



EN ISO 9001  
EN ISO 13485



# VIBROLITH<sup>®</sup>

**ELMED**  
Lithotripsy Systems

# VIBROLITH

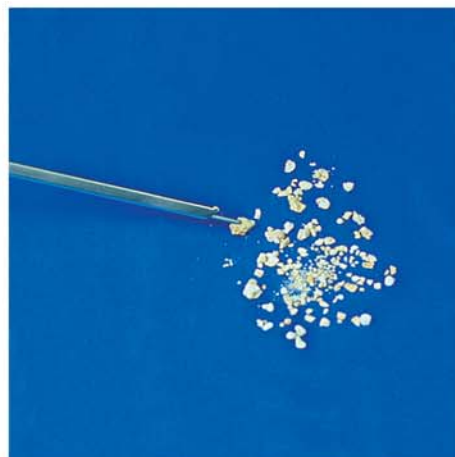


## SAFE

VIBROLITH is an electro-pneumatic lithotripter. It works under the principle of collision of a bullet, accelerated by compressed air with a steel probe. This probe transmits the impact energy to calculi. By this electro-pneumatic ballistic energy only the calculi are disintegrated, there is no effect on tissue.

Since only compressed air pulses are the source of the impact effect, no heat is exposed. Therefore, there is neither risk of any thermal injury on tissue nor destruction on optics of endoscopy.

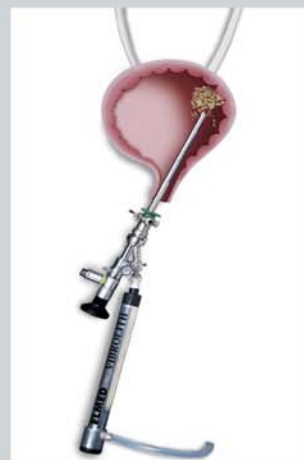
There is no electrically driven operation except the control box. So that any electrical hazard on either operator or patient is prevented by means of electrical isolation of the whole system. Both hand piece and foot pedal are operated by air pressure.



Vibrolith for successful Percutaneous Nephrolithotomy (PNL) for specially staghorn stones and renal pelvic or calyx stones.

Vibrolith for effective Uretero-rensoscopy (URS) treatment of ureteral stones

Vibrolith for quick endoscopic treatment of bladder stones.



## EFFECTIVE

VIBROLITH guarantees user satisfaction in application to all kind of renal, ureteral and bladder stones. With VIBROLITH, treatment is of short duration with a high success rate regardless of the composition and the location of the calculi. The electro-pneumatic energy by direct contact with the probes provides maximum efficiency for the disintegration of calculi. VIBROLITH is highly effective for the Staghorn stones, renal pelvic and calix stones in the use of PNL. VIBROLITH provides an easier treatment of stones in entire uretery with URS. No matter the size of the calculi, VIBROLITH achieves quick and powerful endoscopic treatment for bladder stones.

## SIMPLE

VIBROLITH has a "simple to use" nature. The operator can easily select the pulse mode as single or continuous, by simply pressing the touch-key panel. The total number of pulses applied can be monitored on a digital counter. Operation pressure can be adjusted easily and independently of the pressure supply, by turning the knob of the regulator on the control box.

## COMPATIBLE

VIBROLITH is compatible to work with a central air supply or separate air compressor. With its original carrying case, it is simple to carry and ready to use by the operator in any desired place. A cart for the applications with a separate air compressor can be ordered optionally. VIBROLITH provides a wide range of probes for different kinds of applications and compatible to work with different kinds of ureteroscopes and cystoscopes.

## ECONOMICAL

VIBROLITH, with its simple and smart nature, requires low-almost no-maintenance in the future. Due to reusable and sterilizable steel probes and no consumable requirement, a very low operation cost is appeared.



**Simple, Powerful,  
Mobile,  
Maintenance Free,  
Cost Effective**



# VIBROLITH

**Tissue Friendly,  
Precise  
Safe, Powerful,  
Effective and Quiet**

## Main Specifications

### VIBROLITH

Operating Pressure	: 0-4 bar continuously adjustable
Supply Pressure	: 5-10 bar medical compressed air
Pulse Mode	: Single or multiple pulses digitally selected pulse rate (50-500 pulse/min)
Power supply	: 110 / 220 V AC, 60 / 50 Hz
Isolation	: Internally transformer isolation
<b>Dimensions</b>	
Main Unit	: 305 x 255 x 117 mm
Hand Piece	: 195 x 20 mm
Probes	: 0.8 mm, 1.0 mm, 1.2 mm, 1.5 mm, 2.0 mm Number and length of the probes is adjustable depending on the user's ureteroscope
Weight	: 6.3 kg
Electrical Safety	: According to EN 60601-1 Class I, Type B According to EN 93/42/MDD, Class IIb
<b>Sterilization</b>	
Hand Piece	: Chemical or Gas sterilization
Probe	: Autoclave, Chemical or Gas sterilization

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