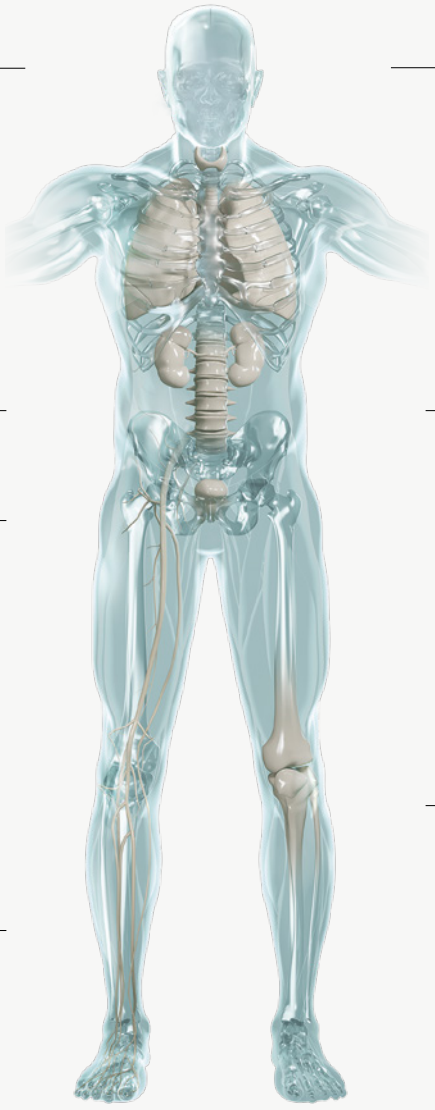
To Learn More About a Whole New World of Minimally Invasive Laser Therapies

ENT

Aesthetics

Thyroid Treatment

Thoracic Surgery



Aesthetics

Orthopaedics & Pain Management

Urology

Gynaecology

Proctology

Orthopaedics & Pain Management

Phlebology

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