



Söring

INNOVATIVE SURGERY

NEURO-  
SURGERY

Neurosurgery with ultrasonic technology  
by Söring: **fine preparation and  
effective dissection**



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## → The Söring Micro handpieces: for neurosurgery

Meanwhile the tissue-selective removal of cranial and spinal tumours using ultrasonic technology has become gold standard. The ultrasonic dissectors by Söring allow the surgeon to proceed precisely and efficiently without traumatising the surrounding tissue. They are suited to hard, medium-hard and soft tumours and are safe to handle.

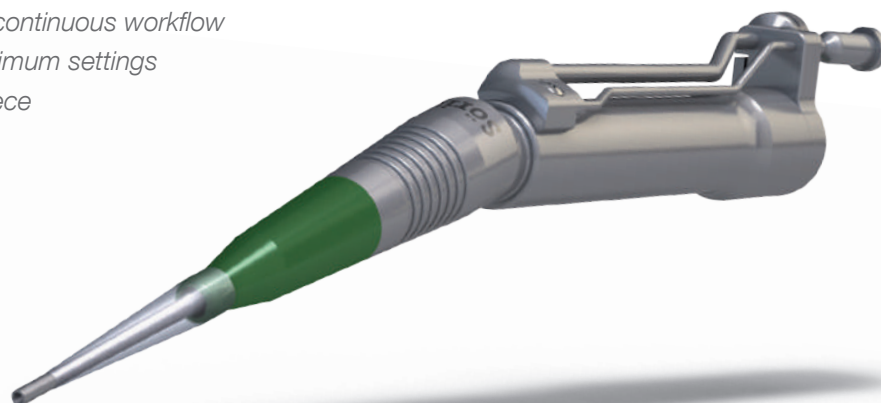
Söring offers a great repertoire of instruments with different working lengths, sonotrode diameters and

with or without integrated aspiration for the most varying anatomical conditions. The choice of the instrument depends on the localisation, size and consistency of the tumour as well as on personal preferences of the surgeon.

All Söring Micro handpieces excel with an extremely robust, highly ergonomic design made from medical grade titanium. They are fully reusable and exceptionally long-lasting.

### Powerful Micro handpieces with integrated aspiration: **92 series**

- Low weight for highly comfortable working
- Ergonomic design
- Highly efficient integrated aspiration system for optimum view and a continuous workflow
- Simple, intuitive use: optimum settings are stored in the handpiece
- Quick and simple setup
- Availability of three different types plus an endoscopic handpiece offers maximum flexibility




Micro handpieces with integrated aspiration	Working length	Weight	Sonotrode tip (outer)	Sonotrode tip (inner)	Irrigation
<b>92-020 short, angled</b> 	35 mm	81 g	Ø 2.0 mm	Ø 1.4 mm	Outside
<b>92-021 long, angled</b> 	96.5 mm	82 g	Ø 2.0 mm	Ø 1.4 mm	Outside
<b>92-112 long, angled</b> 	107.5 mm	83 g	Ø 2.3 mm	Ø 1.7 mm	Outside

## Ultrasonic aspirator for endoscopic neurosurgery: 92 series (Micro handpiece, ENP, according to Gaab)

- Minimally invasive tumour aspiration to the cranium
- Access to specific areas of the brain without damaging critical structures
- Low weight for highly comfortable working
- Applicable in combination with the neuroendoscope model Gaab (Karl Storz GmbH)
- Particularly suitable for the removal of intraventricular tumours



Micro handpiece (ENP, according to Gaab)	Working length	Weight	Sonotrode tip (outer)	Sonotrode tip (inner)	Irrigation
<b>92-030 long, straight</b> 	213.5 mm (for 3 mm trocar)	105 g	Ø 2.2 mm	Ø 1.4 mm	Via endoscope

## The most delicate and lightest ultrasonic handpieces used with external aspiration: 91 series

- Smallest and lightest ultrasonic handpiece worldwide for delicate preparation and maximum comfort
- Ergonomic design
- Sophisticated construction allows access to the highly sensitive areas of the brain
- Removal of soft to hard brain tumours whilst preserving the surrounding structures
- Particularly suitable for the dissection of superficial brain tumours
- Available in two different working lengths



Micro handpieces with external aspiration	Working length	Weight	Sonotrode tip (outer)	Sonotrode tip (inner)	Irrigation
<b>91-020 short, angled</b> 	43.5 mm	47 g	Ø 1.4 mm	Ø 0.9 mm	Inside
<b>91-021 long, angled</b> 	121 mm	52.5 g	Ø 1.4 mm	Ø 0.9 mm	Inside

## Overview: the application areas

Tissue-selective aspiration and resection of cranial and spinal tumours of different origin:

- Neuroepithelial tumours
- Mesodermal tumours
- Ectodermal tumours

## At a glance: the essential benefits

- Precise, efficient reduction of tumour tissue
- Suited to various tissue structures
- No traumatisation of the surrounding tissue
- Safe handling
- Large repertoire for the most varying applications

### Order information: Micro handpieces, 92 series

All Söring Micro handpieces are compatible with: **SONOCA 300, SONOCA 400**

Brief overview		Item no.	Packaging unit
Handpiece	<b>Micro handpiece, short, angled</b> (working length: 35 mm)	92-020	1
	<b>Micro handpiece, long, angled</b> (working length: 96.5 mm)	92-021	1
	<b>Micro handpiece, long, angled</b> (working length: 107.5 mm)	92-112	1
	<b>Micro handpiece (ENP, according to Gaab), long, straight</b> (working length: 213.5 mm (for 3 mm trocar))	92-030	1
+ Instrument cable	<b>Instrument cable, straight</b>	240K0095	1
	<b>Instrument cable, angled</b>	240K0195	1
+ Hose set	<b>Disposable hose set, double lumen</b>	700S0316	12
+ Cover	<b>Disposable cover (for 92-020)</b>	612K0037-10	10
		612K0037-50	50
	<b>Disposable cover (for 92-021)</b>	612K0038-10	10
		612K0038-50	50
	<b>Disposable cover (for 92-112)</b>	612K0039-10	10
		612K0039-50	50

