
sonicmed

Ultrasonic Debridement (USI1001)

Product Description

Developed specifically for debridement of chronic wounds, post-operative infected wounds and chronic ulcers. It precisely removes necrotic tissue and biofilm through the cavitation effect of low-frequency ultrasound, preserves healthy granulation tissue, promotes wound healing, and meets the requirements of debridement procedures in outpatient and operating room settings.

Standard Configuration

Component Name	Component Description	Picture
Console	Ultrasonic energy control main unit	
Debridement Operating Handpiece	Ultrasonic energy output execution component	
Debridement Tip	Special working tip for debridement procedures	
Torque Wrench	For tip installation and disassembly	

Ultrasonic Debridement (USI1001)

Component Name	Component Description	Picture
Foot Switch	Non-contact energy control device for operators	
Single Tube	Irrigation fluid pathway component	
Power Cord	System power supply component	
Fuse	Circuit safety protection component	

Ultrasonic Debridement Tips

DT33AN84 DT33BN84 DT33CN84 DT33DN84






Tip Name	Picture	Specification
Circular Open Debridement Tip: DT33CN84		Wedge-shape: bevelled design, can be easily adapted to various shapes of wounds, suitable for deeper, more complex wound debridement.
Spherical Nerve Debridement Tip: DT33BN84		Cylindrical-shape: enhances ultrasonic cavitation for heavily infected wounds or deeper wounds.
Cylindrical Infection Debridement Tip: DT33AN84		Ring-shape: for large area debridement, suitable for fresh large wounds or cleaner open wounds.
Rectangular Burn Debridement Tip: DT33DN84		Rectangular-shape: for more efficient debridement and rapid debridement of larger areas, suitable for large wounds, such as burn wounds.

Ultrasonic Aspirator (USI1003)

The USI1003 ultrasonic aspirator system is a precision surgical device developed for microsurgery and minimally invasive procedures in neurosurgery. Leveraging the physical properties of ultrasonic vibration, it achieves selective fragmentation and aspiration of target tissue while preserving adjacent vital nerves and blood vessels, effectively preventing accidental injury, reducing intraoperative blood loss, shortening operative time, and lowering the risk of post-operative complications.

Key technical advantages for neurosurgery:

1. Selective tissue fragmentation: Based on the difference in ultrasonic re sponse of different tissue densities, it can efficiently fragment and aspirat e tumor and lesion tissue while effectively protecting healthy brain tissue, blood vessels and nerve structures, which is especially suitable for operat ions in proximity to critical functional areas.

2. Modular multi-tip compatibility: The system supports a full range of in terchangeable handpieces and tips, providing customized modular solutio ns for different neurosurgical procedures including meningioma resection, glioma dissection, internal auditory canal grinding, and skull base lesion t reatment.

Ultrasonic Aspirator (USI1003)

3. Integrated three-function design: It integrates three core functions o f ultrasonic fragmentation, perfusion flushing and suction emulsificati on in one system, eliminating the need to switch between multiple dev ices during surgery, keeping the surgical field clear and the procedure continuous, improving the overall operation efficiency.

•This system has been widely verified in clinical practice for various neurosurgical procedures, providing surgeons with a controllable, safe and efficient intraoperative tissue processing solution that meets the cl inical requirements of precision neurosurgery.

Standard Configuration

Category	Component Name	Remarks	Picture
Core Host	Console	LED, touchable screen.	
Operating Components	Aspiration Handpiece	Compatible with aspirator tips	
	Aspirator Tips	Different types for open, UBE and MIS surgery	
Aspiration Pipeline System	Negative Pressure Aspiration Tube	Disposable sterile package	
	Anti-back Filter	Safeguard	
	Double Pipeline	Support simultaneous access to perfusion and aspiration	

Ultrasonic Aspirator (USI1003)

Category	Component Name	Remarks	Picture
Control Components	Foot Switch	Double pedal design, adjustable activation sensitivity	
Waste Collection System	Waste Liquid Bottle	2L capacity	
Accessory Kit	Power Cord	Compatible with local voltage standards	
	Fuse	Spare for host maintenance	
	Cleaning Rod	For tip handpiece cleaning	
	Torque Wrench	For tip installation and disassembly	

Ultrasonic Bone Cutter and Drill (USI1004)

Product Description

Adopting 40kHz precise ultrasonic energy output, it achieves precise cutting and drilling of bone tissue, causes minimal thermal and mechanical damage to surrounding soft tissue, and meets the requirements of bone surgery in spinal surgery, neurosurgery, oral and maxillofacial surgery, and plastic surgery.

