



UROLOGY

TWISTER XCAVATOR®

Benign Prostatic Hyperplasia

Technology
meets Anatomy



BPH – Benign Prostatic Hyperplasia

Contact fiber approach with the XCAVATOR® and the TWISTER fibers (Vaporization)

Our contact fibers are developed to deliver unmatched ablation results with exceptional reliability. Operating in contact mode ensures direct, high-energy delivery exactly where it's needed – ideal for precise ablation or vaporization. The result is a smooth intrasurgical surface that enhances procedural outcomes.

Specially engineered glass tips prevent fiber degradation and maintain consistently high performance throughout the procedure. Enhanced tactile feedback provides superior control, enabling clinicians to achieve outstanding treatment results with confidence.

VISIBLE RESULTS WITHIN MINUTES



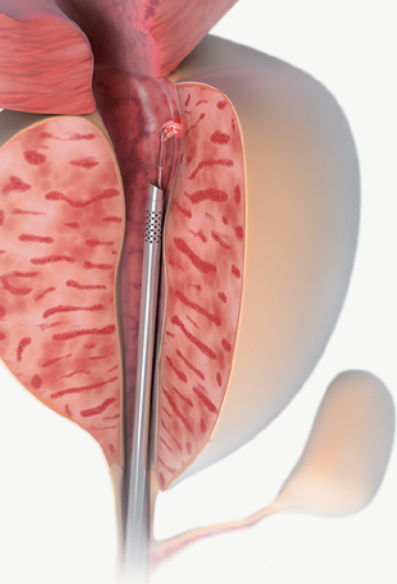
before



after 6 minutes



after 14 minutes



XCAVATOR®

The XCAVATOR® is the first true Laser-TURP, combining the proven efficacy of transurethral resection with the unmatched safety and hemostasis of the LEONARDO® laser system.

Its specially designed glass tip enables safe and effective treatment of benign prostatic hyperplasia (BPH), supported by optimized absorption in water and hemoglobin for precise and controlled energy delivery.



- Unique glass tip makes the XCAVATOR® the first choice for treating prostate glands – from small to significantly enlarged.
- Increased contact surface area results in a wider area of tissue resection
- Efficient vaporization, coagulation and resection
- Specially designed resectoscope decreases likelihood of costly optic damage
- Optimized field of view due to vapor bubbles concentrated at fiber tip only
- Tissue resection with possible histological diagnosis
- Short learning curve

TWISTER

The TWISTER XL fiber is designed to elevate the ablation performance of the TWISTER L while delivering improved precision and handling through optimized rigidity. Its larger fiber tip increases the surface area by nearly 20 %, enabling more efficient tissue interaction.

A special coating enhances both the rigidity and durability of the fiber tip, ensuring smoother handling and long-lasting performance throughout procedures.



- Increased fiber tip surface area for fast and efficient ablation
- Contact mode for tactile feedback
- Increased control of the fiber tip
- Excellent hemostasis
- Short catheter time and fast recovery
- Cystoscope compatibility in line with TWISTER L

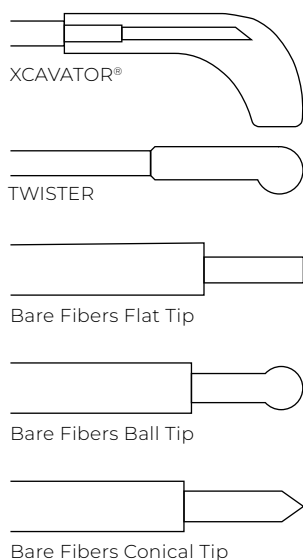




Handpieces and Instruments

REF	Product
500400355	Storz Laser Cystoscope Set (blue) OD 23 Fr ID 7.5 Fr, no optics, incl. external and internal sheath and obturator
400400250	XCAVATOR® Resectoscope 360° Rotating and Continuous Irrigation Set OD 26 Fr, no optics
AB2731	ASAP 30° Optics Hopkins II, compatible Storz Laser Cystoscope blue and XCAVATOR® Resectoscope
400100100	Universal Dual Luer Handpiece, for $\varnothing$ 600–1000 μ m fibers
400400110	Laparoscopic sheath 30 cm, ID $\varnothing$ 1.4 mm, OD $\varnothing$ 5 mm
400400115	Laparoscopic sheath 40 cm, ID $\varnothing$ 1.4 mm, OD $\varnothing$ 5 mm
400400120	Laparoscopic Bending Instrument

Fibers for LEONARDO®



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

All fibers are free of latex and DEHP. Our fibers are single use products (unless otherwise indicated), delivered sterile for immediate use.

