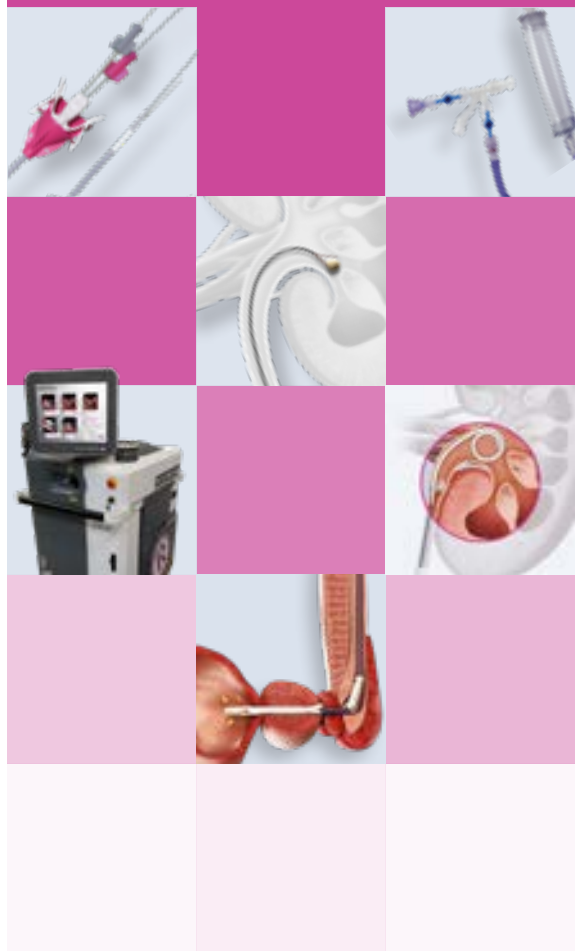




PRODUCTS

CATALOGUE



2025

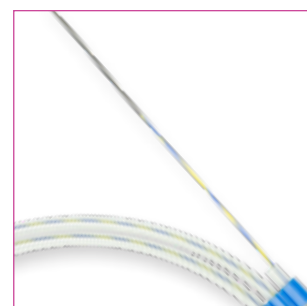
www.rocamed.com

MKG-CT-EN-2025-00





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➤ TraxerFlow™ DUAL PORT

Gravity Line



➤ Tuohy-Borst seal

grips the laser fiber and prevent leakage

➤ Rotating 360 Male luer lock

connection ensures free movement of the scope

➤ Manual Pump

To provide extra flow for clearing the surgical field

➤ Pressure Chamber

with anti-return valve



➤ Compatible with all principal brand of endoscope



Olympus P6



Storz



Wolf

References

ONGT2000ST12 TraxerFlow™ DUAL PORT Irrigation Line for Ureteroscopy Laser



Rocawire

Rio Tracer™

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER



» Barium Filled Radiopaque Tip

Enhances Fluoroscopic Visualization

» Hydrophilic Floppy Tip

Facilitates passages beyond obstructions and negotiates tortuous anatomy

» Stiff Nitinol Core

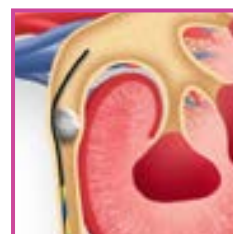
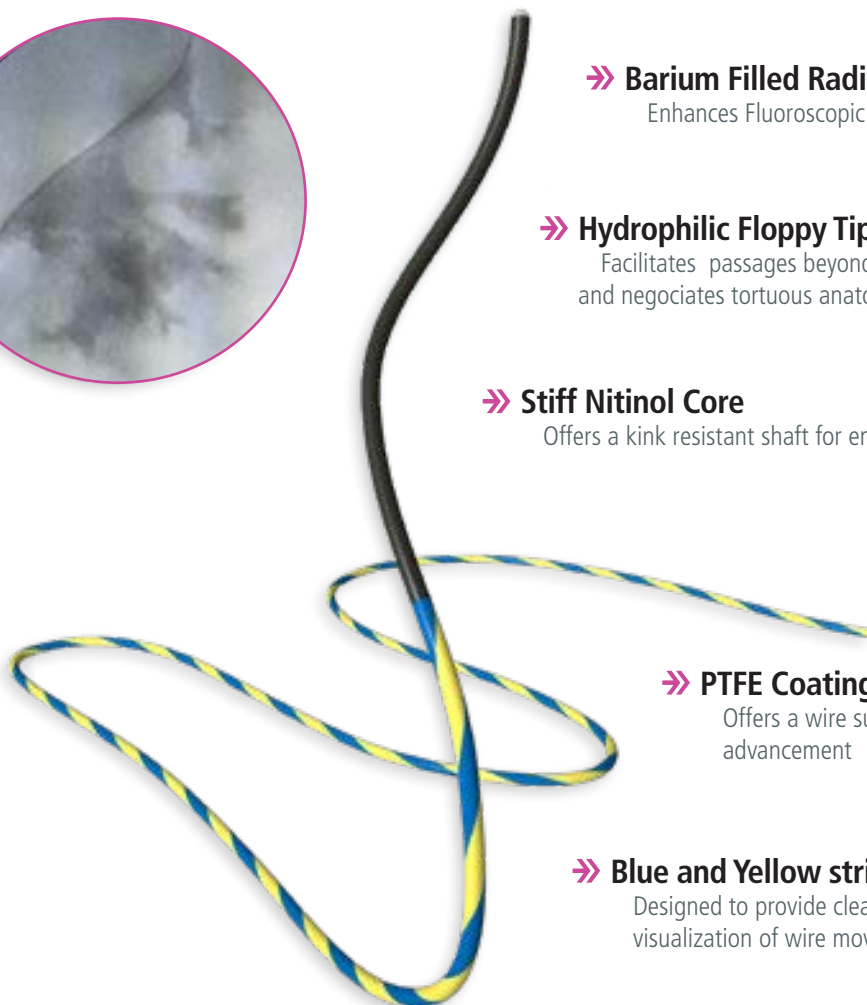
Offers a kink resistant shaft for enhanced control

» PTFE Coating

Offers a wire surface to facilitate advancement

» Blue and Yellow stripped pattern

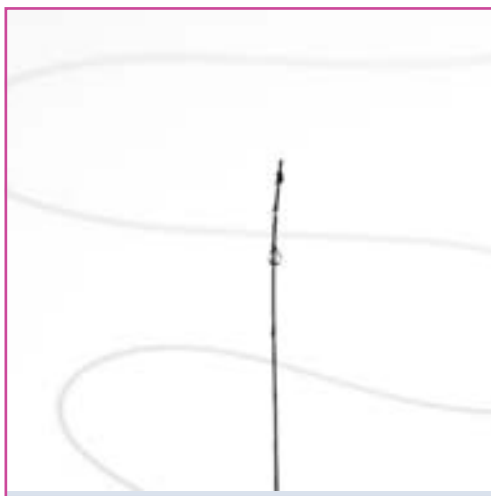
Designed to provide clear endoscopic visualization of wire movement



References	Tip	Length (cm)	Ø (inches)	Description
ROWR3500ST	Dual Flexible	150	0,035	Nitinol Rocawire
ROWR3501ST	Angled/Straight Dual Flexible			
ROWR3502ST	Straight Flexible			

➤ RocaWire

Nitinol & PTFE coated Guide Wire



➤ Nitinol RocaWire

- with Polyurethane and Hydrophilic coating
- highly radiopaque

References	Distal Tip 3 cm	Length (cm)	ø Inch	Description
ROWP3200ST	Straight Flexible	150	0.032	Nitinol Rocawire
ROWP3500ST	Straight Flexible		0.035	
ROWP3502ST	Straight Flexible - STIFF		0.035	
ROWP3503ST	Straight Flexible - LONG	180	0.035	
ROWP3510ST	"Angled" Flexible	150	0.035	
ROWP3802ST	Straight Flexible - STIFF		0.038	

➤ PTFE Coated Rocawire

- PTFE Coated Steel GuideWire
- highly radiopaque



References	Description	Length (cm)	ø Inch	Description
ROWG3500ST	Straight Flexible	150	0.035	PTFE Rocawire
ROWG3502ST	Removable Stylet			
ROWG3510ST	"J" Flexible			



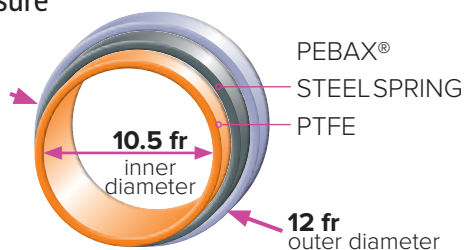
Bi-Flex™ EVO

Ureteral Access Sheath

- 2 Working Channels (3Fr)
- Hydromer® Hydrophilic Coating
- Distal Platinum Ring
- Non-Kinking inner coil
- Tapered introducer/dilator
- Flexible Atraumatic Tip



- Improve Vision
- Reduce Pressure



**THE LARGEST INNER DIAMETER
OF THE MARKET**
A better irrigation for a better visibility

References	Ø Inner / Outer (Ch/Fr)	Length (cm)
ROUS1028ST	10 / 12	28
ROUS1228ST	12 / 14	28
ROUS1035ST	10 / 12	35
ROUS1235ST	12 / 14	35
ROUS1045ST	10 / 12	45
ROUS1245ST	12 / 14	45

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

➔ RocaTub

Ureteral catheter



➔ Thermo sensitive Polyurethane Catheter

- Hydrocoated, graduated and radiopaque
- Supplied with a Stylet
- 80 cm Length

➔ Curved or Straight/Open distal tip

➔ 2 or No Eye

Distal Tip		4 Fr	5 Fr	6 Fr	7 Fr	8 Fr
Straight / Open	2 eyes	ROTA4200ST	ROTA5200ST	ROTA6200ST	ROTA7200ST	ROTA8200ST
Straight / Open	No eye	ROTG4000ST	ROTG5000ST	ROTG6000ST	ROTG7000ST	ROTG8000ST
Curved / Open	No eye	ROTH4000ST	ROTH5000ST	ROTH6000ST	ROTH7000ST	ROTH8000ST

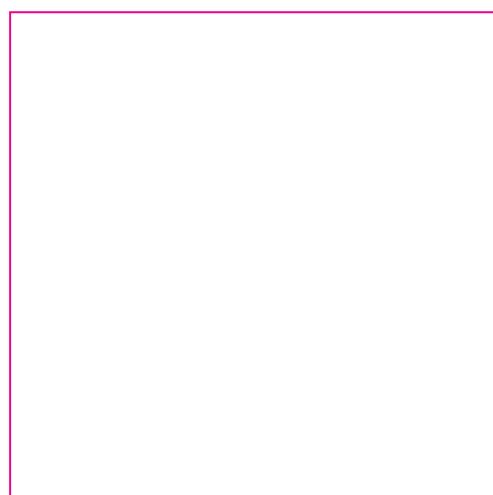
FlexiKat

➔ Thermo sensitive Polyurethane Catheter

- Hydrocoated, graduated and radiopaque
- Supplied with a Stylet
- 80 cm Length

➔ Flexi Straight/Open distal tip

➔ Ø5 french - No Eye



Ref	Distal Tip	Size (fr)
ROTP5000ST*	Straight /open Flexi No Eyes	5

*Available Soon



RocaStone Extractor

Designed for Semi-rigid ureteroscopy

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER



» Nitinol Straight wire

- 120 cm Length
- 90 cm Length

» 4 Wires Basket



» Nitinol Helical wire

- 120 cm Length
- 90 cm Length

» 4 Wires Basket

References	Size (Fr)	Ø Basket (mm)	Length (cm)	Description
ROSH2500ST	2.5	11.5	120	Nitinol Helical wire
ROSH4000ST	4.0	16	120	
ROSH2590ST	2.5	11.5	90	Nitinol Straight wire
ROSS2500ST	2.5	13.5	120	
ROSS4000ST	4.0	16	120	
ROSS2590ST	2.5	13.5	90	

➤➤ **Kobot Stone extractor**

Nitinol Stone Retrieval Tipless Basket



➤➤ A range of Stone Retrieval Baskets in line with the concept of Cobotic. These Baskets are diversified, effective and integral to the working of the surgeon and his assistants and allows to maximize performance.

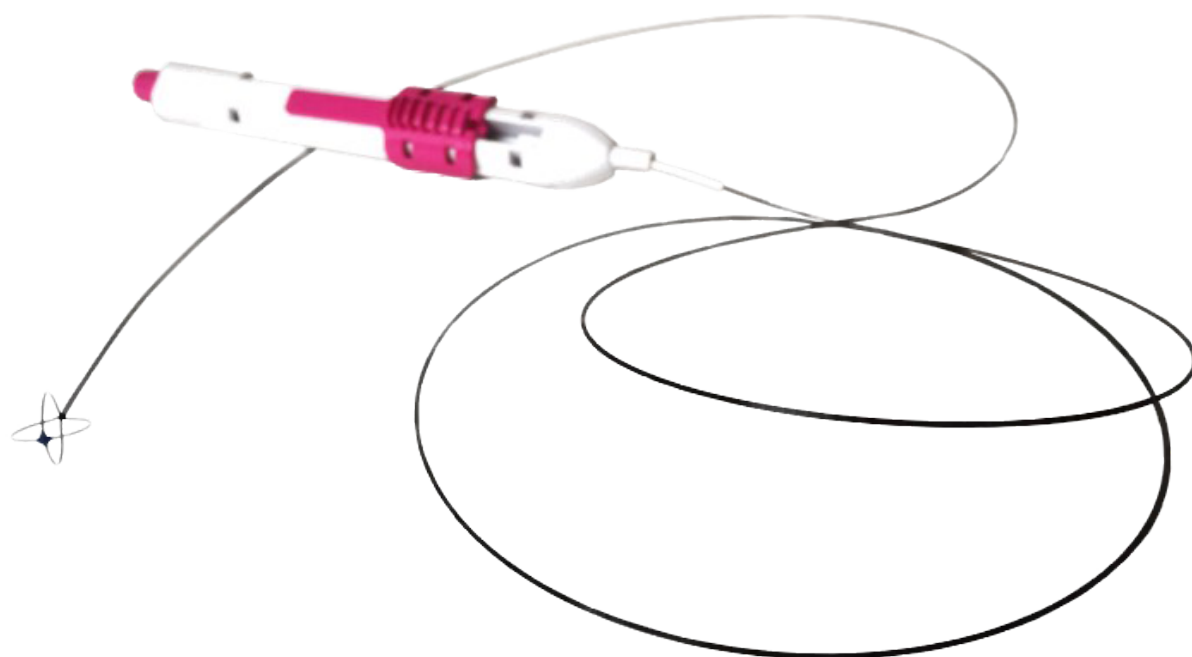
➤➤ An innovative and ergonomic criterium handle with assisted closing system, helps in catching, retaining and removing of stone fragments.





