cusa nxt™

Ultrasonic Tissue Ablation System

Touch the Next Wave

CUSA NXT™

The CUSA NXT Ultrasonic Tissue Ablation System was designed to enable surgeons and nurses to focus on patient care rather than worrying about operation of the surgical equipment. The easy-to-use system features revolutionary NXT Digital Architecture™, supports current CUSA Selector® handpieces, and provides an expandable platform enabling exciting future handpiece capabilities. The touch screen user interface is easy to understand, provides rich visual feedback, and gives clinicians quick access to general system information.

The Next Wave in Ultrasonic Aspirator Technology

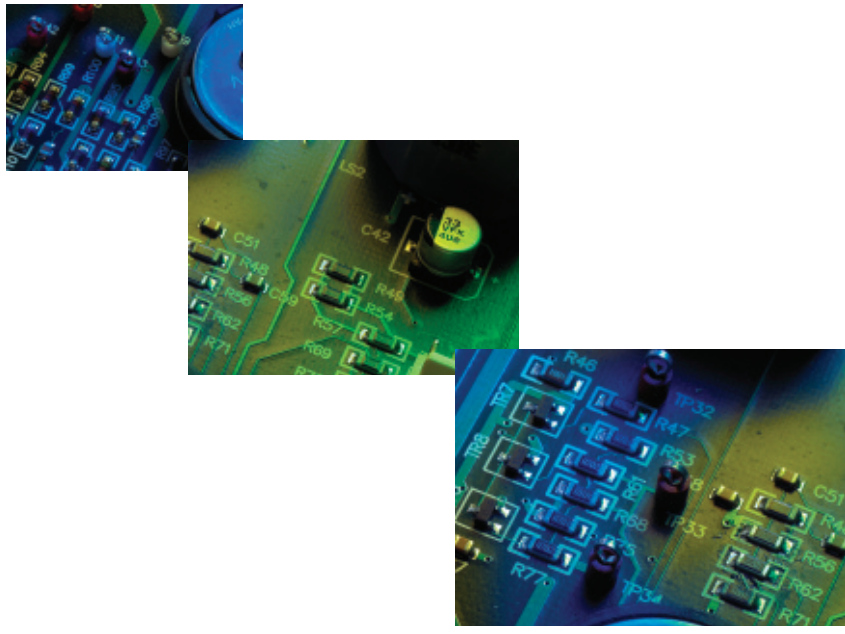
The CUSA NXT System features NXT Digital Architecture™, an advanced digital control system. This proprietary ultrasonic power circuitry ensures consistent performance, giving surgeons procedural control and peace of mind. NXT Digital Architecture is scalable and ready to support future applications. As new features and procedure-specific tips and handpieces are developed, system software can be readily upgraded to support and integrate these new capabilities.

NXT Digital Architecture

- Optimizes the frequency delivered to each tip, maximizing the power needed for tissue fragmentation while ensuring the tactile feedback required when working near critical structures.
- Enables a simple user interface with a clear summary of system settings and graphic, step-by-step instructions.
- Allows real-time monitoring of the tip and handpiece, enabling the immediate detection of malfunctions and identification of potential solutions.

Intraoperative MRI

The CUSA NXT System is designed for use in suites with intraoperative Magnetic Resonance Imaging equipment. The RapidRestore™ feature returns the CUSA NXT to its most recent system settings when powered on after imaging.



Power. Precision. Control.

The CUSA NXT Ultrasonic Tissue Ablation System gives surgeons the power, precision, and control needed for selective dissection of soft or hard tissue. The ultrasonically vibrating tip on the CUSA Selector handpiece impacts the tissue, fragmenting targeted cells, which are then aspirated through the lumen of the ultrasonic tip. Different tissue types respond differently to the ultrasonic energy. Rigid, high water content tissues are ablated more readily than are more elastic, collagen-rich tissues. This ability to selectively fragment targeted tissue while minimally affecting elastic structures, such as nerves and blood vessels, can help lead to more complete removal of the targeted tissue.

Ergonomic Handpiece Design

The CUSA NXT System incorporates Integra's powerful and versatile CUSA Selector handpieces. CUSA Selector handpieces come in various configurations, offering the ability to optimize tip visualization in a variety of surgical procedures and allowing the surgeon to operate with confidence during procedures requiring the removal of a variety of tissue types.

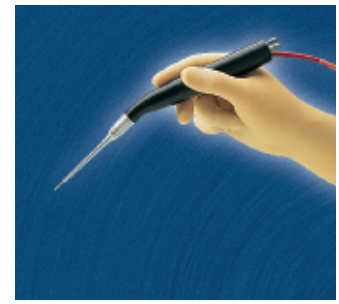
Soft Tissue Applications

CUSA Selector 35 kHz handpieces are a perfect solution for softer cranial tumor removal. The higher frequency produces lower power and allows for more controlled and precise dissection. This control is critical when removing tissue around or near critical structures.

The 35 kHz Handpiece is designed for applications requiring lower power and greater precision.