Accessories

REF	Product
LA7209	Laser safety goggles @950 - 980 DLB5/@980 - 1400
LA7206	Laser safety goggles @800 - 880 DLB4/@880 - 1400 DLB6/@1400 - 3600 nm
LA5165	Sticker Laser warning 20 $\times$ 20 cm
400100115	Medi Strip 0.7/1.2 BF 600 μ m, autoclavable – Fiber stripper for Bare Fiber 600 μ m
AB1323	Stripping tool for fibers 0.3–1 mm
AB1908-1	Touhy Borst adapter
AB2594	Biopsy needle (for the handpiece)
400400200	Camera Filter HPD 980 nm and 1470 nm, small, OD 24 mm*

* With high wattages (100 Watt) for a good view on the screen

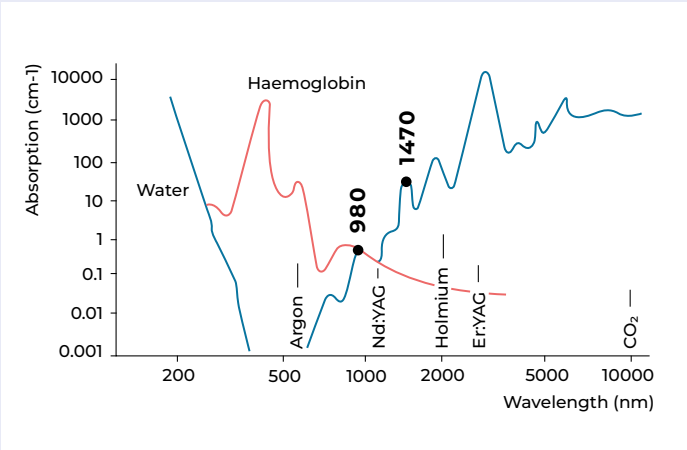
LEONARDO® DUAL 200



Technical Specifications

Leonardo® DUAL 200	Model	LEONARDO® DUAL 200
INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR INDIRECT RADIATION CLASS 4 LASER PRODUCT Diode-Laser 980 +/- 20 nm CW 160W (Max.) Diode-Laser 1470 +/- 20 nm CW 40 W (Max.) IEC 60825-1:2007 IEC 60601-2-22:2007	REF	SL980+1470nm200W
VISIBLE LASER RADIATION AVOID EYE EXPOSURE TO DIRECT RADIATION CLASS 3R LASER PRODUCT Diode-Laser 635 +/- 10 nm CW 4 mW (Max.) (Aiming) Diode-Laser 532 +/- 10 nm CW 1 mW (Max.) (Aiming) IEC 60825-1:2007 IEC 60601-2-22:2007	Wavelength	980 nm and 1470 nm
	Max. power	200 Watt (1470 nm/40 Watt + 980 nm/160 Watt) individually adjustable
CE 0483	Fiber diameter	≥ 360 µm
	Aiming beam	532 nm and 635 nm, green 1 mW, red 4 mW, user-defined intensity
CeramOptec GmbH Siemensstr. 44, D-53121 Bonn	Treatment mode	CW, pulse mode, ELVeS® signal, ELVeS® segment, derma mode
	Pulse duration /-break	0.01 – CW/0.01 – 60 sec
	Power supply	110 – 240 VAC, 50/60 Hz, 850 VA
	Dimensions (H×W×D)	approx. 20 cm × 37 cm × 26 cm
	Weight	approx. 15 kg

All laser sets comprise 3 safety goggles, foot switch, interlock connector, power cord and manual in a carrying case.



LEONARDO® DUAL 200 Watt – Unique combination of two simultaneous wavelengths

LEONARDO® DUAL 200 Watt combines the wavelengths of 980 nm and 1470 nm, with high absorption in water and hemoglobin, for multiple applications not only in urology. The wavelength of 980 nm provides high absorption in hemoglobin and is therefore well suited for applications in urology. Due to absorption properties, the emitted laser beam does not affect the bladder.

CONTACT US

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

ENT

Thoracic Surgery

Aesthetics

Urology

Proctology

Phlebology



Aesthetics

Thyroid Treatment

Orthopaedics & Pain Management

Gynaecology

Orthopaedics & Pain Management



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