Kobot Stone extractor

Nitinol Stone Retrieval Tipless Basket



➔ Nitinol 4 Wires Basket

- 120 cm length
- Tipless Basket

➔ Size available 1.3 Fr, 1.9 Fr & 2.2 Fr



supplied with
a luer lock
connector

Ref.	Size Fr	Wire	Working Length (cm)	Basket Ø (mm)	Basket Length (mm)	Basket description
ROSZ1300ST	1.3	4	120	12	22	Kobot TIPLESS
ROSZ1900ST	1.9	4	120	16	25.5	
ROSZ2200ST	2.2	4	120	16	25.5	

➤ Kobot Stone extractor

Nitinol Stone Retrieval Tipless Basket



➤ KOBOT™ CRITERIUM HANDLE

Available with assisted closing System

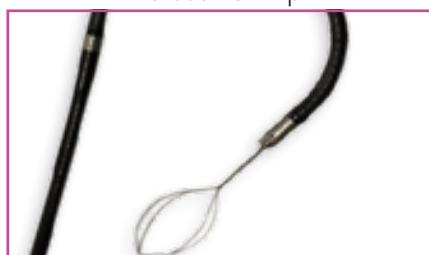


➤ FLEXI TIP IMPROVEMENT

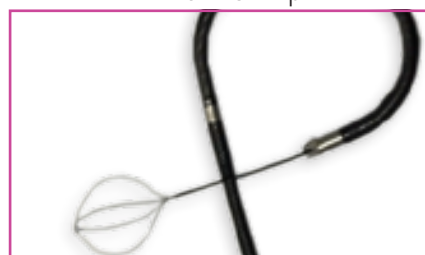
For a better scope deflection



Without Flexi-Tip



With Flexi-Tip



All supplied with
Tuohy Borst Connector





Kobot Stone extractor

Nitinol Stone Retrieval Tipless Basket

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER



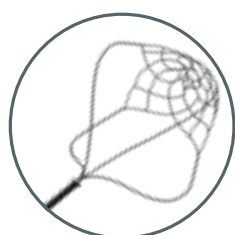
KOBOT TIPLESS

- 4 wire basket



KOBOT SIX

- 6 wire basket



KOBOT FILTER

- 4/16 wire filter



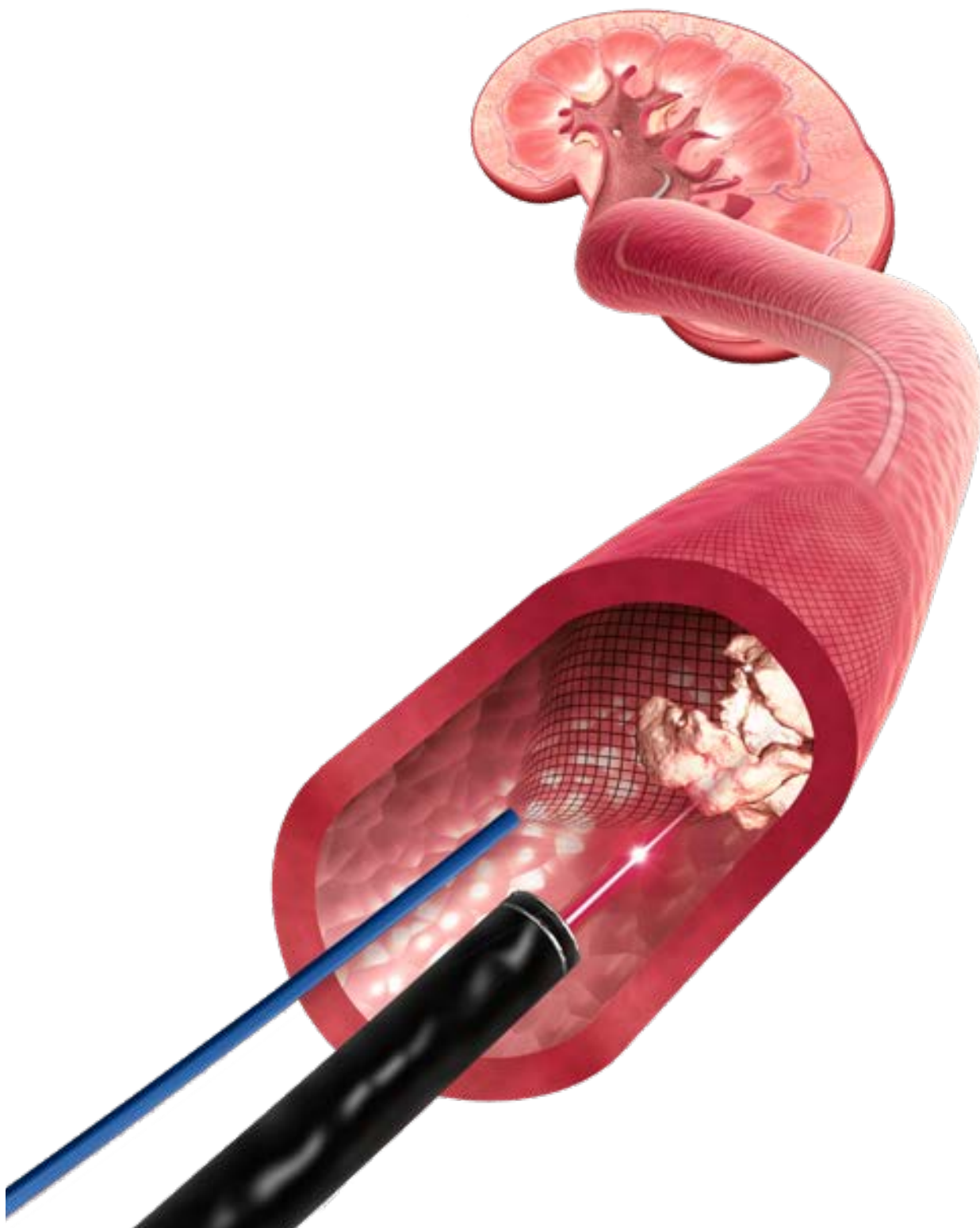
KOBOT MITT

- 3 wire

Ref.	Size Fr	Wire	Working Length (cm)	Basket Ø (mm)	Basket Length (mm)	Basket description
ROSZ1930ST	1.9	4	120	12	17.5	Kobot TIPLESS
ROSZ1940ST	1.9	4	120	12	17.5	Kobot TIPLESS with assisted Closing system
ROKT1800ST	1.8	4/16	120	14	18	Kobot FILTER
ROKS1700ST	1.7	6	120	11	15	Kobot SIX
ROKM1900ST	1.9	3	120	10	10	Kobot MITT

➤ X-Filter™

Anti-migration Device





X-Filter™

Anti-migration Device

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

➤ PASS

Safe & effortless navigation past occlusion

➤ FRAGMENT

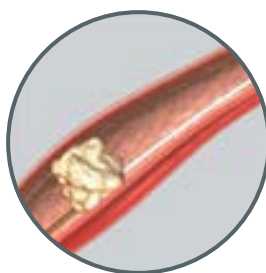
Improved stone fragmentation

➤ TRAP

Effective retention & immobilization of stone fragments

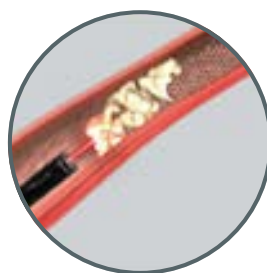
➤ CLEAR

Swift removal of stone debris through irrigation



STEP 1

Flexi tip passes beside the stone and is propagated to the renal pelvis



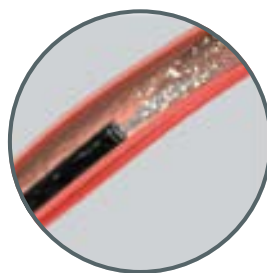
STEP 3

Uretroscope is introduced alongside the X-Filter™ and lithotripsy is initiated



STEP 2

Nitinol occluding braid is deployed to prevent retrograde migration



STEP 4

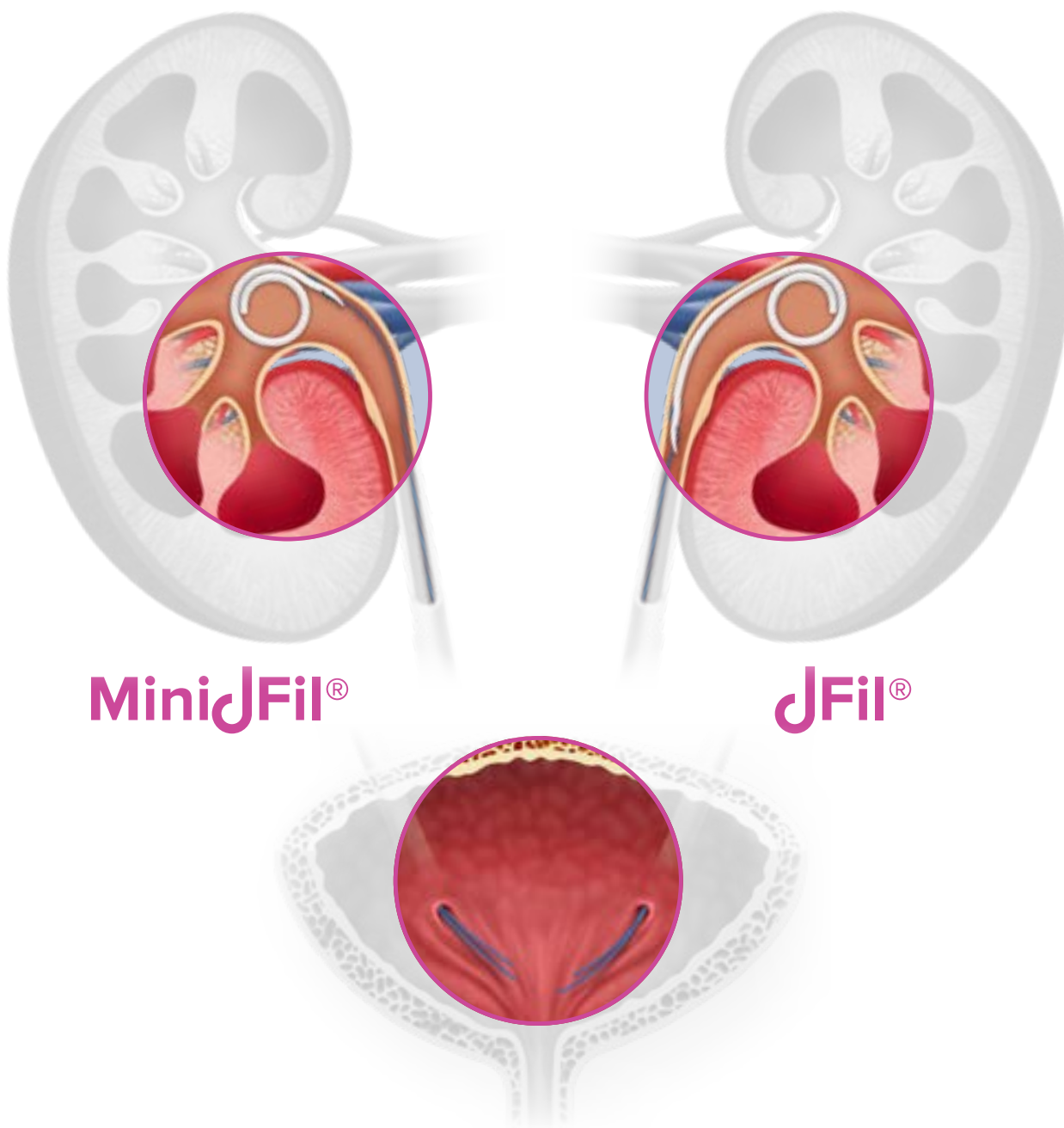
Following sufficient stone disintegration retained stone fragments are flushed by irrigation system

Ordering Informations

Reference	Length (cm)	ø Fr	Tip Length (cm)
ROXE363609ST	150	3.6	9

➔ JFil® & MiniJFil®

Ureteral Suture Stent



MiniJFil®

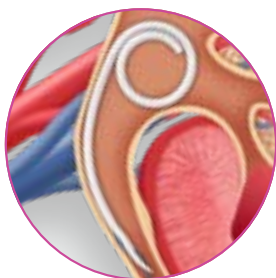
JFil®



JFil® & MiniJFil®

Ureteral Suture Stent

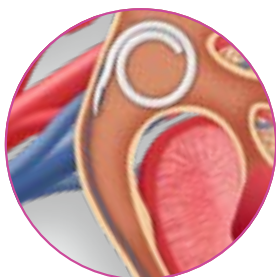
ENDO-UROLOGY



Indications:

	Indwelling Time	Pre Operatory Dilatation	UPJ Obstructive Stone	Non Obstructive Stone
JFil®	Up to 12 months	✓	✓	✓
MiniJFil®	Up to 12 months	✓	X	✓

NEPHROSTOMY



» Excellent dilation of the ureter by sutures



PROSTATE

Literature:

Changing the double pigtail stent by a new suture stent to improve patient quality of life: A prospective study.
B. Vogt et al. World Journal of Urology 2015, 33(8):1061-8.

MiniJFil®: A new safe and effective stent for a well-tolerated repeated extracorporeal shockwave lithotripsy or ureteroscopy for medium-to-large kidney stones?
B. Vogt et al. Nephro-Urology Monthly 2016, 13;8(5):e40788.

Advances in ureteral stent development.
B.H. Chew et al. Current Opinion in Urology 2016, 26(3):277-82.

Prevention and treatment of symptoms associated with indwelling ureteral stents: A systematic review.
P. Betschart et al. International Journal of Urology 2017, 24(4):250-9.

Ureteral stents in urolithiasis.
M. Beysens et al. Asian Journal of Urology 2018, 5(4):274-86.

