

LM - 3800

Lithotripsy Machine



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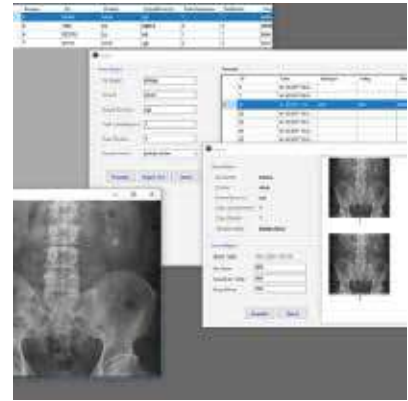
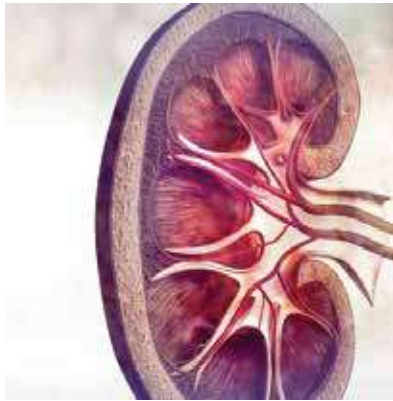
Analytical Technologies Limited

An ISO 9001 Certified Company

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►► ELECTROMAGNETIC LITOTRIPSY

The most important factor in the success of ESWL Treatment is the focusing process. The fact that the system is compact and easily controllable is important for the focusing process.



►► Database System Applications

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

►► LM 3800 ESWL

- Statistical information can be transferred to software programs.
- The software not only archives patient and therapy data, but also stores patient images in DICOM format.
- Recorded patient images and treatment can also be written on CD / DVD. Also, the recorded information can be formatted so that the images can be viewed on a regular PC.



►► WITHOUT SCOPY

ESWL Kidney Stone Crushing Systems Unit is compact and detachable on demand with its patient treatment table and C-arm scopy system. An Armless (Without C Arm) model is also produced for those who want to use with an independent C-arm Scope.

►► MOVEMENT FEATURE

Right, left and 90 degree oblique movements provide great convenience in focusing. In order to perform stone crushing successfully in ESWL systems, it is necessary to display the stone completely.

In one-direction movement Arms , Unseen stones due to Gas in the patient Abdomen , can be solved with Two-direction oblique movements C Arms which provides a great advantage in locating the stone.



C ARM:

Ability to move 30 degrees right - 30 degrees left directions.

►► ULTRASON FOCUSING AND IMAGING SYSTEM

The new generation localization system is versatile and is perfect for localizing stone and monitoring it in real time. The ultrasound localization system is also compatible with X-Ray imaging systems.



►► Ultrasound Attachment

It is isocentric. It is compatible with different ultrasound devices.

The ultrasound localization system is also compatible with the X-Ray imaging systems. They can be used individually or together.

The ultrasound localization system ensures that the ultrasound probe has a longer life than linear localization systems. Optionally, an ultrasound focusing system can detect the smallest pieces of stones and display the stone image clearly. Just like the C-arm, ultrasound usage is not limited to one manufacturer's product.

►► **ERGONOMIC AND AESTHETIC**

LM 3800 ESWL System, the patient table can be moved in all directions. It is designed to facilitate the patient's alignment to the ellipsoid bowl. All urinary tract stones entering the ESWL scope can be easily broken. The LM 3800 ESWL system allows the user to choose the ideal angle for treatment and to make the treatment most effective. Anesthesia is not required for the patient during the stone crushing treatment with LM 3800 . It has an extremely easy installation with its compact structure.

The lower ureter stones can be easily broken with the fact that the desired position can be given to the patient easily.

►► **BEST RESULT**

The ESWL System fragment the large kidney stones into small pieces of stone in order to carry out stone crushing procedure in the easiest way, and then the patient should get a lot of fluids to remove small pieces through urinary tract.



LM 3800 ESWL is the result of long years of experience and expertise in shock wave technology. Minimizing the side effects in Device Design is one of the main goals of the design. High Quality products previously made by ATL are used worldwide and gained the trust of customers. One of the extra features of the LM 3800 ESWL System; It is a high penetration depth. This contributes greatly to the treatment of obese and overweight patients. In addition, determining the net focus of the system plays a major role in stone crushing.

►► Patient Table

Multifunctional patient table can be used as an operating table. It has a low height feature that the patient can get out easily.

►► Technical Features

SAFETY

Degree of Protection Against Ingress of Fluid

IP 20

Protection Against Electric Shock

EN 60601-1 Standard Type B

EMC (EN 60601-1-2)

ELDAŞ EMC20-0070- AB-1532-T 10.04.2020

Electrical Safety

EN 60601-1

Software

MCU

QUALITY

Medical Device Directive 93/42/EC

Class IIb

Protection Against Electric Shock

Type B

TECHNICAL DATA

Working Principle-Energy Source

Electromagnetic

Dimensions(Needed Space)

65cm X165cm X 160cm

Patient Table Movements

Forward-backward(150mm)

Left-Right (150mm)

Up-Down(300mm)

Weight-Main Unit

285 Kg

Max Patient Weight

200 Kg

Imaging System

C arm Fluoroscopy and ultrasoundgraphy

Charge Voltage

7.5 kV – 24 kV

Magnetic Head Life

1 million shots

Patient Contact Part

Water Cushion

Voltage – Frequency

110 V – 240 V / 50 – 60 Hz Single Phase

Working Environment

0% <humidity <60% & hygienic environment

0°C <temperature <40°

PATIENT TABLE**Height (Min-Max)**

650mm -900mm

Length X Width

2000 mm X 640 mm

SHOCK WAVE GENERATION**Focusing Distance - Penetration**

140 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 (Min-Max)

0.6 mm - 1.8 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

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

►► HAND REMOTE CONTROL

All operations can be performed with the remote hand control in the LM 3800 ESWL System. The focus point can be checked from the desired point while the stone is breaking. Spark is designed to reduce the deflection rate to zero at the focal point. Fluoroscopy system can be used in combination with ESWL unit and produced in high resolution imaging standards.

- Portable - lightweight control
- unit: 0.4 KG
- Ergonomic and Original Design
- Color TFT Screen
- Control from remote points.



LM 3800 ESWL System consists of patient table, ESWL / Fluoroscopy and Monitor trolley parts. All three parts are powered by a very solid wheel. It provides the usability of the device in the desired location within the Hospital, and can be moved from room to room without the need for lift or similar carrier vehicles.

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

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Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
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Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



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