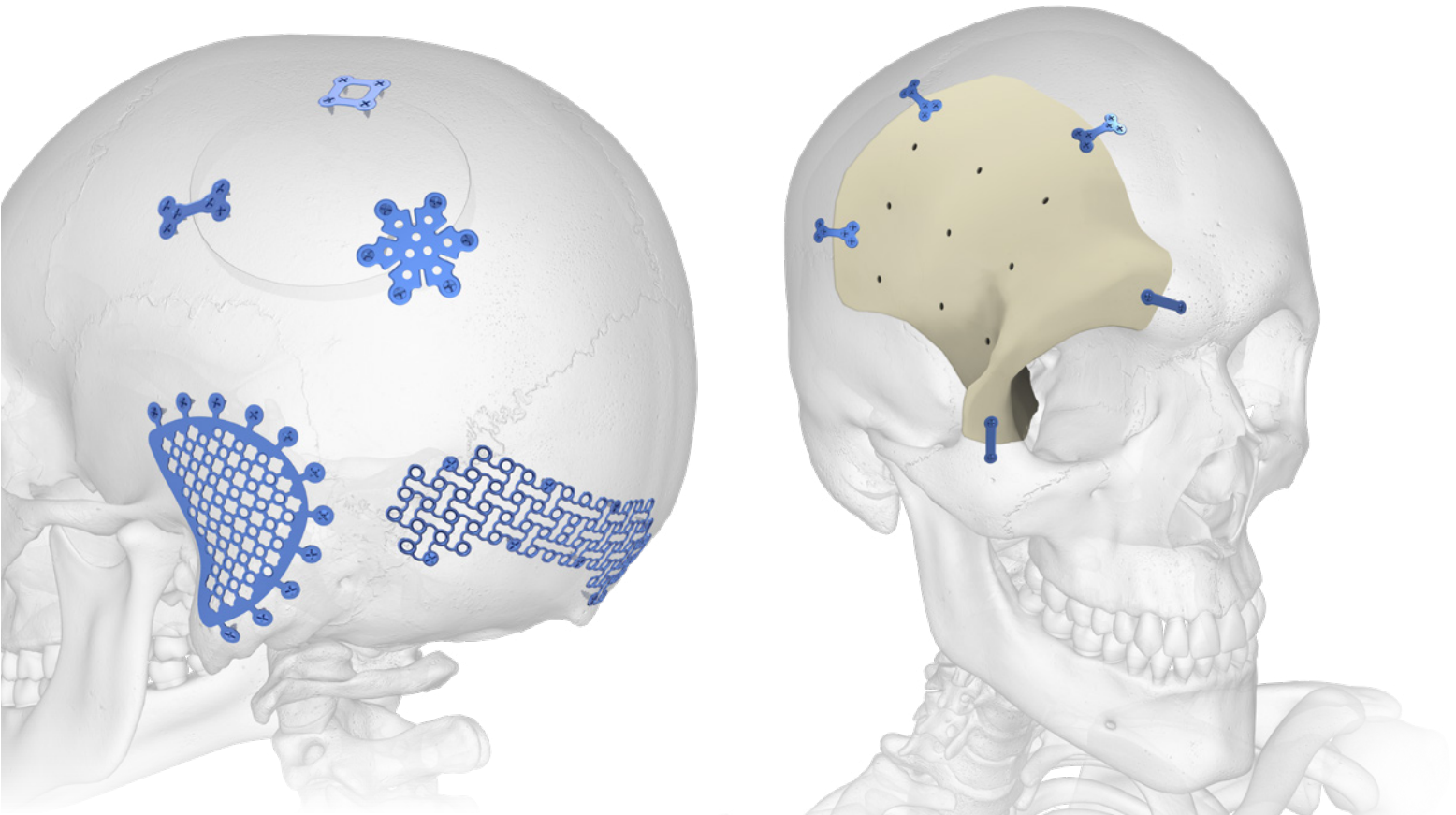
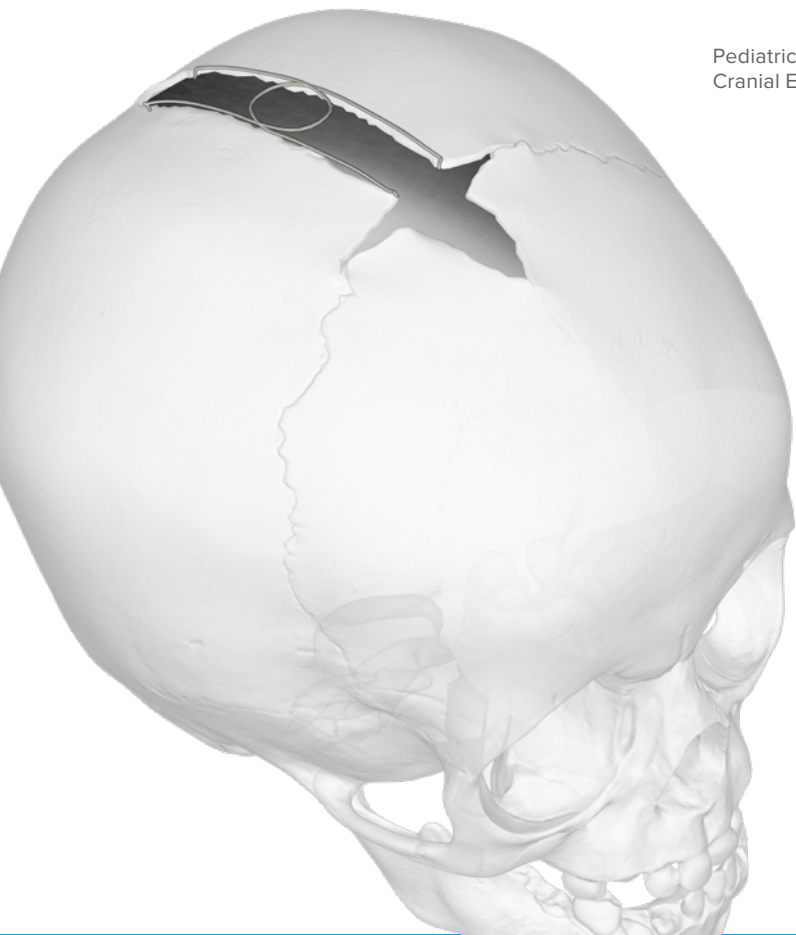
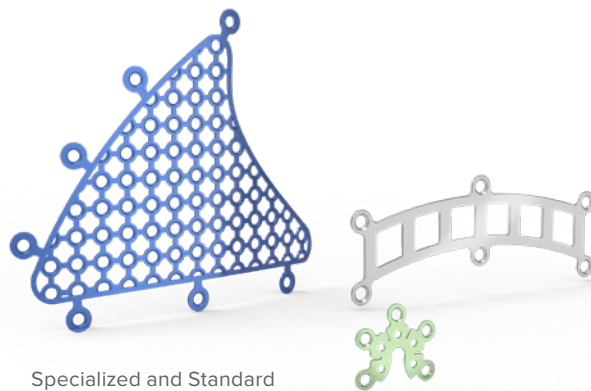


