

SPINE
SURGERY


Söring
INNOVATIVE SURGERY

Spine surgery with ultrasonic technology
by Söring: **maximum safety thanks to
extreme precision.**



www.soering.com

→ The Söring Precision Instruments: for spine surgery.

The ultrasonic bone instruments by Söring, developed together with leading spine surgeons, captivate through their renowned and high-performance ultrasonic technology plus a growing portfolio of sonotrode tips. This allows the surgeon to choose from a growing selection of sonotrode shapes and lengths and to create the optimum instrument depending on indication, procedure and access. All instruments make it possible to work with extreme precision, guaranteeing that the highly sensitive structures around the spine are maximally preserved.

An overview of the benefits:

- Selective dissection of bones and hard structures
- Preservation of surrounding soft tissue, nerves and vessels
- Greatly reduced danger of damage to dura mater

The ultrasonic handpiece: 92-040 – bone instrument (model Rohidas)

This ultrasonic handpiece is the ideal tool for low-risk removal of bone material from the spine and is especially intended for the endoscopic treatment of spinal stenoses. It allows the controlled removal of excessive bone material in the area of the vertebral body whilst the surrounding soft tissue is preserved. The reasons: the bent shape that doesn't affect the surgeon's view, the robust titanium housing which guarantees longevity, as well as all settings that are stored in the instrument for a quick setup. Many benefits that, combined with the extremely effective aspiration performance, ensure perfect results.



- Completely autoclavable
- Low weight (81 g) for highly comfortable working
- Working length of 102 mm (perfectly suited for endoscopic spine surgery)
- Controlled bone removal
- Effective aspiration performance
- Quick and simple setup
- Ergonomic design

Order informationen: 92-040 bone instrument (model Rohidas)

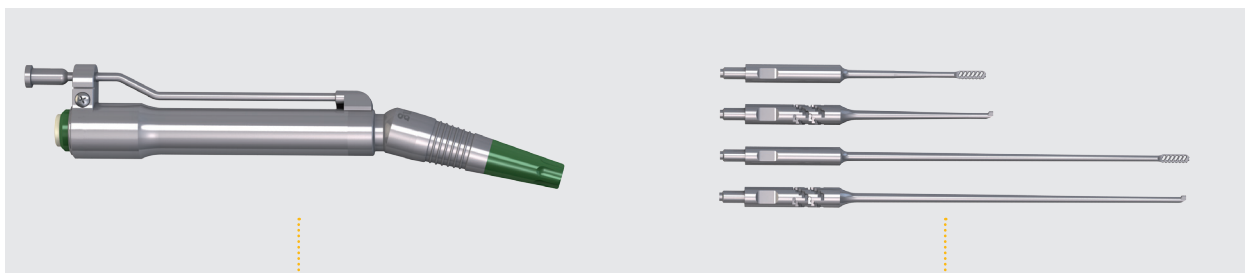
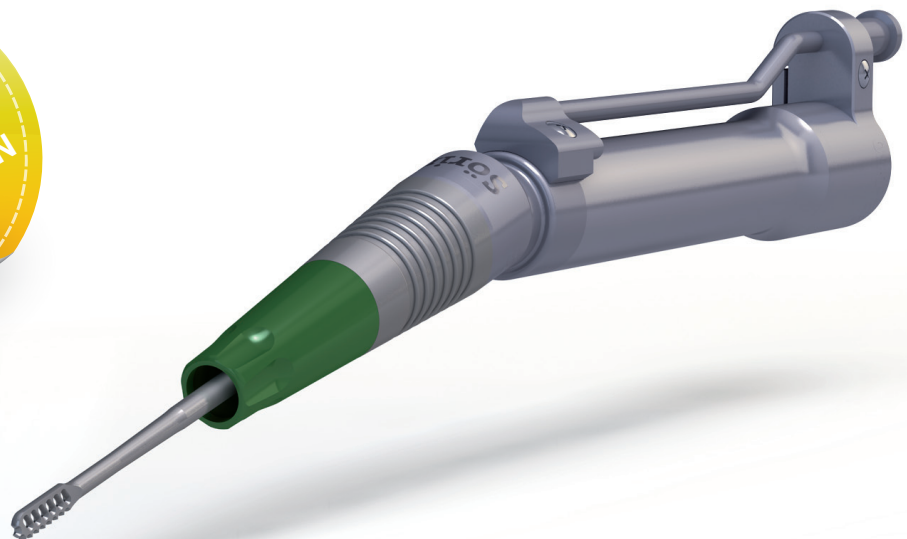
All Söring bone instruments are compatible with: **Sonoca 300, Sonoca 400**

