

UROLOGY

OVERVIEW OF MINIMAL INVASIVE LASER THERAPIES



Technology
meets Anatomy



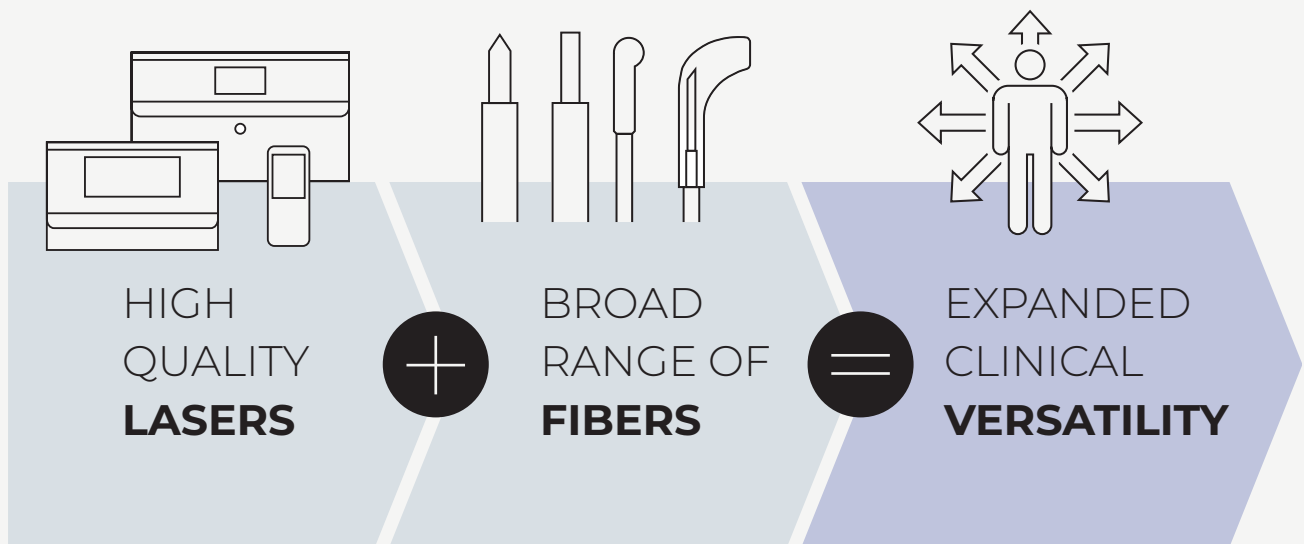
EXPERIENCE THE TRUE VERSATILITY OF OUR LASER PORTFOLIO

- Lithotripsy
- BPH
- Bladder Tumors
- Prostate Cancer
- Soft Tissue Treatment
and more...



Your One-Stop-Shop for Laser Urology

Biolitec® offers the most versatile platform in urology, featuring the broadest portfolio of laser and fiber solutions. Our products are designed for maximum clinical flexibility. Our technology empowers surgeons to treat a wider range of patients while accelerating your return on investments.



biolitec®, with expertise spanning over three decades, has fully integrated its value chain – evolving from laser and fibre R&D to in-house production and an unmatched service. This

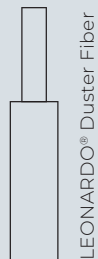
holistic approach allows us to deliver cutting-edge solutions across a broad spectrum of urological applications, all underpinned by the trusted quality of “Made in Europe”.

Applications in Laser Urology



BPH-BENIGN PROSTATIC HYPERPLASIA

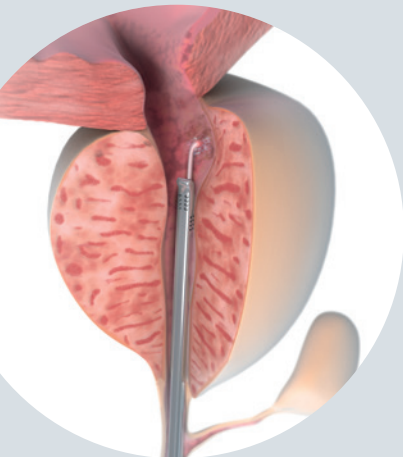
BPH Enucleation



LEONARDO® Duster Fiber

- Minimally invasive procedure with standard cystoscopes or resectoscopes
- Shorter operative and enucleation time
- Superior hemostasis
- Treat prostate of all sizes- from small to large volume
- Reduced catheterization and hospital stays