ENDOFLOW

KIT - With Nitinol Stiff GuideWire

Product code	Description	Size (Fr)	Working Length (mm)	GuideWire
ROJV0708ST	JFil® ureteral suture stent	7	80	Nitinol STIFF
ROJV0716ST	JFil® ureteral suture stent	7	160	
ROJV0500ST	MiniJFil® ureteral suture stent	4.8	-	

Kit composition (1 unit / box) : PU Ureteral Suture Stent
Connectable pusher 63 cm with radiopaque ring (simple pusher 70 cm for ROJV0500ST only) / STIFF Hydro-coated Nitinol Guidewire Ø 0.035i

ECO KIT - Without GuideWire

Product code	Description	Size (Fr)	Working Length (mm)	GuideWire
ROJV5708ST	JFil® ureteral suture stent ECO KIT	7	80	No
ROJV5716ST	JFil® ureteral suture stent ECO KIT	7	160	
ROJV5500ST	MiniJFil® ureteral suture stent ECO KIT	4.8	-	

Kit composition (1 unit / box) : PU Ureteral Suture Stent
Simple pusher with radiopaque ring / no Guidewire

LASER

➔ RocaJJ Soft Ureteral JJ stent

Eco Kit & Eco Connect Kit



ECO KIT - Without Guide Wire



- ➔ Thermo sensitive Polyurethane
- ➔ Retrieval tether
- ➔ Up to 12 months indwelling
- ➔ Highly radiopaque

➔ Simple Pusher

Eco Kit	Guide Wire	24 cm	26 cm	28 cm	30 cm
4,8 Ch/Fr	NO	ROJS9524ST	ROJS9526ST	ROJS9528ST	ROJS9530ST
6,0 Ch/Fr		ROJS9624ST	ROJS9626ST	ROJS9628ST	ROJS9630ST
7,0 Ch/Fr		ROJS9724ST	ROJS9726ST	ROJS9728ST	ROJS9730ST
8,0 Ch/Fr		ROJS9824ST	ROJS9826ST	ROJS9828ST	ROJS9830ST

Kit composition (1 unit / box) : PU ureteral stent / Simple pusher with radiopaque ring (70cm Length)(only with 4,8FR Ø) / Simple pusher with radiopaque ring (40cm Length) / Patient Card

ECO CONNECT KIT - Without Guide Wire



- ➔ Thermo sensitive Polyurethane
- ➔ Retrieval tether
- ➔ Up to 12 months indwelling
- ➔ Highly radiopaque

➔ Connectable Pusher

Eco Connect Kit	Guide Wire	24 cm	26 cm	28 cm
6,0 Ch/Fr	NO	ROJC2624ST	ROJC2626ST	ROJC2628ST
7,0 Ch/Fr		ROJC2724ST	ROJC2726ST	ROJC2728ST

Kit composition (1 unit / box) :
PU Ureteral Stent / Connectable pusher with radiopaque ring (40cm length)/ Patient Card / Without Guide Wire



RocaJJ Soft Ureteral JJ stent

Stiff Kit & Simple kit

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

STIFF KIT - With Nitinol Guide Wire



- Thermo sensitive Polyurethane
- Retrieval tether
- Up to 12 months indwelling
- Highly radiopaque
- Connectable Pusher

STIFF Kit	Guide Wire	24 cm	26 cm	28 cm	30 cm
4,8 Ch/Fr	Ø 0,035i Nitinol STIFF	ROJG9524ST	ROJG9526ST	ROJG9528ST	ROJG9530ST
6,0 Ch/Fr		ROJG9624ST	ROJG9626ST	ROJG9628ST	ROJG9630ST
7,0 Ch/Fr		ROJG9724ST	ROJG9726ST	ROJG9728ST	ROJG9730ST
8,0 Ch/Fr		ROJG9824ST	ROJG9826ST	ROJG9828ST	ROJG9830ST

Kit composition (1 unit / box) : PU ureteral stent

Simple pusher with radiopaque ring (70cm Length)(only with 4,8FR Ø) / Connectable pusher with radiopaque ring (40cm Length) /

Nitinol Guide Wire (STIFF Ø 0,035i) / Patient Card

SIMPLE KIT - With PTFE Guide Wire



- Thermo sensitive Polyurethane
- Retrieval tether
- Up to 12 months indwelling
- Highly radiopaque
- Simple Pusher

Simple Kit	Guide Wire	24 cm	26 cm	28 cm	30 cm
4,8 Ch/Fr	Ø 0,035i PTFE	ROJS0524ST	ROJS0526ST	ROJS0528ST	ROJS0530ST
6,0 Ch/Fr		ROJS0624ST	ROJS0626ST	ROJS0628ST	ROJS0630ST
7,0 Ch/Fr		ROJS0724ST	ROJS0726ST	ROJS0728ST	ROJS0730ST
8,0 Ch/Fr		ROJS0824ST	ROJS0826ST	ROJS0828ST	ROJS0830ST

Kit composition (1 unit / box) : PU ureteral stent / simple pusher with radiopaque ring (70cm Length)(only with 4,8FR Ø) / Simple pusher with radiopaque ring (40cm Length) / PTFE-coated Steel Guidewire Ø 0.035i / Patient Card

➤ EndoFirm Ureteral JJ Stent

Stiff Kit & Simple Kit

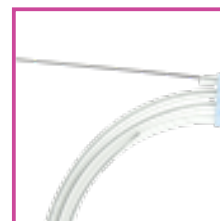


STIFF KIT - With Nitinol Guide Wire



STIFF Nitinol Guide Wire ➤

➤ Connectable Pusher



- Thermo sensitive Polyurethane
- Retrieval tether
- Up to 12 months indwelling
- Highly radiopaque

STIFF kit	Guide Wire	24 cm	26 cm	28 cm
6,0 Ch/Fr	Ø 0,035i	ROJF9624ST	ROJF9626ST	ROJF9628ST
7,0 Ch/Fr	Nitinol STIFF	ROJF9724ST	ROJF9726ST	ROJF9728ST

Kit composition (1 unit / box) :

PU Ureteral Stent / Connectable pusher with radiopaque ring (40cm length)/Nitinol Guide Wire (STIFF Ø 0.035i)/ Patient Card

SIMPLE KIT - With PTFE Guide Wire



PTFE Guide Wire ➤



- Thermo sensitive Polyurethane
- Retrieval tether
- Up to 12 months indwelling
- Highly radiopaque

Simple kit	Guide Wire	24 cm	26 cm	28 cm
6,0 Ch/Fr	Ø 0,035i	ROJF0624ST	ROJF0626ST	ROJF0628ST
7,0 Ch/Fr	PTFE	ROJF0724ST	ROJF0726ST	ROJF0728ST

Kit composition (1 unit / box) :

PU Ureteral Stent / Simple pusher with radiopaque ring (40cm length)/PTFE Guide Wire (STIFF Ø 0.035i) / Patient Card



EndoFirm Ureteral JJ Stent

Eco connect Kit & Eco Kit

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

ECO CONNECT KIT - Without Guide Wire



- Thermo sensitive Polyurethane
- Retrieval tether
- Up to 12 months indwelling
- Highly radiopaque
- Connectable Pusher

Eco connect kit	Guide Wire	24 cm	26 cm	28 cm
6,0 Ch/Fr	NO	ROJF2624ST	ROJF2626ST	ROJF2628ST
7,0 Ch/Fr		ROJF2724ST	ROJF2726ST	ROJF2728ST

Kit composition (1 unit / box) :

PU Ureteral Stent / Connectable pusher with radiopaque ring (40cm length) / Patient Card / Without Guide Wire

ECO KIT - Without Guide Wire



- Thermo sensitive Polyurethane
- Retrieval tether
- Up to 12 months indwelling
- Highly radiopaque
- Simple Pusher

Eco kit	Guide Wire	22 cm	24 cm	26 cm	28 cm
6,0 Ch/Fr	NO	ROJF5622ST	ROJF5624ST	ROJF5626ST	ROJF5628ST
7,0 Ch/Fr		/	ROJF5724ST	ROJF5726ST	ROJF5728ST

Kit composition (1 unit / box) :

PU Ureteral Stent / Simple pusher with radiopaque ring (40cm length) / Patient Card / Without guide wire

ENDOSIL Silicone Ureteral JJ Stent

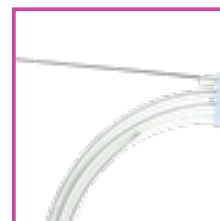
Stiff Kit & Eco Connect Kit



STIFF KIT - With Nitinol Guide Wire



» Connectable Pusher



- » Silicone
- » Up to 12 months indwelling
- » Highly radiopaque

STIFF Kit	Guide Wire	24 cm	26 cm	28 cm	30 cm
6,0 Ch/Fr	Ø 0,035i Nitinol STIFF	ROJB9624ST	ROJB9626ST	ROJB9628ST	ROJB9630ST
7,0 Ch/Fr		ROJB9724ST	ROJB9726ST	ROJB9728ST	ROJB9730ST
8,0 Ch/Fr		ROJB9824ST	ROJB9826ST	ROJB9828ST	ROJB9830ST

Kit composition (1 unit / box) : Silicone ureteral stent / Connectable pusher with radiopaque ring (40cm Length) / Nitinol Guide Wire (STIFF Ø 0,035i) / Patient Card

ECO CONNECT KIT - Without Guide Wire



- » Silicone
- » Up to 12 months indwelling
- » Highly radiopaque

» Connectable Pusher

Eco connect kit	Guide Wire	24 cm	26 cm	28 cm
6,0 Ch/Fr	NO	ROJB2624ST	ROJB2626ST	ROJB2628ST
7,0 Ch/Fr		ROJB2724ST	ROJB2726ST	ROJB2728ST

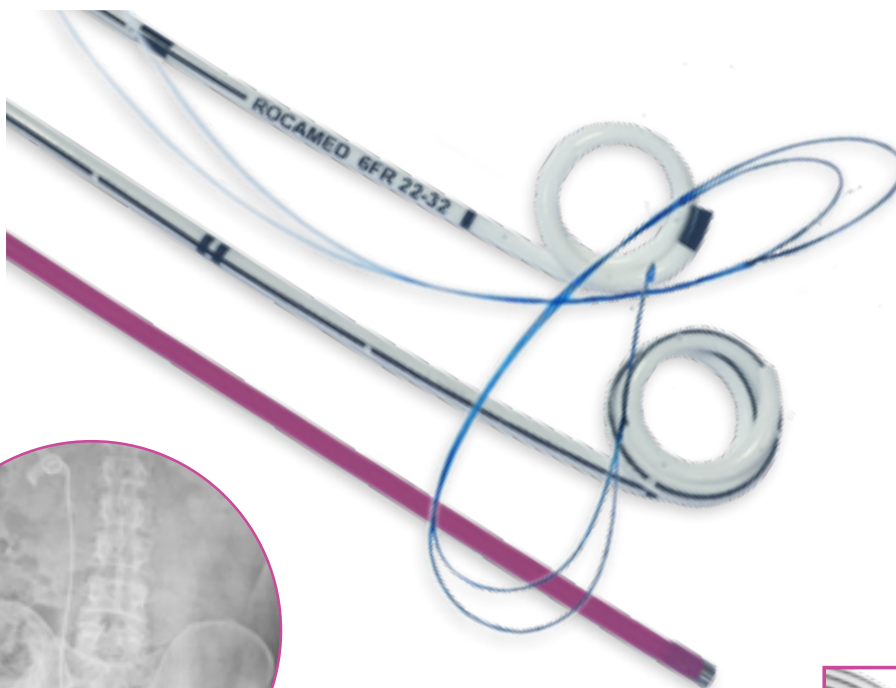
Kit composition (1 unit / box) :

Silicone Ureteral Stent / Connectable pusher with radiopaque ring (40cm length)/ Patient Card / Without guide wire

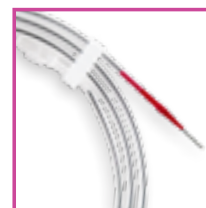


RocaJJ Soft

Hydrophilic Multi Length Stent



» Stiff Nitinol Guide Wire



» Thermo sensitive Polyurethane

- provides an excellent patient tolerance

» Up to 12 months indwelling

- Long term implantation

» Retrieval tether

» Hydrocoated

- With Hydromer® coating

» Highly radiopaque

» 22cm to 32cm Length

- for Autostatic Position

KIT - With Nitinol Stiff GuideWire

References	Ø(Ch/Fr)	Length (cm)	Guide Wire
ROJM0500ST	4,8	22 - 32	STIFF NITINOL
ROJM0600ST	6	22 - 32	
ROJM0700ST	7	22- 32	

Kit composition (1 unit / box) : Polyurethane Hydrocoated Ureteral Multilength J Stent / 40 cm Length simple pusher with radiopaque ring / STIFF Nitinol Guidewire Ø 0.035i / Patient Card

ECO KIT - Without Guide Wire

References	Ø(Ch/Fr)	Length (cm)	Guide Wire
ROJM5500ST	4,8	22 - 32	NO
ROJM5600ST	6	22 - 32	
ROJM5700ST	7	22- 32	

Kit composition (1 unit / box) : Polyurethane Hydrocoated Ureteral Multilength J Stent / 40 cm Length simple pusher with radiopaque ring / Patient Card / NO GUIDEWIRE

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

RocaJJ Simple J

Ureteral Stent



The Mono J Stent is a specially designed product with several unique features. It contains drainage openings in the shaft over a length of 30 cm from the pigtail of the catheter.



RocaJJ Simple J

Ureteral Stent



➤ 100% thermo sensitive Polyurethane Ureteral Stent

- provides an excellent patient tolerance
- provides an encrustation high resistance

➤ Up to 12 months indwelling

- Long term implantation

➤ Pigtail Type

- for an autostatic Position
- 2 open Tips

References	Ø Fr/Ch	Lenght (cm)
ROJG4690ST	6	90
ROJG4790ST	7	
ROJG4890ST	8	

Kit composition (1 unit / box) : PolyUrethane Ureteral SIMPLE J Stent / PTFE coated Guidewire Ø 0.035i / Patient Card

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

Flexible Ureteroscope

Single use



ONLY AVAILABLE IN FRANCE & ITALY





Flexible Ureteroscope

Single use

ONLY AVAILABLE IN FRANCE & ITALY



285°



9,2 Fr

7,5 Fr

Ergonomic
Handle



Image Processor
ROQGHUV01ST

Reference	Designation	Insert outer Ø	Working Channel	Working Length	Field of view
ROQGHU3075ST*	Single Use Flexible Ureteroscope	7,5 Fr	3,6 Fr	650mm	120°
ROQGHU3092ST*		9,2 Fr	3 Fr		