Brief overview		Item no.	Packaging unit
Bone instrument	Bone instrument (model Rohidas), autoclavable	92-040	1
+ Instrument cable	Instrument cable, straight, or instrument cable, angled	240K0095 240K0195	1 1
+ Cover	Disposable cover	612S0052	3
+ Hose set	Disposable hose set, double lumen	700S0316	12

Flexibility by modularity: 92-050 – next generation bone instrument

It stands for the latest generation of ultrasonic bone instruments and the advance of the ultrasonic technology by Söring: the ultrasonic bone dissector for spine and neurosurgery with its continuously growing portfolio of exchangeable, indication adapted disposable sonotrodes. Its areas of use range from laminoplasty to laminectomy to the operative treatment of spinal stenoses. As one might expect from Söring, the disposable sonotrodes can be quickly, easily and intuitively exchanged in operation conditions. Thus allowing the surgeon to work on bones efficiently and at low risk.

- Autoclavable handpiece
- Low weight (82 g) for highly comfortable working
- Ergonomic design
- Efficient and low-risk bone treatment
- Disposable sonotrode
- Sonotrode portfolio
- Quick and simple installation and deinstallation



The combination of handpiece and exchangeable, indication-adapted disposable sonotrodes ensures the ideal tool for every area of application.

Knife sonotrode

- Effective bone breakdown
- Maximum safety
- Vital bone dissection



Short sonotrode

For example for access to the cervical spine

92-050 + 612K0057-SET-10	Bone instrument with knife sonotrode, short
Working length	36 mm
Weight	75 g
Irrigation	Outside
Aspiration	No

Long sonotrode

For example for deeper access to the lumbar spine

92-050 + 612K0058-SET-10	Bone instrument with knife sonotrode, long
Working length	101 mm
Weight	77 g
Irrigation	Outside
Aspiration	No

Rasp sonotrode

- Controlled bone removal
- Highest level of precision
- Efficient



Short sonotrode

For example for access to the cervical spine

92-050 + 612K0060-SET-10	Bone instrument with rasp sonotrode, short
Working length	38 mm
Weight	77 g
Irrigation	Outside/inside
Aspiration	No

Long sonotrode

For example for deeper access to the lumbar spine

92-050 + 612K0061-SET-10	Bone instrument with rasp sonotrode, long
Working length	100 mm
Weight	78 g
Irrigation	Outside/inside
Aspiration	No

Order information: 92-050 next generation bone instrument

All Söring ultrasonic bone instruments are compatible with: **Sonoca 300, Sonoca 400**



Brief overview		Item no.	Packaging unit
Handpiece	Bone handpiece (autoclavable)	92-050	1
+ Instrument cable	Instrument cable, straight, or instrument cable, angled	240K0095 240K0195	1 1
+ Set: Exchangeable sonotrode (short), cover (short) and torque key	Disposable knife sonotrode, short, or disposable rasp sonotrode, short	612K0057-SET-10	10
	Disposable cover, short	612K0060-SET-10	10
or			
+ Set: Exchangeable sonotrode (long), cover (long) and torque key	Disposable knife sonotrode, long, or disposable rasp sonotrode, long	612K0058-SET-10	10
	Disposable cover, long	612K0061-SET-10	10
+ Hose set	Disposable hose set, single lumen	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 MBC 200** is just one of multiple options perfectly suited for use in spine surgery. While the Sonoca 300 is the reliable partner for all ultrasonic bone instruments, the MBC 200 offers the full range of classic monopolar and bipolar high-frequency functions.