Standard Configuration

Component Name	Component Description	Picture
Console	40kHz ultrasonic energy control main unit	
40kHz Ultrasonic Bone Cutting Handpiece	Execution component for ultrasonic bone cutting energy output	
40kHz Ultrasonic Bone Drilling Handpiece	Execution component for ultrasonic bone drilling energy output	
Bone Cutting Tip	Standard bone cutting working tip	
Bone Drilling Tip	Special working tip for bone drilling	

Ultrasonic Bone Cutter and Drill (USI1004)

Component Name	Component Description	Picture
Torque Wrench	Instrument assembly and calibration tool	
Foot Switch	Non-contact energy control device for operators	
Single Tube	Irrigation fluid pathway component	
Power Cord	System power supply component	
Fuse	Circuit safety protection component	

Ultrasonic Bone Cutter, Drill and Aspirator (USI1005)

Product Description

Integrates 40kHz ultrasonic bone cutting/drilling function and 30kHz ultrasonic aspiration function. It can simultaneously aspirate bone deb ris and intraoperative waste liquid while cutting bone tissue, keeps the surgical field clear, reduces intraoperative contamination, and meets t he requirements of complex orthopedic and neurosurgery procedures, improving operation efficiency compared with traditional split system s.

Standard Configuration

Component Name	Component Description	Picture
Console	Integrated main unit for multi-modal ultrasonic energy and negative pressure control	
40kHz Ultrasonic Bone Cutting Handpiece	Execution component for ultrasonic bone cutting energy output	
40kHz Ultrasonic Bone Drilling Handpiece	Execution component for ultrasonic bone drilling energy output	
Ultrasonic Aspiration Operating Handpiece	Execution component for ultrasonic aspiration energy output	

Ultrasonic Bone Cutter, Drill and Aspirator (USI1005)

Component Name	Component Description	Picture
Bone Cutting Tip	Standard bone cutting working tip	
Bone Drill Tip	Special working tip for bone drilling	
Aspirator Tips	Special working tip for ultrasonic aspiration	
Torque Wrench	Instrument assembly and calibration tool	
Anti-back Filter	Anti-contamination protection component for waste liquid pathway	
Single Tube	Irrigation fluid pathway component	
Double Tube	Dual-path irrigation/aspiration component	
Negative Pressure Aspiration Tube	Disposable sterile package	
Waste Liquid Bottle	2L capacity, Intraoperative waste liquid storage container	

Ultrasonic Bone Cutter, Drill and Aspirator (USI1005)

Component Name	Component Description	Picture
Torque Wrench	Instrument assembly and calibration tool	
Foot Switch	Non-contact energy control device for operators	
Power Cord	System power supply component	
Fuse	Circuit safety protection component	

Ultrasonic Hemostatic Shears (UCHP1008)

Product Description

Achieves integrated soft tissue cutting and coagulation through ultr asonic energy, with minimal smoke, clear surgical field, reliable he mostatic effect, suitable for general surgery, plastic surgery, thyroid and breast surgery.

Standard Configuration

Component Name	Component Description	Picture
Main Unit	Ultrasonic energy control main unit	
Hemostatic Shears Operating Handpiece	Ultrasonic energy output execution component	
Working Tip	Scissor-type working tip for different scenarios	
Foot Switch	Non-contact energy control device for operators	
Fuse	Circuit safety protection component	
Power Cord	System power supply component	

Integrated Ultrasonic-Bipolar Energy Device (BUC2000)

Product Description

This product is an integrated surgical cutting and hemostatic device combining ultrasonic energy and bipolar electrocoagulation energy. It combines the advantages of precise soft tissue cutting with ultrasound and reliable large vessel closure with bipolar energy, can reliably close large vessels with diameter ≥7mm, meets the requirements of various surgeries including general surgery, gastrointestinal surgery and urology, reduces iatrogenic injury and shortens operation time.

Standard Configuration

Component Name	Component Description	Picture
Main Unit	Integrated control main unit for ultrasonic + bipolar energy	
Integrated Operating Handpiece	Dual energy output execution component	
Working Tip	Scissor-type working tip for different scenarios	
Foot Switch	Non-contact energy control device for operators	
Power Cord	System power supply component	
Fuse	Circuit safety protection component	

