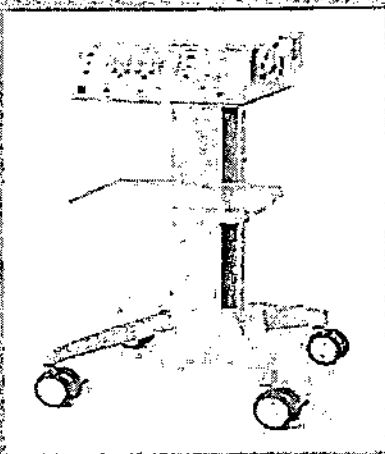


Ultrasonic Dissector/Aspirator

SONOCA 300 SONOCA 400

Clinical applications:

- Head Surgery
e.g. tumor dissection
epilepsy, meningioma
- General Abdominal Surgery
e.g. liver part resection
tumor surgery
- Minimal Invasive Surgery (MIS)
e.g. fundoplication
laparoscopic sigmoidectomy
- Gynecologic Surgery
e.g. tumor surgery
- Urology
e.g. removal of kidney tumors
- Gynecologic Oncology
e.g. tumor resection, tumor surgery
- ENT, Head, Throat (HNT)
e.g. tumor surgery
- Cardio Surgery
e.g. debridement
of heart flaps
- Thoracic Surgery
Lymph node dissection
lung resection
- Plastic Surgery
Sonoca 400 applicable
- Orthopedic surgery (Ultrasonic Lavage)
e.g. treatment of infected sites
or (traumatic wounds) (UAW)



Standardly built on a trolley
They stand on casters

SONOCA®

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The Sonoca Ultrasonic-Aspirator/Dissector is a compact device with integral aspiration and irrigation systems. Unique device, that offers min. 3 working frequencies for conventional dissection (25 kHz, 35 kHz), as well as one increased frequency (55 kHz) for the use of ultrasonic scissors.

The Sonoca family offers multiple and interdisciplinary use for

- Neuro-surgery: conventional dissection - Sonoca 400, Sonoca 300
- General surgery: conventional dissection and ultrasonic-scissors - Sonoca 400, Sonoca 300, Sonoca 150 (only US-scissors)
- Plastic surgery: Ultrasonic-Assisted-Liposuction (UAL) - Sonoca 400, Sonoca 150, Sonoca 100, Sonoma
- Wound treatment: Ultrasonic-Assisted-Wound Treatment (UAW) - Sonoca 400, Sonoca 300, Sonoca 100, Sonoca 105, Sonoca HomeCare

The Sonoc system operates with high precision ceramic discs (PZT-transducers) within the handpiece. These convert electrical input to mechanical output with almost 100% efficiency to generate ultrasonic vibration and create oscillation at the probe-tip (sonotrode). No thermal energy is generated and so no cooling system is required, therefore handpieces can be continuously used with restricting the level of operating power output.

Sonoca is selective; its function is to simultaneously fragment, emulsify and aspirate parenchyma tissue and fat at the immediate point of contact with the probe-tip while leaving all other tissue intact. The elasticity in the cell structure of connective tissue, vessels and nerve sheaths suffer no damage. Thus Sonoca greatly assists the surgeon to isolate vessels and minimize blood loss.

With its variety of handpieces, each developed for a specific field of application, Sonoca is recognized as the most advanced device of its kind and as standard equipment.

Minimal-invasive operations can also be carried out with several different instruments.

Instrument	Ultrasound 25 kHz	Ultrasound 35 kHz	Ultrasound 55 kHz	Ultrasonic scissors & hook	Lipo- suction UAL	Conventional dissection (US)	UAW (UAW)
Sonoca 300	X	X	X	X	X	X	X
Sonoca 300	X	X	X				X
Sonoca 150				X	X	X	X
Sonoca 150							X
Sonoca 100					X		X
Sonoca HomeCare							X
Sonocast							X



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INNOVATIVE SURGERY

Söring – innovative surgery

Söring, one of the pioneers in ultrasound technology, has been offering innovative solutions for ultrasonic and RF surgery on the international market for more than two decades. Söring not only is the market leader in ultrasound technology but also offers one-of-the-kind solutions for non-contact coagulation. Söring's success hinges on the continuous and uncompromising search for innovative improvement, reliable product quality, the proverbial German thoroughness and the flexibility of adapting to the market requirements by providing tailor-made solutions. Innovative surgery – benefits for you and your patients.

Ultrasound surgery: innovative, flexible and cost-effective

Many surgery techniques require that tissue is cut with great care and little bleeding. As ultrasound technology fully meets these demands, it is widely spread in all surgical disciplines.

Sonoca 300, an ultrasonic dissector by Söring GmbH Medizintechnik (Quickborn, Germany) is the only unit worldwide offering three working frequencies in one (25 kHz, 35 kHz and 55 kHz), which makes it suitable for application in many disciplines. You can connect ultrasonic handpieces as well as ultrasonic scissors and hooks for cutting and coagulating to the unit. ๑๓๒



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6.5.4 Information panel

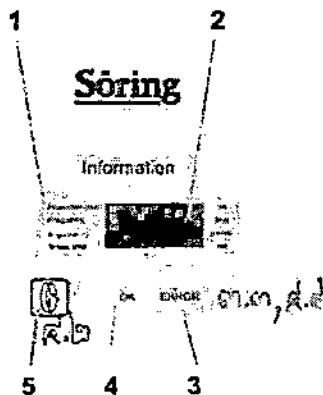


Fig. 8 Information panel

- 1 ^{ส.๒} Indicator: Mode
 - Indicates the currently selected display mode with one of four LEDs
 - Aspiration ^{ส.๒.๑}
 - Irrigation ^{ส.๒.๓}
 - Active time ^{ส.๒.๕}
- 2 ^{ส.๒} Display: Set values and errors
 - Indicates one of the following values, depending on the selected display mode:
 - Aspiration pressure [bar]
 - Frequency [kHz] ^{ส.๒.๒}
 - Irrigation fluid flow rate [ml/min]
 - Active time [min]
 - Indicates the error code in case of an error
- 3 Indicator: Error ^{ส.๓, ส.๕}
 - Lights up in case of an error
 - All unit functions are locked
- 4 Indicator: Ready (OK)
 - Lights up when the unit is ready
 - All self tests were successful
- 5 ^{ส.๓} Key: Toggle display mode
 - Cyclically toggles the display modes



