

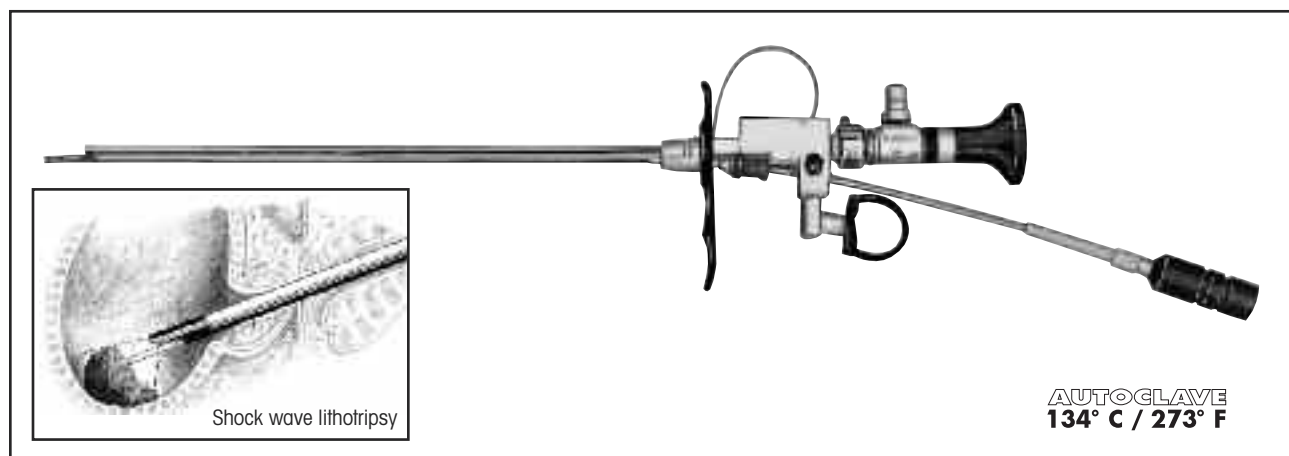


Lithotripsy



# Working Element for Shockwave Lithotripsy of Bladder Stones

For RIWOLITH 2280



## Working element for shockwave lithotripsy

with 9 Fr. RIWOLITH probes . . . . .8654.285

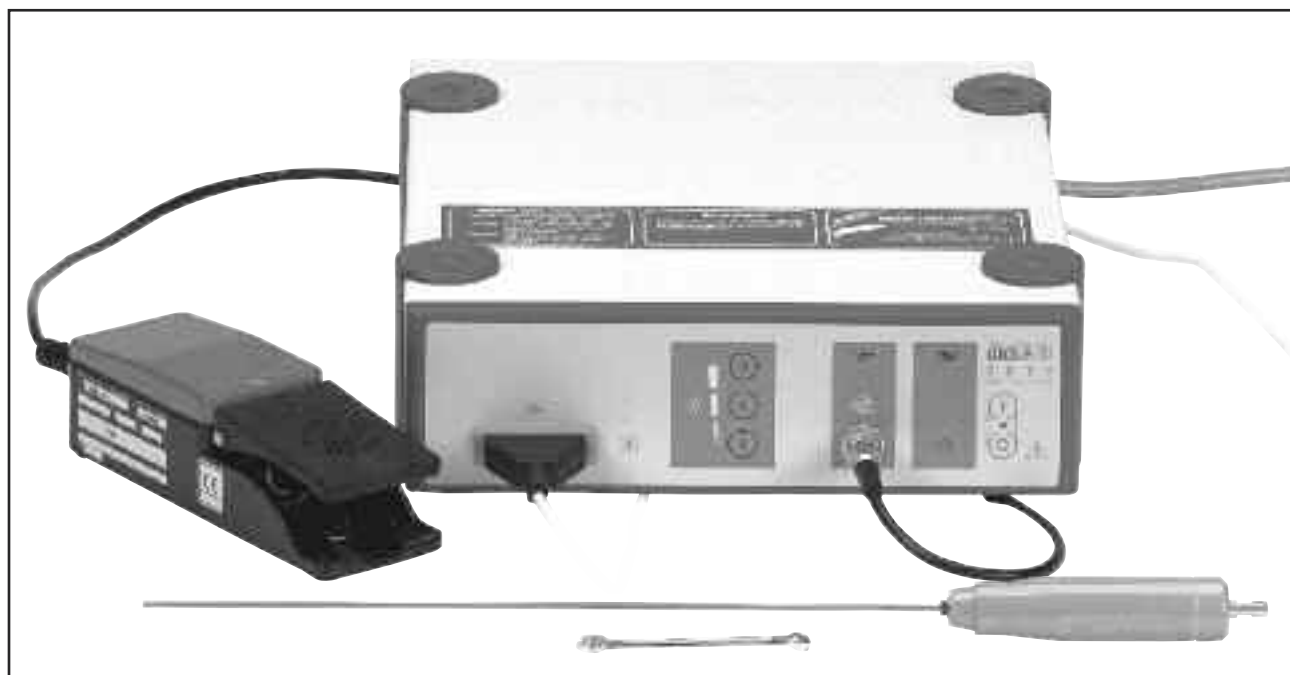
Working element for laser stabilization guide tubes . . . . .8654.282

