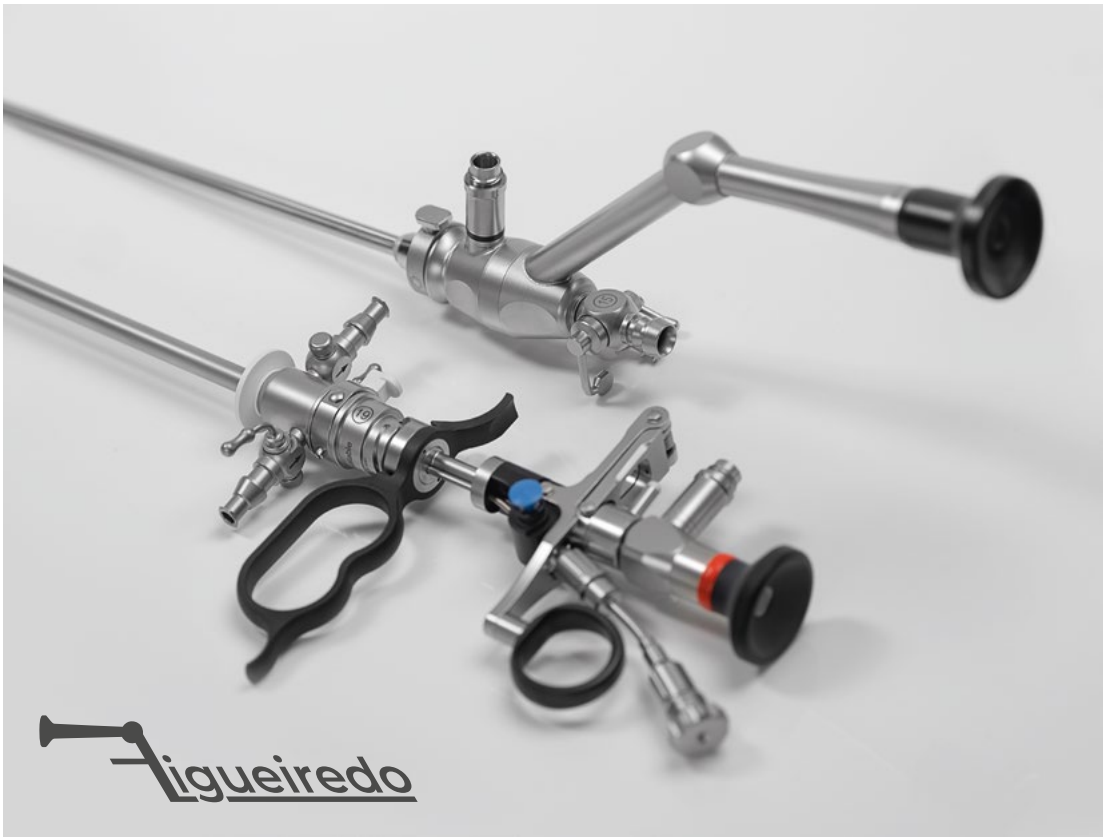
RZ Medizintechnik
PROGRESS IN SURGERY

MiLEP
Minimally Invasive Laser Enucleation of the Prostate

acc. to Dr. Felipe C. A. de Figueiredo



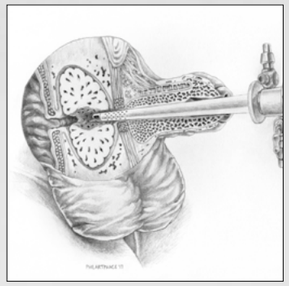
Benign Prostatic Hyperplasia

Felipe C. A. de Figueiredo
Director of Enlarged Prostate Institute in Caxias do Sul - Brazil
Head of Endourology of Pompéia Hospital

MiLEP SYSTEM

Holmium laser prostate surgery is a minimally invasive treatment for Benign Prostate Hyperplasia (BPH). The holmium laser enucleation of the prostate (HoLEP) uses a laser resectoscope to enucleate the prostate tissue that is blocking urine flow. A morcellator which passes through the morcescope is then used to cut the prostate and remove the adenoma.

As with other types of prostate laser surgery, HoLEP can offer faster recovery, less risk of bleeding and transfusion and better symptom relief compared to traditional prostate surgery.