Comprehensive Neurosurgical Solutions





Pediatric
Cranial Expander



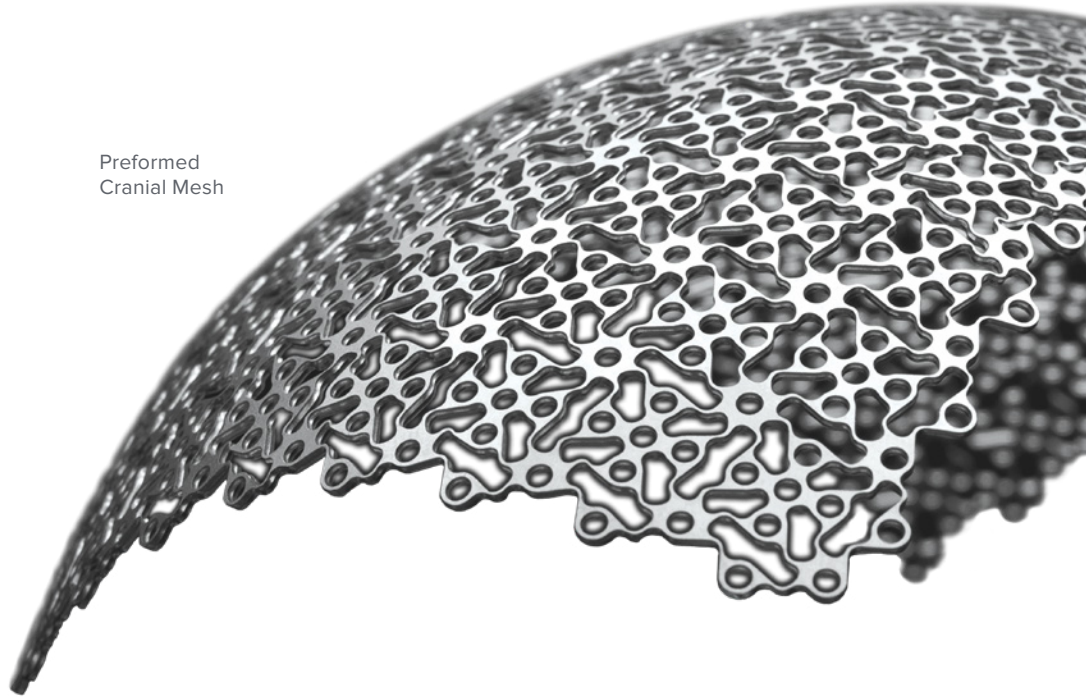
Specialized and Standard
Neurosurgical Plates

For more information, visit
go.acumed.net/Neurosurgery



Comprehensive Neurosurgical Solutions

Preformed
Cranial Mesh



Auto-Drive®
Screws

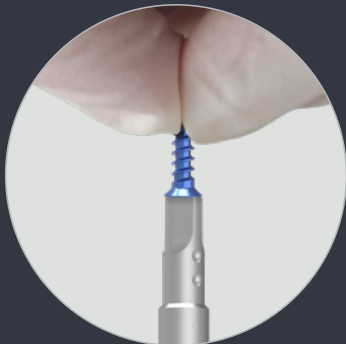
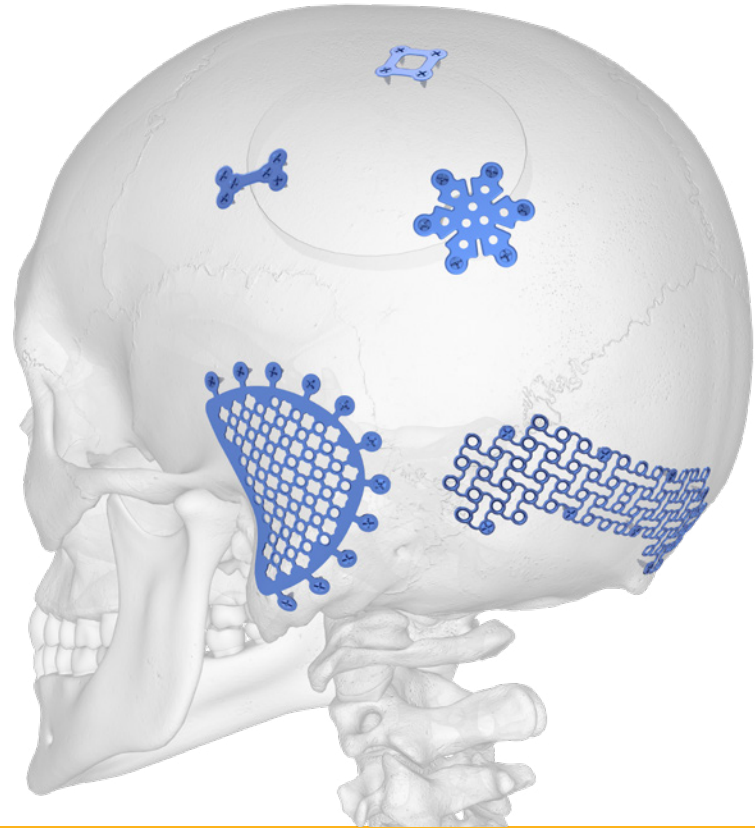
We offer several different plating options, meshes, cranial distractors, and patient-matched implants to meet the demands of surgeons. These systems feature our patented Auto-Drive® screws.