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Structure and function

6.6 Supplied accessories

Power cable

Connects the unit to mains

- Standard cable article number: 200N0023

Equipotential bonding cable

Connects the unit to equipotential bonding

- Article number 200N0008

6.7 Optional accessories

- ☐ You can order optional accessories from the manufacturer.
 - A selection of available accessories is to be found in the Appendix.
- ☐ Heed the pertaining documentation prior to use.

Handpieces

- ☐ For ultrasound application
 - Available for 25 kHz and 35 kHz frequencies (selective dissection)
 - Available for cutting and coagulation (55 kHz)

Connection cable

- ☐ For connecting a handpiece to the unit

**Foot switch
(single)**

- ☐ For activating ultrasound output

**Foot switch black/red
(double)**

- ☐ For activating output various ultrasonic power levels (for ultrasonic scissors)



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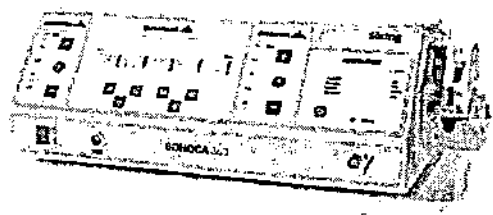
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- Ultrasonic surgery
- High-frequency surgery
- Plasma coagulation



**Technical datasheet:
Ultrasonic Generator
SONOCA 300**



DocNo.: 03-473_L_R01.02 | 01-2014 | en-GB

General		230 V	115 V	100 V
Output power				
Working frequency	25 kHz, 35 kHz, 55 kHz			
Input				
Voltage (± 10 %)	230 V	115 V	100 V	
Frequency (± 5 %)	50 Hz to 60 Hz			
Current consumption	maximum 1.1 A	maximum 2.2 A	maximum 2.4 A	
Power consumption	maximum 240 VA			
Mains fuse	2 thermal fuses: T2.6AH	2 thermal fuses: T5AH	2 thermal fuses: T6.3AH	
Dimensions & Weight				
Dimensions (W x H x D)	490 mm x 160 mm x 590 mm			
Weight	28.5 kg			
Running modes/limits				
Internal aspiration	maximum 250 ml/min and maximum 0.9 bar			
Internal irrigation	maximum 150 ml/min			
Compatible with following ultrasonic instruments	Ultrasonic scissors and hooks, Macro handpieces, Macro handpieces with HF, Micro handpieces, bone instrument, UAW handpieces			
Applications	Dissection and aspiration, cutting and coagulation, Ultrasonic-Assisted Wound Debridement			
Classification				
Protection class	I (IEC 60601-1)			
Device class	IIb (MDD 93/42/EEC)			
Type	BF (IEC 60601-1)			
Notified body	CE 0123			



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6.5.1 Aspiration panel

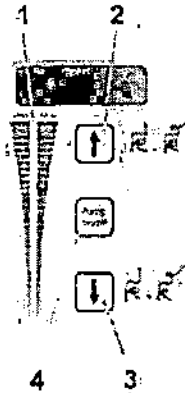


Fig. 5 Aspiration panel

- 1 **Indicator: Aspiration power**
 - Indicates the current aspiration power setting
- 2 **Key: Increase aspiration power**
 - Increases the aspiration power step by step
 - Use the display to verify the power setting
- 3 **Key: Decrease aspiration power**
 - Decreases the aspiration power step by step
 - Use the display to verify the power setting
- 4 **Key: Pump on/off**
 - Starts or stops the aspiration pump

6.5.2 Ultrasound panel

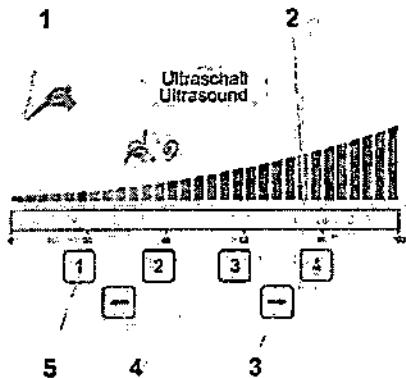


Fig. 6 Ultrasound panel

- 1 **Indicator: Handpiece active**
 - Is lit when the receptacle and consequently ultrasound output are active
- 2 **Indicator: Ultrasound power**
 - Indicates the current ultrasound power setting
- 3 **Key: Increase ultrasound power**
 - Increases the ultrasound power step by step
 - Use the display to verify the power setting
- 4 **Key: Decrease ultrasound power**
 - Decreases the ultrasound power step by step
 - Use the display to verify the power setting
- 5 **Key: Preset ultrasound power keys 1-4**
 - Sets one of the preset power values



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Technical data

4.5 Aspiration and irrigation characteristics

Aspiration	Specification	Value	Unit
R.B.9	Aspiration pressure	0..0.9	bar
	Liquid flow rate (at the handpiece)	0..250	ml/min
Irrigation	Specification	Value	Unit
R.B.10	Liquid flow rate	0..150	ml/min



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Operation

Foot switch 



Fig. 12 Foot switch socket

- ❑ Connect the foot switch to the respective socket at the front panel bottom.


