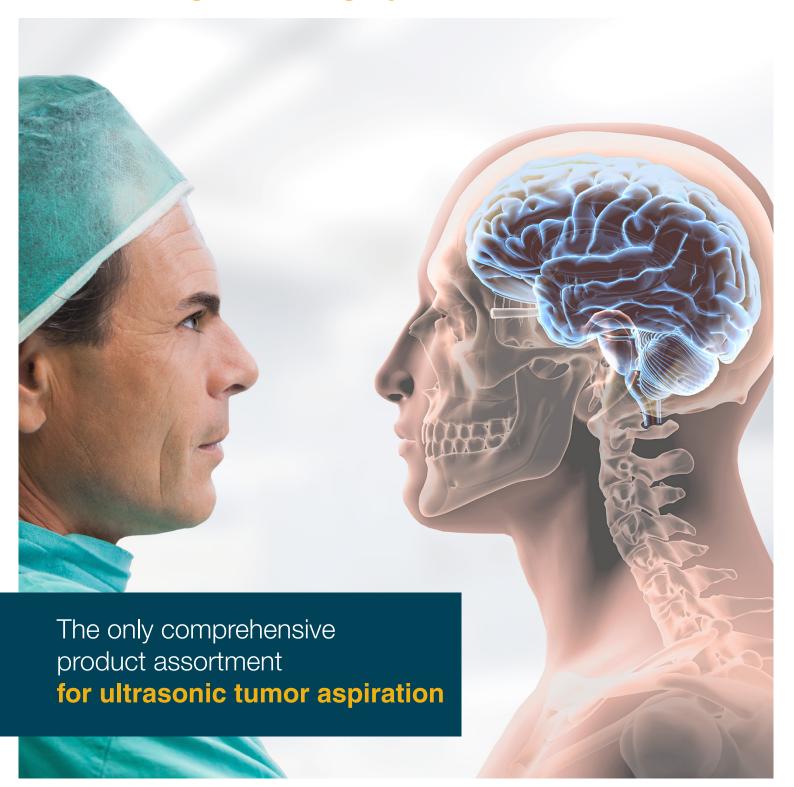
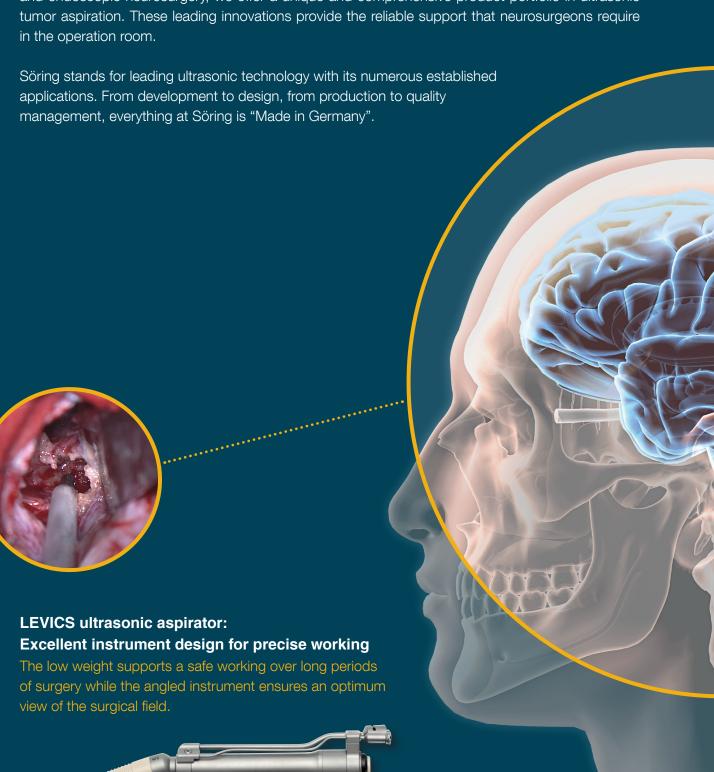


