Increase your efficacy and minimize side-effects in lithotripsy without compromise. The innovative large focus lithotripter for kidney friendly treatment of urolithiasis with excellent stone desintegration.

Spark Wave® Technology

lithogold380®

kidney friendly

Made in Germany

NEW GENERATION

ESWL

SpaK OF EVIdENCE
lithogold380® – clinically proven efficacy. The flexible, multi-purpose, user-friendly high-end Spark Wave® lithotripter for the non-invasive therapy for urolithiasis.

**INDICATIONS IN UROLOGY**
- Renal stones
- Ureteral stones

**LITHOGOLD380® HIGHLIGHTS**
- Improved stone fragmentation through "squeezing effect"
- Reported re-treatment rates of less than 7%
- Reduced anesthesia requirements
- Easy targeting with wide shockwave path
- Dual imaging with x-ray and ultrasound
- Lightweight, compact design ideal for any size operating room or mobile environment
- Latest generation electrohydraulic (spark-gap) lithotriptor
- Large focal zone (20 by 101 mm) and kidney friendly peak energy (< 36.9 MPa)
- Deep penetration depth (165 mm) reduces the incidence of treating patients in the prone position
- Effective also in very large patients
- Patient table capacity 230 kilograms
- Smartrode can be replaced in 30 seconds or less

**INDICATIONS IN ORTHOPEDICS**
- Nonunion and delayed union fractures
- Stress fractures
- Avascular bone necrosis
- Osteochondrosis dissecans
- Greater trochanteric pain syndrome
- Plantar fasciitis
- Shoulder tendinopathies

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USER AND PATIENT FRIENDLY APPLICATION

Ultrasound targeting allows highly flexible movement of the ultrasound scanner to find the best "window" for targeting of the kidney stones. Excellent ultrasound imaging is guaranteed by latest ultrasound technology with touch screen interface. Patient data can be stored in a database and by DICOM interface. The highly flexible system allows the use of various x-ray C-arms of your choice for targeting of kidney and ureter stones. Also existing C-arms of the hospital can be used in combination with the lithogold380\textsuperscript{®} due to the mechanical "docking system". This allows to reduce the investment costs dramatically.

It’s state-of-the-art compact design makes the lithogold380\textsuperscript{®} ideal for mobile use.

High-quality materials and the patented MTS Spark Wave\textsuperscript{®} technology guarantee the most consistent shock waves for optimal treatment quality.

A touch panel ensures easy application in daily use.

These characteristics make the lithogold380\textsuperscript{®} the safest and most effective lithotripter in the market today.

Dual imaging with x-ray and ultrasound provide state-of-the-art localisation.

LITHOTRIPSY WITHOUT COMPROMISE

The German engineered lithogold380\textsuperscript{®} is the first lithotripter that provides the optimum in shockwave dynamics with the largest focal zone (20 x 101 mm) and the deepest penetration depth (165 mm). Lower pressure paired with the large focal zone has proven to be less harmful on the human kidney and diminishes injury to the renal tissue which in turn reduces hematomas and renal colic.

The large focal zone surrounds and holds the kidney stone in place maximizing the hit ratio thus increasing fragmentation efficacy. Only focal zones larger than the stone generate a squeezing effect which effectively pulverizes the stone into smaller particles further minimizing unwanted side effects.

The deep penetration depth allows treatment of extra large patients as well as reducing the incidence of treating patients in prone position.
MTS is specialized in development, manufacture and distribution of Spark Wave® therapy systems that are successfully used worldwide in orthopedics, traumatology, wound care and urology. Our patented Spark Wave® technology guarantees the medically most effective shock waves, a consistently high treatment quality as well as excellent treatment results that are achieved with the lowest number of treatments required of all technologies.

For the development of innovative therapy methods – even for indications which are hard to treat – we cooperate with internationally renowned universities and research institutions and are able to offer not only numerous clinical evidence studies but also a leading position in different international markets. Let yourself be convinced by the Spark of Evidence.