Handpiece 



Fig. 13 Handpiece socket

1. Make sure the ultrasonic handpiece to be used has been sterilised.
2. Plug the connector of the handpiece cable into the handpiece socket at the front panel bottom.
 - ⊙ The unit loads type-specific parameter records such as ultrasound, irrigation and aspiration power from memory and displays them after an ultrasonic instrument has been connected.
3. Connect the hose set for irrigation and aspiration to the handpiece.
 - ⊙ Connect Luer-Lock connectors with the handpiece.
 - ⊙ Fasten hose to the clip on the handpiece cable.

9.3 Operating Instructions

9.3.1 Turning on the unit

Preparation:

1. Make sure all necessary preparations have been made.
 - ⊙ For further information refer to section *Preparations for use*.

Turning on



Fig. 1 Main switch

2. Press the main switch.
 - ⊙ The green indicator in the switch lights up.
 - ⊙ The unit performs an automatic self test.
 - ⊙ The unit is ready for operation if the *Ready*(OK) indicator lights up in the *Information* panel.
 - ⊙ The Error display lights up in the *Information* panel and an error code appears in the 7-segment display when an error occurs.



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9.3.5 Turning off the unit

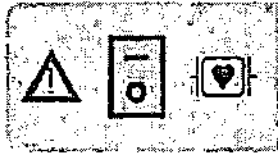


Fig. 1 Main switch

☑ Press the main switch.

- ◊ The switch interrupts the power supply to the unit, including the integrated aspiration system and the external irrigation pump.

9.3.6 Setting the signal volume



Fig. 18 Volume control

☑ Turn the volume control at the unit rear to the right or left in order to increase or decrease the volume.

- The setting becomes immediately effective.
- The next sound will be issued at the new volume.

9.4 Steps after use

1. Turn off the unit at the power switch.
2. Disconnect instruments and footswitch from the unit.
3. Clean, disinfect and if necessary sterilise reusable instruments in line with chapter Cleaning and maintenance.
 - ◊ Parameters manually edited for a specific handpiece will be saved and loaded as a new default if this handpiece is used again.
4. Properly dispose of disposable accessories.
 - ◊ Disposable accessories are regarded as biologically contaminated after use.



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Structure and function



6.5.3 Irrigation panel

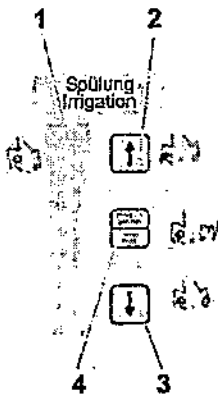


Fig. 7 Irrigation panel

- 1 Indicator: Irrigation power
 - Indicates the current irrigation power setting
- 2 Key: Increase Irrigation power
 - Increases the irrigation power step by step
 - Use the display to verify the power setting
- 3 Key: Decrease Irrigation power
 - decreases the irrigation power step by step
 - Use the display to verify the power setting
- 4 Key: Filling hose
 - Keep the key pressed to start and perform hose filling.



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Application with the dissection Instrument



Fig. 14 Filling hose key



Fig. 15 Handpiece active indicator

Application with scissors instrument



Fig. 16 Handpiece active indicator

1. Press the "Filling hose" key to prime the receptacle prior to surgery.
 - ⊗ Press the key until the irrigation fluid flows out of the receptacle tip.
2. The preset powers for aspiration, ultrasound and irrigation are available at the receptacle when you press the foot switch.
 - ⊗ The "Handpiece active" indicator lights up.



NOTE!

The thermal effect of ultrasound is used for blood vessel coagulation and tissue cutting with scissors and hook instruments (55 kHz).

- ⊗ The preset powers for aspiration and ultrasound are available at the receptacle when you press the foot switch.
 - ⊗ The "Handpiece active" indicator lights up.



NOTE!

Using a scissors instrument with a double foot switch lets you apply different power levels. Press the black pedal to apply the set ultrasonic power (coagulation). Press the red pedal to apply the maximum ultrasonic power (cutting).

Uncontrollable effect on tissue



WARNING!

Risk of Injury due to excessive pressure!
Exerting too high a pressure on the tissue with the handpiece can result in uncontrollable tissue injury. Therefore:

- Exert only little pressure when moving the instrument across the tissue surface. The cavitation caused by ultrasound makes the dissection. The unit indicates any overload with an acoustic signal.















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6 Structure and function

6.1 Symbols on the unit

	Caution, see documentation		Equipotential bonding
	ค.ต. Defibrillator-proof		ค.ต. Type CF
	ON		OFF
	Foot switch, single		Foot switch, double
	Handpiece connection		Non-ionizing electromagnetic radiation
	Warning, dangerous voltage		

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Technical data

4.7 Classification

Specification	Value
Protection class (as per EN 60601-1)	I
Type (as per EN 60601-1)	CF
Classification (as per Medical Devices Directive MDD)	II b
Classification (MDD), handpiece for neurosurgery	III



NOTE!

Heed the classification of handpieces and other accessories! Refer to the documentation for the respective accessory.

4.8 Type plate



The type label is located on the unit rear and provides the following information:

- ☐ Manufacturer
- ☐ Model
- ☐ Year of manufacture
- ☐ Serial number
- ☐ Max. mains voltage
- ☐ Fuse protection
- ☐ Max. power consumption
- ☐ Output power of available operating modes
- ☐ Ultrasonic frequency range and amplitude of available operating modes

