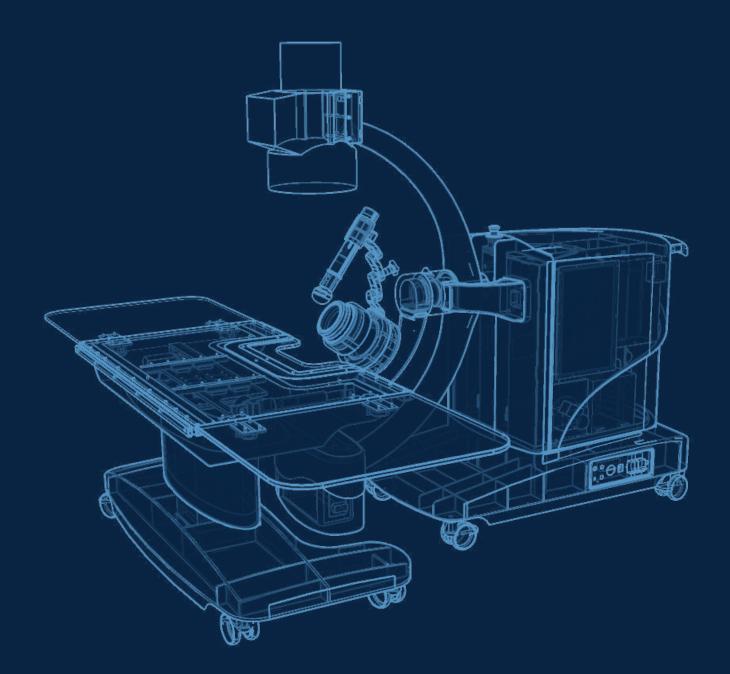
SPARK EM ESWL







SPARK EM ESWL COMFORTABLE STONE **CRUSHING EXPERIENCE!**

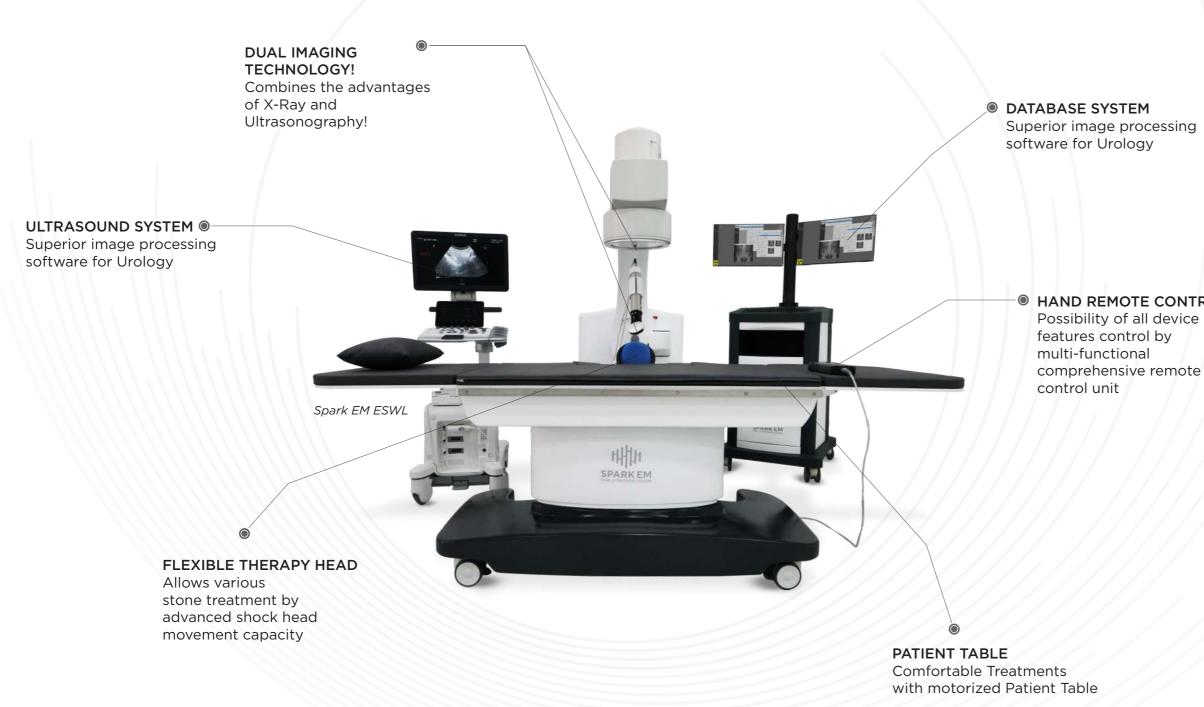
ESWL is a non-invasive (non-surgical) procedure that is using focused shock waves to crush stones located in kidneys and ureters.

