

Large Stone Management in Gastroenterology and Urology

**When stones
cause trouble**

EHL

ELECTROHYDRAULIC
LITHOTRIPSY



Lithotron EL 27 Compact

**State-of-the-Art
Technology**

Made in Germany

Walz EHL

**Electrohydraulic
Lithotripsy**

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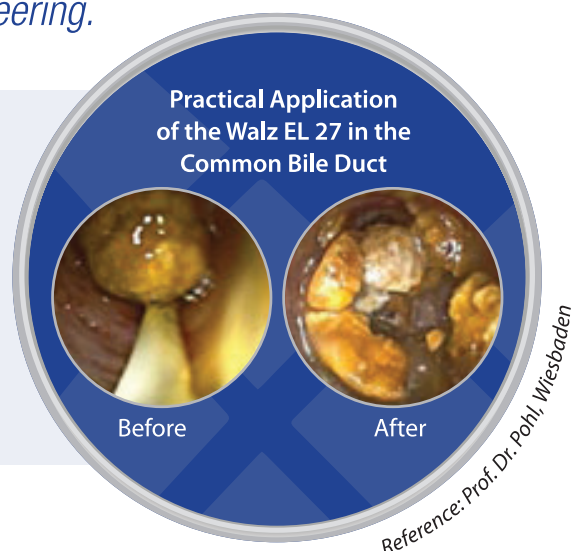
EHL

A simple and effective method for endoscopic large stone management

Fragmenting hard stones while treating soft tissue with care is like peeling raw eggs! This is what you can achieve with our Lithotron 27 compact. Walz devices represent state-of-the-art technology, with precision German engineering.



Ready to Use: The Complete Walz EL27 Compact Device

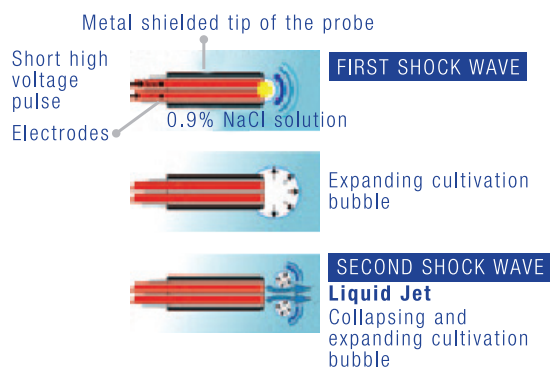
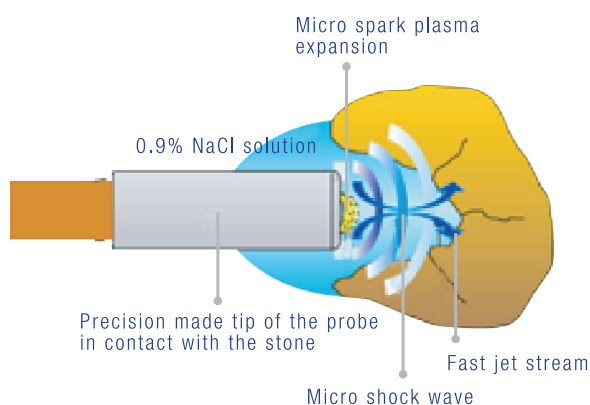


THE TECHNOLOGY:

Micro-spark plasmas are produced between bipolar electrodes at the centre of the tip of the flexible probes by short high voltage pulses. The rapidly expanding and collapsing spark plasma bubbles generate micro shock waves with steep edges and minimised tensile phases in the surrounding liquid. Additionally, micro liquid jets with high velocity are produced which are directed at the stone.

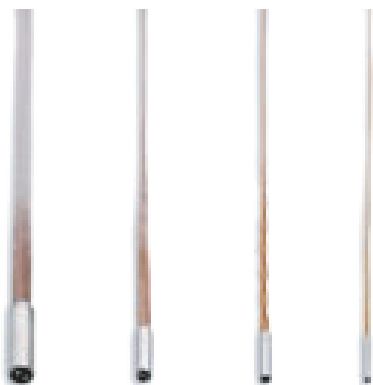
THE EFFECTS:

These micro shock waves in combination with the impacts of the micro liquid jets destroy the stone with highest dual effectiveness – while the minimised tensile phases and the short range of the micro shock waves help to treat the surrounding tissue with care.



EHL-PROBES

- Highly flexible but keep their position.
- Precisely worked probe tip for reproduceable shock waves.
- Centred micro spark plasmas keep distances to the tissue and facilitate targeting.
- Endoscope protection through rounded edges at the tip of the probe, no breaking problem compared to laser fiber.