“HoLEP has proven itself to be the new gold standard in surgical treatment for LUTS secondary to BPH with the ability to endoscopically treat prostates independent of size, with durable long term outcomes”

K. Akhil et al 2020 (*)

“Holmium laser enucleation of the prostate (HoLEP) is a minimally invasive and size-independent treatment for benign prostatic hyperplasia with excellent long-term surgical outcome”

F. Figueiredo et al 2020 (**)

Ergonomic design

Quick lock mechanism

Continuous flow stopcocks

Shock resistant optical fibers

Ø 5mm working channel compatible to blades of:
- Wolf
- Lumenis
- Storz
- Dornier

Additional irrigation inflow

(*) Holmium laser enucleation of the prostate (HoLEP): size-independent gold standard for surgical management of benign prostatic hyperplasia
Das K. Akhil, Han M. Timothy, Hardacker J. Thomas, Department of Urology, Thomas Jefferson University, Philadelphia, Pennsylvania, USA
Can J Urol Aug 2020 (Vol. 27, Issue 43, Pages (44 - 50)

(**) Holmium laser enucleation of the prostate: Problem-based evolution of the technique
Felipe Carvalho Antunes de Figueiredo, Cecilia Maria Cracco , Rodrigo Loureiro de Marins, Cesare Marco Scoffone
Andrologia 2020 Sep;52(8):e13582. doi: 10.1111/and.13582. Epub 2020 Apr 8.

22 CHARR.

GOLD STANDARD

Endoscopic laser enucleation has become the golden standard for treatment of BPH for glands > 80g.

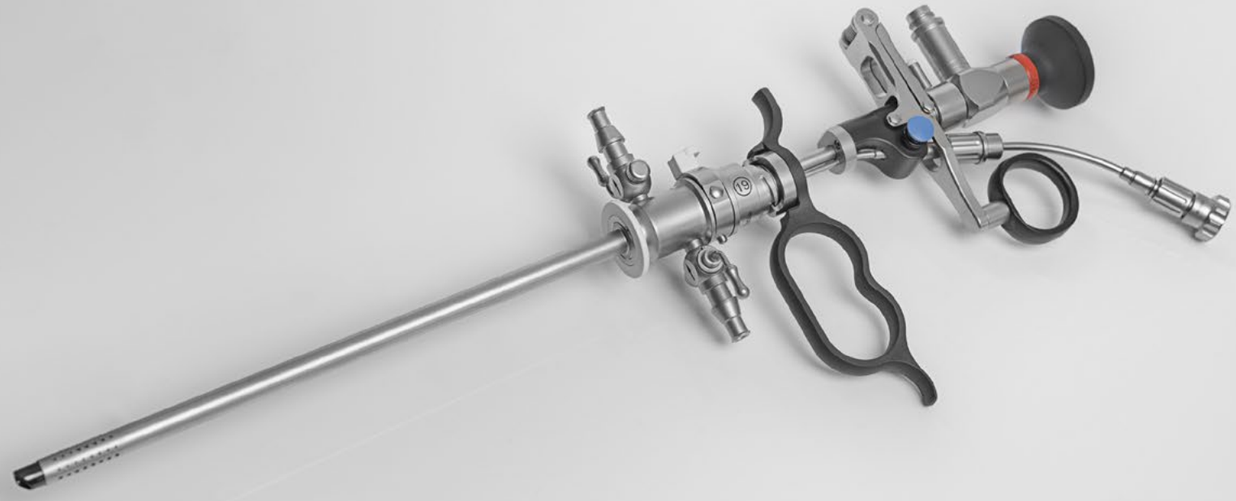
To improve the functional outcome and reduce the risk of postoperative side effects as injury of the urethra and urinary incontinence, RZ has developed a slim HoLEP instrument set in 22 Charr. outer diameter for Laser Enucleation and Morcelation.

1 STEP LASER ENUCLEATION

HoLEP Laser Resectoscope according to Dr. Felipe C. A. de Figueiredo

Slim HoLEP with 22 Charr. outer diameter provides the smallest resectoscope you can use with the same shaft as with a morcescope.

- Working element based on standard resectoscope design
- Snap on mechanism for laser fibers and easy connection with the scope
- 2.9mm scope diameter
- Compatible for HoLEP and ThuLEP for fibers up to 1.2mm



22 CHARR.

Setlist on page 8

2 STEP TISSUE MORCELLATION

HoLEP Morcescope according to Dr. Felipe C. A. de Figueiredo

The smallest 22 Charr. Morcescope reduces the risk of surgical side effects such as urethral damage and complications like dysuria and urethral strictures.
After Laser Enucleation, the Morcescope and Morcelator can be used with the same sheath of the slim resectoscope which avoids any additional traumatization of the urethra.

- High picture quality
- High flow irrigation channel plus additional irrigation port
- Compatible with Morcellators of R. Wolf, Lumenis, Karl Storz and Dornier
- Shock resistant optical fibers - longer lifetime

22 CHARR.

HoLEP LASER ENUCLEATION SYSTEM
according to Dr. Felipe C. A. de Figueiredo

The 18.5 Charr. resectoscope with laser working element is the smallest endoscope available for enucleation of the prostate. It is rotatable acontinuous flow with a 0.8mm laser channel. It allows minimal trauma to the urethra and the sphincteric mucosa during the enucleation movements which reduce the risk of dysuria, strictures and urinary incontinence. It is ideal for smaller glands (<80g) and Transurethral Incision of the Prostate with Holmium (TUIP).