For use with:

24 Fr. resectoscope sheaths or larger (continuous irrigation from 27 Fr.) and the 24 Fr. 8632 sheath from the Operating Cystoscope by Morganstern

## Ultrasound Generator

### For ultrasound lithotripsy



- ☐ Automatic regulation of the ultrasound transducer by PLL technology, i.e. the oscillation frequency of the transducer is always optimally tuned regardless of the transducer or probe being used
- ☐ Increased ultrasound output power
- ☐ Higher transducer efficiency
- ☐ Low noise
- ☐ Monitoring of the ultrasound output power with warning function if the output power is too high
- ☐ Monitoring of the transducer oscillation with a warning signal to indicate malfunction

#### Ultrasound generator 2271

with automatic regulation of the ultrasound transducer consisting of:  
foot-switch (2030.12), 2 m long power cable, 50/60 Hz, 120/127 V ~ .....2271.004

Requires (not included):

**Ultrasound transducer** .....2271.501

Optional:

**1/4" wrench**  
to tighten probes .....74003.009

## Technical Data

### Ultrasound generator 2271

Standards	IEC 601-1/UL-2601-1 / CSA C22.2 No. 6011
Ultrasound frequency	22 - 27 kHz
Power supply	120 / 127 V; 60 Hz
Power consumption	200 W
Dimensions (w x h x d)	320 x 90 x 360 mm
Weight	approx. 8.5 kg (18.7 lbs)





## Technical Data

### Ultrasound transducer 2271.501

Connecting cable	2 M
Dimensions	30 mm Ø x 143 mm
Weight	300 g

## Ultrasound Sonotrodes

for ultrasound generator 2271 with 2271.501 US Transducers

					
Note: We recommend 3 exchangeable ultrasound sonotrodes as the basic set!	Ø mm	Working length	Applications	Usable Instruments	Type
	1.5 mm	580 mm	Ureteral stones	Uretero- renoscopes	8954.515
	1.9 mm	580 mm	Ureteral stones	Uretero- renoscopes	8954.519
	1.5 mm	440 mm	Ureteral stones	Uretero- renoscopes	8959.515
	1.9 mm	344 mm	Kidney stones Bladder stones	Nephroscopes	8962.519
	2.4 mm	359 mm	Kidney stones Bladder stones	Nephroscopes	8962.524
	3.5 mm	360 mm	Kidney stones Bladder stones	Nephroscopes	8963.535
	4.0 mm	362 mm			8962.541
	3.5 mm	365 mm	Kidney stones Bladder stones	Nephroscopes	8963.635
	4.0 mm	365 mm	Kidney stones Bladder stones	Nephroscopes	8962.641

## Roller Suction Pump



For continuous aspiration of irrigation fluid and stone debris.

- ❑ Adjustable evacuation flow rates from 0.25 - 2.5 l/min
- ❑ Suction control for pressure setting between -0.1 and -0.6 bar
- ❑ Secretion trap for collecting irrigation solution and smaller particles

### Roller suction pump .....2207.Kit

Accessories:

- collecting bottle (4172.501)
- twist-lock bottle top with connections (2207.976)
- complete tubing set (8170.121)
- replacement roller pump tubing (pack of 5) (64226.014)
- collecting bottle holder (2232.841)
- flow sensor (2207.966) and flow sensor cable (2207.961)
- low pressure suction measuring hose (8170.411)
- power cable (N710154)
- synchronization cable to 2271 US Generator (2207.991)
- hygiene filters, sterile, single patient use, 10/pkg (2148.95)