Fig. 1. Type label



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6.2 Overview

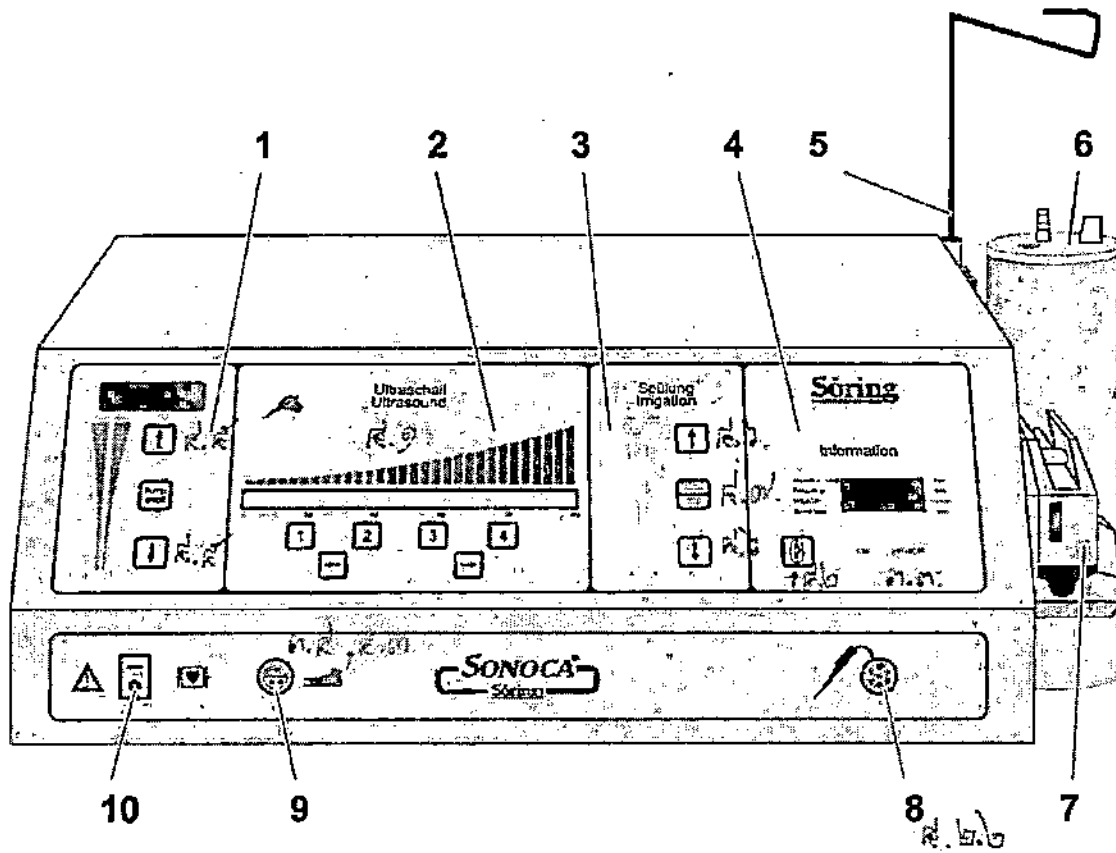


Fig. 1: Front panel overview

- | | | | |
|---|----------------------------|----|--------------------------------|
| 1 | Aspiration panel | 6 | Secretion bottle |
| 2 | Ultrasound panel | 7 | Hose pump for irrigation fluid |
| 3 | Irrigation panel | 8 | Instrument socket |
| 4 | Settings panel | 9 | Footswitch socket |
| 5 | Irrigation bottle gallsows | 10 | Power switch |



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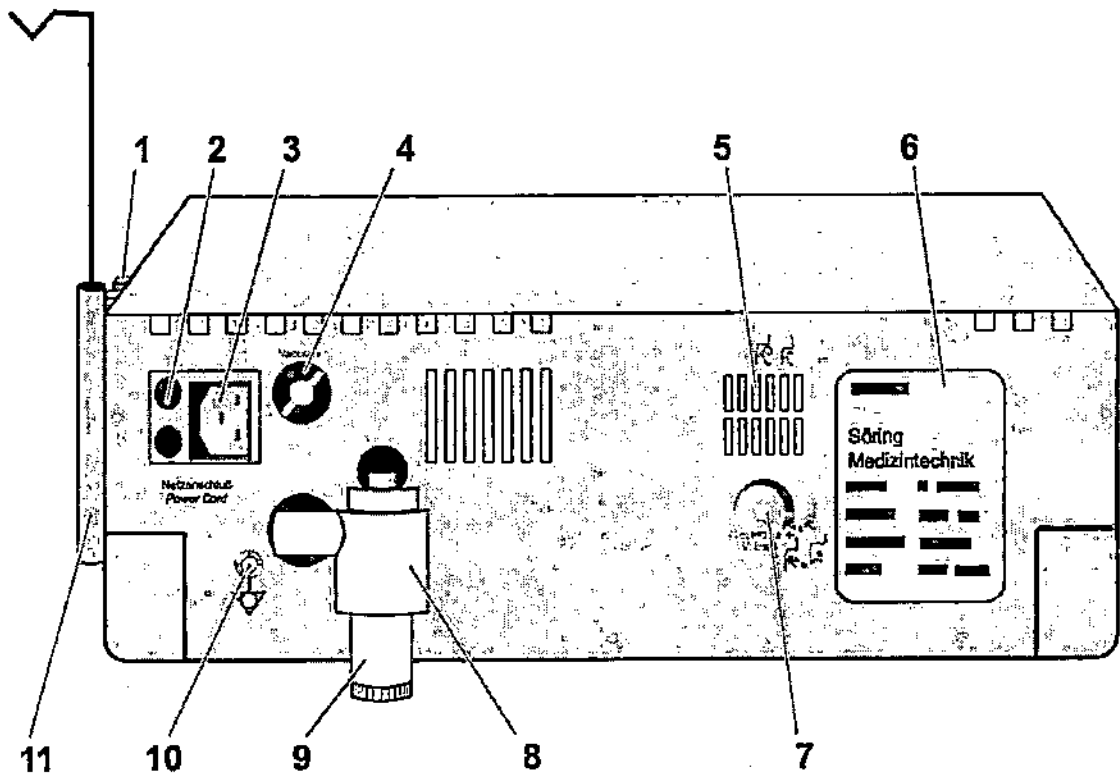


