

SWISS LITHOCLAST® TRILOGY

EXPERIENCE LITHOTRIPSY LIKE NEVER BEFORE

- > When it comes to large and hard kidney stones, percutaneous nephrolithotomy (PCNL) can turn into a complex procedure.
- > What if you could clear any kind of stone, in any location, up to 48% more rapidly, easily and without compromising safety?
- > Today, Swiss LithoClast® Trilogy makes it possible: breakthrough technology designed to reduce procedure time and enhance the surgical experience for patient, urologist and OR staff.

FAST. EASY. SAFE.

POWER AND CONTROL

GET POWERFUL FRAGMENTATION AND MORE EFFICIENT STONE REMOVAL FOR SHORTER PCNL PROCEDURAL TIME



BECAUSE TIME MATTERS

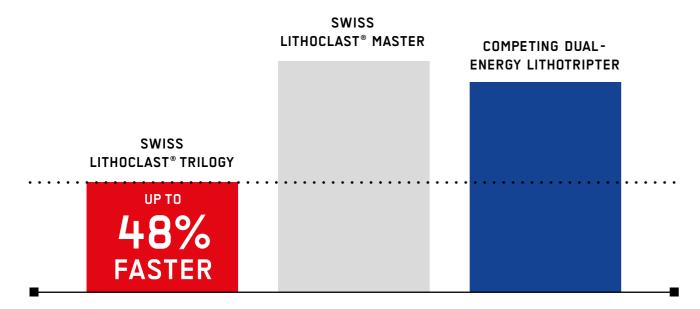
> Observational research¹ shows that stone fragmentation and removal account for 30% of total PCNL procedural time; about 24 minutes on average in the US.

CLEARANCE SPEED MATTERS

➤ Bench studies show that Swiss LithoClast® Trilogy fragments and removes stones up to 48% faster than competing dual-energy lithotripter^{2,3}.



AVERAGE LITHOTRIPTER TIME TO CLEARANCE



¹ Studies on file with Boston Scientific

1. FAST FRAGMENTATION

> Swiss LithoClast® Trilogy can fragment even the largest and hardest stones thanks to independently generated ultrasonic and ballistic energies that can be used simultaneously or separately.

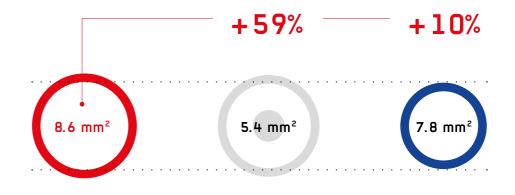
2. MOST ACCURATE STONE CONTROL

> Thanks to precise probe tip movements, Swiss LithoClast® Trilogy significantly reduces stone retropulsion effect.

3. LARGE FRAGMENTS REMOVAL CAPACITY

> Swiss LithoClast® Trilogy offers the largest probe lumen size, easing the removal of large stone fragments. In addition, the integrated suction system enables fast evacuation of all fragments.

CROSS-SECTION VIEW OF PROBE LUMEN⁴



SWISS LITHOCLAST® TRILOGY

3.9 mm probe

SWISS LITHOCLAST® MASTER

3.8 mm ultrasound probe + 1 mm pneumatic probe

COMPETING DUAL-ENERGY LITHOTRIPTER

3.7 mm probe

² Bader MJ, et al. Endoscopic clearance lithotripsy devices: bench comparison of stone elimination capacity and drilling speed. University of Munich. Presented at the World Congress of Endourology, Vancouver, 2017.

³ Bader, et al. Comparative evaluation of tissue damage induced by ultrasound and impact dual mode endoscopic lithotripsy versus conventional single mode ultrasound lithotripsy. University of Munich. Presented at the World Congress of Endourology, Vancouver, 2017.

⁴ Data on file at E.M.S Electro Medical Systems S.A.

FOCUS ON THE ESSENTIAL

PLUG-AND-PLAY SYSTEM THAT IS SIMPLE TO LEARN AND EASY TO USE FOR PHYSICIANS AND STAFF

General controller of finance, France, 1774



FAST. EASY. SAFE.

1. EASY SETUP

- ➤ One single console fits all: no need for external compressor nor suction pump.
- > Limited number of components for quick and effortless assembly.
- > Torque wrench guarantees optimum probe tightening in a single twist of the wrist.

2. EASY FRAGMENTATION

- > Contactless probe recognition and automatic calibration of the energy level.
- > Large touch screen designed for easy setting of all parameters.
- > Quality meter for visual monitoring of fragmentation procedure.

3. EASY STONE REMOVAL

- > Precise roller pump for optimized suction flow control.
- > Improved Stone Catcher for seamless and sterile fragment collection.
- > Fluid collection bags with solidifying gel for easy disposal.