BPH Vaporization



XCAVATOR® Fiber

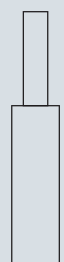
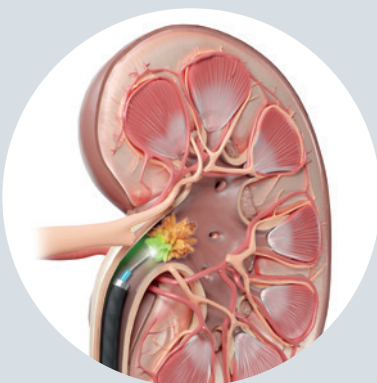


TWISTER Fiber

- Specially designed fibers for fast and efficient ablation
- Large contact surface for wider tissue vaporization
- Smooth intra-surgical surfaces
- Easy control fiber – better tactile feedback
- Optimized visuals of the surgical site
- Well tolerated among high-risk patients
- Shorter catheter time and fast recovery
- Shorter hospital stays

STONE MANAGEMENT

TFL Lithotripsy

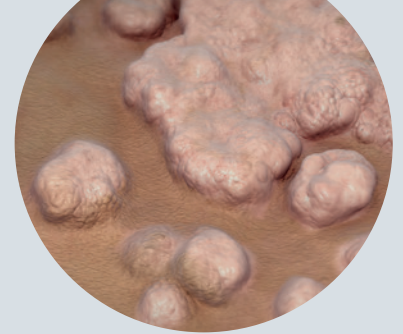


LEONARDO® Duster Fiber

- TFL promises superior dusting and faster stone ablation compared to any other stone treatments
- Effective across all stone types
- Higher stone free rates
- Minimal retropulsion – less migration of stones
- Smaller core fiber allows flexibility, easy access to difficult anatomical location and better irrigation
- Reduced risk of tissue damage
- Focused laser beam
- Shorter procedure time

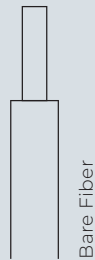


SOFT TISSUE ABLATION



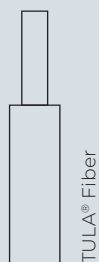
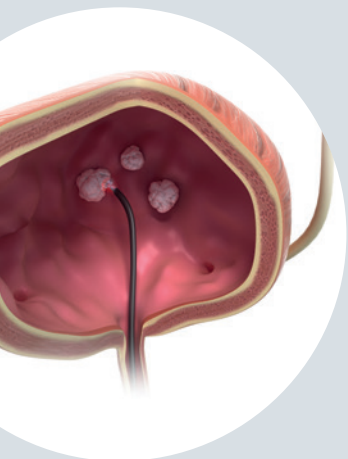
Condyloma

- Comfort – focused gentle laser treatment
- Outpatient procedure
- Smooth surface after the treatment
- No scarring with good aesthetic results
- Reusable handpiece for enhanced cost-effectiveness



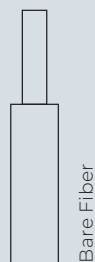
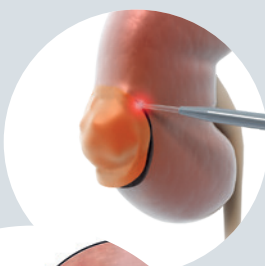
Urinary Strictures and Upper Tract Tumors