Article Number	Diameter Ø		Length	Characteristics
	Fr.	mm	mm	
P201400FST	2,0	0.7	1400	
P30950FST	3,0	1.0	950	
P45600FST	4,5	1.5	600	
P70450FST	7,0	2.3	450	
P243000FST	2,4	0.8	3000	
P243000SST - NEW	2,4	0.8	3000	Proximally Reinforced
P303000FST	3,0	1.0	3000	
P303000SST - NEW	3,0	1.0	3000	Proximally Reinforced
P453000FST	4,5	1.5	3000	

The Walz EL 27 Compact is the first choice when it comes to lithotripsy devices. Its features and benefits at a glance:

- **Highest efficiency** compared to other technologies, short operation times
- Stones are normally **disintegrated** with only **a few shock waves**.
- **Security:** minimised tensile phases of the micro shock waves help to treat soft tissue with care.
- **Highly localized energy transfer** compared to laser and extracorporeal shock waves.
- **Economical:** maintenance-free device.
- **Endoscope protection** through rounded probe tips; no breaking problem compared to laser fibers.
- **Controlled energy levels:** 3 intensities (up to 950 mJ) adjusted to usage in gastroenterology and urology.
- Very fast pulses, sharply rising amplitudes for **most effective stone fragmentation**.

TECHNICAL SPECIFICATIONS:

Dimensions

Width: 320 mm
Height: 120 mm
Depth: 240 mm
Weight: 7.5 kg

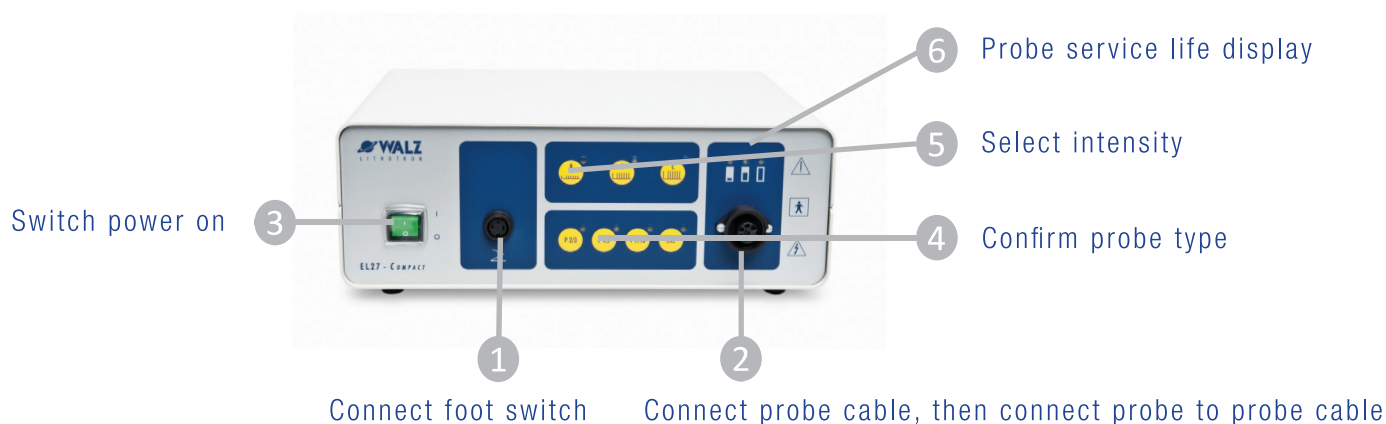
Power supply

Voltage Versions
100V ±10% 1.4 A
115V± 10% 1.2 A
230V ± 10% 0.6 A

EHL Electric charge

Intensity A 250 mJ
Intensity B 500 mJ
Intensity C 950 mJ

Walz Lithotron EL 27 EHL (Electrohydraulic Lithotripsy)



- **Always use saline solution (0.9% NaCl), otherwise there is no effect!**
- Advance probe in working channel until probe tip is outside endoscope and distance to front lens is min. 5mm.
- Place probe directly onto centre of stone.
- **Keep distance to tissue, never lower probe tip directly onto tissue!**
- Keep probe plug dry!
- Never switch off device during an intervention: probe may be expended.
- Start with intensity 'A', increase intensity if necessary.
- Trigger a pulse:
 - Single pulse: Press foot switch briefly and release immediately.
 - Pulse sequence: Press and hold foot switch (automatic stop after 1.5sec).
- For long probe service life:
 - Only use single pulses.
 - Use high intensity with hard stones.

0.9% NaCl

- *Application: Disintegration of concrements*
- *Do not use on pregnant patients*
- *Patients with active implants: Consult the relevant specialist*
- *Always consult user manual*

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