(*) only available in France & Italy

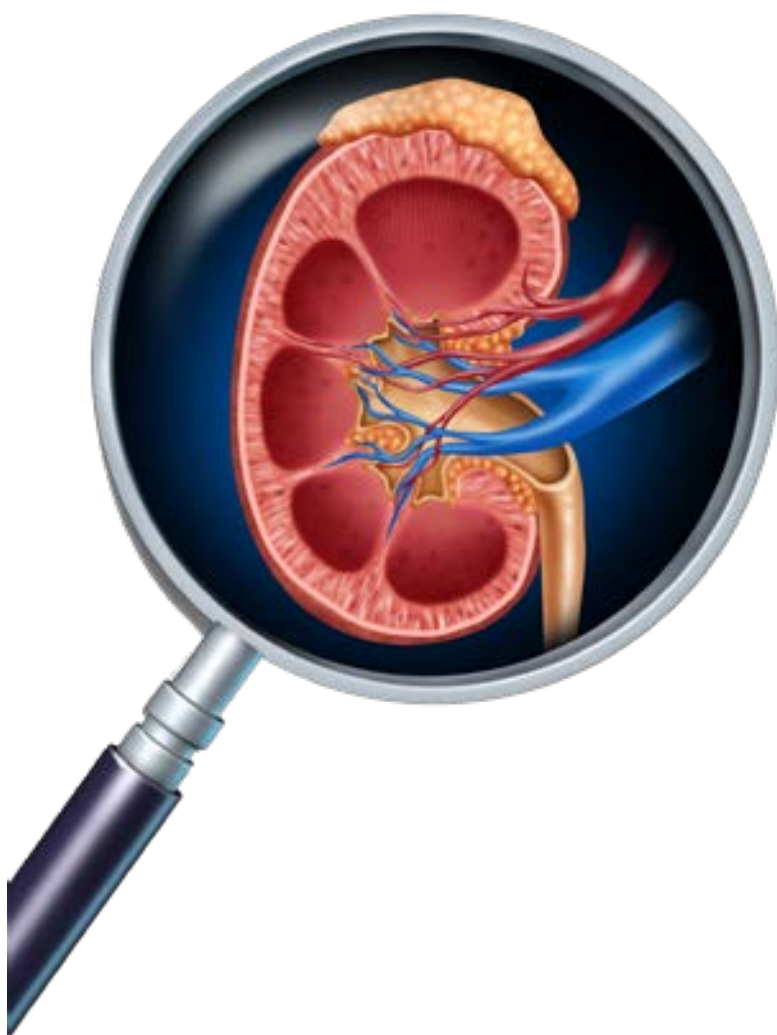
ENDO-UROLOGY

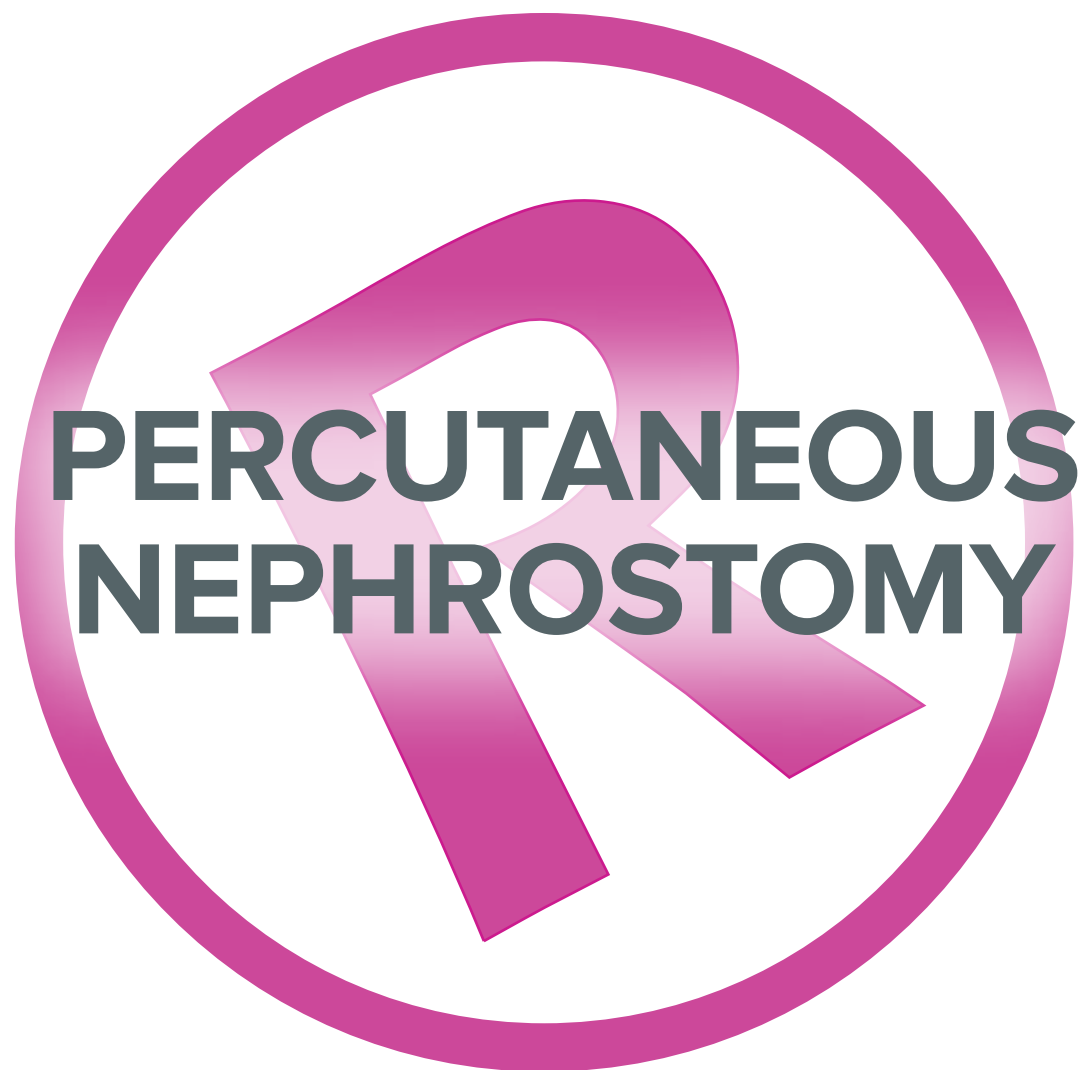
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PROSTATE

ENDOFLOW

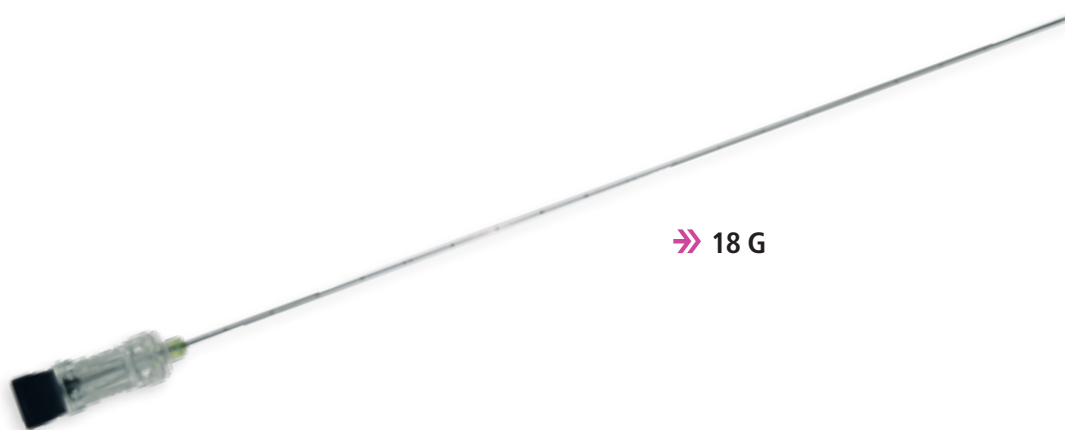
LASER





➤ RocaNephro

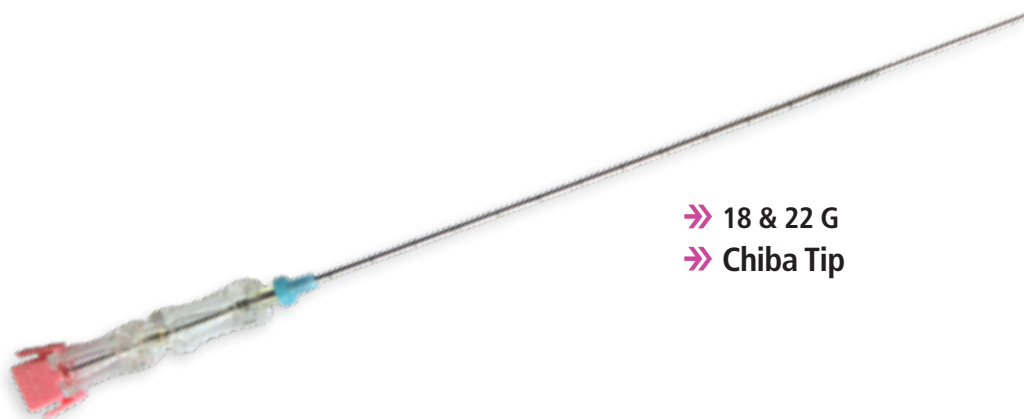
Needles



➤ 18 G

➤ **2 part Needles**

- 20 cm Length
- Echogenic needle designed for improved ultrasound visibility



➤ 18 & 22 G

➤ Chiba Tip

➤ **3 part Needles**

- 20 cm Length
- Echogenic needle designed for improved ultrasound visibility



RocaNephro

Needles

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER



» Diamond Tip

- Used for percutaneous nephrostomy access



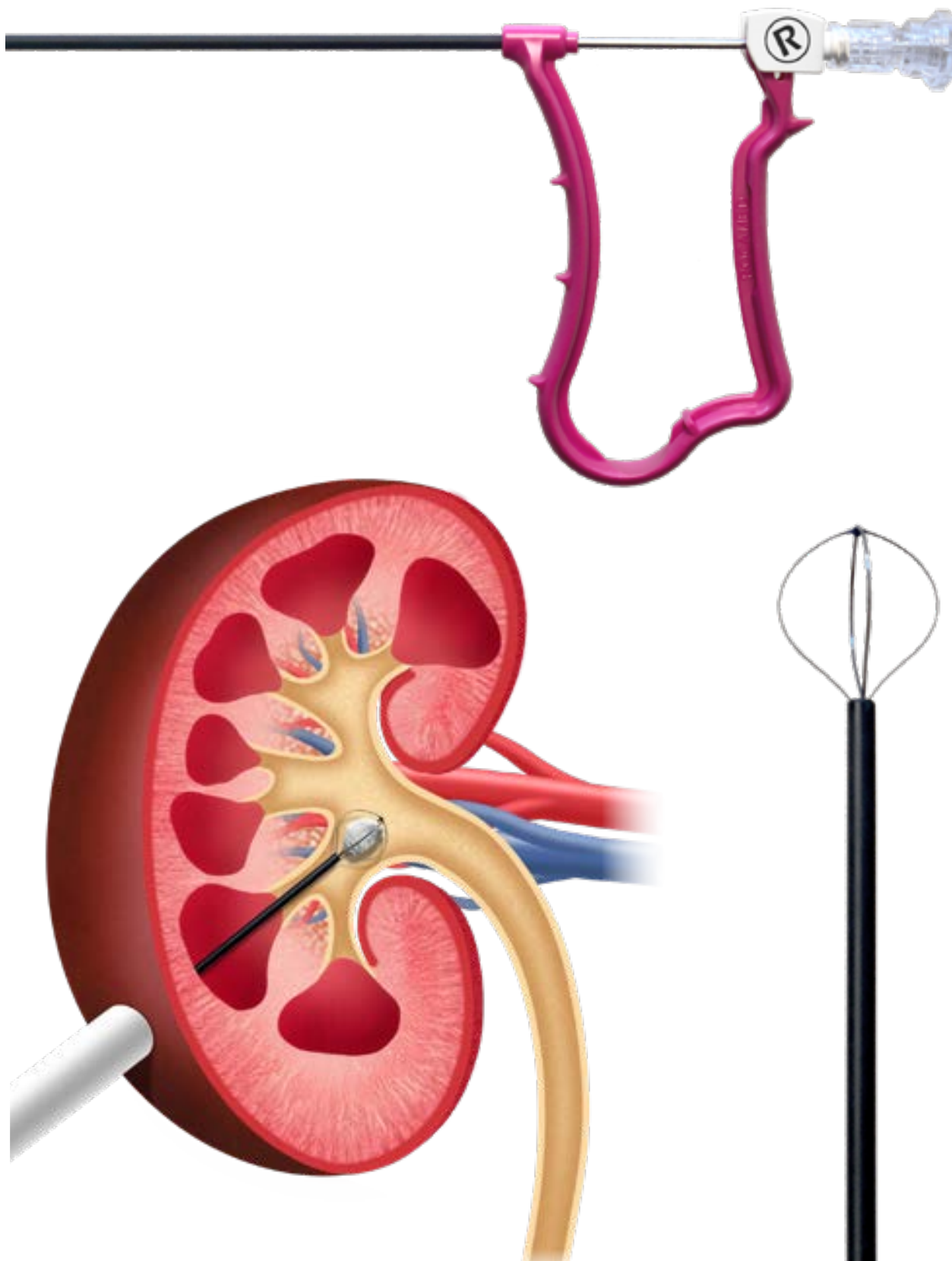
» Chiba Tip

- Used for initial location and positioning of the renal collecting system during a percutaneous nephrostomy procedure

References	Tip	Parts	Ø Needle (G)
RONN1821ST	Diamond	3	18
RONN1820ST		3	18
RONN1822ST	Chiba	2	18
RONN2222ST		2	22

➔ Coaxial PerkX stone Extractor

Designed for PCNL procedures





Coaxial PerkX stone Extractor

Designed for PCNL procedures

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

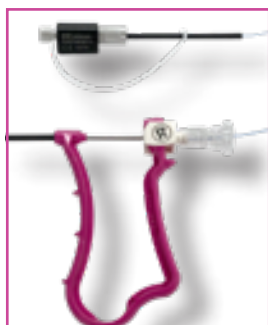
» Great to remove easily big fragments in PNL



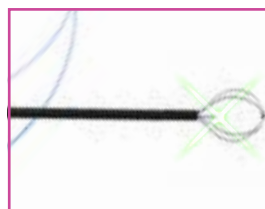
» **NITINOL FLAT WIRES**
Excellent memory and flexibility



» **TIPLESS BASKET**
Minimal trauma



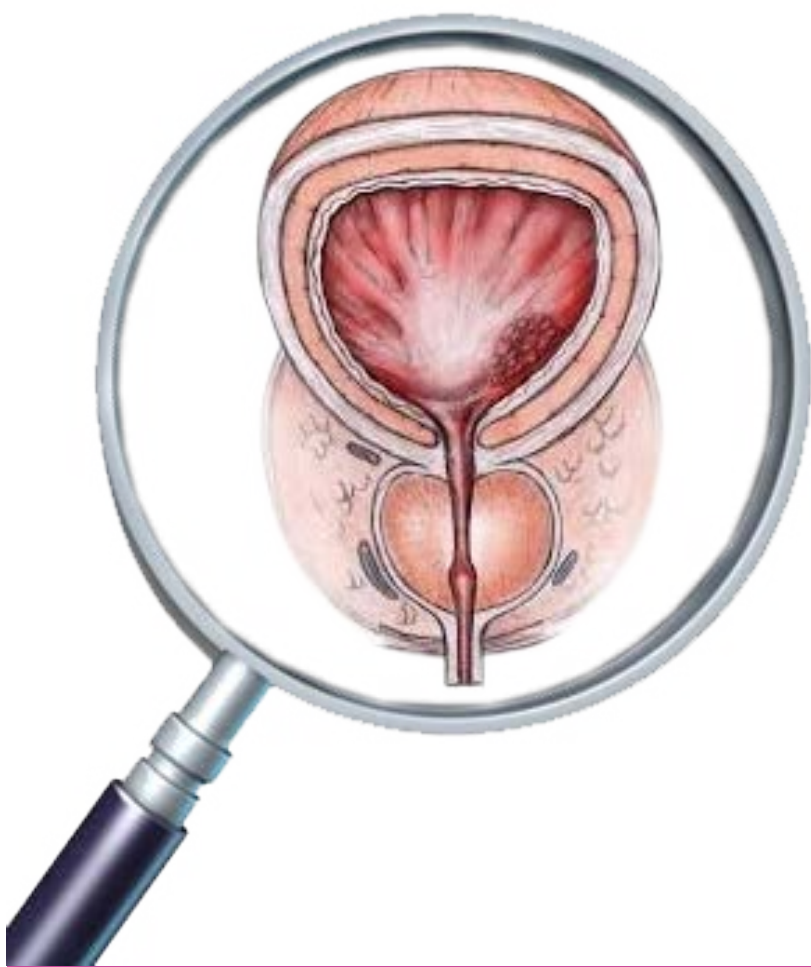
» **ERGONOMIC HANDLE**
With tuohy borst connected, allowing 272µm Fiber to be introduced