TUMOR MANAGEMENT



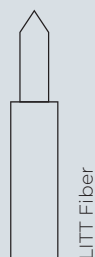
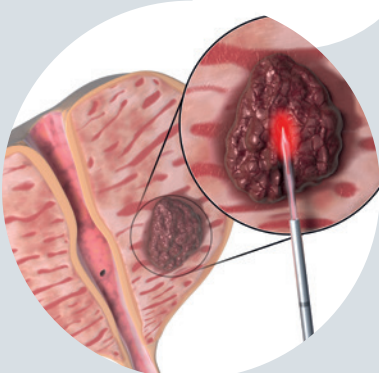
TULA® DUAL Trans Urethral Laser Ablation of Recurring Bladder Tumors

- The real ambulatory procedure
- Quick, safe and easy
- Outpatient procedure with DUAL wavelength
- Excellent vaporization and hemostasis
- Management of high-risk patients



Partial Nephrectomy

- Nephron sparing surgery
- Minimal bleeding
- Cut and coagulate tissues the same time
- Reduces the parenchymal damage
- Laparoscopic, open or robotic surgery



Focal Laser Ablation Therapy for Prostate Tumors

- MRI-guided laser ablation with thermometry
- Quick, precise & safe procedure
- Well defined, controlled olive-shaped ablation
- Protects vital & sensitive structures
- Preserve healthy prostate tissues

The Most Comprehensive Laser Portfolio in Urology

We offer the right solution for your specific needs.

LEONARDO® DUSTER



LEONARDO® DUAL 200



LEONARDO® MINI



LEONARDO®

Model	LEONARDO® Duster	LEONARDO® Mini Dual	LEONARDO® DUAL 200
REF	TFL1940nm60W	SL980+1470nm16W	SL980+1470nm200W
Wavelength	1940 nm ± 3 nm	11 W (980 nm) / 5 W (1470 nm)	980 nm and 1470 nm
Fiber diameter	–	≥ 360 µm	≥ 360 µm
Max average power	60 Watt		200 Watt (1470 nm/40 Watt + 980 nm/160 Watt) separately adjustable
Max peak power	600 Watt	–	–
Pulse energy	0.02 – 6 J	–	–
Aiming beam	Laser diode, green 525 nm (adjustable) < 1mW, class 3R (brightness adjustable)	635 nm, max. 4 mW	532 nm and 635 nm, green 1 mW, red 4 mW, user controlled intensity
Treatment mode	CW/Superpulsed	CW, Pulse Mode (optional)	CW, Pulse Mode, ELVeS® Signal, ELVeS® Segment, Derma Mode
Pulse duration/-break	42 µs to 20 ms	0.01–180 sec / 0.01–180 sec	0.01–60 sec / 0.01–60 sec
Repetition rate	1 to 2500 Hz	–	–
Power supply	110 – 240 VAC, 50/60 Hz	110–240 VAC, 50–60 Hz (12 VDC @ 100 W)	110 – 240 VAC, 50 / 60 Hz, 850 VA
Batteries	–	Li-ion Batteries	–
Dimensions (H x W x D)	37.8 cm x 57.7 cm x 36.8 cm	6 cm x 9 cm x 21.5 cm	approx. 20 cm x 37 cm x 26 cm
Weight	42.5 kg	900 g	approx. 15 kg

Leonardo Duster sets incl. 3 safety goggles, foot switch, power cord and manual. Carry case and trolley are optional accessories, available on separate order. All other laser sets incl. 3 safety goggles, foot switch, power cord, carry case and manual.

Accessories

REF	Product	PU*
503200970	LOMA Focus Handpiece	1
AB 2854	LOMA Handpiece Protection Cap	1
LA3131	LEONARDO® Duster Trolley	1
SA2895	PeliCase	1

*Packing unit

LEONARDO® Duster

VISIBLE LASER RADIATION
AVOID DIRECT EYE EXPOSURE

CLASS 3R LASER PRODUCT
Diode-Laser 255 +/- 10 nm CW 1 mW (Max.)
EN 60825-1:2014-AC:2017+A11:2021+A11:2021AC:2022
EN IEC 60601-2-22:2020 L47592_REV.C

VISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION

CLASS 4 LASER PRODUCT
Diode-Laser 1940 +/- 3 nm CW 60 W (Max.)
EN 60825-1:2014-AC:2017+A11:2021+A11:2021AC:2022
EN IEC 60601-2-22:2020 L47591_REV.C

Leonardo® DUAL 200

INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR INDIRECT RADIATION

CLASS 4 LASER PRODUCT
Diode-Laser 980 +/- 30 nm CW 160 W (Max.)
Diode-Laser 1470 +/- 30 nm CW 40 W (Max.)
EN 60825-1:2008 EN 60601-2-22:2007

VISIBLE LASER RADIATION
AVOID EYE EXPOSURE TO DIRECT RADIATION

CLASS 3R LASER PRODUCT
Diode-Laser 532 +/- 10 nm CW 4 mW (Max.) (Aiming)
Diode-Laser 532 +/- 10 nm CW 1 mW (Max.) (Aiming)
EN 60825-1:2008 EN 60601-2-22:2007

LEONARDO® Mini Dual

INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR INDIRECT RADIATION

CLASS 4 LASER PRODUCT
Diode-Laser 980 +/- 30 nm CW 16 W (Max.)
Diode-Laser 1470 +/- 30 nm CW 4 W (Max.)
EN 60825-1:2007 IEC 60601-2-22:2007

VISIBLE LASER RADIATION
AVOID EYE EXPOSURE TO DIRECT RADIATION

CLASS 3R LASER PRODUCT
Diode-Laser 635 +/- 10 nm CW 4 mW (Max.) (Aiming)
EN 60825-1:2007 IEC 60601-2-22:2007



CE 0483

CeramOptec GmbH
Siemensstr. 44, D-53121 Bonn

THE BROADEST RANGE OF LASER FIBERS IN UROLOGY

Leveraging our experience in multiple laser therapies, biolitec® have developed the most extensive portfolio of urology fibers – providing you the best tools to enhance clinical outcome and deliver exceptional patient care.

BPH

REF	Product	Length [m]	Core ø [Fr]	AD ø [µm]/[Fr]
503200250	XCAVATOR® Fiber	3	1.8	–
503200220	TWISTER Large Fiber	3	1.8	3100/9.3
503200235	TWISTER XL Fiber	3	1.8	3300/9.3

Lithotripsy & Soft Tissue Applications

REF	Product	Length [m]	Core ø [µm]	OD ø [µm]	Connector	NA
Leonardo® Duster ScopeSafe Fiber- Single Use						
503200100	Leonardo® Duster ScopeSafe Fiber 150µm, IC	3.1	150	315	IC	0.26
503200105	Leonardo® Duster ScopeSafe Fiber 200µm, IC	3.1	200	400	IC	0.28
503200110	Leonardo® Duster ScopeSafe Fiber 272µm, IC	3.1	272	460	IC	0.22
503200115	Leonardo® Duster ScopeSafe Fiber 365µm, IC	3.1	365	550	IC	0.22
503200120	Leonardo® Duster ScopeSafe Fiber 550µm, IC	3.1	550	750	IC	0.22
503200125	Leonardo® Duster ScopeSafe Fiber 800µm, IC	3.1	800	1200	IC	0.22
503200130	Leonardo® Duster ScopeSafe Fiber 1000µm, IC	3.1	1000	1400	IC	0.22
Leonardo® Duster Reusable Fibers						
503200150	Leonardo® Duster Fiber 200µm, Reusable, IC	3.2	200	400	IC	0.28
503200155	Leonardo® Duster Fiber 272µm, Reusable, IC	3.2	272	460	IC	0.22
503200160	Leonardo® Duster Fiber 365µm, Reusable, IC	3.2	365	550	IC	0.22
503200165	Leonardo® Duster Fiber 550µm, Reusable, IC	3.2	550	750	IC	0.22
503200170	Leonardo® Duster Fiber 800µm, Reusable, IC	3.2	800	1200	IC	0.22
503200175	Leonardo® Duster Fiber 1000µm, Reusable, IC	3.2	1000	1400	IC	0.22

