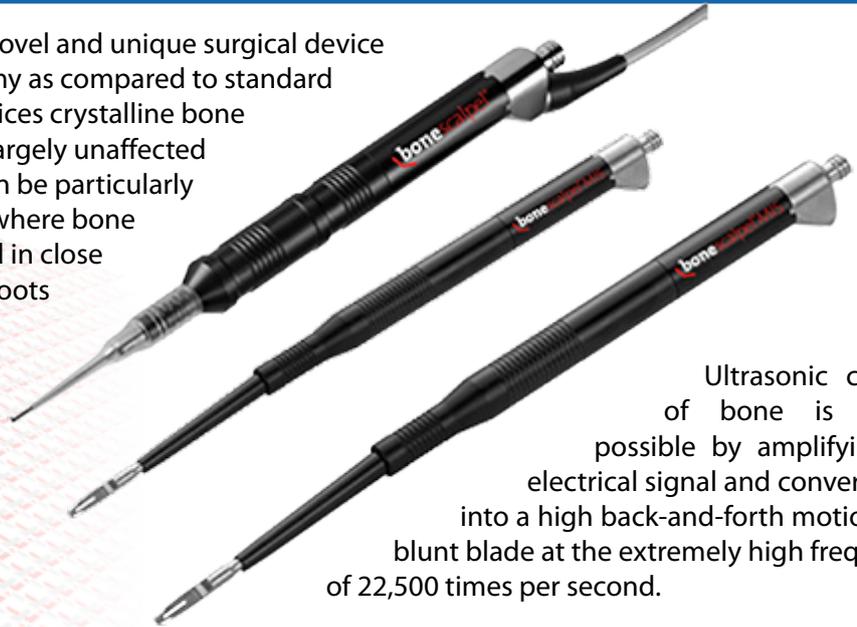


The Misonix BoneScalpel® is a novel and unique surgical device in that it offers a gentler osteotomy as compared to standard bone cutting tools. It efficiently slices crystalline bone while leaving elastic soft tissues largely unaffected during incidental contact. This can be particularly important during spinal surgery where bone segments are frequently removed in close vicinity to the spinal cord, nerve roots and major arteries.



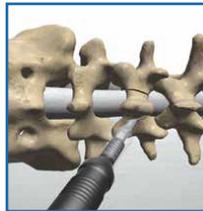
Ultrasonic cutting of bone is made possible by amplifying an electrical signal and converting it into a high back-and-forth motion of a blunt blade at the extremely high frequency of 22,500 times per second.

Ultrasonic Bone Removal

Controlled Cutting • Improved Efficiencies • Reduced Bleeding • Soft Tissue Sparing

Controlled Cutting

- Non-abrasive, controlled cutting
- Reach more anatomical structures
- Versatile product configurations
- Enhances cooling of surgical site
- Tactile feedback through cortical & cancellous bone
- Thin geometry allowing bone preservation
- Repeatable and predictable experience
- Eliminates chatter, skipping, or walking



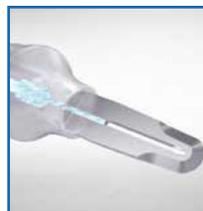
Improved Efficiencies

- Non-abrasive, controlled cutting
- Efficient cooling of surgical site
- Reduced time vs. conventional methods
- Reduced blood loss
- Direct visualization vs. blind cutting
- Access through tubular retractors
- Universal tip geometry for multifunctional use
- Minimizes hand fatigue vs. conventional methods
- Micro-reciprocating movement



Reduced Bleeding

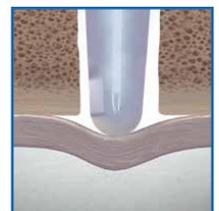
- Integrated, continuous irrigation
- Proprietary fluid pathway design
- Creates a tamponed effect
- Significantly less bleeding compared to standard methods¹



¹ Blood Loss Reduced During Surgical Correction of AIS with an Ultrasonic BoneScalpel – Peter O. Newton, MD. 20th International Meeting on Advanced Spine Techniques (IMAST), Vancouver, Canada, July 2013.

Soft Tissue Sparing

- Minimal soft tissue interaction
- Preservation of non-targeted tissues
- Absence of tissue wrapping
- Differentiates tissue types



For further information, or to arrange a demo, please contact any member of our sales team at:
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