# Ultrasonic tumor aspiration: for leading neurosurgery



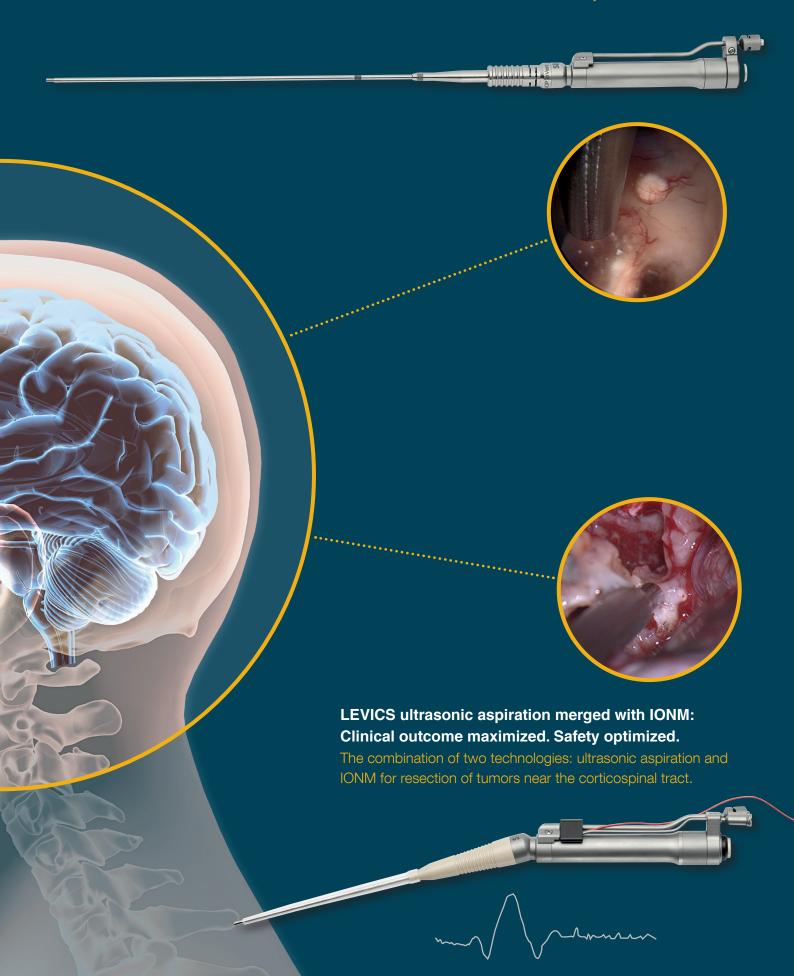
## → The only comprehensive product assortment: for ultrasonic tumor aspiration

Enabling advanced surgical techniques for leading neurosurgery, Söring focuses on the continuous development of medical devices. Through intensive global collaborations with leading neurosurgeons, we enable optimized work efficiency while improving patient safety. Specializing in the microscopic and endoscopic neurosurgery, we offer a unique and comprehensive product portfolio in ultrasonic tumor aspiration. These leading innovations provide the reliable support that neurosurgeons require in the operation room.



## **ENP Endoscopic Micro instrument: Advanced neuroendoscopy with ultrasonic aspiration**

The world's only endoscopic ultrasonic aspirator for the unique resection of intraventricular tumors and cysts.



## LEVICS ultrasonic aspirator: excellent instrument design for precise working

The resection of intracranial and spinal tumors requires an accurate proceeding to preserve the surrounding structures as much as possible. The neurosurgical LEVICS Micro instrument from Söring has been specially developed for this challenge and is therefore characterized by its excellent design. With its working frequency of 35 kHz, it fragments tumors of different consistencies precisely and effectively.

