



Söring
INNOVATIVE SURGERY

SPINE
SURGERY

Spine surgery with ultrasound technology
by Söring: **Maximum safety thanks to
extreme precision**



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→ The Söring precision instrument: For spine surgery

The bone instrument by Söring developed in collaboration with leading spine surgeons impresses through its proven, high-performance ultrasound technology, and its different and interchangeable sonotrodes. The surgeon can choose between four different sonotrode shapes and lengths, and use the optimum sonotrode depending on the indication, procedure and access path. The lightweight, ergonomic bone instrument and sonotrodes allow the work to be carried out with extreme precision which ensures that the highly sensitive structures around the spine are protected to the maximum.

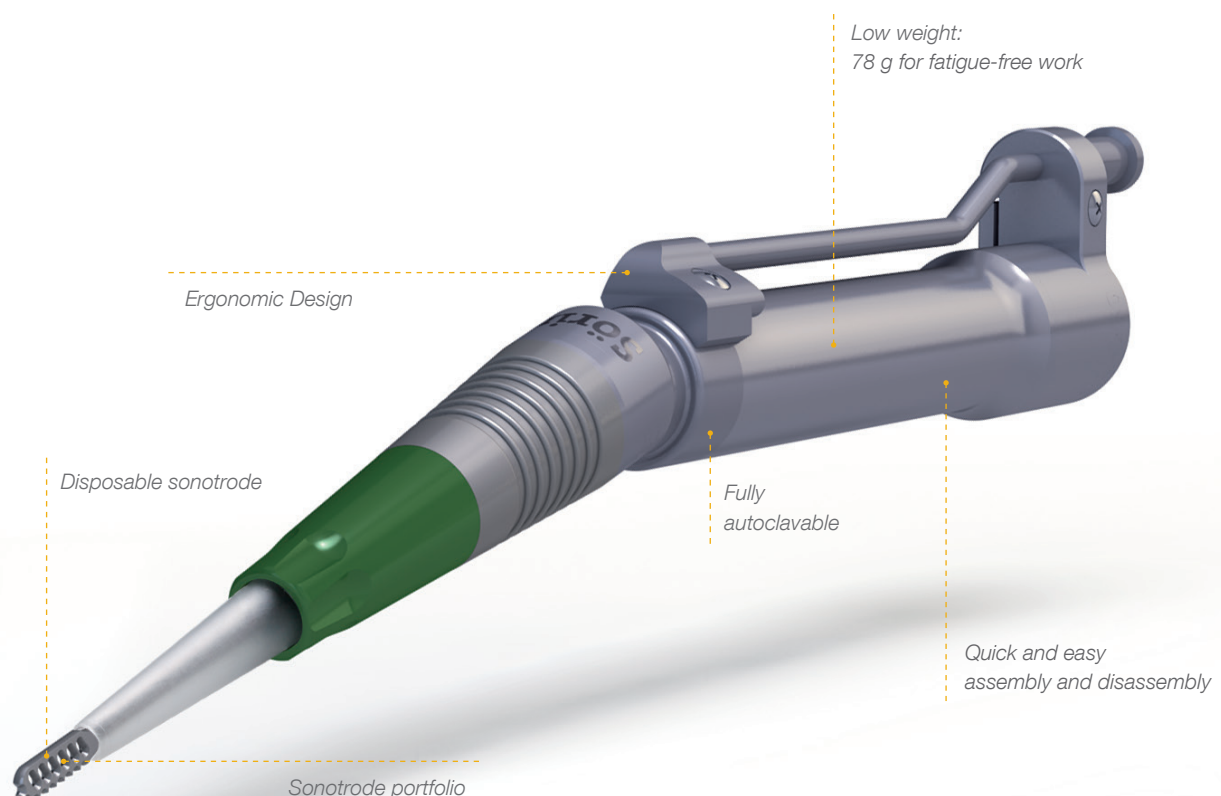
The benefits at a glance:

- *Selective dissection of bones and hard structures*
- *Protection of the surrounding soft tissue*
- *Preservation of the surrounding nerves and vessels*

Flexibility through modularity: **The next generation of bone instrument**

It represents the latest generation of bone instruments and the leading edge in ultrasound technology by Söring: The bone instrument for spine and neurosurgery with its offering of interchangeable, disposable sonotrodes matched to the indication. Its fields of application range from laminoplasty

through laminectomy to operative treatment of spinal stenoses. As one expects by Söring – the disposable sonotrodes can be replaced quickly, easily and intuitively under operating room conditions. This means the surgeon can operate on bones efficiently and with low risk.



