

Spark® ESWL Lithotripsy System

Extracorporeal Lithotripter/Compact Model

Inceler Medikal
www.incelermedikal.com
[CE 1984, ISO 13485]



Where technology and efficiency is delivered with style.



Spark ESWL Focus System (With C-Arm and Ultrasound) Electrohydraulic Lithotripsy

The most important factor for the ESWL therapy to be successful is to perform the focusing procedure correctly. Compact and easily controllable structure of the system is important for the focusing procedure. In Spark ESWL system, all procedures can be performed by a hand-held remote control. During lithotripsy, focus can be controlled from any desired location.

Spark has been designed to decrease the dispersion rate at the focus to zero. Fluoroscopy system is produced under high resolution standards and can be combined with the ESWL unit.



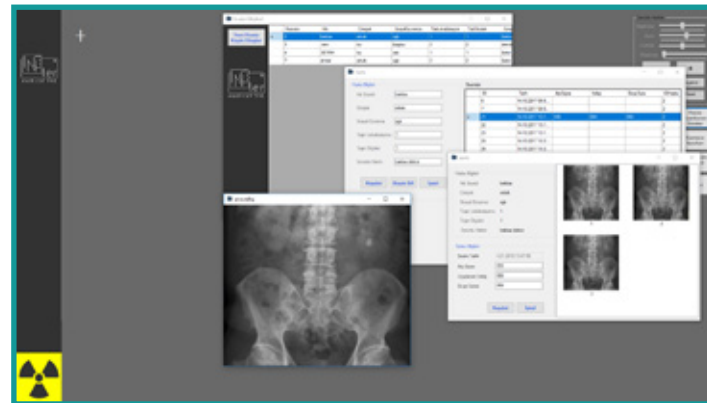
Database System Applications are

- Patient information
- Medical history
- Stone details
- Stone fragmentation parameters
- Laboatory information
- X-ray dosage information

The statistical information can be exported to various software programs.

The software not only archives the patient and treatment data, it also stores the patient's images in DICOM format.

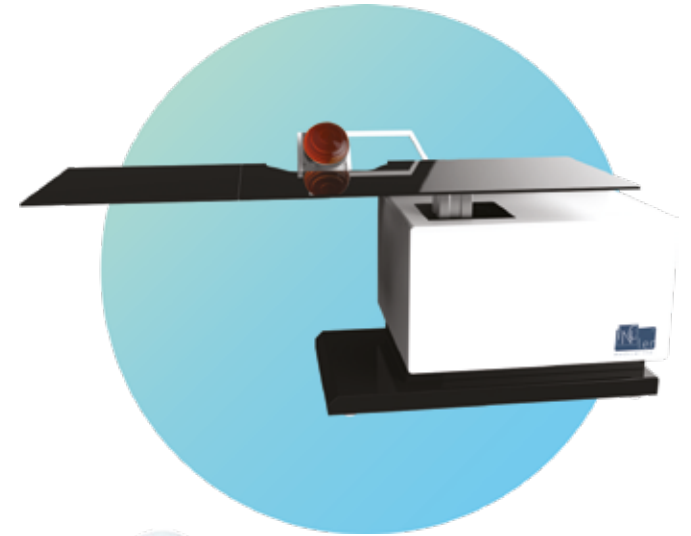
The recorded patient images can be also written on CD/DVD. Additionally the recorded information can be formatted so that the images can be examined on a regular PC.



Without Scopy

The Inceler Medical ESWL System Lithotripsy Unit has a compacted structure that includes a treatment table and fluoroscopy unit. **For users who prefer to use the device with an independent C-arm imaging system, an armless version also can be produced.**

Systems that have been produced by Inceler Medical are very distinctive owing to their ergonomic and esthetic structures.



Oblique Motion Feature

The right, left and 90 degree oblique movements provide great convenience in focusing.