"IT TAKES PROFOUND KNOWLEDGE TO DO THINGS IN A SIMPLE MANNER"

PATIENT CARE AT ITS BEST

PERSONALIZE YOUR STONE TREATMENT IN AN ENVIRONMENT OF CARE AND COMFORT

Developed at the EMS Research Center in collaboration with leading urologists from around the world, Swiss LithoClast® Trilogy focuses its design and functionalities on users and patients alike with one goal in mind:

→ CLINICAL SUCCESS

1. VERSATILE

➤ A complete range of probes is available to suit individual patients: from standard PCNL down to minimally invasive stone treatments (Miniperc) but also cystoscopy and semi rigid ureteroscopy.

> The intuitive touch screen is helping the user to select treatment modalities and to customize energy and suction settings.

2. SMART

- > The integrated suction system is only activated during the treatment, limiting undesired stone movements and suction cup effects on mucosal tissue.
- > An active cooling system regulates the temperature of the handpiece: This is good for your hand's comfort but also for the system durability.
- > Smart Power meter enables to control and deliver ultrasonic energy with optimal efficiency.

3. TRACEABLE

- > Contactless RFID tags for recording complete treatment parameters.
- > Similarly, the service lifetime of each component may be monitored to make sure the system is ready for use at any time.



THE POWER OF 3. TRILOGY MAKES IT POSSIBLE

BALLISTICS, ULTRASOUND AND SUCTION: 3 MODALITIES IN A SINGLE PROBE THAT CAN BE USED SIMULTANEOUSLY OR SEPARATELY

SMART ULTRASONIC ENERGY MANAGEMENT

> Advanced auto adaptative algorithm delivers precise, constant ultrasonic energy for fine fragmentation and dusting of stones.

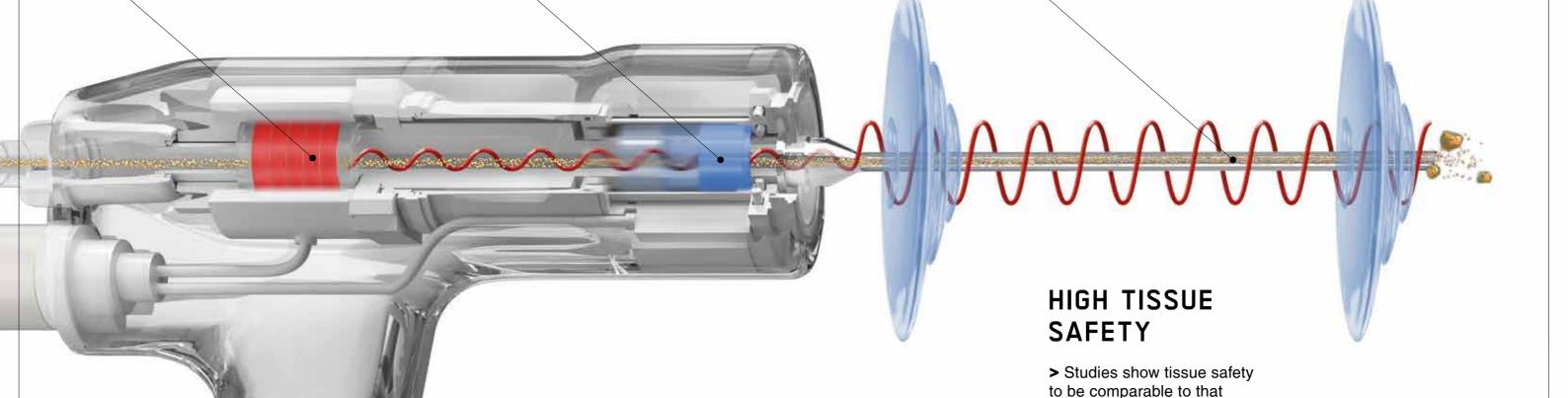
TRUE BALLISTIC

> Breakthrough electromagnetic technology generates real ballistic energy for powerful and coarse fragmentation of large and hard stones.