The shock waves produced by the high voltage generator are transmitted directly into the human body by contact from the skin surface via a water cushion. These transmitted shock waves enable the stone to be removed from the body with its disintegrating effect on the stones.

.5

SUPERIOR FOCUSING SYSTEM

X-RAY AND ULTRASONIC LOCALIZATION SPARK EM ELECTROMAGNETIC LITHOTRIPSY SYSTEM





HAND REMOTE CONTROL UNIT

comprehensive remote





Advanced Performance



SPARK EM ESWL

ELECTROMAGNETIC LITHOTRIPSY SYSTEM

SPARK EM ESWL, works with its electromagnetic working principle supported by an optical lens, provides high accuracy and low precision values, with minimum pain and other complications.

The shock therapy head of **SPARK EM** has a design that is completely compatible with the patient's body. Thanks to the improved water cushion design, maximum coupling with the patient's body and treatment efficiency are provided.

With its special degassing feature, **Spark EM ESWL** decomposes the gas inside the liquid of generator to the minimum level (1-1,5 mgr/Lt) and provide best shock wave transmission with least pain on the patient.





66 inceler Medikal has gained experience by providing technical service to various brands and models of ESWL devices for more than 20 years. Spark ESWL systems, which it developed based on this knowledge, are designed in accordance with the needs of the users and demand of the world market.

MOTION FEATURES

C-ARM FLUOROSCOPY

Motions of C-Arm with X-Ray tube and Image Intensifier can be controlled remotely with Remote Hand Control Unit.

Crano-caudal Rotation angle of C-Arm is total 60 degrees. This angle and motorized motions of the C-Arm can be set by Remote Hand Control Unit.

> 배 SPARKEM

Patient lays on the back for the best cushion coupling, stone targeting and shock transmission.

C-ARM ±30° Rotation capability of C-Arm on both directions.

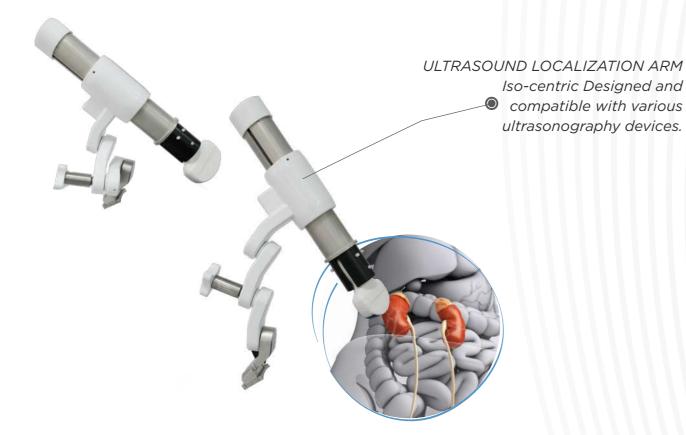
66 inceler Medikal ESWL Systems can be easily transported thanks to its semi-compact design and provides the opportunity to use in narrower areas with the Fluoroscopy unit integrated into the ESWL generator.

SPARK EM ESWL ELECTROMAGNETIC LITHOTRIPSY SYSTEM



9

ULTRASOUND IMAGING AND LOCALIZATION TECHNOLOGY



> The external ultrasound localization system allows the ultrasound probe to have a longer life comparatively to linear localization systems.

> An optional ultrasound focusing system detects all types of stones and transmits the image in high resolution format instantenously.

> With X-ray and Ultrasound combined and separate imaging options, Spark EM ESWL systems offer the user the most comprehensive stone imaging opportunity.

> While the X-Ray Fluoroscope feature enables the patient to be positioned quickly at the initial of the operation, the Ultrasound imaging system allows the tracking of the instantaneous movements and fragmentation of the stone. In addition, in pediatric patients and in the treatment of non-opaque stones, it is possible to detect and break stones only by ultrasonography, without using X-Ray, with Spark ESWL systems. \propto



DATABASE SYSTEM SUPERIOR IMAGE PROCESSING SOLUTION!