“Minimal Invasive Laser Enucleation of Prostate (MiLEP) using smaller endoscopes is safe and technically feasible and deserves further exploration.”*

18.5 CHARR.

(*) Urology Video Journal: Minimally invasive Laser Enucleation of the prostate (MiLEP): Slim (22Ch) and UltraSlim (18.5Ch) HoLEP
Dr. Felipe Figueiredo, MD, Pompeia Hospital, Caxias do Sul, RS BRAZIL

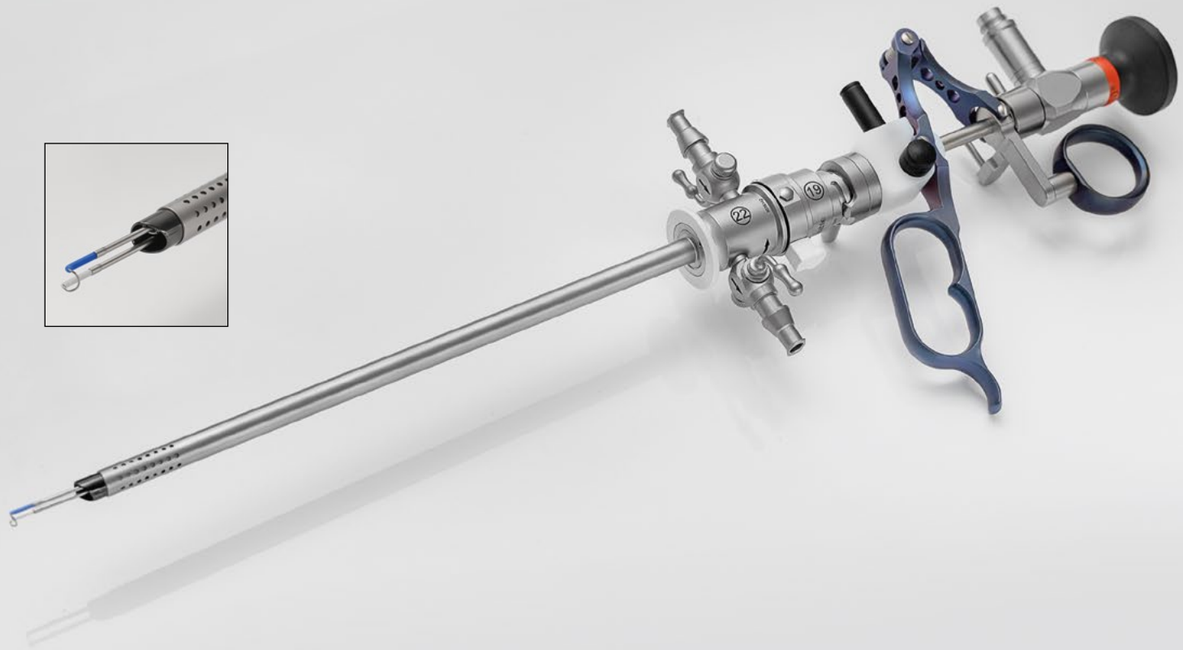
Setlist on page 9

HoLEP 22 Charr. Hybrid Resectoscope

After finishing the enucleation and pushing the adenoma into the bladder, hemostasis is performed with a bipolar electrode. An appropriate hemostasis will assure perfect visualization during morcellation and will avoid post-operative bleedings.
The 22 Charr Hybrid resectoscope can be used with the same 22 Charr outer sheath as the slim laser resectoscope or the Morcescope and completes the slim HoLEP system.

- Hybrid resectoscope can be used monopolar or bipolar
- Titanium handle
- Compatible to the slim HoLEP Set

22 CHARR.



Setlist on page 10

CONFIGURATIONS by RZ

HoLEP Laser Resectoscope
according to Dr. Felipe C. A. de Figueiredo

	RZ Rod Lens Cystoscope, autoclavable, ∅ 2.9mm	351-829-030 30° 351-829-012 12°
	RZ Laser Working Element, passive	253-000-319 for fibres up to 0.8mm 253-000-316 for fibres up to 1.2mm
	Resectoscope Sheath 22 Charr., rotating inner tube for continous suction / irrigation	253-000-352
	Visual Obturator, 22 Charr.	253-000-082
	RZ LL-Connection, rotatable for use with Laser Probe	253-000-302 (long) 253-000-301 (short)
	Luer-Lock Tuohy Borst Adapter (∅ 0.6 - 1.4mm)	300-011-184
	Morcescope, 22 Charr., 220mm working length, 5mm working channel	253-905-220
	Sealing Cap for Morcescope, with membrane to puncture through, package of 10 pieces	253-904-220