Fig. 3 Rear panel overview

- | | | | |
|---|-----------------------------|----|--------------------------------|
| 1 | Holder for secretion bottle | 7 | Volume controller |
| 2 | Fuse holder (2) | 8 | Holder for filter cartridge |
| 3 | Power socket | 9 | Bacteria filter |
| 4 | Vacuum port | 10 | Equipotential bonding terminal |
| 5 | Loudspeaker | 11 | Holder for irrigation galleys |
| 6 | Type label | | |



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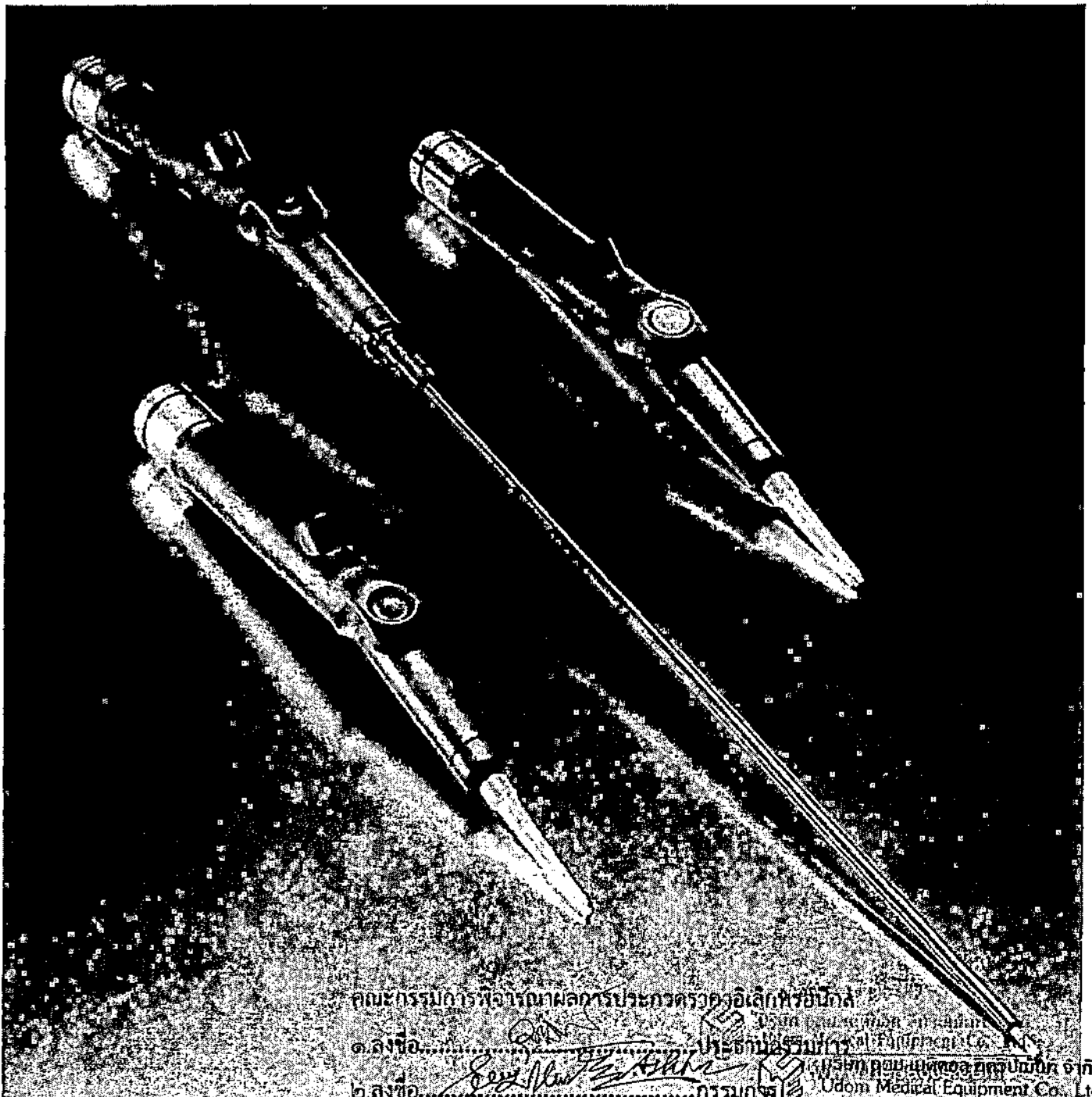
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Ultrasonic liver surgery:
 HEPACCS – cutting-edge dissection experience



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→ Ultrasonic liver surgery:

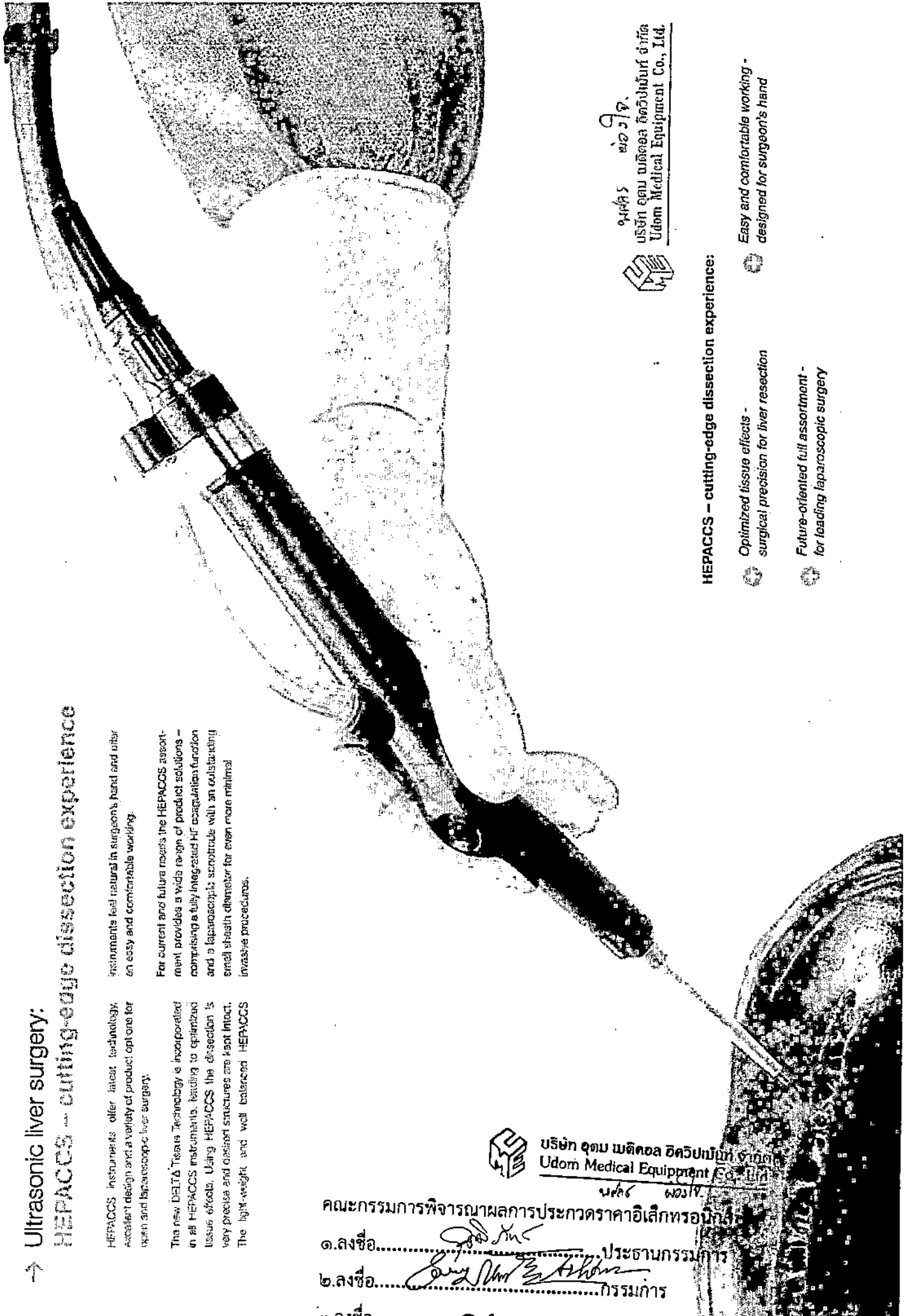
HEPACCS - cutting-edge dissection experience

HEPACCS instruments offer latest technology, excellent design and a variety of product options for open and laparoscopic liver surgery.

The new DELTA Treams Technology is incorporated in all HEPACCS instruments, leading to optimized tissue effects. Using HEPACCS the dissection is very precise and distinct structures are kept intact. The light weight and well balanced HEPACCS

instruments feel natural in surgeon's hand and offer an easy and comfortable working.

For current and future reasons, the HEPACCS assortment provides a wide range of product solutions - comprising a fully integrated HF coagulation function and a laparoscopic scissor with an outstanding small sheath diameter for even more minimal invasive procedures.



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HEPACCS - cutting-edge dissection experience:

- Optimized tissue effects - surgical precision for liver resection
- Easy and comfortable working - designed for surgeon's hand
- Future-oriented full assortment - for leading laparoscopic surgery



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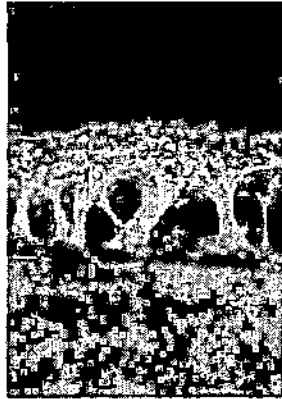
Optimized tissue effects: surgical precision for liver resection

HEPACCS with implemented DELTA Tissue Technology provides optimized tissue effects.

Working with HEPACCS is focusing on the essential:



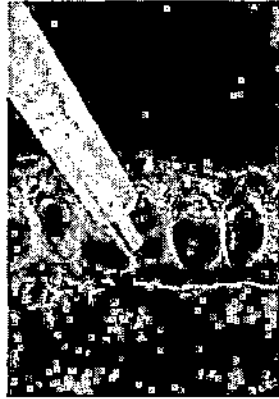
desired structures are kept intact



precise tissue dissection



minimal charring and sticking to tissue



excellent visibility and minimal spray formation

DELTA Tissue Technology

DELTA Tissue Technology consists of four key components, which are systematically harmonized for optimized tissue effects:

- powerful ultrasonic converter
- precisely designed sonotrodes geometrics
- optimally adjusted irrigation and aspiration
- further developed software

50%
HIGHER WORKING SPEED*

*Delta Tissue Technology compared to customer feedback. Product also compared for handling, which was prepared in a laboratory setup.