Patient information, medical history, stone details, disintegration parameters, laboratory results, X-ray dosage and statistical data can be exported by software. The software not only archives the data, but also stores the patient's images in DICOM format. These recordings can be written to CD/DVD.





PATIENT TABLE EXPERIENCE OF COMFORTABLE TREATMENT



The multi-functional Patient Table can be used as an operating table. It has a low height feature where the patient can easily lie down without any assistance.



All three parts of the SPARK EM system are equipped with reinforced solid wheels. The device can be used in any desired location in the hospital. It can be moved from room to room without the need for a lift or similar carrier vehicles.

REMOTE CONTROL UNIT TO CONTROL LITHOTRIPSY

All functions can be set with a remote control unit during, before and after operations.

The Spark Em system is designed to reduce the focal point deviation to zero. The Fluoroscopy System can be used in combination with the ESWL unit and is produced with high resolution imaging standards.



SPARK EM ESWL ELECTROMAGNETIC LITHOTRIPSY SYSTEM

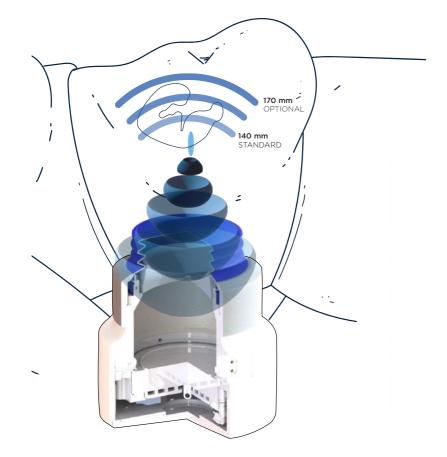
> Ergonomic, lightweight and exclusive design
 > Availability of ease of use remotely

PENETRATION DEPTH FEATURES OF **SPARK EM ESWL**

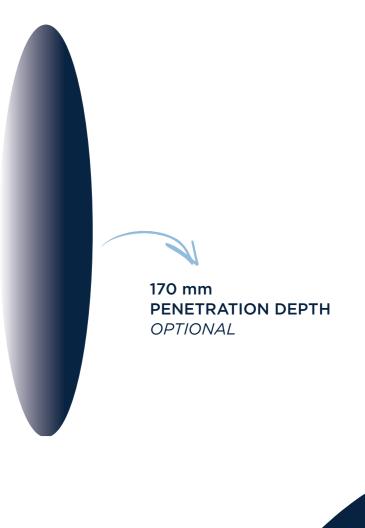
The Spark EM ESWL System stands out with its high penetration depth. This feature helps overweight patients achieve more effective results while responding to their treatment needs. At the same time, the system's precise determination of clear focal points plays a decisive role in the stone breaking process. In this way, the treatment is carried out more successfully with the correct targeting and fragmentation of the stones. Spark EM ESWL offers a more sensitive and effective approach to stone treatment by combining these features with its advanced technology.

Spark EM ESWL device offers its users 2 different options for penetration depth. These options allow to customize the treatment process according to the needs of the patients and the location of the stones. The standard focusing option offers a depth of penetration of 140mm, targeting typical stone formations, while the focusing option provides a deeper focus of 170mm, allowing more complex or deep stones to be effectively broken.

Advanced **170 mm** depth option of the **Spark EM ESWL** device facilitates the work of medical professionals who want to achieve more precise and successful results in the field of kidney stone treatment.