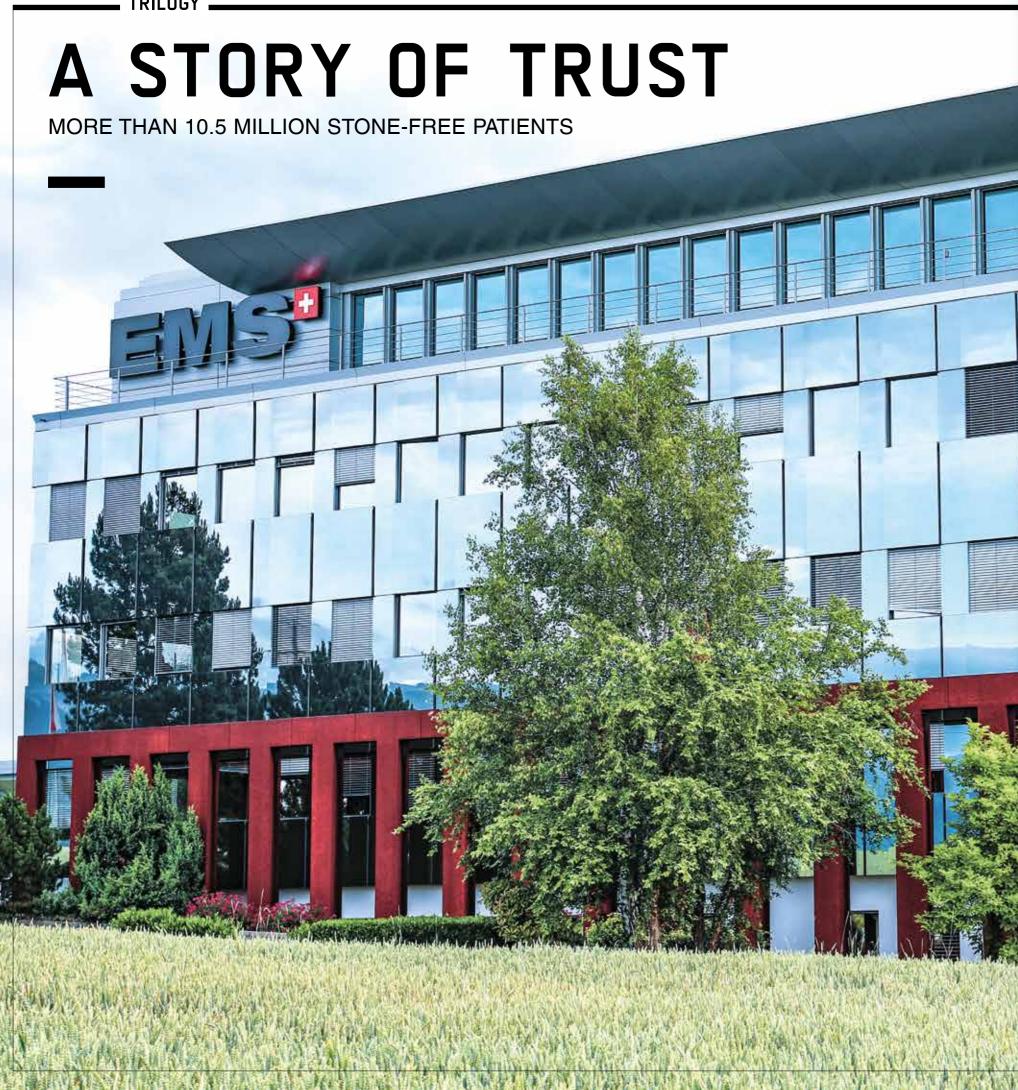
OUTSTANDING SUCTION CAPACITY

> Wide hollow probe and precise suction guarantee continuous removal of even large stone fragments.

achieved with conventional ultrasonic lithotripters ¹.



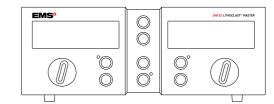
1. Bader, et al,. Comparative evaluation of tissue damage induced by ultrasound and impact dual-mode endoscopic lithotripsy versus conventional single-mode ultrasound lithotripsy. University of Munich. Presented at the World Congress of Endourology, Vancouver, 2017.





SWISS LITHOCLAST®

EMS offers a revolutionary solution to free patients from stones: the first intracorporeal ballistic lithotripter.



SWISS LITHOCLAST® MASTER

Ground breaking innovation in combined rigid lithotripsy, it becomes the gold standard and pacesetter.



SWISS LITHOCLAST® TRILOGY

The new care standard for multimodal endoscopic stone management, it improves the overall clinical performance in stone management.

HISTORY AND FUTURE OF STONE MANAGEMENT

- ➤ With over 14,000 Swiss LithoClast® devices in use worldwide in more than 25 years, EMS has revolutionized rigid endoscopic lithotripsy. Safe, efficient, cost-effective, Swiss LithoClast® has become the gold standard in rigid and semi rigid endoscopic lithotripsy avoiding complex open surgery.
- ➤ With a proven track record of game-changing solutions, we strive for perfection and are committed to improving the quality of life for the patient. Our Swiss quality products continue to shape the history and future of stone management.

DEVICE, HANDPIECE & ACCESSORIES

SWISS LITHOCLAST® TRILOGY FT-232 Swiss LithoClast® Trilogy unit includes peristaltic pump, Trilogy handpiece and foot pedal SWISS LITHOCLAST® TRILOGY HANDPIECE KIT FR-278 SWISS LITHOCLAST® TRILOGY ACCESSORIES Stone Catcher for Swiss LithoClast® Trilogy, sterile, box of 5 DT-483 Double suction bags, box of 5 DT-480 Cart for Swiss LithoClast® Trilogy DW-047 SWISS LITHOCLAST® TRILOGY PROBES Disposable probe 3.9 mm x 350 mm FR-245 Disposable probe 3.9 mm x 440 mm FR-246 Disposable probe 3.4 mm x 340 mm FR-247 Disposable probe 3.4 mm x 445 mm FR-248 Disposable probe 1.9 mm x 341 mm FR-249 Disposable probe 1.5 mm x 440 mm FR-250 Disposable probe 1.1 mm x 425 mm FR-252 Disposable probe 1.1 mm x 520 mm FR-253 Disposable probe 1.1 mm x 625 mm FR-254





