Liver surgery with ultrasonic technology by Söring: precise parenchyma transection with minimal bleeding
Söring Macro instruments with HF: for liver surgery

The major advantage of ultrasonic dissection lies in selective parenchyma transection. The ergonomic ultrasonic instruments by Söring are designed so that high selectivity of the tissue is achieved along with a high fragmentation rate. In addition, the precision instruments by Söring use both the cavitation as well as mechanical effect. The liver parenchyma is reliably fragmented while the solid tissue structures of vessels and bile ducts remain unscathed. This significantly reduces the operative risk, even with special challenges such as a cirrhotic liver.

94 HF series
In addition to the proven Söring ultrasonic technology, the 94 HF series instruments also have an integrated monopolar high-frequency coagulation function that is conveniently triggered by hand activation. Combined with the activation of the ultrasonic function via foot switch, this results in an optimum, continuous workflow.

Further benefits at a glance:
• Extremely light design for fatigue-free operation
• High fragmentation rates and selectivity for delicate preparation with minimal blood loss
• Optimum irrigation and effective aspiration for a better view of the operating field
• Fully autoclavable for maximum reusability and high cost-effectiveness
• Working parameters stored in the instrument for a fast set-up

Low weight: 153 g (without monopolar cable)
Söring Macro instruments: for liver surgery

### 94 series

The instruments of the 94 series have a highly efficient ultrasonic transducer that is distinguished by high efficiency and barely perceptible heat generation. The advantage: Extremely low weight and a compact design as there is no need for active cooling.

### Further benefits at a glance:

- **High fragmentation rates and selectivity for delicate preparation with minimal blood loss**
- **Optimum irrigation and effective aspiration for a better view of the operating field**
- **Fully autoclavable for maximum reusability and high cost-effectiveness**
- **Working parameters stored in the handpiece for a fast set-up**

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**94-106-HF**

- **Macro instrument with HF**
- **Working length**: 48 mm
- **Weight**: 150 g
- **Sonotrode tip (outside)**: Ø 2.2 mm
- **Sonotrode tip (inside)**: Ø 1.4 mm
- **Irrigation**: Outside
- **Aspiration**: Inside

**94-101-HF**

- **Macro instrument with HF**
- **Working length**: 42 mm
- **Weight**: 153 g
- **Sonotrode tip (outside)**: Ø 3.3 mm
- **Sonotrode tip (inside)**: Ø 2.2 mm
- **Irrigation**: Outside
- **Aspiration**: Inside
94-106

**Macro instrument, short, angled**

- **Working length**: 49.5 mm
- **Weight**: 170 g
- **Sonotrode tip (outside)**: Ø 2.2 mm
- **Sonotrode tip (inside)**: Ø 1.4 mm
- **Irrigation**: Outside
- **Aspiration**: Inside

94-101

**Macro instrument, short, angled**

- **Working length**: 44 mm
- **Weight**: 168 g
- **Sonotrode tip (outside)**: Ø 3.3 mm
- **Sonotrode tip (inside)**: Ø 2.2 mm
- **Irrigation**: Outside
- **Aspiration**: Inside

94-103

**Macro instrument, short, straight**

- **Working length**: 44 mm
- **Weight**: 168 g
- **Sonotrode tip (outside)**: Ø 3.3 mm
- **Sonotrode tip (inside)**: Ø 2.2 mm
- **Irrigation**: Outside
- **Aspiration**: Inside

94-005

**Macro instrument (LUD), long, straight**

- **Working length**: 304 mm
- **Weight**: 178 g
- **Sonotrode tip (outside)**: Ø 3.5 mm
- **Sonotrode tip (inside)**: Ø 2.2 mm
- **Outer sheath**: Ø 5.5 mm
- **Irrigation**: Inside
- **Aspiration**: Inside

94-054

**Macro instrument (LUD), long, straight**

The extremely light, perfectly balanced instrument with its outer sheath diameter of 5.5 mm is ideal for laparoscopic ultrasonic dissection (LUD) because the piezo unit of its highly efficient ultrasonic transducer enables a high degree of efficiency. The advantage: An extremely compact design. This instrument is also distinguished by being fully autoclavable, having a proven longevity, being exceptionally service-friendly as well as by quick set-up with the ready-to-use function.
From the opening to the closure of the abdomen – Söring supports the surgeon throughout the entire procedure with a wide range of technologies. The SONOCA 300 ultrasonic generator in combination with the MBC 601 UAM high-frequency generator provides a unique solution for visceral and liver surgery. A special instrument for ultrasonic dissection with monopolar coagulation function allows an operation to be carried out with fewer instrument changes and a workflow free of interruption. The broad selection of monopolar and bipolar functions significantly increases the application options once again.

**Perfect symbiosis of technologies: cleverly combined**

**Further benefits at a glance:**
- Accurate preparation and effective aspiration using ultrasonic technology
- Ultrasonic dissection and monopolar high-frequency coagulation functions combined in one instrument
- Many application options for monopolar and bipolar high-frequency surgery with an output power up to 350 watts

**The ultrasonic generator: SONOCA 300**

The SONOCA 300 is the high-performance specialist delivering electrical energy that is converted into mechanical ultrasonic vibrations by the piezoelectric crystal system within the handpiece.

**The SONOCA 300 excels due to:**
- Simple, intuitive use
- Self-test during start-up
- Automatic instrument detection and instrument check
- Automatic setting of appropriate working parameters
- Extremely quick set-up

**The high-frequency generator: MBC 601 UAM**

The MBC 601 UAM is the combinable all-rounder in the MBC series from Söring. It provides many different application options for monopolar and bipolar high-frequency surgery in one especially powerful device with an output power up to 350 watts.

**The MBC 601 UAM excels due to:**
- Individually adjustable modes for monopolar and bipolar applications for maximum flexibility.
- Compatibility with many monopolar and bipolar instruments that have standard 3-pin or 2-pin plugs
- 10 user programs for saving personally preferred settings

15-000 SONOCA 300
88-000-UAM MBC 601 UAM

Unique solution for visceral and liver surgery
Söring: worldwide

Branch offices
USA
Colombia
Russia
Kazakhstan

Trading partners
Söring and its trading partners operate in over 90 countries across the world.

Söring GmbH
Justus-von-Liebig-Ring 2
25451 Quickborn | Germany
Phone: +49 4106-6100-0
Fax: +49 4106-6100-10
E-mail: info@soering.com

Further information can be found at:
www.soering.com

Your contact:

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