100 - 230 V, 50/60 Hz.....2207.011

Unit with N710154 power cord

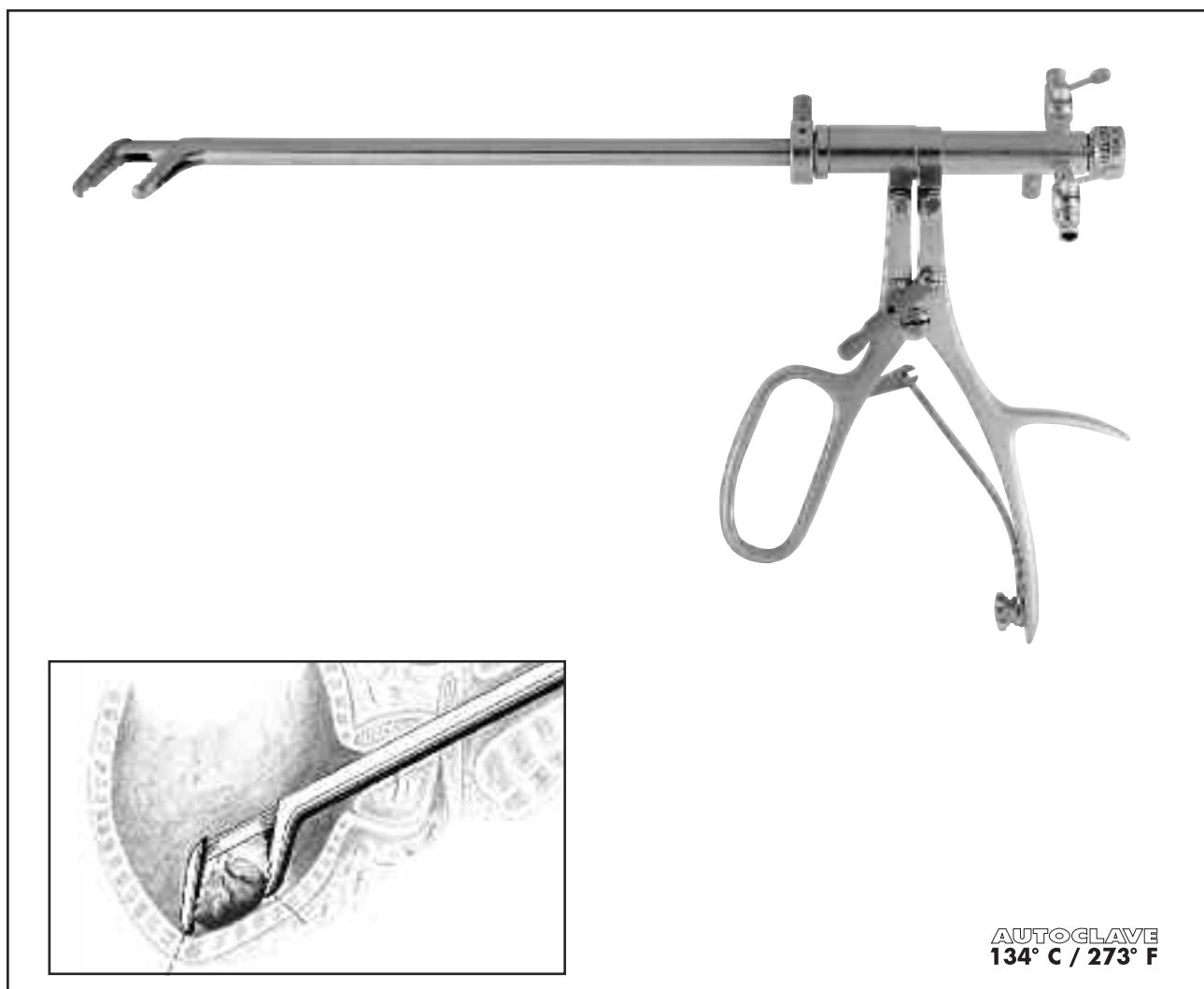
## Technical Data

### Roller Suction Pump 2207

Type	2207.011 / 2207.012
Safety class complying with UL 2601-1 / CSA C22.2 No. 601.1 - for USA	I
Classification	BF
Directive Medical Device Products 93/42EEC	Class IIa
Interference suppression complying with DIN CDE 0871	Limit class B
Low pressure range	-0.1 bar to -0.6 bar
Speed range	50 - 450 rpm
Fuse	T2.0L
Power supply	100 - 230 VAC, 50/60 Hz
Compacity load	70 VA
Capacity	0.25 - 2.5 l / min
Dimensions (w x h x d)	320 x 105 x 405 mm
Weight	18.7 lbs (8.5 kg)
Space required with bottle (w x h x d)	430 x 300 x 405 mm

## Bladder Stone Lithotripter

Lithotripsy



- ☐ Both jaws of the opened forceps are in field of view
- ☐ Easy to dismantle for cleaning and sterilization