### Order information: Micro handpieces, 91 series

All Söring Micro handpieces are compatible with: **SONOCA 300, SONOCA 400**

Brief overview		Item no.	Packaging unit
Handpiece	<b>Micro handpiece, short, angled</b> (working length: 43.5 mm)	91-020	1
	<b>Micro handpiece, long, angled</b> (working length: 121 mm)	91-021	1
+ Instrument cable	<b>Instrument cable, straight</b>	240K0095	1
	<b>Instrument cable, angled</b>	240K0195	1
+ Hose set	<b>Disposable hose set, single lumen</b>	700S0310	12

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

From the opening till the closure of the wound - Söring supports the surgeon during the complete procedure offering a wide range of technologies. As a pioneer in ultrasonic technology and provider of innovative high-frequency and plasma coagulation devices Söring offers trusted quality and performance making surgeon's life easier day by day. The combination of the **ultrasonic generator SONOCA 300** and the **high-frequency generator BCC 140** is just one of multiple options perfectly suited for use in neuro surgery. While the SONOCA 300 is the reliable partner for all Micro handpieces, the BCC 140 offers all possibilities and advantages of bipolar high-frequency functions.

### **An overview of the benefits:**

- *Fine preparation and effective dissection of tumours with ultrasound*
- *Bipolar cutting and coagulation guarantee maximum safety for patient and user*

### The ultrasonic generator: **SONOCA 300**

The SONOCA 300 is the high-performance specialist delivering electrical energy that is converted by piezoelectric material within the handpiece into ultrasonic vibration.

#### **The SONOCA 300 excels by:**

- *Simple, intuitive use*
- *Self-check during start-up*
- *Automatic instrument recognition and instrument check*
- *Automatic setting of appropriate working parameters*
- *Extremely quick set-up*



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**SONOCA 300**

### The high-frequency generator: **BCC 140**

The BCC 140 is the combinable allrounder for many application opportunities of bipolar high-frequency surgery in an especially compact device with up to 140 watt output.

#### **The BCC 140 excels by:**

- *Two ready-to-use instrument connectors e.g. for two bipolar forceps*
- *Compatible with many bipolar instruments with standard 2-pin plugs*
- *Limited output power with very fine setting options for safe operation even in sensitive areas*
- *Automatic tissue impedance measurement*



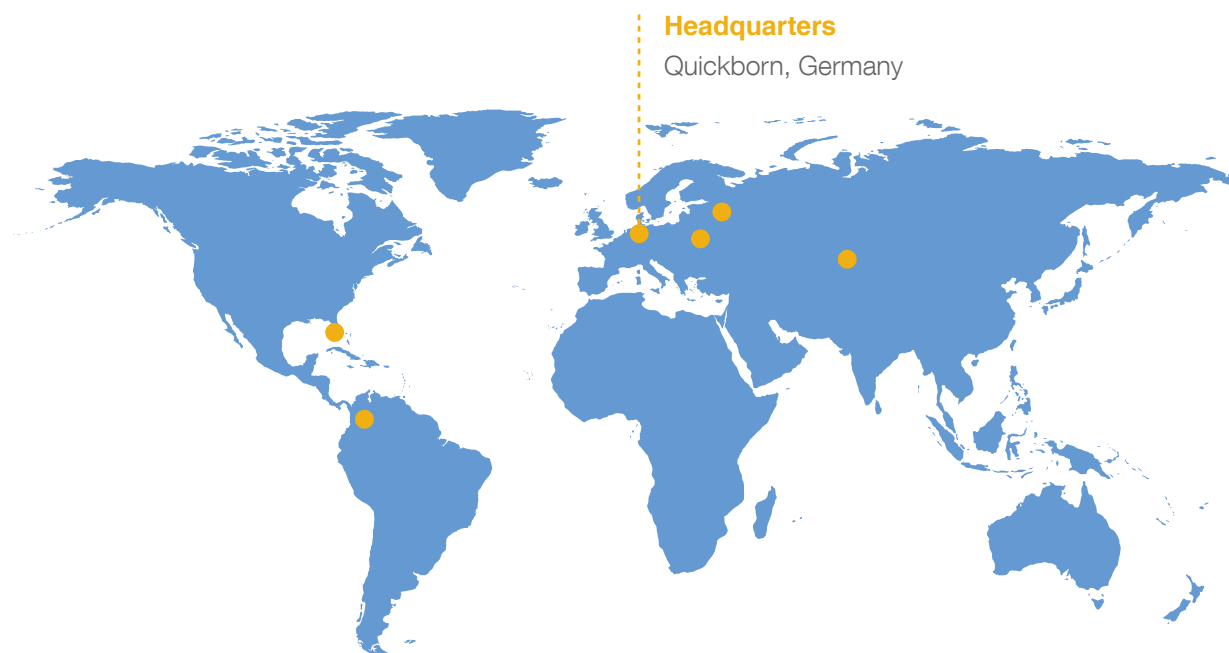
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**BCC 140**



**Outstandingly well-suited to neurosurgery.**

Söring:  
worldwide



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Colombia  
Russia  
Ukraine  
Kazakhstan

**Trading partners**

Söring and its trading partners  
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across the world.

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