

LIVER
SURGERY

Liver surgery with ultrasonic technology
by Söring: **Precise parenchyma transection
with minimal bleeding.**



www.soering.com

→ Söring Macro handpieces 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.

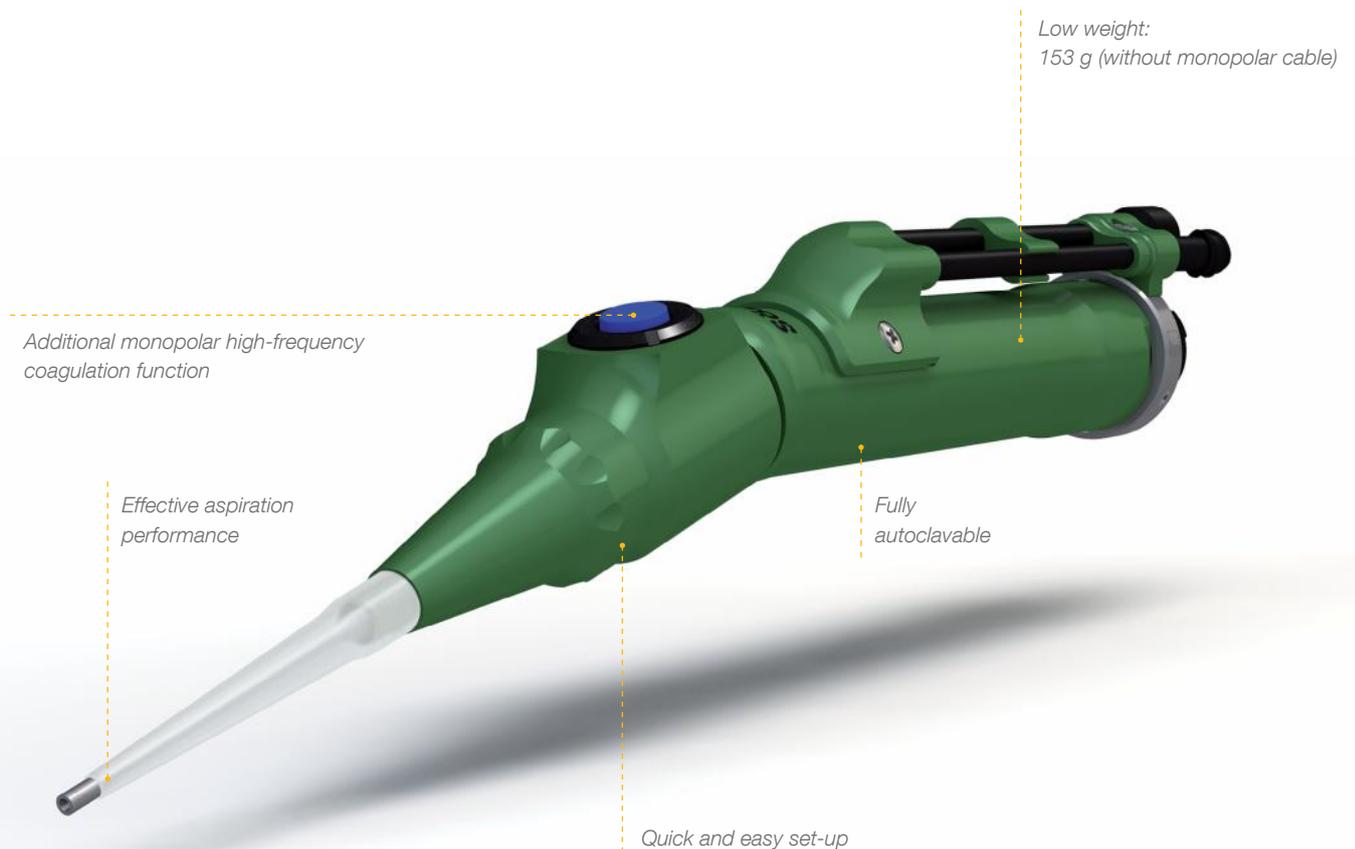
94 HF series

In addition to the proven Söring ultrasonic technology, the 94 HF series handpieces 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 handpiece for a fast set-up*





94-106-HF

Macro handpiece 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 handpiece 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

→ **Söring Macro handpieces:
for liver surgery.**

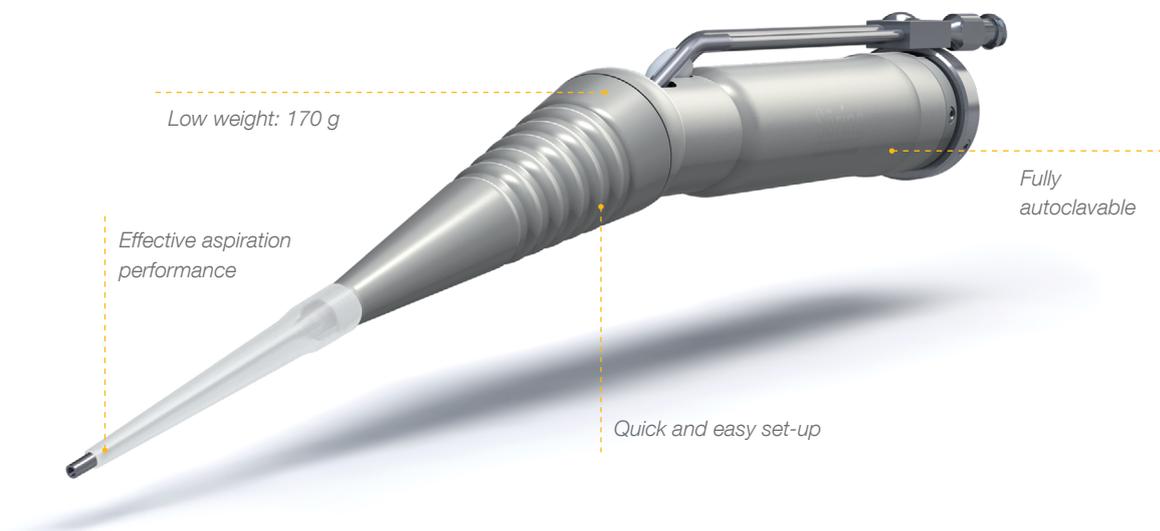
94 series

The handpieces 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





94-106

Macro handpiece, 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



94-103

Macro handpiece, 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

94-054 –

Macro handpiece (LUD), long, straight

The extremely light, perfectly balanced handpiece 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 handpiece 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.



94-101

Macro handpiece, 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



94-005

Macro handpiece, long, angled

Working length	144 mm
Weight	166 g
Sonotrode tip (outside)	Ø 2.9 mm
Sonotrode tip (inside)	Ø 2.2 mm
Irrigation	Inside
Aspiration	Inside



94-0054

Macro handpiece (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

→ Perfect symbiosis of technologies: **cleverly combined.**

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 handpiece 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.

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



15-000 **Sonoca 300**

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



88-000-UAM **MBC 601 UAM**



Unique solution for visceral and liver surgery.