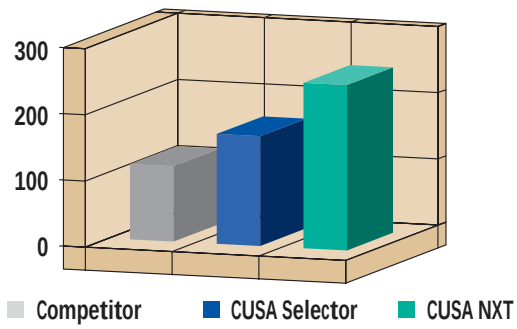
Hard Tissue Applications

CUSA Selector 24 kHz handpieces are efficient in the removal of hard tissue. The power provided by 24 kHz frequency handpieces can be helpful when tissue is calcified or dense. It is also designed for bone cutting applications.



The 24 kHz Neurosurgical Short Handpiece is designed for applications requiring higher power such as bone cutting.

Maximum Suction Power



Advanced On-Board Aspiration Control

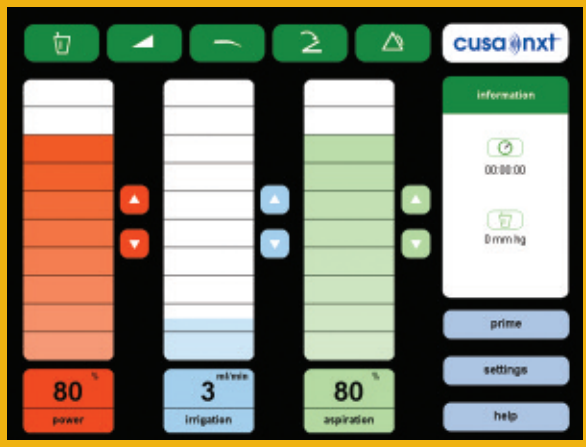
NXT Digital Architecture delivers advanced control of the CUSA NXT aspiration system. With improved monitoring of system functions, it provides:

- 50% more suction power than previous CUSA Selector systems improving fragmentation by drawing the tissue to the tip
- More consistent aspiration control at all settings
- Improved handpiece cooling

Intuitive Touch Screen User Interface

The CUSA NXT System's medical grade touch screen monitor enables intuitive parameter adjustments and easy access to system information. System set-up, handpiece set-up, and troubleshooting information are described in a convenient step-by-step on-screen help program, saving valuable time in the operating room.

Touch Screen Monitor



- Crisp graphics display system information and problem resolution suggestions.
- Touch screen control simplifies adjustment of power, irrigation , and aspiration settings.
- Familiar function layout simplifies transition for current CUSA Selector System users.

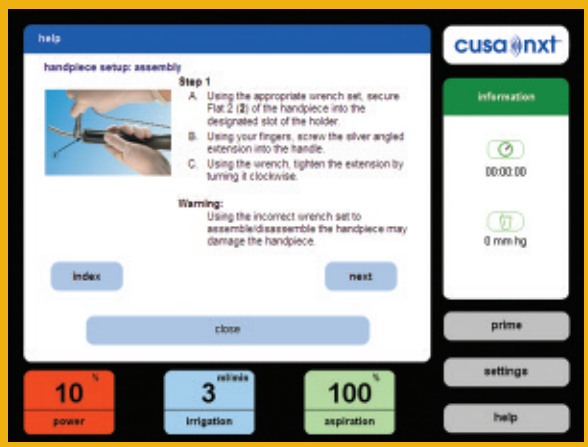
Custom Presets

- Custom presets save set-up time by storing the most frequently used power, irrigation, and aspiration settings.

Linear Control of Power and Irrigation

The linear action foot switch gives the surgeon direct control over the amount of ultrasonic power delivered by the handpiece. Activation of the power pedal delivers a proportional increase in ultrasonic power, up to the maximum level selected on the CUSA NXT Console. The separate irrigation pedal controls irrigation flow rate, useful when a bolus of fluid is required. Ergonomic design makes the foot switch easy to use from a variety of angles.

Graphic System Support



- Step-by-step visual instructions ensure quick, confident system set-up.
- Handpiece sterilization and assembly instructions and additional reference materials are easily available if needed.

Integrated Troubleshooting

- When a problem is detected, the CUSA NXT System immediately suggests potential solutions.
- More detailed troubleshooting instructions are available through the system's Help menu.

Mobile, Modular Design

The CUSA NXT System is compact and portable. It can be easily moved between operating rooms and set up in just a few minutes. When used with the service module, performance is optimized by the service module's powerful on-board suction.

The console can also be used with wall suction, which is especially helpful in smaller operating rooms where space is at a premium.

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Unrivaled Service and Support

The CUSA NXT System is manufactured and supported by Integra–the ultrasonic tissue ablation market leader. Backed by dependable, knowledgeable product specialists and a technical support team that is available 24 hours a day, you can be confident that your CUSA NXT System will be ready when you need it.

Reliable telephone support, a team of field service technicians, and loaner systems are available should you need them. A variety of extended service agreement options are also offered to protect your investment beyond the warranty period, giving you confidence that your system will receive regular preventative maintenance and any needed repairs on a priority basis.

	Part Number	Description	Specifications (H x W x D/Wgt.)
	CUSANXT	CUSA NXT Console, 120v	31.8 cm x 45.7 cm x 58.9 cm/ 20.9 kg 12.5 in. x 18 in. x 23.2 in./46 lbs
	CUSANXT1	CUSA NXT Service Module, 120v	86.1 cm x 50.3 cm x 72.6 cm /45.4 kg 33.9 in. x 19.8 in. x 28.6 in./100 lbs

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