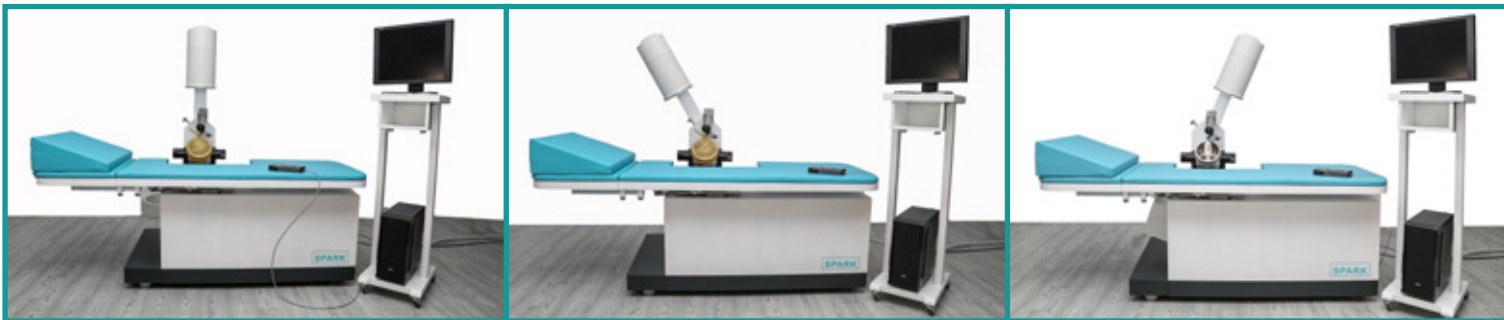
In order to successfully perform of stone breaking process in ESWL systems, firstly it is necessary to view the stone at its exact location.

For patients who are gas and can not be seen by one-way arm movements, two-way oblique movements will be a great advantage in locating the stone.

The compact structure of the system and two-sided oblique movements will ensure you achieve up to 100% success in focus.



SPARK® ESWL



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Ultrasound Localization

The new generation ultrasound localization system has versatile movement capability and is perfect for the localization and real time monitoring of stone fragmentation. The ultrasound localization system is also compatible with the X-Ray imaging systems. They can be used individually or together. By releasing the break system, the therapy head can be adjusted into any number of preferred position.

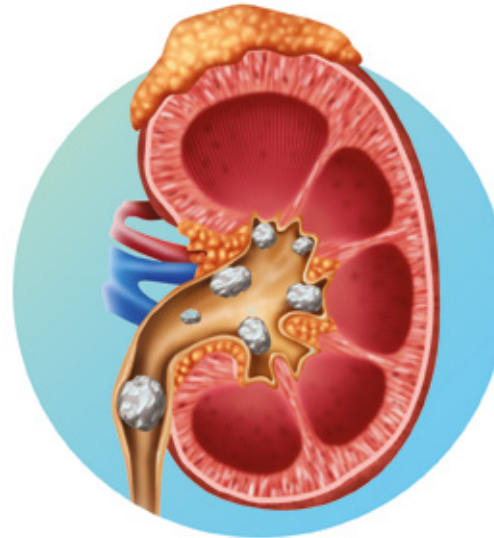
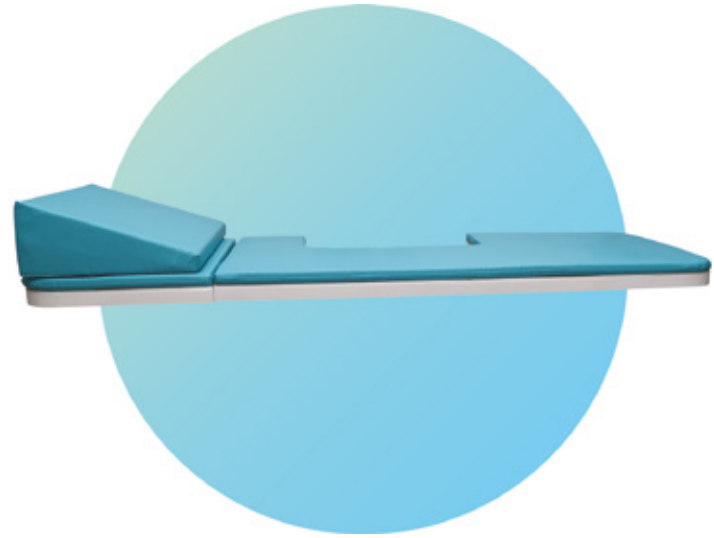
The ultrasound localization system allows the ultrasound probe to have a longer life than in-line localization systems. An optional computerized ultrasound localization system is also available . The ultrasound focusing system can detect the smallest fragments of stones, and display the image of the stone clearly. Just like the C-arm, ultrasound usage is not limited to one manufacturer's product.