Cranial Plating Solutions

Profile Zero | Low Profile Neuro Plating System

Profile Zero™

Profile Zero is a low-profile, neurosurgical fixation system featuring OsteoMed's patented Auto-Drive® self-drilling screws. This system contains a variety of titanium plate and mesh designs. The plate and screw construct offers a 0.25 mm plate profile that can be contoured to the patient's anatomy. This system also features our latest driver handle and customizable VisiDisk. An optional auxiliary compartment may be added to the Profile Zero tray to include larger meshes and instruments as needed.



Friction Fit

Our friction fit technology engages the driver stem and screw for a firm and secure fit during insertion.

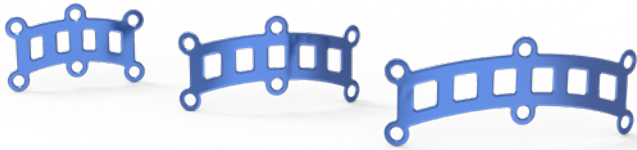
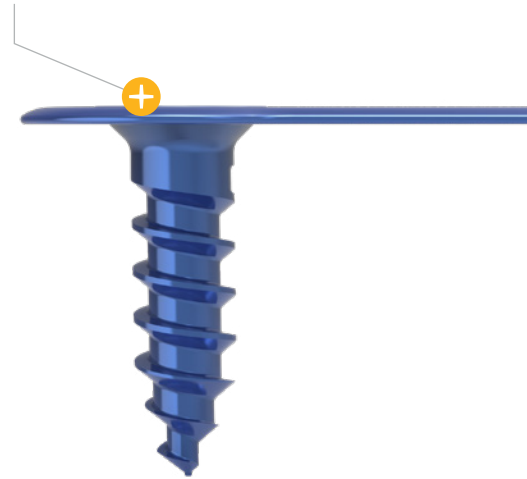


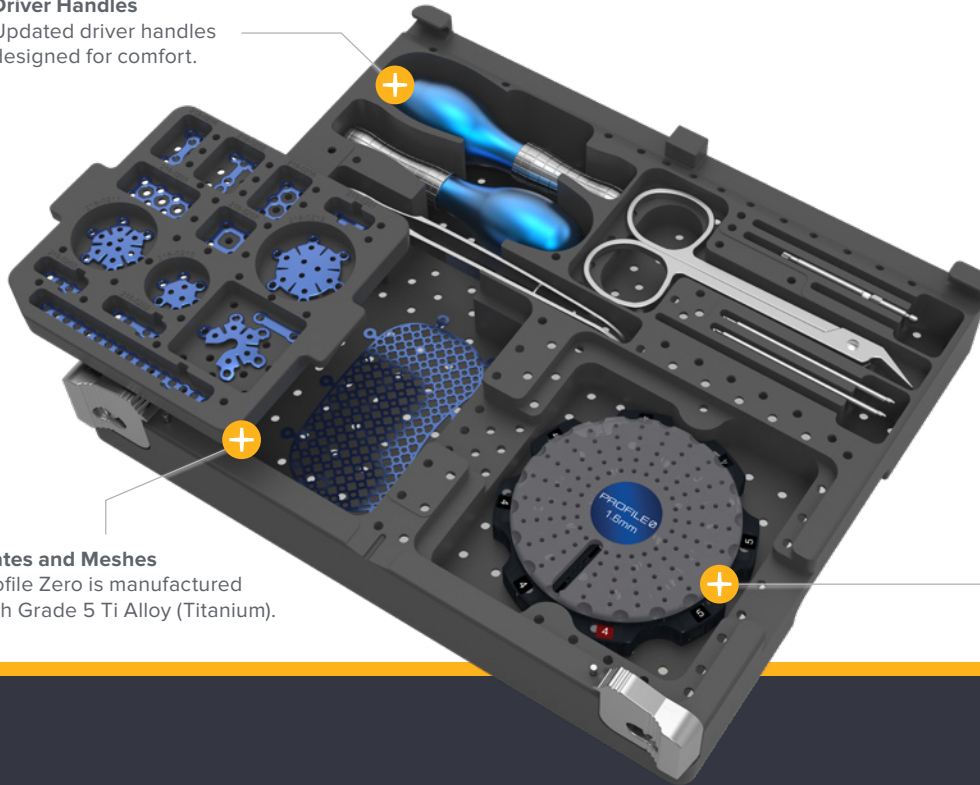
Plate Design
Beveled plate edge design

Plate and Screw Interface
Engineered to have a 0.25 mm plate to screw profile.