» **COAXIAL STONE EXTRACTOR**
PTFE Coated



Reference	Size Fr	Wire	Working Length (cm)	Basket Ø (mm)	Basket Length (mm)	Description
ROKP1001ST	10	4	38	20	17.5	PerkX Coaxial PCNL Stone extractor for Rocamed laser fiber (max 272µm)



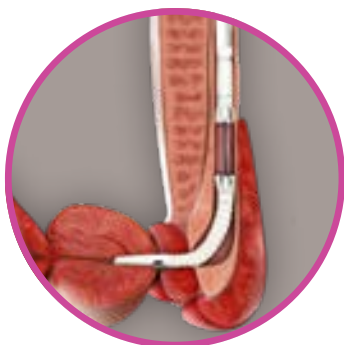


➔ EXIM[®]

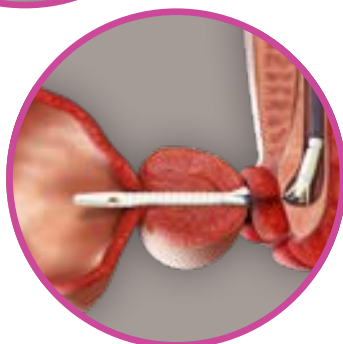
Temporary Prostatic Stent



A temporary solution for acute or chronic urinary retention in males



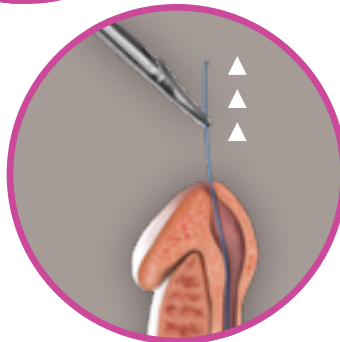
**EASY
TO INSERT**



**FOR ALL
PROSTATES**



**EXCELLENT
TOLERANCE**



**EASY TO
REMOVE**



EXIM[®]

Temporary Prostatic Stent

ENDO-UROLOGY

NEPHROSTOMY

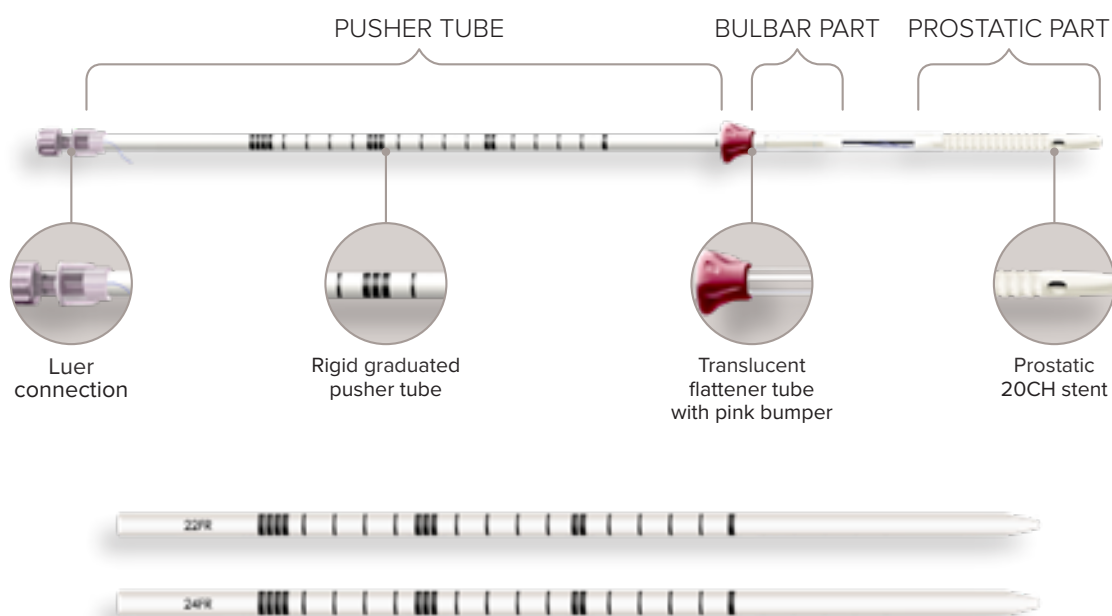
PROSTATE

ENDOFLOW

LASER

Kit composition

Delivered ready for use



2 Bougies (22, 24 Fr) delivered for meatus and urethra calibration before insertion

Technical Specifications

Ref.	Kit Components	Ø Size (Fr)	Length(mm)
ROFV2200ST	Stents	20	Prostatic part : 80 Bulbar Part : 32
	Pusher Tuber	20	300
	Flattener tuber	22	90
	Bougie x2	22& 24	300

Contraindications :

- Infection of the genito-urinary system, macroscopic haematuria with clots, failure of the urinary sphincter.
- Infections of the urinary tract such as urethral stenosis, wrong urethral route, bladder stones or other significant infections may affect the normal functioning of the device.
- Bladder apex-neck distance higher than 5cm.
- Do not use after treatment with an agent physically generating prostatic oedema and possibly macroscopic haematuria (hypo-fractionated radiotherapy, brachytherapy, focused ultrasound, trans-urethral micro-wave heat therapy...), as the urine no longer becomes clear (48h minimum).
- Do not use, when, on the advice of the doctor, such a procedure would be contrary to the greater interest of the patient.

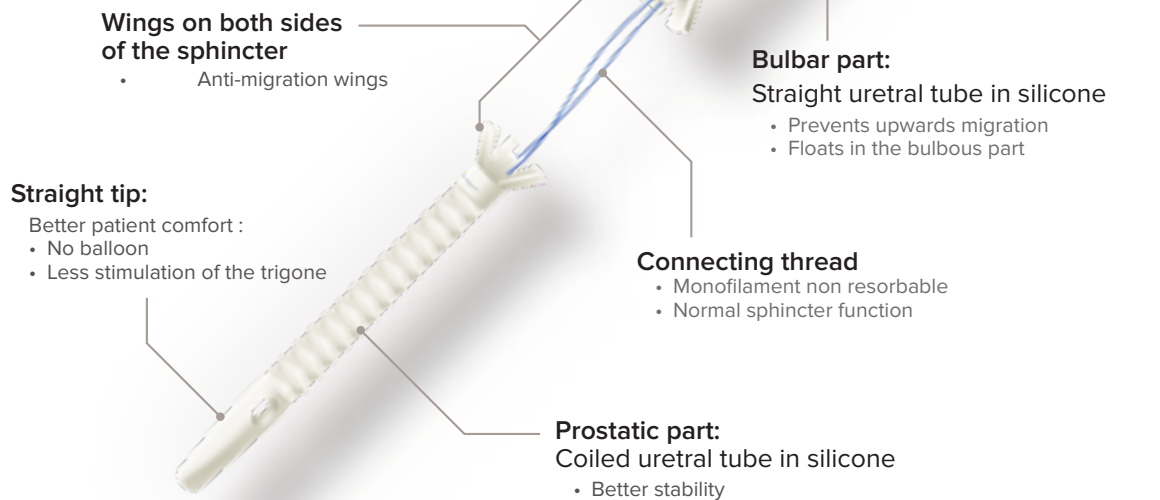
EXIME®

Temporary Prostatic Stent

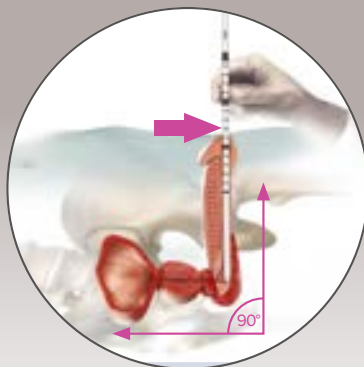


EXIME®

Temporary Prostatic Stent

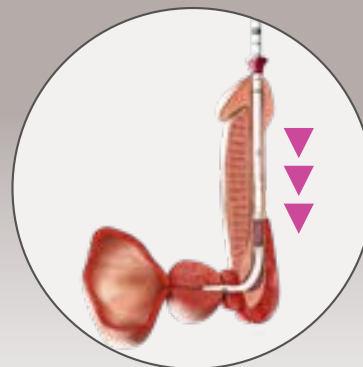


STEP 1 BEFORE INSERTION OF EXIME



- Stretch the penis vertically.
- Instill the urethra with an anesthetic gel and calibrate with the 22 or 24 CH Bougie.
- Glide the Bougie until **abutment** against the posterior wall of the bulbous urethra.
- Note the depth of abutment of the Bougie

STEP 2 STENT INSERTION



- Stretch the penis vertically again.
- Glide the device inside the urethra until **abutment of the pusher tube against the posterior wall of the bulbous urethra at the same depth as the one measured with the Bougie.**

STEP 3 STENT REMOVAL



- Keep the penis stretched.
- **Remove the stylet** and pull gently on the suture to **remove the wings of the upper sphincter.**
- Cut the retrieval suture outside the meatus.



EXIME®

Temporary Prostatic Stent

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

Indications for use :

EXIME® is intended for temporary use (up to 1 month) to restore urine flow and allow voluntary urination in males with acute or chronic urinary retention.

EFFICIENT

Temporary	✓
Immediate voiding	✓
Increased Flow Rate	✓
Reduced PVR*	✓

EASY TO USE

No need of orientation	✓
Stable: wings on both sides of the sphincter	✓
Easy stent removal	✓
Does not require anesthesia	✓
Reduced Risk of MR bacteria selection	✓

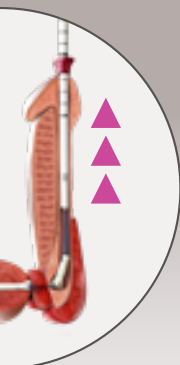
PATIENT COMFORT

Outpatient procedure	✓
Sexual activity preservation	✓
No bladder spasms	✓
Probably reduce the risk of CAUTI*, to be confirmed during the PMS**	

* Catheter-Associated Urinary Tract Infection.

** Post Market Surveillance.

STEP 3 RELEASE



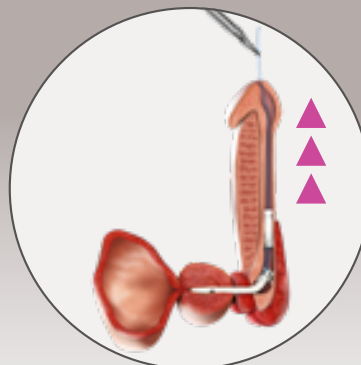
...ed vertically.
...d the pusher tube.
...re to feel the resistance of
...r tube deployed above the
...: leave 10 mm protruding

STEP 4 CONTROL



- No urine leak when patient moves from the dorsal decubitus position to the standing position.
- Immediate micturition of clear urine.

STEP 5 STENT REMOVAL



- Instill the urethra with an anesthetic gel and calibrate the urethra meatus with a 22 or 24 CH Bougie.
- Pull gently on the suture with a forceps.



EchoLaser® TPLA™

Transperineal Laser Ablation

A unique Micro-Invasive
Ultrasound guided **BPH Solution**



➔ ECHOLASER®

Transperineal Laser Ablation



WHAT IS ECHOLASER?

Micro-Invasive technique with fine needles:

EchoLaser TPLA™ uses the laser light to heat the tissue to be treated until irreversible in-situ damage occurs.

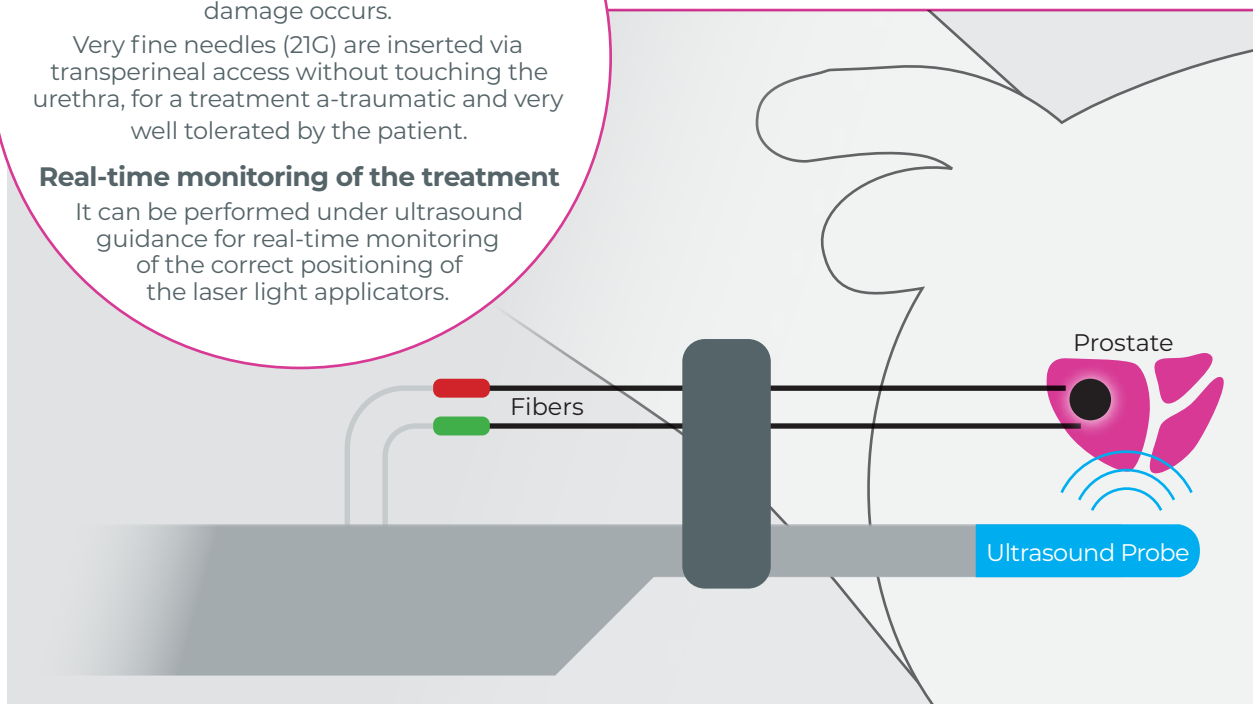
Very fine needles (21G) are inserted via transperineal access without touching the urethra, for a treatment a-traumatic and very well tolerated by the patient.

Real-time monitoring of the treatment

It can be performed under ultrasound guidance for real-time monitoring of the correct positioning of the laser light applicators.

APPLICATION

EchoLaser is indicated in the case of patients suffering from Benign Prostatic Hyperplasia (BPH), with lower urinary tract symptoms.