Ergonomic and Aesthetic

In the Spark ESWL system, the treatment table can be moved in all directions. It has been designed to facilitate the patients to approach to ellipsoid easily. All urinary calculi that are covered under the area of ESWL can easily be broken. The Spark ESWL system allows the user to choose the ideal angle required for the therapy and to let the therapy to be performed in its most efficient way. No anesthesia is required during lithotripsy with Spark. Owing of compact structure, its installation is very easy.

With its ability to position patients very conveniently, calculi from the lower portion of the ureter can also be broken very easily.



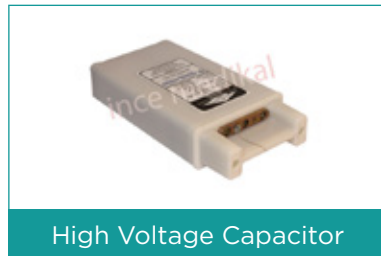
Ease of Use and Technical Convenience

It is built with user in mind, hence it's user-friendly and easy-maintenance features. The system cost has been reduced by attributing great importance to after sales and the device is designed to enable easy and efficient after-sale technical & maintenance services.



Spare Parts

During the production of İnceler Medical ESWL Units, having an easy-to-use system and maximum utilization with minimum disposable cost have been prioritized.



Technical Features

Technical Data

Electromagnetic compatibility

The system has been tested and certified according to these standards: EN 60601-1-2 / IEC 601-1-2

Medical Device Directive

Category II b (rule 9)

Protection against electric shock

Type B

Safety Limit (EN 60601-1)

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Protection Rate

In line with the IP20 IEC 529 standard

Power Supply

Electrohydraulics

Weight

Main Body

285 kg

Monitor Trolley (Including Monitors)

34 kg

Hand Operated Panel

0.5 kg

Dimensions

Empty surface required

90 cm x 190 cm

Height (max)

191 cm

1 Generator = 3 million shots = 500 patients = 1500 sessions

*We calculate 1 sessions approximately 2000 shots.

Patient Table

Table Type	Motorized
Height Movement	30 cm
Horizontal Movement	15 cm
Vertical Movement	15 cm
Max Patient Weight	200 kg

Shock wave generator

Charge voltage	7.5 to 24 KV
Trigger	ECG, Respiration, 40-120 shock/min
Shock wave generation method	Electrostatic discharge
Focusing method	Ellipsoid reflector
Number of Shocks (generator / for a couple of electrodes)	3.000.000 / 80.000
Electrode Type	Long Life (a couple 40 sessions = 80.000 shocks) Single Life (1 unit 3 sessions = 6.000 shocks)
Contact method with the patient	Water cushion

Shock wave generation

Focusing distance	130 mm
Surface angle	40°
Surface diameter	219.5 mm

Imaging system

X-Ray fluoroscopy	Yes
Tube power	5kW @ 110 kVp DC
Anode	Fixed (or Rotating)
Focus size	0.6 mm
X-Ray generator type	Semi-wave
Power values	5kW @ 110 kVp-100 mA
kV range	40 - 110 kV
mA range	0 - 3 mA
Image intensifier	6" (17 cm), 7" (18 cm) 9" (23 cm)
Filtration	3 mm Al