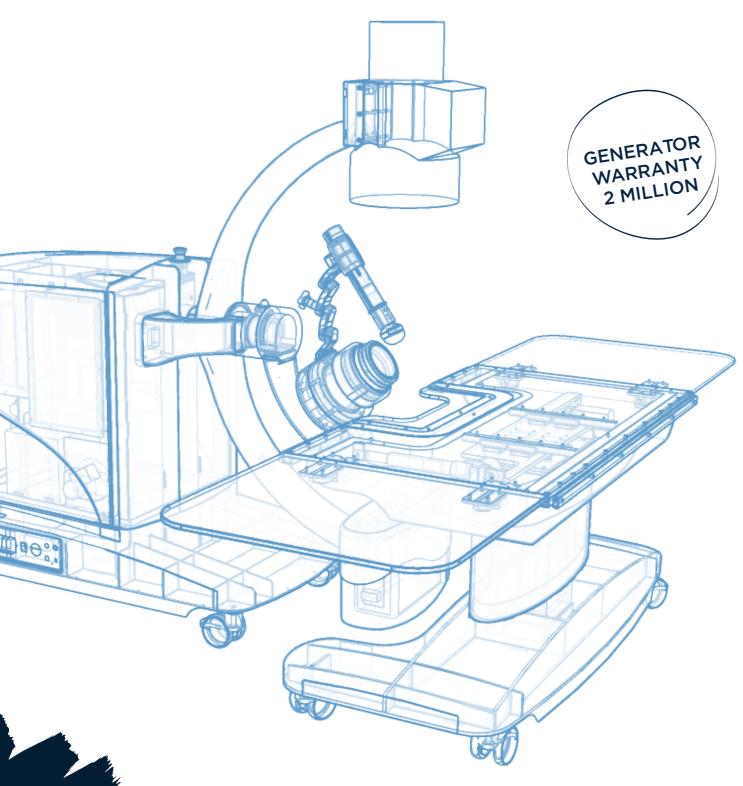


140 mm PENETRATION DEPTH STANDARD



SPARK EM ESWL ELECTRMAGNETIC LITHOTRIPSY SYSTEM

TECHNICAL SPECIFICATIONS



TECHNICAL DATA/ MAIN UNIT

Manufacturer Model Quality and Electrical Safety Classification	iı iı A
Energy Source(Working Principle)	E
Focusing	A
Patient Touch	Μ
Localization	F
Focal Penetration	1
Unit Control	H
Focal Pressure	ι
Shockwave Generating Voltage	٧
Device Sturcture	S
Main Unit Dimensions	1
Water System	C
	P
Main Body Weight	2
Height	1
Length	1
Width	6
General Rules for Basic Safety and Required Performance of Electrical Medical Equipment	11
Electrical Medical Equipment - Part 1-2: General Requirements for Basic Safety and Required Performance - Supplementary Standard: Electromagnetic Disturbances	11

PATIENT TABLE

Movement Height/Horizantal/Vertical	3
Patient Table Dimensions (wl,h)	2
Weight	2
Lifting Capacity	2

X-RAY FLUOROSCOPY

Fluoroscopy Voltage	40
Fluoroscopy Power	Ma
Fluoroscopy Current	0.
Image Intensifier	9"
X-Ray Tube	0,
	sp
TV Camera	Hi
Monitor	(19
GENERAL	
Main Power Supply	23
The System Complies With	Ac

Warranty

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İnceler Medikal Sağlık Hizmetleri San. Tic. Ltd. Şti.
Inceler Medikal -Spark EM ESWL
According to EN 60601-1 Class I Type B
According to EN 93/42 MDD Class IIb
Electromagnetic
Acoustic lens
Membrane (Dry Touch)
Fluoroscopy and/or Ultrasound
140 mm (170mm optional)
Hand Control Unit
Up to 700 Bar
Variable 7 - 22 KV MAKS
Semi Compact(ESWL & Fluoroscopy)
1775mm x 670mm x 1750mm
Closed system with water cushion touch.
Pressure regulation and 9 lt. Water capacity
285 kg
1175 mm
1750 mm
670 mm
IEC 60601-1
IEC 60601-1-2
```

300mm/150mm/150mm 2400mm X 740mm X 760mm 200 kg 250 kg

```
40–110 KV (Automatic Brightness Control)

1ax. 3,5 kW

0.2–3.5 mA (ABC) two main selection

" (12" optional)

0,6 mm – 1,5 mm (1,8 mm optional), focal

pot, fixed anode tube 40.000 H.U.

High resolution CCD camera

19"–21" optional)
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230 ±% 10 VAC & 50/60 Hz & Single Phase According to EN 60601-1 Class I, Type B According to 93/42/MDD, Class IIb 24 Months

SPARK EM ESWL C-ARMLESS SYSTEM

C-Armless versions of the **Spark EM ESWL** and **Spark ESW**L Systems are also available for use in combination with external C-Arm Fluoroscopy Units and/or Ultrasonography.