TULA®

REF	Product	PU	Length [m]
503100410	TULA® Fiber, IC	10	3.0
503200329	Megabeam HBFSS 272-365, Spherical tip, IC (TULA® slim Fiber)	10	3.0

FLA Fibers

REF	Product	PU [Packaging unit]	Length [m]	ø Fiber [mm]	Ablation shape
503200270	Litt2B fiber	5	10	1.85	olive 
503200280	Litt3B fiber	5	10	1.85	olive 

Other Applications

REF	Product	Length [m]	Core ø [Fr]	AD ø [µm]/[Fr]
503200744	Bare Fiber 400 µm, Flat Tip, IC	3	400/1.2	750/2.3
503200740	Bare Fiber 600 µm, Flat Tip, IC	2.6	1.7	860/2.6
503300400	Bare Fiber 1000 µm, Flat Tip, IC	2.6	2.9	1400/4.2
503200750	Bare Fiber 600 µm, Ball Tip, Adj. Luer, IC (1 × 6 h)	2.5	1.7	860/2.6
503300410	Bare Fiber 1000 µm, Ball Tip, IC	2.6	2.9	1400/4.2
503200741	Bare Fiber 600 µm, Conical Tip, IC	2.6	1.7	860/2.6
503300405	Bare Fiber 1000 µm, Conical Tip, IC	2.6	2.9	1400/4
503200745	Bare Fiber 600 µm, Flat Tip, Adj. Luer, ID (1 × 6 h)	3	565/1.7	860/2.6
503300415	Bare Fiber 1000 µm, Flat Tip, Adj. Luer, ID (1 × 6 h)	2.6	945/2.9	1400/4

The IC abbreviation in the product name stands for "Inter-Company", which indicates an IC-connector that can only be used with Leonardo® laser series of the Biolitec group. All Leonardo® Duster reusable fibers can be used up to 10 times. All fibers are free of latex and DEHP. Our fibers are single use products (unless otherwise indicated), delivered sterile for immediate use. biolitec® is a trusted OEM manufacturer, offering state-of-the-art Fibers for Holmium and Thulium Fiber Laser (TFL) systems, empowering innovation in minimally invasive urological procedures.

CONTACT US

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

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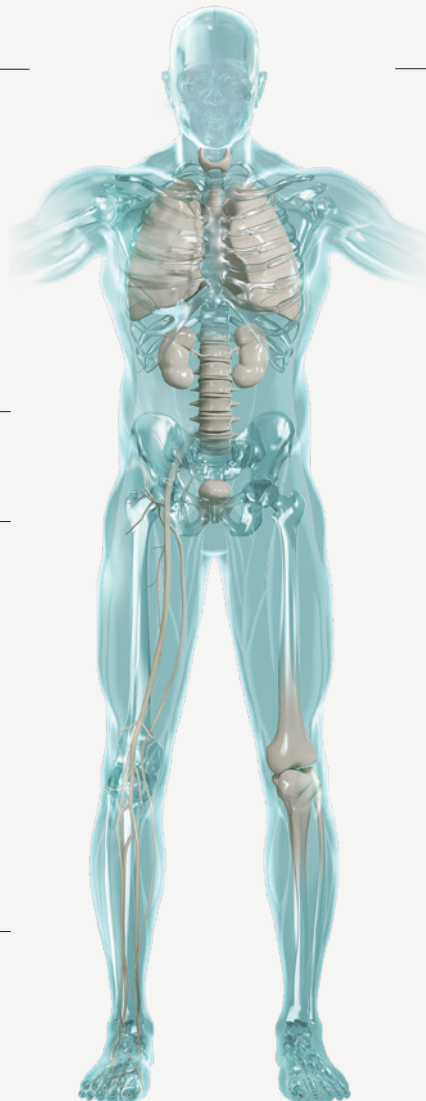
Thoracic Surgery

Aesthetics

Urology

Proctology

Phlebology



Aesthetics

Thyroid Treatment

Orthopaedics & Pain Management

Gynaecology

Orthopaedics & Pain Management



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Find your
local biolitec®
partner