BENEFITS

- Ejaculation preservation (96%)
- Erectile function preservation
- Continence preservation
- Micro-invasive approach (thanks to the extremely fine needles)
- No need for a general anaesthesia
- Also suitable for high-risk patients
- Short duration of treatment (few minutes)
- No risk of urethral strictures/stenosis
- No or reduced post-op pain
- No or reduced hospitalisation
- Fast recovery times

EchoLaser®
TPLA™



ECHOLASER®

Transperineal Laser Ablation

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

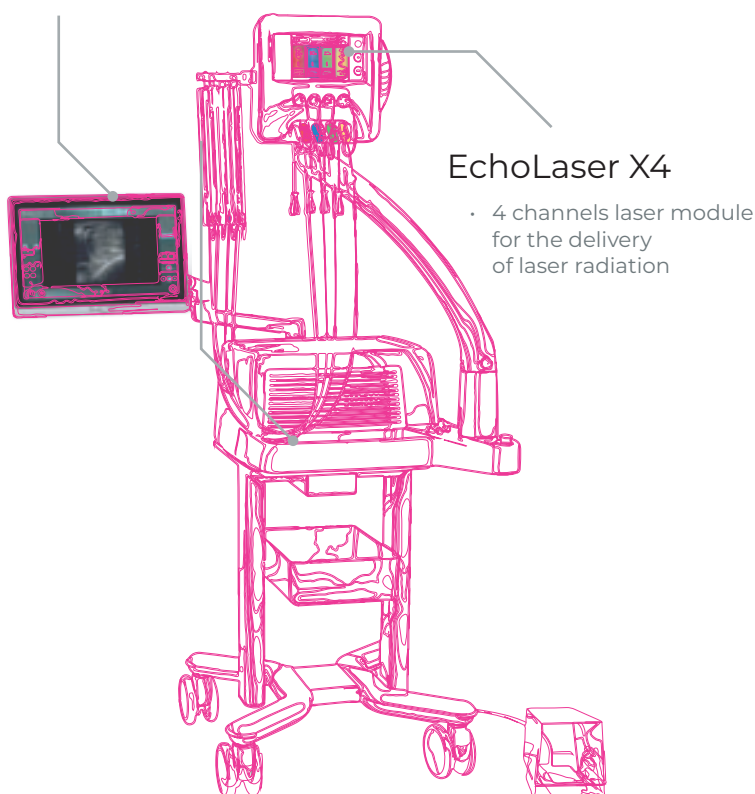
ENDOFLOW

LASER

SYSTEM COMPONENTS

Integrated Echolaser Smart Interface (ESI)

- Dedicated software for urology treatments.
- For real-time user assistance in performing the procedure.
- Can be paired with most of Ultrasound systems.



Disposable fiber optics kit

- Fiber Optic
- Chiba Introducer needle (21G)



Multi-needle guiding systems

Reference	EchoLaser® system	Quantity/box
MEL01	EchoLaser®	1
Reference	EchoLaser® Fiber Kits	Quantity/box
ROEL_KITX20	Laser Thermal Therapy Kit LE	20

ECHOLASER TPLA™ PROCEDURE

STEP 1 BEFORE THE PROCEDURE

- Position the patient **in gynecological position**
- Insert a bladder catheter to visualize the urethra
- **Measurement of the prostate volume**
- Transperineal **local anesthesia** (skin + periprostatic block)

STEP 2 NEEDLE INSERTION WITH TRANSPERINEAL APPROACH

- Definition of the positioning strategy for needles and fibers with **ESI (EchoLaser Smart Interface)** based on the morphology of the prostate
- **Insertion of the needles:** one or two 21G introducer needles for each lobe, according to the prostate dimensions and shape
- Removal of the inner part of the needle to allow the fiber insertion

STEP 3 FIBER INSERTION

- Insert the 300-µm optical laser fiber into each needle
- Check safety distance of the fibers from the surrounding anatomical structures and verify it with ESI
- Energy supply (5-10 min)
- Pull-back : if necessary based on the volume of the adenoma (5-10 min)
- Removal the needles + fibres

STEP 4 PATIENT DISCHARGED

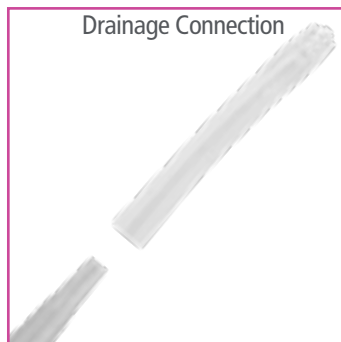
Usually the same day of the procedure.

➔ TURP Tubing Set

Used with Gravity.



➔ Laser Vaporization Irrigation Line for TURP Procedures



Reference	Description	
ONGE2001ST12	TURP Irrigation line with flushing system for laser vaporization	2 spikes



TURP Tubing Set

Used with Gravity.

ENDO-UROLOGY

» Irrigation Line for TURP/Diagnostic



NEPHROSTOMY

PROSTATE

Reference	Description	
ONGR2000ST12	TURP Irrigation line for diagnostic	2 spikes

» Irrigation set for TURP with Laser cooling line



ENDOFLOW

LASER

Reference	Description	
ONGR2001ST12	Irrigation Set with Laser Cooling Line	2pikes





⇒ EndoFlow® II

Advantage in Urology



The heating feature is an advantages for all interventions:
It counterbalances the cooling down of the patient.

⇒ **Resection trans-urethra-bladder:** The system can keep a low pressure (40 cm), no need to touch the irrigation stop-cock. With Endoflow the pressure is controlled: Meaning a reduction in time used and gains in comfort.

⇒ **Ureteroscopy - rigid scope:** Since Endoflow provides a controlled pressure and a steady liquid flow (without pulsation), it enables the surgeon to approach the kidney stones in the Ureter ("lombaires") without the risk of "flushage" (pushing the stone back into the kidney). Always being ensured a good visibility.

⇒ **Ureteroscopy - flexible scope:** The controlled pressure and the steady liquid flow are important features. Also, the Endoflow system permits the surgeon to make a short increase in pressure when necessary. This can be done via a chamber on the tubing set, or by a footswitch giving a 20cmH₂O increase in pressure for 30 sec. The specialised tubing set has a 3 way stop-cock allowing for injection of contrast liquid without disconnecting the tubingset. The set also have a rotating luer lock male connection – meaning that the surgeon can move the scope freely.

⇒ **Resection trans-urethra-prostate:** Controlled pressure and aspiration flow- rate. This provides an economic advantage, as it allows a reduction of up to half of the glycine used during the intervention.

⇒ **Resection trans-urethra-prostate with a Bipolar resector:** The heated liquid is necessary for the optimal use of the bipolaire resecteur.

⇒ **PCNL:** The heating system counterbalances the cooling of the patient. The patients are consequently left without post-op tubing sets after and intervention.



EndoFlow® II

Concept

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

UNIQUE SYSTEM FOR FLUID MANAGEMENT

- Irrigation, aspiration, high-pressure Irrigation - a new breath of functions
- Wide range of pressure modes, covering the needs for :

Urology	- Ureteroscopy - TURP - Laparoscopy
Gynecology	- Hysteroscopy - Laparoscopy
General Surgery	- Laparoscopy

Improved surgical precision:

- Steady liquid flow during irrigation / aspiration gives improved visibility, especially when conducting Hysteroscopy.
- The indicated pressure on the machine is identical to the pressure in the closed cavity.

Patient body temperature less of an issue for the anaesthetist

- Fluid heated and maintained



⇒ EndoFlow® II

Dual Chamber

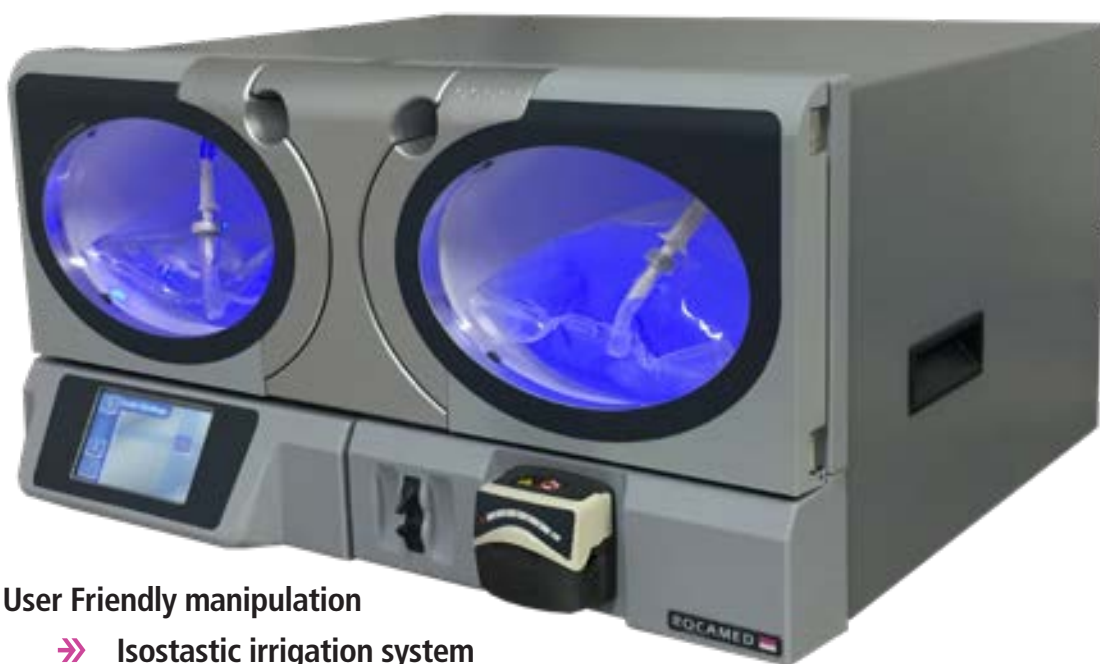


⇒ NEW GENERATION - A UNIQUE SYSTEM OF FLUID MANAGEMENT

⇒ Accurate pressure management

Self-Regulation
No pulsation effect

⇒ Bag Heated and Maintained at $38^{\circ}\pm 2$



⇒ User Friendly manipulation

⇒ Isostatic irrigation system

⇒ Suction pump



	EndoUrology	Hysteroscopy	Laparoscopy	Resection	Arthroscopy
Pression (Mbar)	0-190	0-230	0-1000	0-1000	0-350
	Entrance tension			Frequency	Power
Electricals Characteristics	230V (Europe)			50Hz	420VA

Reference

MEN02P EndoFlow® II Double Chamber



EndoFlow®II

Single Chamber

» NEW GENERATION - A UNIQUE SYSTEM OF FLUID MANAGEMENT

» Accurate pressure management

Self-Regulation
No pulsation effect

» Bag Heated and Maintained at 38°^{±2}



» User Friendly manipulation

» Isostatic irrigation system



	EndoUrology	Hysteroscopy	Laparoscopy	Resection	Arthroscopy
Pression (Mbar)	0-190	0-230	0-1000	0-1000	0-350
	Entrance tension			Frequency	Power
Electricals Characteristics	230V (Europe)			50Hz	420VA

Reference

MEN01 EndoFlow®II Single Chamber

ENDO-UROLOGY

NEPHROSTOMY

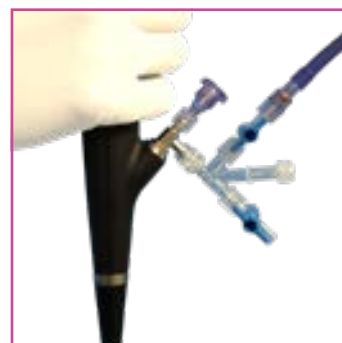
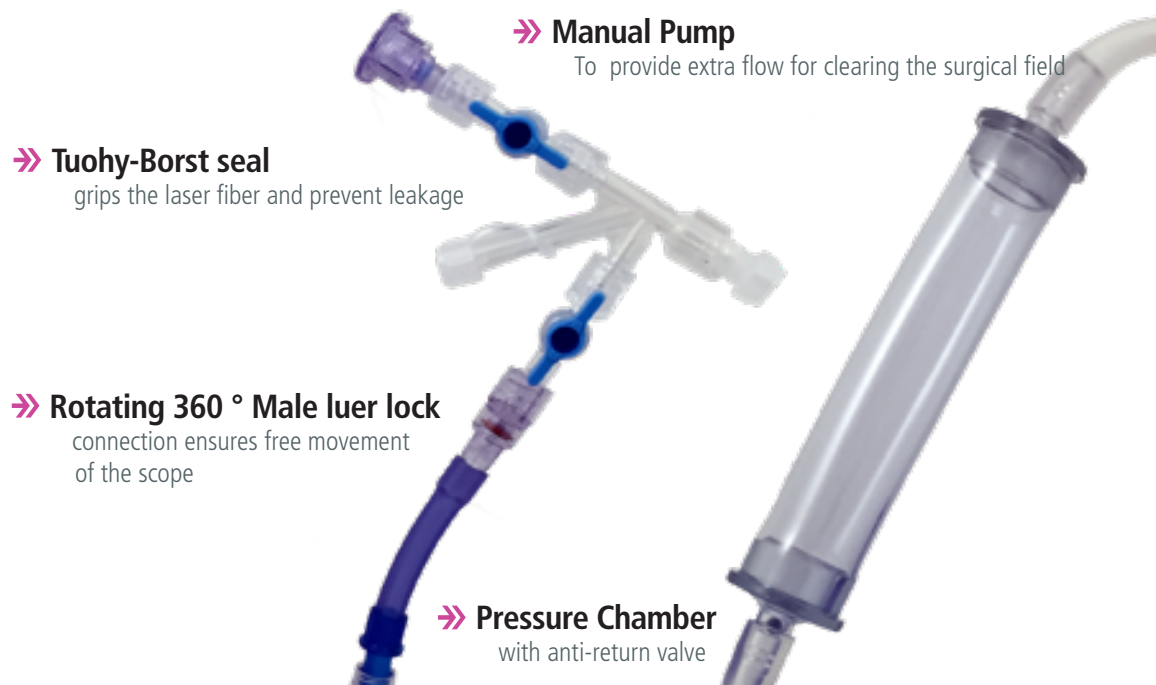
PROSTATE

ENDOFLOW

LASER

⇒ EndoFlow® II In Urology

Ureteroscopy tubing set



References	Description	
SOUR9107ST12	TraxerFlow™ Irrigation Line for Ureteroscopy Laser	1 SPIKE
SOUR9207ST12	TraxerFlow™ Irrigation Line for Ureteroscopy Laser	2 SPIKES