Easy and comfortable working: designed for surgeon's hand

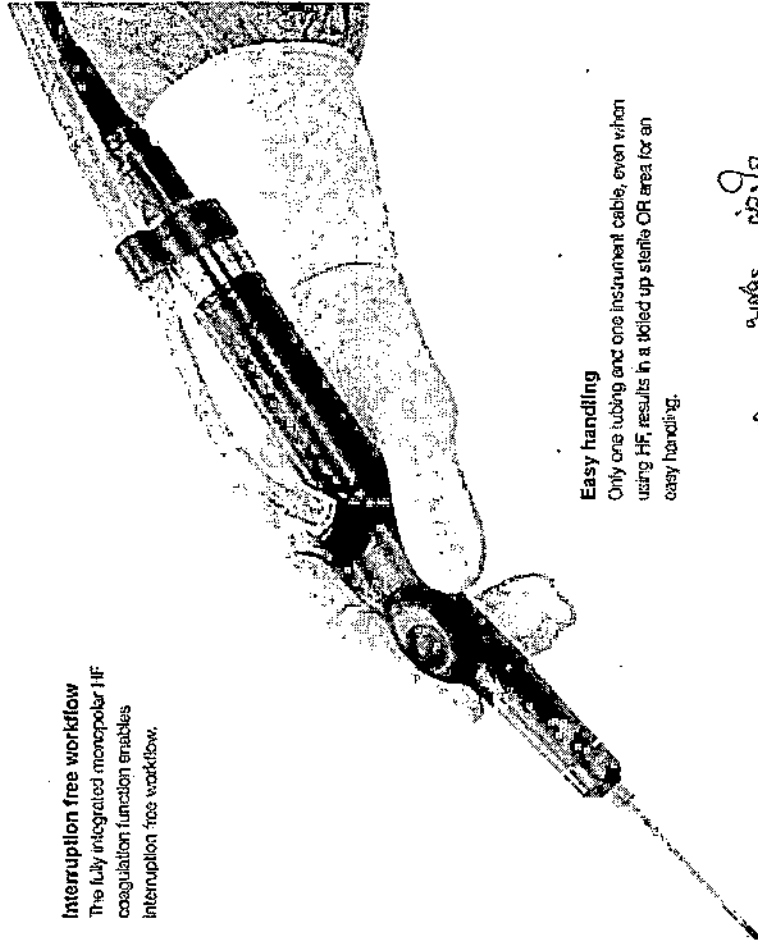
The new ergonomic HEPACCS design provides comfort in a variety of surgical situations during liver resection.

Comfortable working

The well balanced and 44% lighter** instrument supports comfortable working.

Interruption free workflow

The fully integrated monopolar HF coagulation function enables interruption free workflow.



Easy handling

Only one tubing and one instrument cable, even when using HF, results in a tidied up sterile OR area for an easy handling.

Secure & fast sonotrode assembling

With the HEPACCS torque wrench the sonotrode is rapidly mounted to the instrument. An audible click sound ensures a secure connection - Click & Start.



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GET
THE EXPERIENCE!

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ประธานกรรมการ

กรรมการ

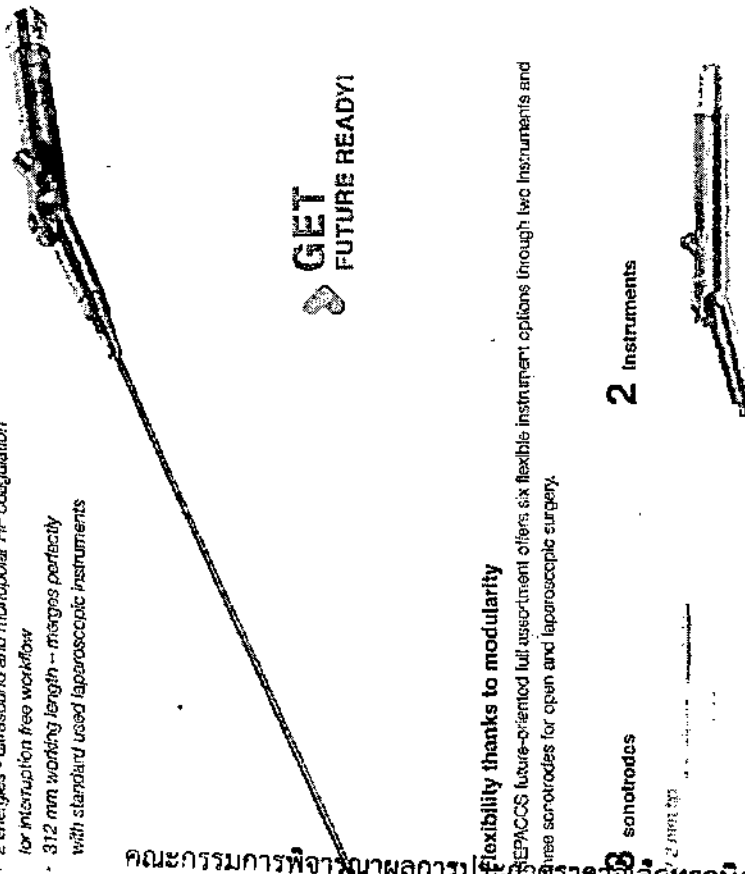
กรรมการ

Future-oriented full assortment: for leading laparoscopic surgery

The HEPACCS instrument for laparoscopy enables even more minimal invasive surgery by the outstanding small sheath diameter of 4.95 mm and a fully integrated monopolar HF coagulation function.

HEPACCS instrument for laparoscopy:

- 4.95 mm sheath diameter - over the entire working length
- 2 energies - ultrasound and monopolar HF coagulation for interruption free workflow
- 312 mm working length - merges perfectly with standard used laparoscopic instruments



**GET
FUTURE READY!**

Flexibility thanks to modularity

HEPACCS future-oriented full assortment offers six flexible instrument options through two instruments and three sonotrodes for open and laparoscopic surgery.

3 sonotrodes

2 mm tip

3.2 mm tip

2.6 mm tip



2 Instruments



6 options - for open and laparoscopic surgery

At a glance:

HEPACCS product overview

	
HEPACCS Instrument HEPACCS Instrument with HF	HEPACCS Instrument tray
Article no. 95-300 95-300-HF	Article no. 516K0200
Weight 90 g	Reprocessing reprocessable
Irrigation & aspiration Yes	HEPACCS torque wrench R. 9. 2
Scope of delivery with separate cable for sonotrodes (only 95-300-HF)	Article no. 516K0009
Reprocessing 150 cycles	Reprocessing 150 cycles
HF-function (only for 95-300-HF)	International S-pin socket**
Ultrasonic generator SONOCA 500 PL-version SONOCA 400 PL-version Software 4.72, 5.72, 6.73	HEPACCS combination tubing R. 9. 2
Article no. 517K0014	Article no. 70US0318-10
Working length 312 mm	Reprocessing scope-USA R. 9. 2
Outer tip Ø inner tip Ø 2.2 mm 1.4 mm	HEPACCS combination tubing
Scope of delivery non-sterile	Article no. 517K0022
Reprocessing 1 cycle	41 mm
HEPACCS flares R. 9. 2	3.2 mm 2.2 mm
Article no. 610K0114-10	non-sterile
Reprocessing scope-USA	1 cycle
	HEPACCS combination tubing
	Article no. 617K0003
	372 mm
	2.6 mm 1.7 mm
	non-sterile
	1 cycle
	scope-USA R. 9. 2
	Article no. 617K0013-10
	41 mm
	3.2 mm 2.2 mm
	non-sterile
	1 cycle
	scope-USA R. 9. 2