Knife sonotrode

- Precise and plannable cutting of bones
- Produces the finest cut edges
- Maximum protection of nerves and dura mater from tissue selectivity



Rasp sonotrode

- Fine rasp for precise bone ablation
- Controlled work at low working temperature
- Suitable for a variety of spinal indications



Product features: For knife or rasp sonotrodes, in short or long



Bone instrument with knife sonotrode, short

For example for access to the cervical spine

Working length	40 mm
Blade width	0.8 mm
Weight	75 g
Irrigation	outer
Aspiration	without



Bone instrument with rasp sonotrode, short

For example for access to the cervical spine

Working length	40 mm
Rasp area	4 mm ²
Weight	77 g
Irrigation	outer + inner
Aspiration	without



Bone instrument with knife sonotrode, long

For deeper-lying interventions, e.g. on the lumbar spine

Working length	100 mm
Blade width	0.8 mm
Weight	77 g
Irrigation	outer
Aspiration	without



Bone instrument with rasp sonotrode, long

For deeper-lying interventions, e.g. on the lumbar spine

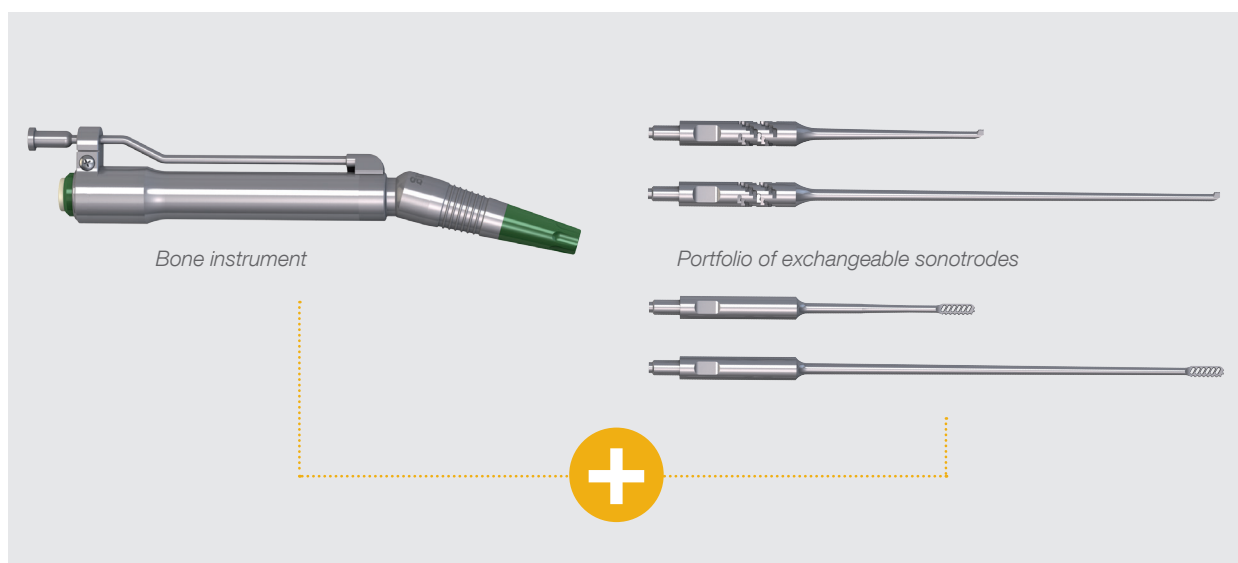
Working length	100 mm
Rasp area	4 mm ²
Weight	78 g
Irrigation	outer + inner
Aspiration	without

Ordering information: 92-050 Bone instrument

The Söring ultrasonic bone instrument is compatible with:
SONOCA 300, SONOCA 400, SONOCA 185

Brief overview		Article no.	Packaging unit
Ultrasonic instrument	Bone instrument (autoclavable)	92-050	1
+ Instrument cable	Instrument cable, straight	240K0095	1
	Instrument cable, angled	240K0195	1
+ Sonotrode set (disposable accessory) including	Knife sonotrode set, short	612K0057-SET-10	10
	Knife sonotrode set, long	612K0058-SET-10	10
- Sonotrode	Rasp sonotrode set, short	612K0060-SET-10	10
	Rasp sonotrode set, long	612K0061-SET-10	10
- Cover			
- Torque wrench			
+ Tube set (disposable accessory)	Tube set, single lumen	700S0310	12

The bone instrument: **The ideal tool for various indications**



The optimal ultrasonic generator: **Tailor-made for the highest demands**

The possibilities of ultrasound applications in neurosurgery or for safe bone removal in spinal orthopedics are manifold. The neurosurgical spine specialist uses a wide range of ultrasound applications. From selective bone removal and establishing secure access to remodeling of the spinal canal or the removal of spinal tumors, the SONOCA 300 supports the daily work of neurosurgeons.