Auto-Drive Screws

Driver Handles
Updated driver handles designed for comfort.



Plates and Meshes
Profile Zero is manufactured with Grade 5 Ti Alloy (Titanium).

VisiDisk
The VisiDisk can be customized to meet the surgeon's needs.

Compact Instrument Tray

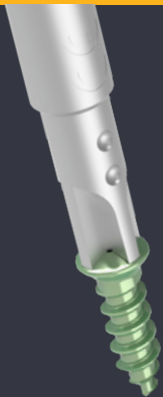
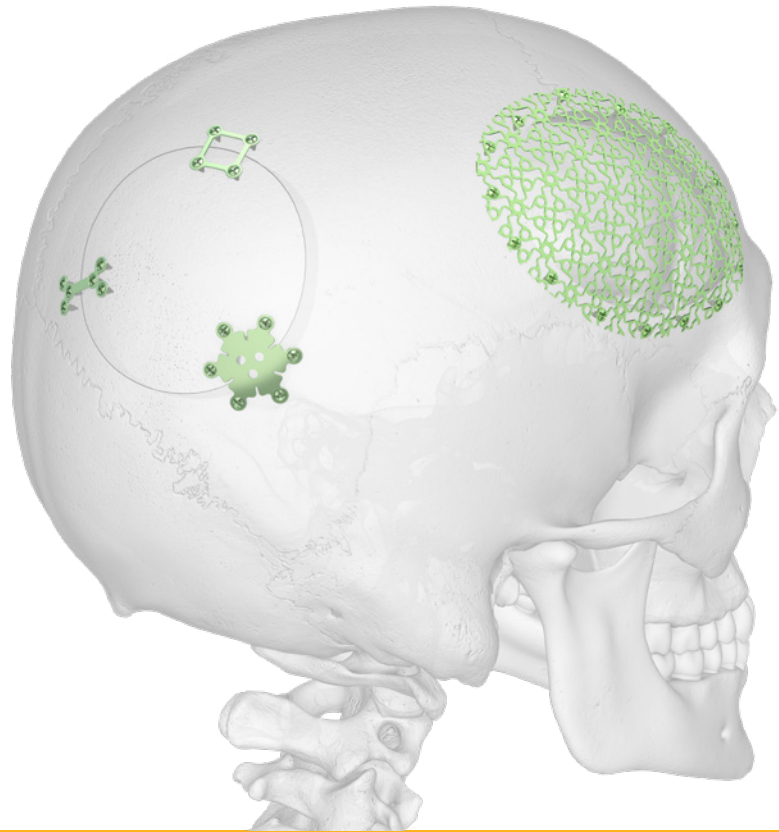
The Profile Zero system is more compact than our previous neuro plating system, Fast Flap. This system contains a removable plate tray, a compartment for meshes, and the VisiDisk, which contains our Auto-Drive screws. It also includes plate cutters, drills and drivers, and all instruments needed to complete the surgical procedure.

Cranial Plating Solutions

Profile Plus Standard Profile Plating System

Profile Plus™

Profile Plus is a standard profile neurosurgical fixation system featuring OsteoMed's updated patented Auto-Drive® self-drilling screw design. The system's driver and screw retention features have been improved over our previous design. It contains a variety of titanium plate designs for cranial procedures. An optional auxiliary compartment may be added to the Profile Plus tray to include larger meshes and instruments as needed.



Improved Friction Fit

The Profile Plus driver and screw interface ensure a secure fit.

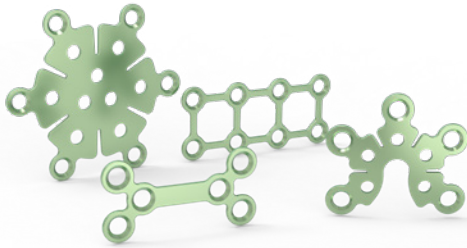
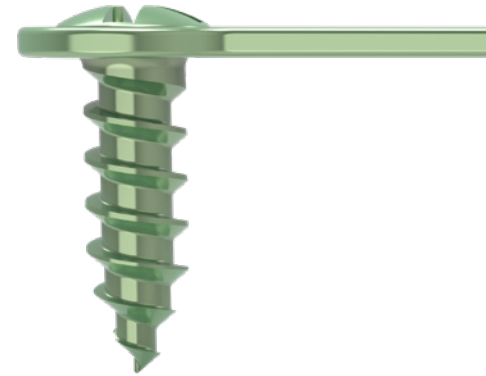


Plate Profile
0.5 mm plate profile



Auto-Drive Screws

Plates and Meshes

Profile Plus offers several standard and specialized plate/mesh offerings.