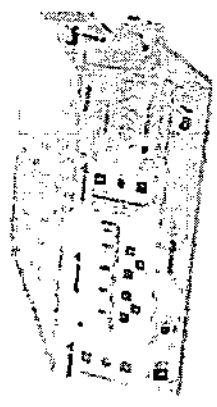
** for connecting the manual part of type HF (according to EN60601-1), connector cable (type HF) to the instrument

The SONOCA 300 ultrasonic generator

The SONOCA 300 is characterised by its high reliability and ease of use. During start-up it performs an automatic self-test which indicates the user that all functions are working. When the HEPACCS instrument is connected, initial operating parameters are suggested. These settings comprise ultrasonic power as well as aspiration and irrigation. All values can be easily adjusted at any time to allow a prompt and controlled response if conditions change.

The advantages:

- integrated irrigation and aspiration function
- quick set-up with automatic self-test
- easy adaptation of operating parameters thanks to the intuitive user interface



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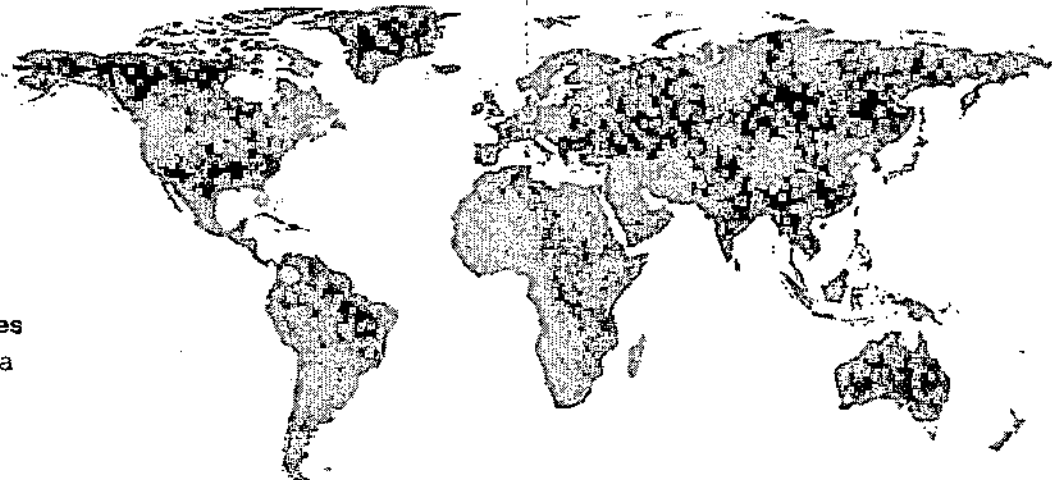
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Trusted performance: over 35 years leading innovation

Headquartered in Quickborn, Germany, Söring GmbH was founded in 1985 by Holger Söring, and has been manufacturing high-end products for ultrasonic surgery ever since. The company stands for leading ultrasonic technology with its numerous established applications for liver surgery, neurosurgery and spine surgery as well as for wound debridement. At Söring, everything is "Made in Germany": from development and production to distribution. The wide range of products is always optimised and expanded in close cooperation with leading surgeons to achieve maximal customer satisfaction. Following this understanding, the company offers a comprehensive maintenance and servicing programme.



Headquarters
Quickborn



Branches

- Colombia
- Russia
- USA

Distributors

Söring and its distributors operate in more than 90 countries worldwide.



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06-76926-80101 | 28.01.2015 | en-GB

→ Söring GmbH

Address: Söring GmbH
Königsplatz 1
41539 Quickborn
Germany

Phone: +49 4103 900-0
Fax: +49 4103 900-100
E-mail: info@soring.com
www.soring.com

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Specifications, design and accessories of the products are subject to change without notice. Products might not be available in your country. Please contact the local Söring partner for further information.

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กรรมการ
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Fußschalter

Footswitches

	Best-Nr. Order No.	Best-Nr. Order No.
		

Fußschalter, einfach

- Ohne Druckpunkt
- Klassifiziert IPX8/AP



77050101

77050001

Footswitch, single

- Without click switch
- Classified IPX8/AP

Best-Nr.
Order No.

Best-Nr.
Order No.



Fußschalter, einfach, rund, allseitig bedienbar

- Empfohlen für SONOCA-300 in der Neurochirurgie
- Ohne Druckpunkt
- Klassifiziert IPX8/AP



77050113

77050013

Footswitch, single, round, actuating from all sides

- Recommended for SONOCA-300 for use in neuro surgery
- Without click switch
- Classified IPX8/AP

Best-Nr.
Order No.

Best-Nr.
Order No.



Fußschalter, doppelt (gelb/blau) – Schwere Ausführung

- Zur Aktiv. von Ultraschall bei SONOCA-400/LIPO in UAL
- Ohne Druckpunkt
- Klassifiziert IPX8/AP



77050111

77050011

Footswitch, double (yellow/blue) – heavy version

- Needed for activ. of Ultrasonic at SONOCA-400/LIPO in UAL
- Without click switch
- Classified IPX8/AP

Best-Nr.
Order No.

Best-Nr.
Order No.



Fußschalter, doppelt (gelb/blau) – leichte Ausführung

Footswitch, double (yellow/blue) – light version



77050102

77050002

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