



Increase your efficacy and minimize side-effects in lithotripsy
Spark Wave® Technology
without compromise. The innovative large focus lithotripter for
kidney friendly treatment of urolithiasis.

lithogold380®



lithogold380[®] — kidney friendly lithotripsy

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

Indications in Orthopedics

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

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
- Lightweight, compact design ideal for any size operating room or mobile environment
- Latest generation electrohydraulic (spark-gap) lithotripter
- 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 250 kilograms
- Smartrode can be replaced in 30 seconds or less

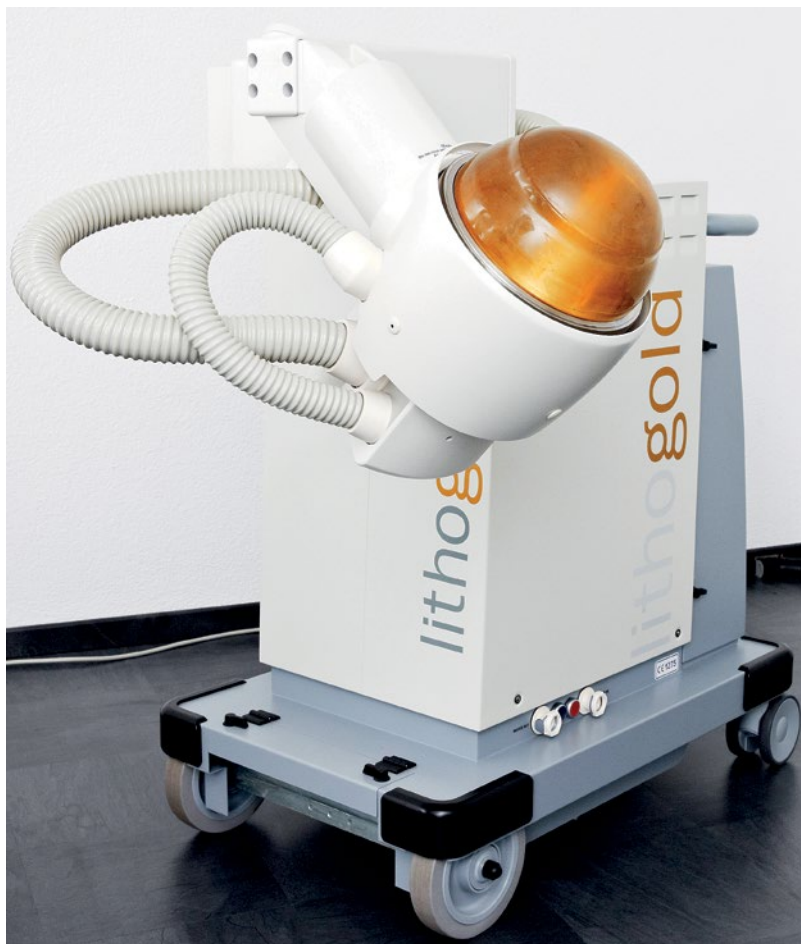


User and patient friendly application

It's state-of-the-art compact design makes the lithogold380® ideal for mobile use. High-quality materials and the patented MTS Spark Wave® 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® one of the safest and most effective lithotripters in the market today.

Lithotripsy without compromise

The German engineered lithogold380® 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 a reducing the incidence of treating patients in the prone position.





lithogold380®

Technical Data

Lithotripter

Therapeutical focus	20 x 101 mm
Penetration depth	0 - 165 mm
Pressure range	24 - 36.9 MPa (240 - 369 bar)
Total energy (E_{total} / -6dB)	2.86 - 20.70 mJ
Pulse repetition rate	1, 1.5, 2 Hz, ECG trigger

Mechanical

Device dimensions (W x L x H)	900 x 1350 x 1250 mm
Weight	250 kg
Power Input	110 / 230 V (800 VA)

Optional Accessories

- Patient table
- ECG unit
- C-arm

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. We therefore consider ourselves among the pioneers in the field of non-invasive tissue healing and regeneration. Let yourself be convinced by the Spark of Evidence.



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