CONFIGURATIONS by RZ

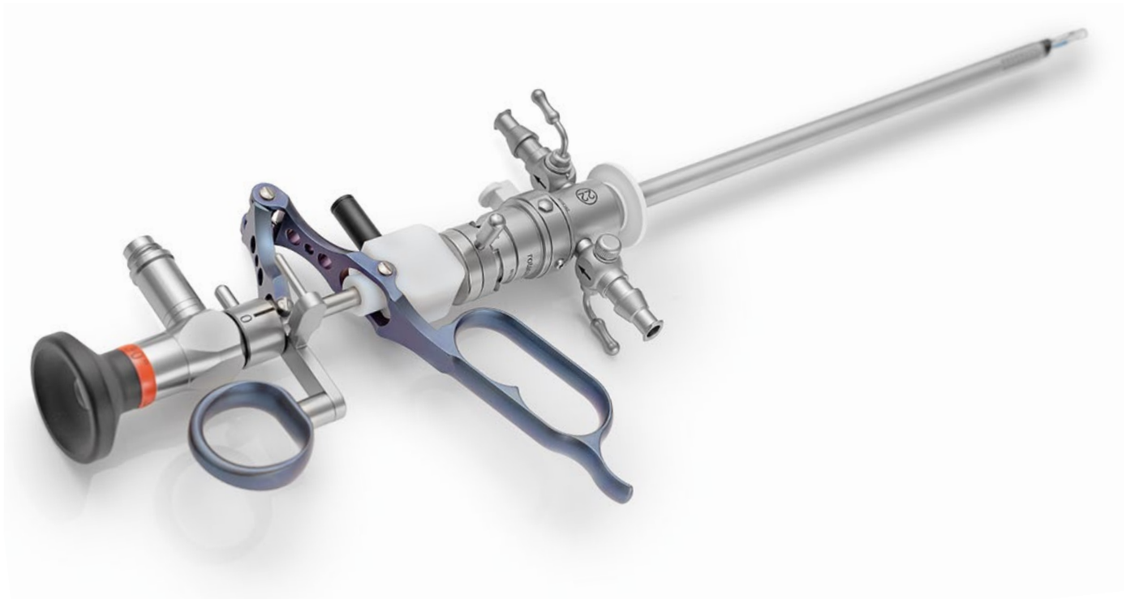
HoLEP LASER ENUCLEATION SYSTEM
according to Dr. Felipe C. A. de Figueiredo

	RZ Rod Lens Cystoscope, autoclavable, ∅ 2.9mm	351-829-030 30° 351-829-012 12°
	RZ Laser Working Element, passive for fibres up to 0.8mm	253-000-318 **with** push button
	Resectoscope Continous Flow Sheath, 18.5 Charr., with rotating sheath, incl. obturator, with QuickLock	351-000-185
	Visual Obturator	351-000-180
	RZ LL-Connection, rotatable for use with Laser Probe Luer-Lock Tuohy Borst Adapter (∅ 0.6 - 1.4mm)	253-000-302 (long) 253-000-301 (short) 300-011-184
	Morcescope, 22 Charr., 220mm working length, 5mm working channel	253-905-220
	Continous Flow Sheath, 22 Charr., 220mm working length, 2 way stopcock, quicklock, with Obturator	253-901-220
	Sealing Cap for Morcescope, with membrane to puncture through, package of 10 pieces	253-904-220

CONFIGURATIONS by RZ

HoLEP 22 Charr. Hybrid Resectoscope Set

	RZ Working Element, passive	253-000-410
	RZ Working Element, active	253-000-411
	Loop Electrode, 30° angled	253-000-541
	Roller Electrode, ∅ 3mm	253-000-547
	Ball Electrode	253-000-545
	Knife Electrode	253-000-543



CONFIGURATIONS by RZ

Tray and Container

1	Endoscopic Wire Basket for 1 scope, 340mm 455 x 86 x 43mm	600-460-055
2	1/1 Stainless Steel Tray, perforated, with lid, 545 x 255 x55mm	600-540-555
3	Silicone Mat, green 500 x 230mm	600-281-004
4	1/1 Sterilization Container, safety model, black lid, bottom non-perforated, 580 x 280 x 100mm	600-581-106

Watch the video

RZ Medizintechnik GmbH

Unter Hasslen 20
78532 Tuttlingen, Germany

Phone: +49 (0)7462/9470-0
Fax: +49 (0)7462/9470-50

sales@rz-medizintechnik.com
www.rz-medizintechnik.com