### LEVICS excellent instrument design for precise working

- fragments tumors of different consistencies precisely and effectively
- well balanced and lightweight instrument supports a safe working over long periods of surgery
- filigree and angled shape of the instrument body ensures an optimum view of the surgical field
- using the intuitive torque wrench, the sonotrode can be mounted rapidly and easily without any additional tools



#### LEVICS enhanced sonotrode assortment

- broad range of sonotrodes with different lengths, diameters and tip geometries
- · excellent visibility minimal spray formation
- minimal adhesion and sticking to tissue

### \_\_NEW



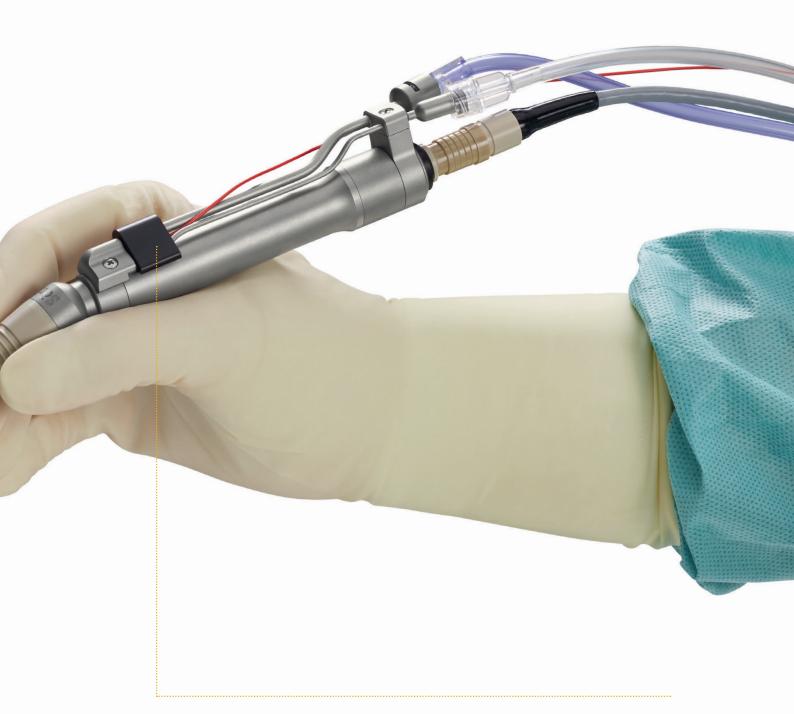
LEVICS standard sonotrodes, available in working lengths 36 mm, 98 mm and 108 mm



LEVICS beveled sonotrodes, available in working lengths 37 mm and 98 mm



LEVICS notched sonotrodes, available in working lengths 37 mm and 97 mm



### **LEVICS ultrasonic aspiration merged with IONM**

- higher accuracy of mapping<sup>1</sup> the tissue is stimulated right at the place of resection
- safer resection process<sup>1</sup> continuous acoustic feedback is given regarding the distance of the corticospinal tract.
- simplified intraoperative ergonomics<sup>1</sup> stimulation and resection is performed with only one device<sup>2</sup>



<sup>&</sup>lt;sup>7</sup> are associated with dynamic continuous mapping by inomed as stated in the information material: Dynamic mapping of the corticospinal tract: instrument choice, D030166 EN

<sup>&</sup>lt;sup>2</sup> illustrated connection clip set is an optional product of ionmed GmbH, Emmendingen

## ENP Endoscopic Micro instrument: advanced neuroendoscopy with ultrasonic aspiration

When removing intra- and paraventricular tumors and cysts, a minimally invasive approach may be the preferred option. Söring supports this surgical technique by providing the endoscopic Micro instrument ENP, the world's only endoscopic ultrasonic aspirator.



#### Endoscopic ultrasonic technique:

- resection simply via a neuroendoscopic approach
- fast resection by simultaneous fragmentation and aspiration of tissue <sup>3</sup>
- clear visibility due to continuous irrigation flow <sup>4</sup>
- also efficient for firmer tumor tissue 5,6