Monitor

Type	Monochrome, CCIR standard
Dimensions	17" / 21" Medical Monitor
Brightness Control	Manual

Contrast Control

Manual

Power Requirement:

Voltage / Frequency

110-220 V /50-60 Hz, single phase

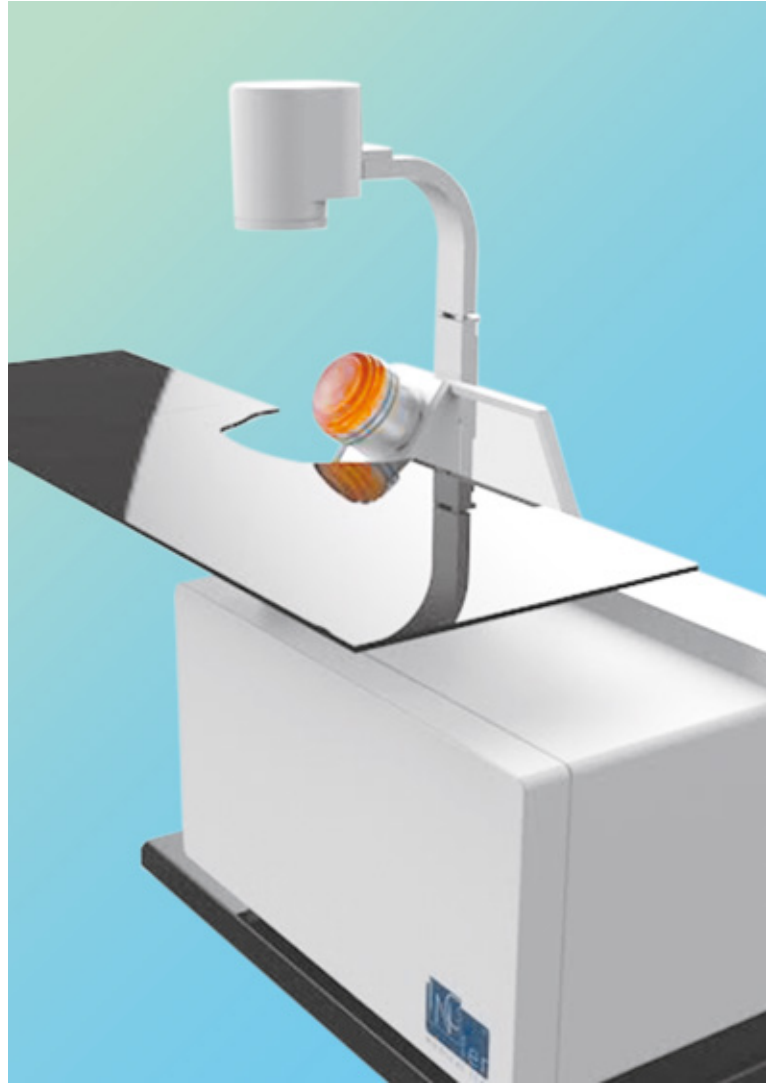
Power 3 KVA

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İNCELER MEDİKAL LTD. ŞTİ. was established In Ankara In 2010. Over time, it has gained the trust of its customers with its experienced staff and high quality service concept by reaching the capacity and expertise level which can produce suitable spare parts for many world famous brands.

İNCELER MEDİKAL has the mission of maximizing the satisfaction of the valuable healthcare workers by exceeding their expectations, In 2012, it started to design its own products. The first product of the Pneumatic Lithotripsy system was Lithobox , followed by Modus with Therapy system with shock waves from outside the body and SPARK which has kidney stone crushing system with shock waves from outside the body. These products took place in the market. The devices that we have produced are designed with taking in consideration the high security, advanced technology, economic and aesthetic parameters together and are designed with the criteria that can be the best in their class. It aims to stay in the sector as an R&D company.





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