EndoFlow® II In Urology Prostate Tubing Set

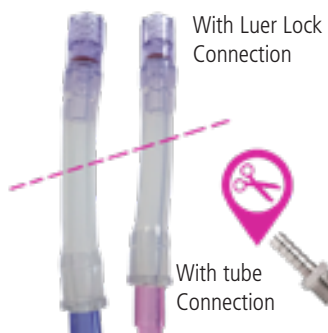
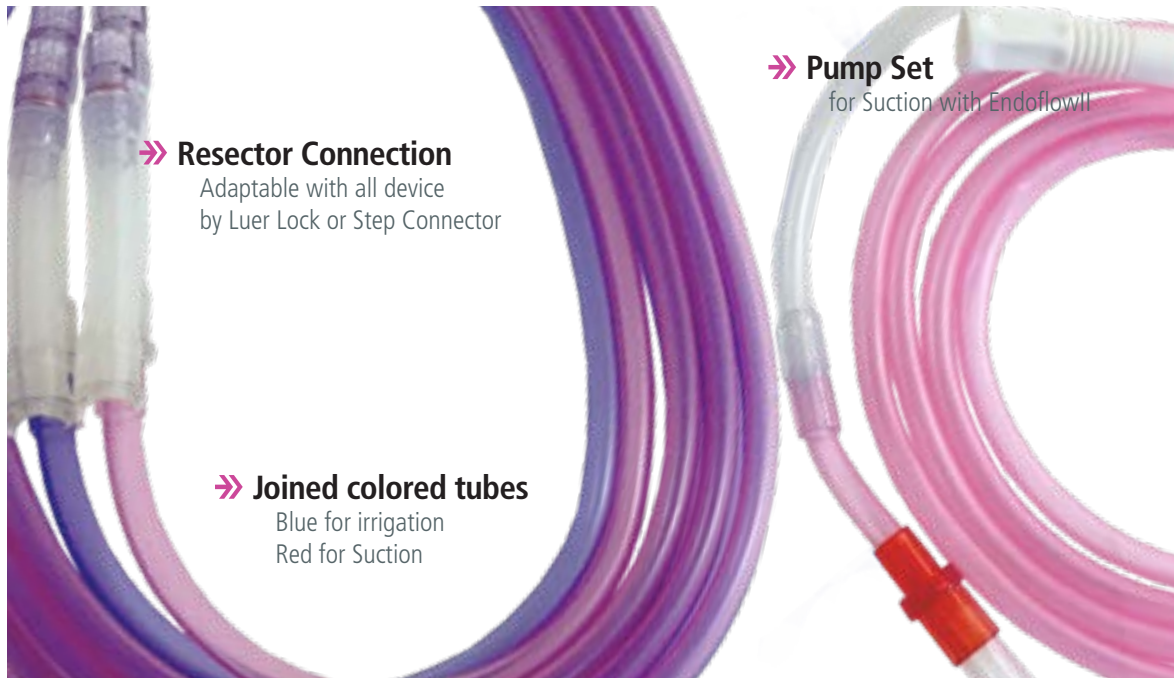
ENDO-UROLOGY

NEPHROSTOMY

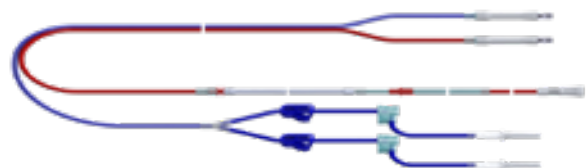
PROSTATE

ENDOFLOW

LASER



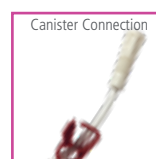
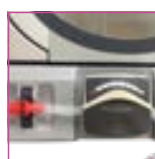
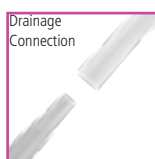
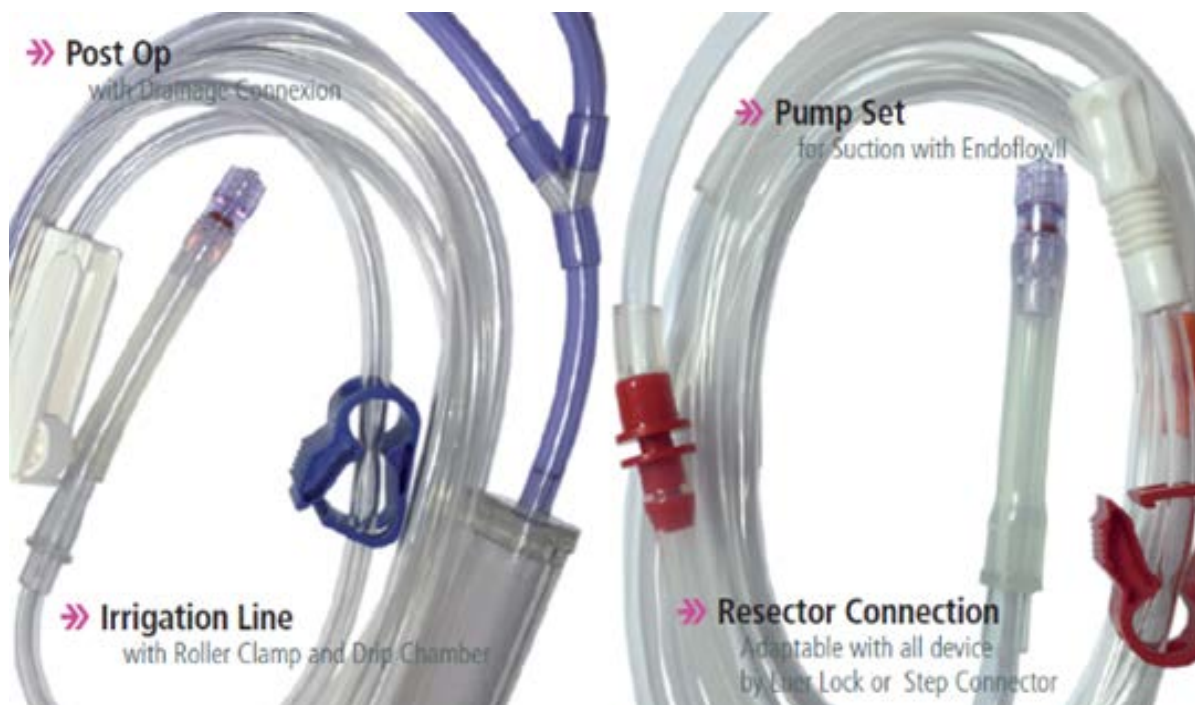
Canister Connection



Reference	Description
SOUR9201ST12	Irrigation/Suction Setfor TURP with pump Segment 2 SPIKES

➔ EndoFlow® II In Urology

TURP tubing sets

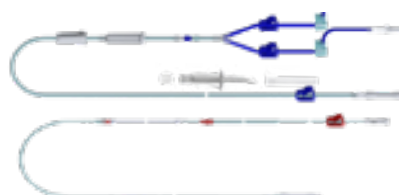


Reference	Description	
SOUR9200ST12	Irrigation/Suction set for TURP/ Post Operative	2 SPIKES



➔ Post Operative Irrigation Connection

The extra Spike allows Irrigation by Gravity by disconnecting the EndoFlow II Irrigation part



Reference	Description	
SOUR9212ST12	Irrigation/Suction set for TURP /Post Op connection with Extra spike	2 SPIKES



EndoFlow[®] II In Urology TURP tubing sets

» Irrigation Line
with Drip Chamber

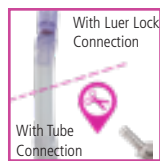
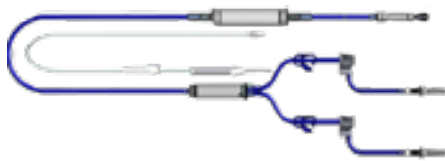


» Prostate Laser Cooling Line
with Drip Chamber and Roller Clamp

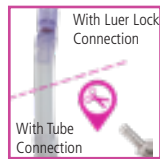
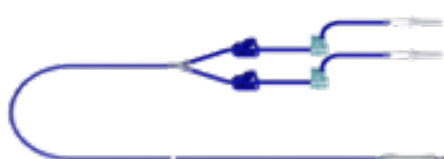


» Resector Connection
Adaptable with all device
by Luer Lock or Step Connector

» To connect
to Prostate laser
is order to cool
the Fiber



Reference	Description
SOUR2002ST12	Irrigation Set for TURP with Prostate Laser Cooling Line 2 SPIKES



Reference	Description
SOUR9208ST12	Irrigation Line for TURP Diagnostic 2 SPIKES

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

⇒ EndoFlow® II

Laparoscopy Tubing sets



⇒ Irrigation & Suction Line

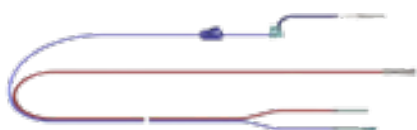
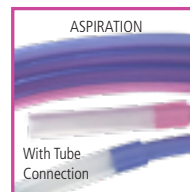
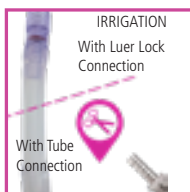
⇒ Joined colored tubes

Blue for irrigation
Red for suction

⇒ Joined colored tubes

Blue for irrigation
Red for suction

⇒ Irrigation & Suction Line made to be used with ReUsable Handle devise



Reference	Description	
SOLA9100ST12	Irrigation/Suction set <i>(no Handpiece & no Probe)</i>	1 SPIKE



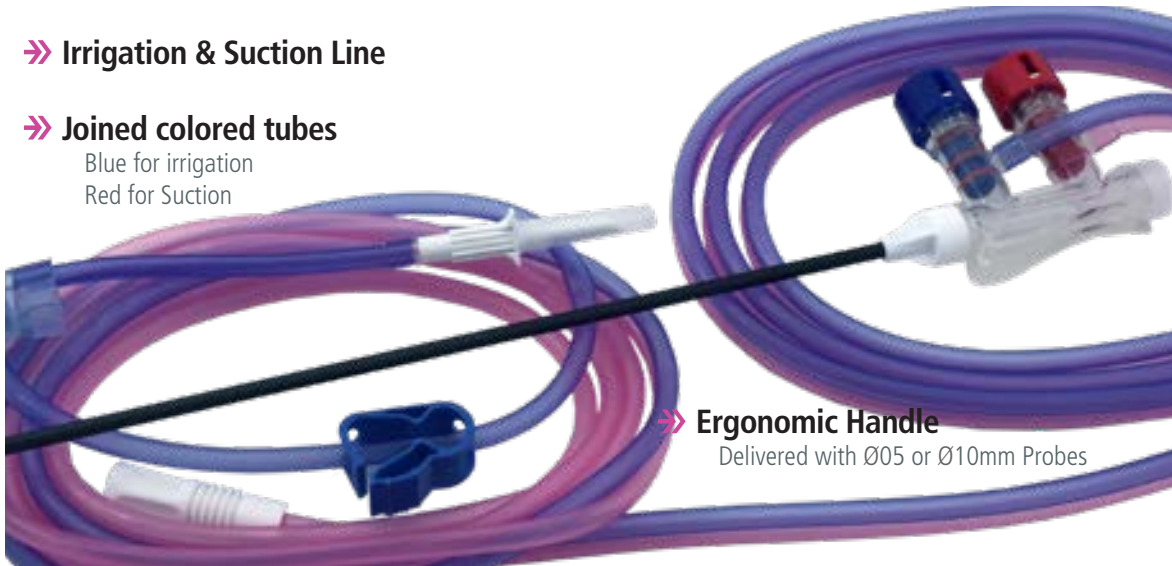
EndoFlow® II

Laparoscopy Tubing Sets

» Irrigation & Suction Line

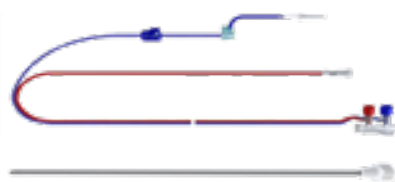
» Joined colored tubes

Blue for irrigation
Red for Suction



» Ergonomic Handle

Delivered with Ø05 or Ø10mm Probes



Canister Connection



1 Spike



RFID Identification

IRRIGATION HIGH PERFORMANCES

HANDPIECE:

- Red piston allow for suction control
- Free pressure regulation
- Left hand and right hand use

PROBES:

- Straight liquid jet
- DEHP free / Phthalate free



References	Description
SOLA0533ST12	Irrigation/Section Set with Handpiece & Ø 5mm probe Tip L330mm 1 SPIKE
SOLA1033ST12	Irrigation/Suction Set with Handpiece & Ø 10mm probe Tip L330mm 1 SPIKE

⇒ EndoFlow® II

Laparoscopy Tubing sets



⇒ Irrigation & Suction Line

⇒ Joined colored tubes

Blue for irrigation
Red for Suction

⇒ Ergonomic Handle

Allows Ø03, Ø05 & Ø10mm Probes

⇒ Irrigation & Suction Line to be used with ROCAMED Ø03, Ø05 & Ø10mm Probes
(Probe not included in the set)



References	Description	
SOLA0500ST12	Irrigation/Aspiration set with Handpiece	1 SPIKE
SOLA2500ST12	Irrigation/Aspiration set with Handpiece	2 SPIKE



EndoFlow® II

Laparoscopy Probes

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

PROBES:

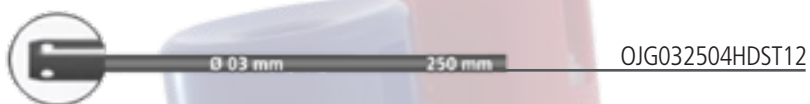
- Straight liquid jet
- DEHP free / Phthalate free

Ø 10mm

Ø 5mm

Ø 3mm

» 4 Hole Probes



» 8 Holes Probes



» 16 Holes Probes



➤ EndoFlow® II

Laparoscopy Accessories



➤ Veress Needle

- Disposable pneumo peritoneum needle

➤ 120 & 150 cm Length



➤ Needle with retractable stylet for gas insufflation

- Veress needle is used for percutaneous drainages of fluid in thora-paracentesis and laparoscopy procedures.
- The needle is provided with stainless-steel cannula with triple sharpening tip, retractable stylet ables to move back in the event of collision with tissues/organs.



➤ Closed tip and three windows at 120°.