### **Cystoscopic lithotripter, 25.5 Fr.**

with forceps handle for extremely hard stones.....8658.02

### **PANOVIEW PLUS endoscope, 70°, fixed eyepiece,**

with enlarged image and objective field .....8650.415

# RIWOLITH Probes

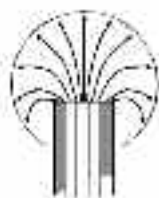
For RIWOLITH 2280

Tip	Fr. Probe	With focused shock wave	Field of application					Type Working length		
			Bladder	Rigid URS	Flexible URS	Flexible nephroscope	Rigid nephroscope	470 mm	700 mm	1050 mm
9	9	—	●	—	—	—	●	2280.0915	—	—
5	5	—	—	—	—	●	●	—	2280.1515	—
3.3	2.3	●	●	●	—	—	●	—	2280.335	—
		●	—	—	●	●	—	—	—	2280.435
2.4	1.7	●	●	●	—	—	●	—	2280.325	—
		●	—	—	●	●	—	—	—	2280.425

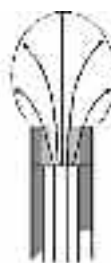
## Focused pressure wave

with distally projecting probe head sleeve

- more effective lithotripsy through focusing of shock waves where the tangential traumatizing effect is minimized. (This is of great advantage under restricted anatomical conditions)



Standard version



With focused shock wave

## Standard version

with distally flat probe head sleeve

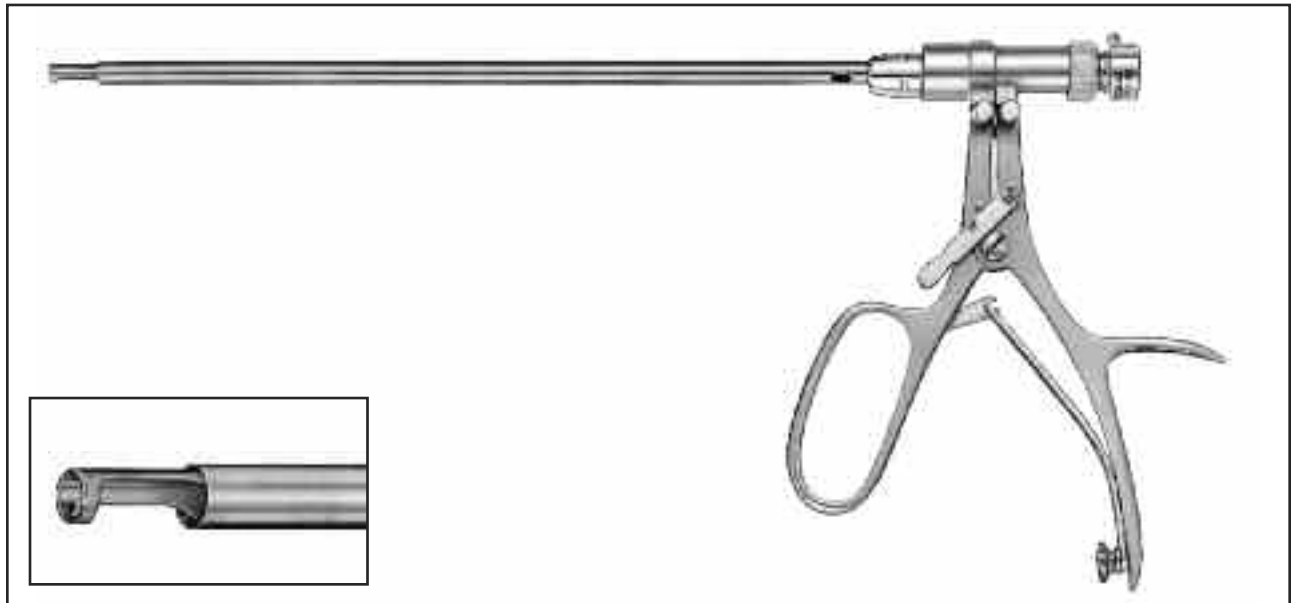
## Sterile, Single Patient Use Only

EHL probes are sold sterile, individually packaged, in boxes of 5.



## Punch Lithotripsy

Lithotripsy



### Working element for punch lithotripsy

for sheaths 24 to 28 Fr. and continuous-irrigation


double sheaths 27 and 28.9 Fr., as well as

Endoscopes 0° - 30° .....8654.90

## Curettes

for resectoscope sheaths

22 - 28 Fr.

Curettes	Working element for sheaths	For sheaths	
		22 + 24 Fr.	26 + 28 Fr.
	Type 8654 12°, 30° Endoscopes	<b>8654.27</b>	<b>8654.29</b>

Used with a working element this curette is suitable for removing small  
calculi, stone fragments after lithotripsy and residual tissue.



**Caution!**

The electrode H.F. connecting cable must not be connected to the resectoscope working element when using a curette!