An overview of the benefits:

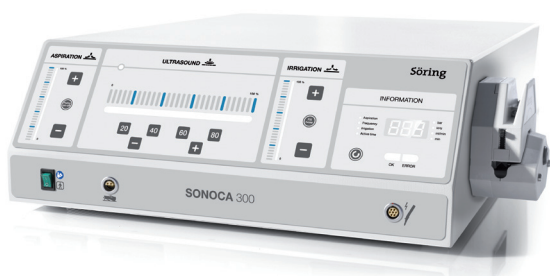
- *Selective dissection of bones and hard structures*
- *Preservation of surrounding soft tissue, nerves and vessels*
- *Greatly reduced danger of damage to dura mater*
- *Classic monopolar and bipolar high-frequency functions for maximum flexibility*

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*



15-000

Sonoca 300

The high-frequency generator: **MBC 200.**

The MBC 200 is the combinable allrounder for many application opportunities of monopolar and bipolar electrosurgery in an especially compact device with up to 200 watt output.

The MBC 200 excels by:

- *Individually adjustable high-frequency modes for various applications*
- *Two ready-to-use instrument connectors for two workstations*
- *Compatible with many monopolar and bipolar instruments with standard 3- or 2-pin plugs*
- *Limited output for safe work even in sensitive areas*



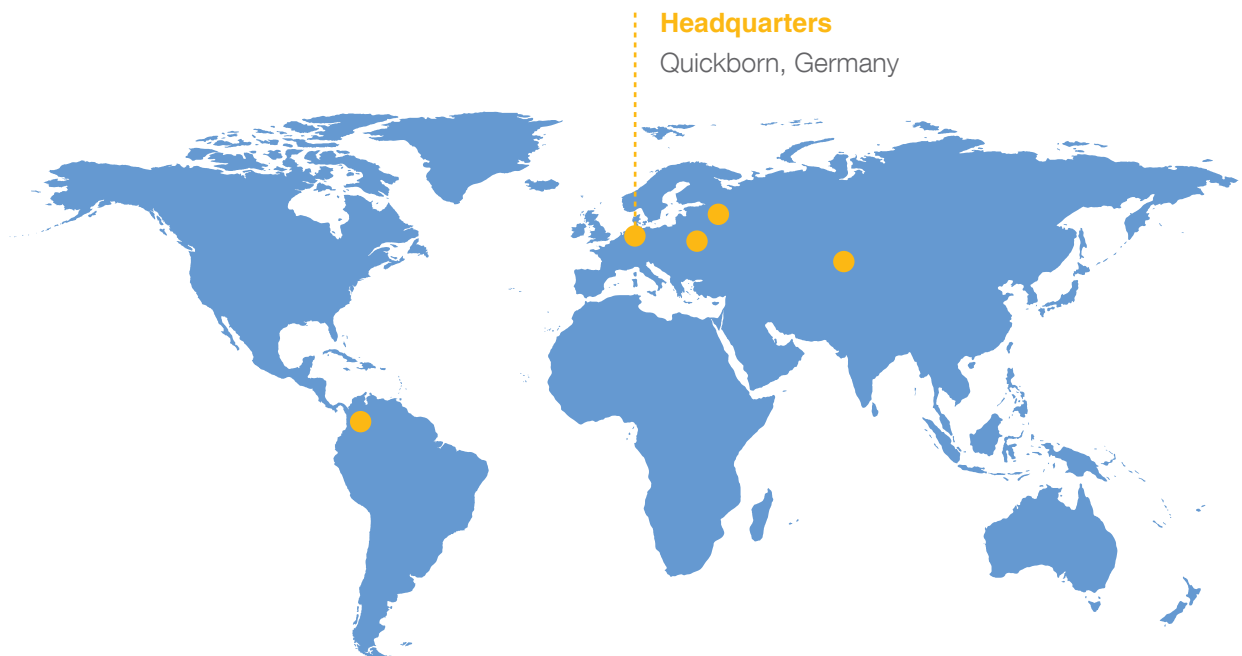
M200-0000

MBC 200



Outstandingly well-suited to spine surgery.

Söring. Worldwide.



Branches

Colombia
Russia
Ukraine
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 (0) 4106-6100-0
Fax: +49 (0) 4106-6100-10
Email: info@soering.com