References	Length (cm)	Ø(mm)
MAF02120ST12	120	2
MAF02150ST12	150	2



EndoFlow® II In Gynecology

Hysteroscopy tubing sets



» Red Suction Line

» Colored tubes
Blue for irrigation
Red for Suction

» Blue Irrigation Line

» Irrigation & Suction Line
(Probe not included in the set)



1 Spike
or
2 Spike



RFID Identification



Canister Connection



References

SOHY9100ST12	Hysteroscopy Irrigation/Suction set	1 SPIKE
SOHY9200ST12	Hysteroscopy Irrigation/Suction set	2 SPIKES

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

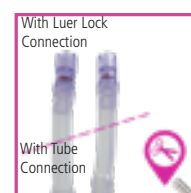
➤ EndoFlow® II In Gynecology

Hysteroscopy Tubing sets



➤ **Joined Colored tubes**
Blue for irrigation
Red for Suction

➤ **Irrigation & Suction Line**
(Probe not included in the set)



References	Description	
SOHY9102ST12	Hysteroscopy Irrigation/Aspiration set	1 SPIKE
SOHY9202ST12	Hysteroscopy Irrigation/Aspiration set	2 SPIKES



EndoFlow® II

Tube accessories

ENDO-UROLOGY

NEPHROSTOMY

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ENDOFLOW

LASER



Reference	description
ROMTB-ST0	Tuohy Borst 6 Fr (14G) MLL



Reference	Description
ROMYTB-ST0	Y Connector + Tuohy Borst 6 Fr (14G)



Reference	Description
ROMYCLICST	Y-Clic connector

SIRIUS





➔ SIRIUS

60W THULIUM FIBER LASER



Extreme frequency emission

Low retropulsion

Effective lithotripsy

Great cutting
& ablation capability



Compact Design



Standart Electrical
Installation



Reduced
noise levels



STONE SOLUTION



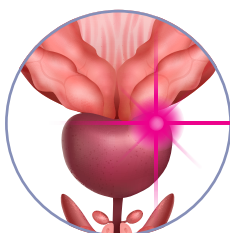
Reduced Size of Dust



Low Retropulsion



Extreme Frequency Emission



BPH SOLUTION



BPH



Hemostasis



Soft Tissues



SIRIUS

60W THULIUM FIBER LASER

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER

INTUITIVE SCREEN

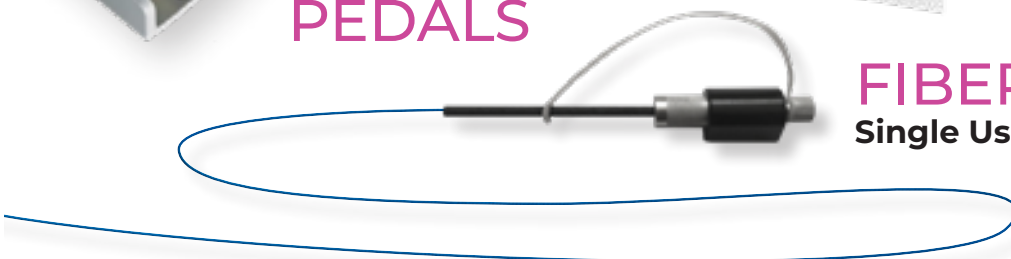


FOOT PEDALS



FIBERS

Single Use & Reusable



Technical Informations

Laser type	Thulium Fiber Laser
Wavelength	1940 nm $\pm$ 20nm
Power of Target	60 Watts
Energy/Pulse	Up to 6J
Application mode	Pulsed and CW
Time function	Pulsed Mode and CW
Pulse Duration	75 μ s < laser pulsion duration < 1000 μ s
Repetition rate	Up to 2500 Hz
Peak power	Up to 500W

Ordering Informations

Description	Reference		
SIRIUS 60W Thulium Fiber Laser	MS01		
Single Use & Reusable Fibers	Single Use	Reusable Fibers	
		Up to x5	Up to x10
150 μ m	MS150ST	-	-
200 μ m	MF200ST	MS200RST	MF200RST
272 μ m	MF272ST	MS272RST	MF272RST
365 μ m	MF365ST	MS365RST	MF365RST
550 μ m	MF550ST	MS550RST	MF550RST
800 μ m	MF800ST	MS800RST	MF800RST
1000 μ m	MF1000ST	MS1000RST	MF1000RST





MH01 30W HOLMIUM YAG LASER

➔ 30W HOLMIUM LASER

Characteristics



WaveLenght Ho: YAG 2100 nm

Pulse energy : 0,2 - 4J

Pulse frequency : 3 - 25 Hz

Pulse duration : 150-850 μ s

Pulse lengh regulation : Automatically

Identification of Fiber : Fiber RFID with TAG devise

Average power : up to 30W - Wavelength: 2100nm+/- 20nm

Electrical : 100-120 VAC : 50/60 HZ 16 A
200-240 VAC : 50/60 HZ 10 A

Dimension : 938 x 332 x 967 H x W x D 5(mm)

Weight : 60 kg



30W HOLMIUM LASER

MH01

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER



Holmium Laser 30W is powerful and offers a wide range of different frequencies and energy.

The setup of frequency and energy is integrated in an intuitive and pre-programmed menu: for a fine and accurate treatment strategy and for stone or soft tissue with a very easy handling.

Ref.	Product Description
MH01	Rocamed Laser - Holmium Medical System

➔ 30W HOLMIUM LASER

Accessories



Accessoires

MH30STP	Fiberstripper 0.3 -1.0 mm
MH30STP2	Fiberstripper 0.1 -0.4 mm
MH30SCF	Ceramic Fiber Cutter with slipcase
MH30SGO	Safety goggles DI1400-33,L3;905-1400DIRL5
MH30UMR	User Manual Rocamed MH01
MH30OBS	Optical Blast Shield for Holmium-external access
MH30BHC	Bottle For Hydraulic circuit filling - 0,8 litre with CPC
MH30FSC	1-pedal foot control with B7 button
MH30BOX	Nood Box for MH01
MH01FC	Laser MH01 Flight Case



30W HOLMIUM LASER

Application Mode

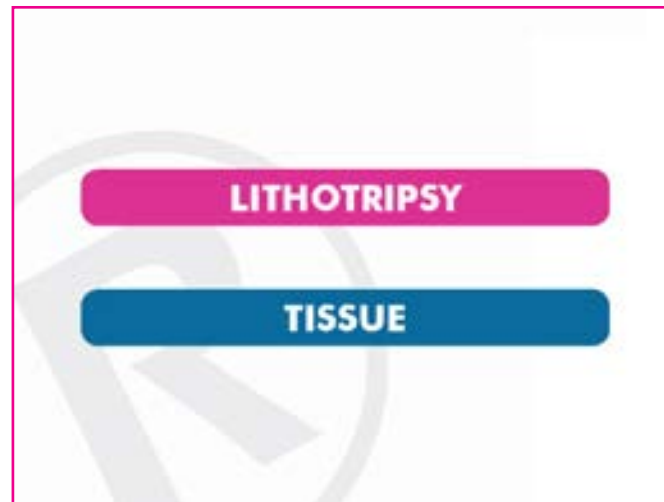
ENDO-UROLOGY

NEPHROSTOMY

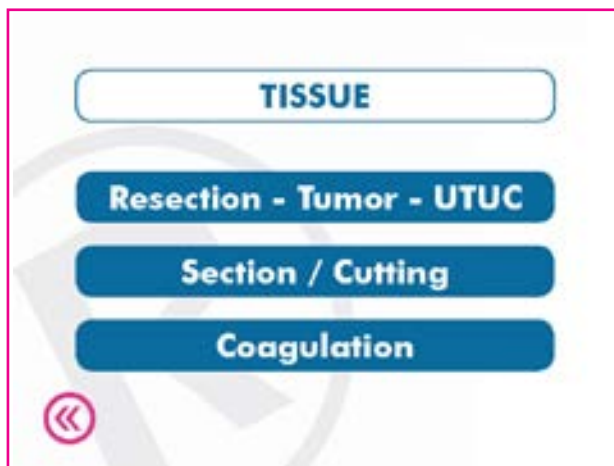
PROSTATE

ENDOFLOW

LASER



Lithotripsy or Tissues Application mode



➔ 30W HOLMIUM LASER

Lithotripsy Mode



The difference between short and Long pulse mode

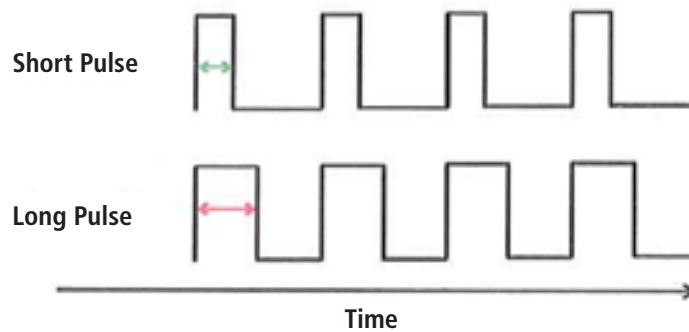


Figure 1* - Comparing the two traditional short-pulse mode with the new long-pulse mode, laser lithotripter settings are exactly the same pulse frequency, pulse energy, and the same power level, thus the same amount of energy is delivered.

However, in short-pulse mode, the energy delivered by the single laser pulse occurs during a certain period of time (green double arrow), while in long-pulse mode that same amount of energy is distributed over a longer period of time (red double arrow)

Short vs Long pulse lithotripsy

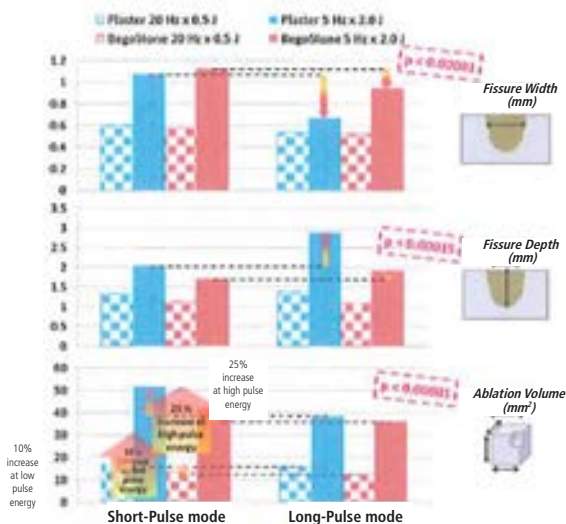


Figure 3* - Initial experiments showed that long-pulse mode produces significantly narrower fissures, particularly if using LoFr-HiPE and regardless of stone material. In relation to fissure depth there is an inversion of the pattern seen before with fissure width, with long-pulse mode producing deeper fissures, specially with softer stone material. Concerning ablation volume, short-pulse mode remains the more efficient lithotripter setting, with a 9.9% and 25.2% increase at low and high pulse energy settings, respectively. All these results are statistically extremely significant.

Short vs Long pulse fiber tip degradation

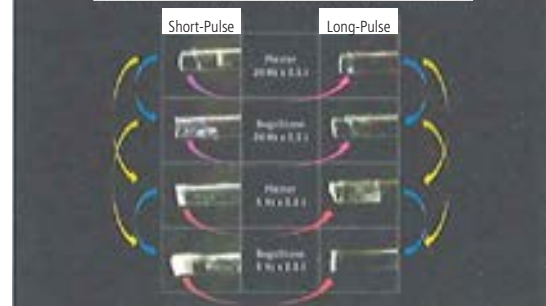


Figure 4* - Experiments revealed more fiber tip degradation with harder stone material (blue arrows), as well as with higher pulse energy settings (yellow arrows), regardless of pulse mode. Nevertheless, comparing long and short pulse settings, long-pulse mode seems to spare the cladding and the fiber tip, showing less cladding degradation (pink arrows) as well as less fiber tip opacification (red arrows)

* EAU POSTER - MADRID 2015
Peter Kronenberg & Olivier Traxer. Hopital Tenon - Paris - France
Long-pulse versus Short-pulse - Laser lithotripsy performance



30W HOLMIUM LASER

Lithotripsy Application Mode

ENDO-UROLOGY

NEPHROSTOMY

PROSTATE

ENDOFLOW

LASER



Vaporization
with Long Pulse

Fragmentation
with Short Pulse



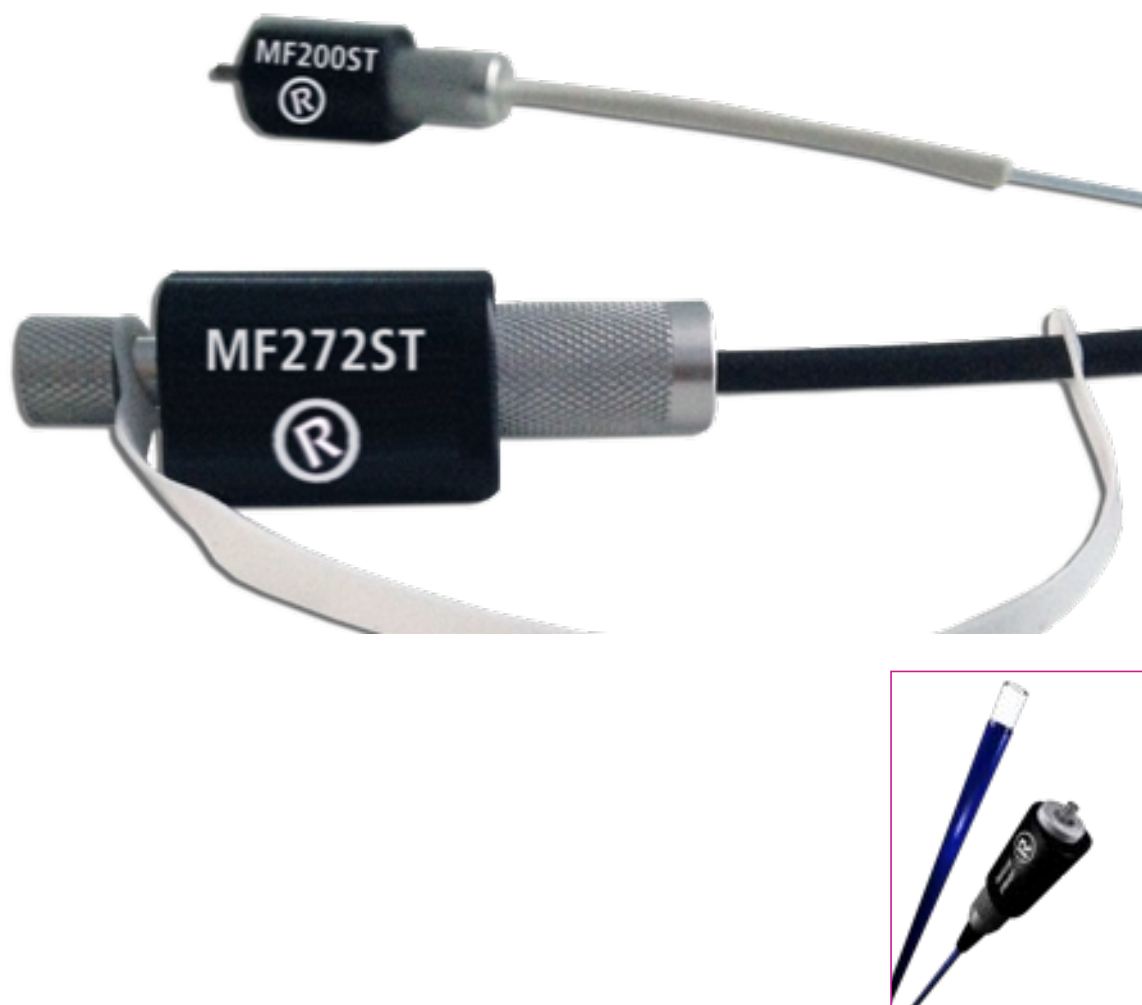
Pre Setting*
registered by type of Stone selected

* August 2014 - World Journal of Urology
Peter Kronenberg & Olivier Traxer
Update on lasers in urology 2014:
current assessment on holmium:yttrium-
aluminum-garnet (Ho:YAG) laser lithotripter
settings and laser fibers

Cutting Fiber Alarm
warns Surgeons for 10s
Allowing a better Fiber Performances

➔ 30W HOLMIUM LASER

Fibers



➔ Single Use Sterile Surgical Optical Fiber

References	μm	Fiber Type	Identification	Units / box
MF200ST	200	Single Use	RFID	5
MF272ST	272			
MF365ST	365			

➔ Reusable Sterile Surgical Optical Fiber

References	μm	Fiber Type	Identification	Units / box
MF200RST	200	up to 10x ReUsable	RFID	5
MF272RST	272			
MF365RST	365			



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