SPARK EM ESWL C-ARMLESS SYSTEM

TECHNICAL SPECIFICATIONS



TECHNICAL DATA/ MAIN UNIT

Manufacturer Model Quality and Electrical Safety Classification Energy Source(Working Principle) Focusing Patient Touch Localization **Focal Penetration** Unit Control Focal Pressure **Operating Voltage** Device Sturcture Main Unit Dimensions Water System Main Body Weight Height Length Width General Rules for Basic Safety and Required Performance of Electrical Medical Equipment Electrical Medical Equipment - Part 1-2: General Requirements for Basic Safety and Required Performance - Supplementary

PATIENT TABLE

Standard: Electromagnetic Disturbances

GENERAL

Main Power Supply	
The System Complies With	
Warranty	

Warranty

İnceler Medikal Sağlık Hizmetleri San. Tic. Ltd. Şti. **İnceler Medikal - Spark EM ESWL** According to EN 60601-1 Class I Type B According to EN 93/42 MDD Class IIb Electromagnetic Acoustic lens Membrane (Dry Touch) Fluoroscopy and/or Ultrasound 140 mm (170mm optional) Hand Control Unit Up to 700 Bar Variable 7 – 22 KV MAKS Semi Compact(ESWL & Fluoroscopy) 1775mm x 670mm x 1750mm Closed system with water cushion touch. Pressure regulation and 9 lt. Water capacity 285 kg 1175 mm 1750 mm 670 mm IEC 60601-1

IEC 60601-1-2

300mm/150mm/150mm 2400mm X 740mm X 760mm 200 kg 250 kg

230 ±% 10 VAC & 50/60 Hz & Single Phase According to EN 60601-1 Class I, Type B According to 93/42/MDD, Class IIb 24 Months

SPARK ESWL ELECTROHYDRAULIC LITHOTRIPSY SYSTEM



SPARK ESWL ELECTROHYDRAULIC LITHOTRIPSY SYSTEM

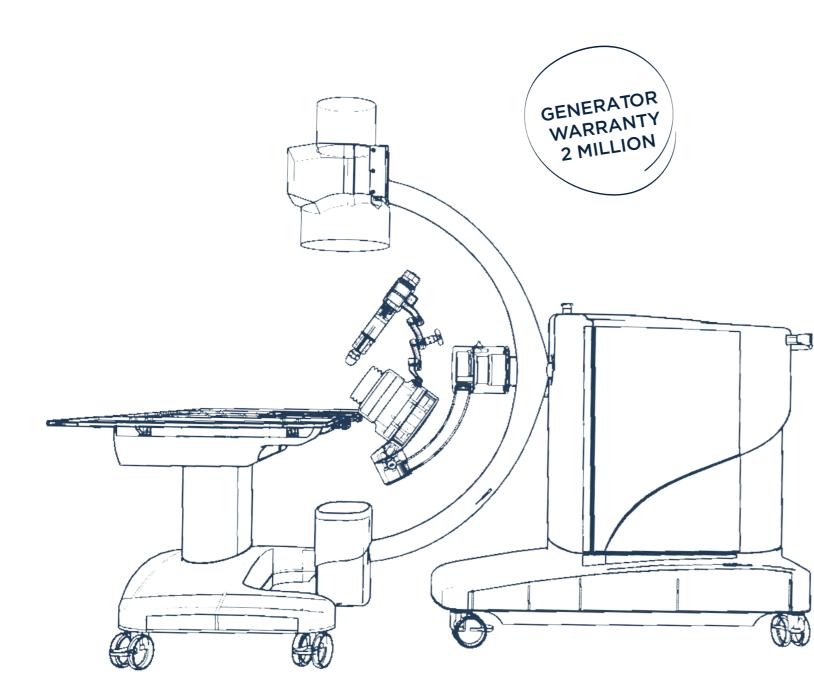
In the SPARK ESWL system, all operations can be done with a remote control. During lithotripsy, the focus of the device can be controlled from any desired location. Any brand of ultrasonography device can be added to our system through the uniquely designed ultrasound localization arm.

> **SPARK ESWL** System is designed and produced on the basis of comfortable use and easy technical service for users. Especially low after-sales operating costs are taken as a basis.