However, the orthopedist specializing in spinal surgery usually employs only bone treatment with ultrasound. The SONOCA 185 now also enables operating with a bone instrument and is thus the economic generator solution if the use of only the bone instrument is intended.

Söring ultrasonic generators are characterized by:

- *Simple and intuitive operation*
- *Self-test during start-up*
- *Plug & play, including automatic handpiece detection and instrument check*
- *Independent setting of the correct working parameters*
- *Extremely fast set-up*

The generalist: **SONOCA 300**

The SONOCA 300 is the high-performance ultrasonic all-rounder for the neurosurgeon. It supports all Söring instruments for the soft tissue removal of tumors as well as the ultrasonic bone instrument.

Overview of the SONOCA 300:

- *Compatible with all 25 kHz, 35 kHz and 55 kHz handpieces*
- *Integrated irrigation pump and aspiration*



15-000

SONOCA 300

The specialist: **SONOCA 185**

The SONOCA 185 is the consistently optimized solution for spinal orthopedics and wound treatment. In addition to the 25 kHz instrument for ultrasonic assisted wound debridement, it now also supports the Söring ultrasonic bone instrument with a working frequency of 35 kHz.

Overview of the SONOCA 185:

- *Supports a choice of 25 kHz and 35 kHz handpieces**
- *Integrated irrigation pump*



S185-000

SONOCA 185



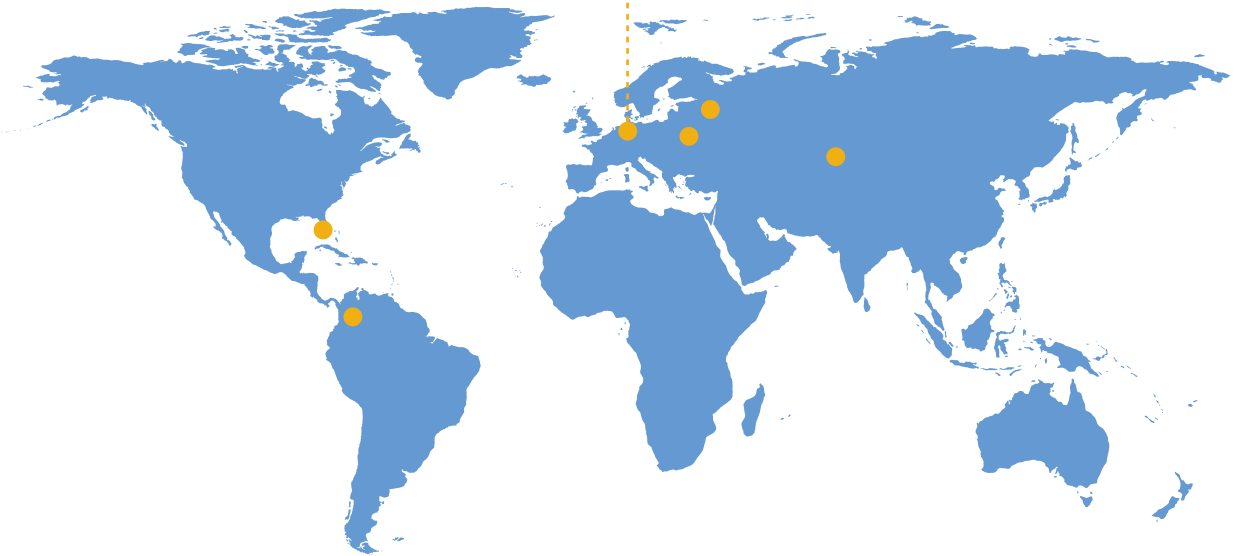
* UAW handpieces 25 kHz, Article no. 97-102, 97-103, 97-104, 97-112 | Bone instrument 35 kHz, Article no. 92-050

Söring: Worldwide



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