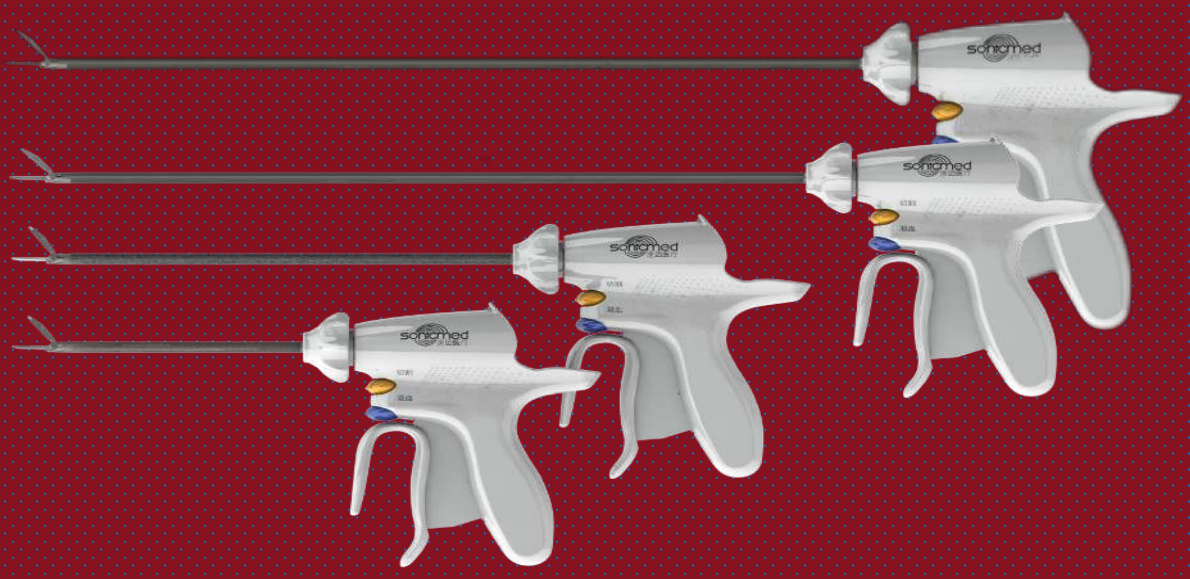
Hemostatic Shear Tip Specification

Model	Effective Working Length	Indicated Surgical Scenarios
BHT5G45-C	45cm	Open surgery for obese patients
BHT5G36-C	36cm	Laparoscopic/endoscopic minimally invasive surgery
BHT5G23-C	23cm	Routine open surgery
BHT5G14-C	14cm	Superficial surgery for thyroid and breast

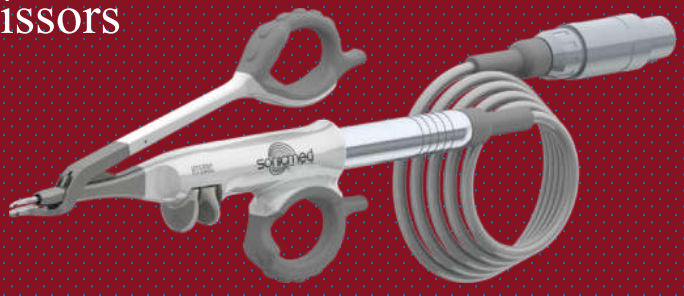


Integrated Ultrasonic-Bipolar Energy Device Shear

Model： BT5G45-C (45cm), BT5G36-C (36cm), BT5G23-C (23cm), BT5G14-C (14cm)



Thyroid scissors



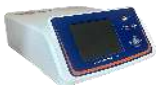
SONICSLM
（USID1003-6F）

Product Description

This product is an ultrasound-assisted liposculpture surgical instrument. It emulsifies adipose tissue with precise ultrasound, reduces damage to surrounding blood vessels and nerves, lowers intraoperative blood loss and post-operative bruising/swelling risk, meets the requirements of lip osuction contouring and pre-transplant processing of adipose tissue for all body areas. The system can match different tip specifications based on target adipose volume and operation site, selection only refers to adi pose volume and surgical site, no gender distinction required.

SONICSLM
（USID1003-6F）

Standard Configuration

Component Name	Component Description	Picture
Main Unit	Integrated control main unit for ultrasonic + bipolar energy	
Integrated Operating Handpiece	Dual energy output execution component	
Working Tip	Scissor-type working tip for different scenarios	
Foot Switch	Non-contact energy control device for operators	
Power Cord	System power supply component	
Fuse	Circuit safety protection component	

Tip Specifications

Component Name	Component Description	Picture
AT13SS11L AT23SN11L	Shoulder and neck	
AT33SX11L	Lower extremities	
AT43SX11L	Abdominal cavity, special sites for severe obesity	

SONICMED Dual-Active (USID)

Product Description

This modular dual-active ultrasonic surgical console supports connectio n of multiple types of ultrasonic surgical instruments, is compatible wit h the full range of SONICMED ultrasonic surgical handpieces, and sup ports simultaneous output from dual interfaces. One console covers mul tiple surgical functions including debridement, aspiration, bone cutting and hemostasis, reduces operating room equipment configuration cost, a nd meets the requirements of complex composite surgical scenarios.

Compatible Handpiece Types

Bone cutting handpiece, bone drilling handpiece, ultrasonic aspiratio n handpiece, debridement handpiece, hemostatic shears handpiece, th yroid shears handpiece



SONICMED Dual-Active (USID)

Standard Configuration

Component Name	Component Description	Picture
Main Unit	Modular dual-active ultrasonic energy control main unit	
Foot Switch	Non-contact energy control device for operators	
Power Cord	System power supply component	
Fuse	Circuit safety protection component	