SPARK ESWL ELECTROHYDRAULIC LITHOTRIPSY SYSTEM

TECHNICAL SPECIFICATIONS



TECHNICAL DATA/ MAIN UNIT

Manufacturer Model	i i
Quality and Electrical Safety Classification	A
Energy Source(Working Principle)	E
Focusing	E
Patient Touch	Ν
Localization	F
Focal Penetration	1
Unit Control	H
Focal Pressure	ι
Electrode Type	L
Shockwave Generating Voltage	\
Device Sturcture	S
Main Unit Dimensions	1
Water System	C
	F
Main Body Weight	2
General Rules for Basic Safety and Required	I
Performance of Electrical Medical Equipment	
Electrical Medical Equipment - Part 1-2:	I
General Requirements for Basic Safety and	
Required Performance - Supplementary Standard: Electromagnetic Disturbances	
PATIENT TABLE	
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Movement Height/Horizantal/Vertical	30
Patient Table Dimensions (wl,h)	24
Weight	20
Lifting Capacity	2

X-RAY FLUOROSCOPY

Fluoroscopy Voltage	40
Fluoroscopy Power	Ma
Fluoroscopy Current	0.2
Image Intensifier	9"
X-Ray Tube	0,6
	sp
TV Camera	Hig
Monitor	(19

GENERAL

Main Power Supply	2
The System Complies With	A
	A
Warranty	2

İnceler Medikal Sağlık Hizmetleri San. Tic. Ltd. Şti. İnceler Medikal -Spark ESWL According to EN 60601-1 Class I Type B According to EN 93/42 MDD Class IIb Electrohydraulic Ellipsoid reflector Membrane (Dry Touch) Fluoroscopy and/or Ultrasound 130 mm Hand Control Unit Up to 700 Bar Long Life (40 sessions = 80.000 shocks) Variable 7 - 24 kV max Semi Compact(ESWL & Fluoroscopy) 1775mm x 670mm x 1750mm Closed loop circuit with water cushion Pressure regulation and 9 lt. Water capacity 285 kg IEC 60601-1 IEC 60601-1-2

300mm/150mm/150mm 2400mm X 740mm X 760mm 200 kg 250 kg

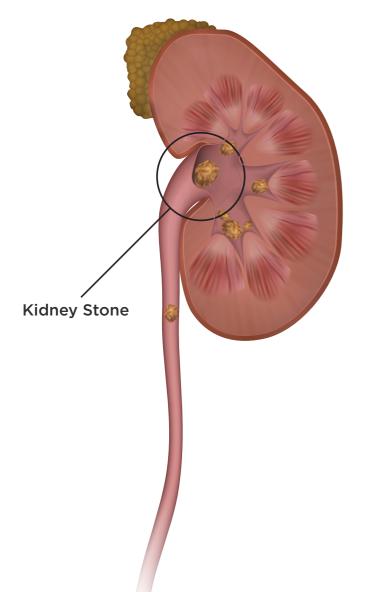
0-110 KV (Automatic Brightness Control) lax. 3,5 kW .2-3.5 mA (ABC) two main selection " (12" optional) ,6 mm - 1,5 mm (1,8 mm optional), focal pot, fixed anode tube 40.000 H.U. igh resolution CCD camera 19"-21" optional)

230 ±% 10 VAC & 50/60 Hz & Single Phase According to EN 60601-1 Class I, Type B According to 93/42/MDD, Class IIb 24 Months

SPARK EM ESWL ELECTROMAGNETIC/ELECTROHYDRAULIC LITHOTRIPSY SYSTEM



Spark EM ESWL is a system that aims to perform the stone breaking process in the most effective and comfortable way. This method divides large stones into smaller pieces and then allows the patient to excrete the pieces through urine by drinking plenty of water and moving the patient over time. Thanks to this method, patients are able to be cured without the need for surgical intervention.



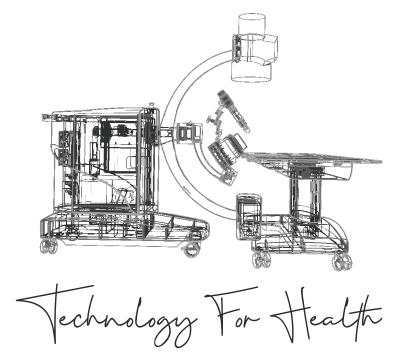


SPARK EM ESWL® ELECTROMAGNETIC LITHOTRIPSY SYSTEM COMFORTABLE LITHOTRIPSY TECHNOLOGY!









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