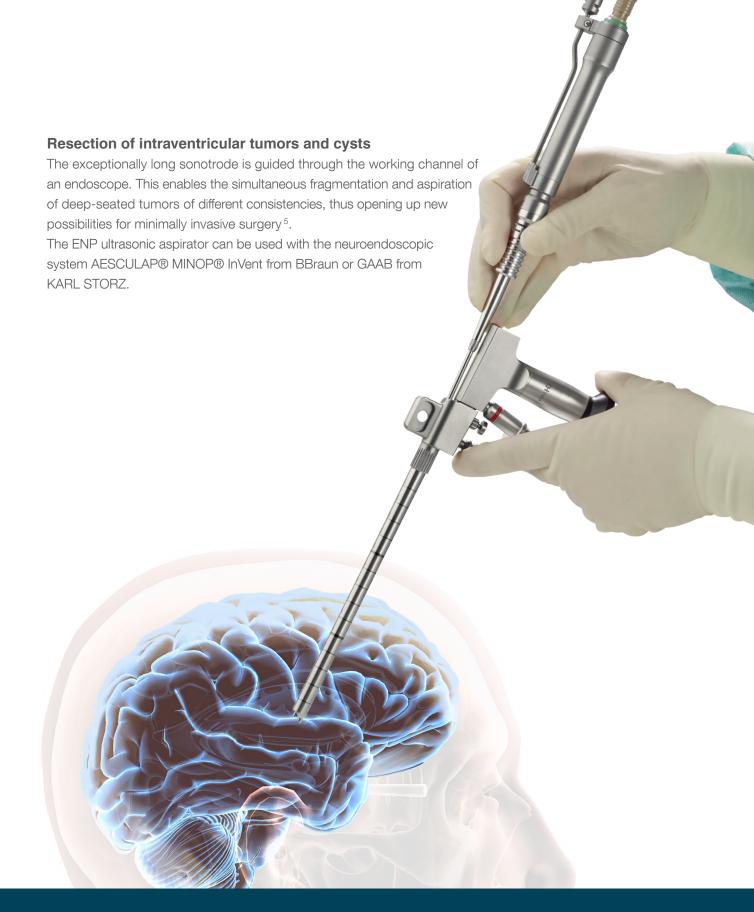


"The endoscopic ultrasonic aspiration with the Micro instrument ENP is a safe and reliable technique for extensive decompression or complete removal of intra- and paraventricular lesions."

Prof. Giuseppe Cinalli, Head of the Department of Neurosciences and Head of the Division of Pediatric Neurosurgery, Santobono-Pausilipon Children's Hospital, Naples, Italy

<sup>&</sup>lt;sup>3</sup> related to a standard neuroendoscopic approach

<sup>&</sup>lt;sup>4</sup> inflow via the endoscopic system, outflow via ultrasonic aspirator



"The ultrasonic aspirator allows a minimally invasive surgical resection of intra-/ paraventricular tumors. Especially in case of limited vascularized tumors, we are able to reduce the operation and anaesthesia time."

Prof. Dr. med. Ulrich W. Thomale, Head of Paediatric Neurosurgery, Charité Universitaetsmedizin Berlin, Germany

### At a glance: LEVICS product overview





Article no. 92-501

**LEVICS** torque wrench

Article no. 616K0006 **LEVICS** instrument tray

Article no. 616S0100

**Double tubing** 

Article no. 700S0316

Delivery | Reprocessing sterile | single-use

LEVICS sonotrode and flue, standard

Article no. 616K0053 616K0051 616K0052 Working length sonotrode 36 mm 98 mm 108 mm External Ø | Internal Ø of the sonotrode 2.0 mm | 1.4 mm 2.0 mm | 1.4 mm 2.3 mm | 1.7 mm Delivery | Reprocessing sterile | single-use sterile | single-use sterile | single-use

LEVICS sonotrode and flue, notched

Article no. 616K0055 616K0054

Working length sonotrode 37 mm 98 mm

External Ø | Internal Ø of the sonotrode 1.9 mm | 1.4 mm 2.0 mm | 1.4 mm

Delivery | Reprocessing sterile | single-use sterile | single-use

LEVICS sonotrode and flue, beveled

Article no. 616K0057 616K0056

Working length sonotrode 37 mm 97 mm

External Ø | Internal Ø of the sonotrode 1.9 mm | 1.4 mm 2.0 mm | 1.4 mm

Delivery | Reprocessing sterile | single-use sterile | single-use

Bundle: Micro Instrument ENP for MINOP® InVent (consisting of the following items below)

Order no. 92-030-MINOP-INVENT

Micro instrument ENP

Guide tube 92-030 for MINOP® InVent

Article no. 92-030 Article no. 616K0093

→ Söring GmbH

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