Driver Handles

Updated driver handles are designed for comfort



Compact Instrument Tray

The Profile Plus system is more compact than our previous neuro plating system, FastFlap. This system has the same footprint as the Profile Zero system, and includes a removable plate tray, an additional mesh compartment, and a customizable VisiDisk. The system contains the drills, driver handles, and plate cutters needed for cranial fixation.

Cranial Plating Solutions

Fast Flap Neurosurgical Plating System

Fast Flap™

The Fast Flap cranial flap fixation system offers several plate block configurations for:

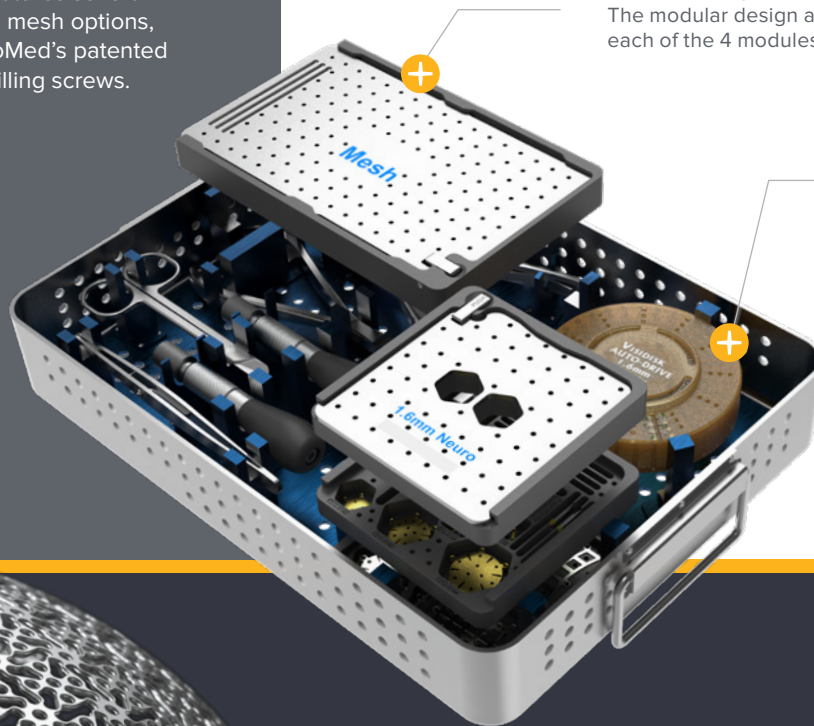
- ▶ 1.2 mm
- ▶ 1.6 mm
- ▶ 1.6 mm
- ▶ Low-profile option
- ▶ Skull base plate

This system also features several malleable and rigid mesh options, and includes OsteoMed's patented Auto-Drive® self-drilling screws.



Modular Design

The modular design allows the surgeon customization within each of the 4 modules and mesh block.



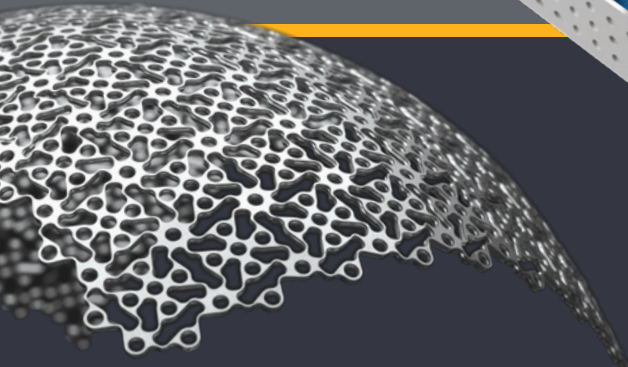
VisiDisk

The system also features our VisiDisk and patented Auto-Drive screws.



Instrument Tray

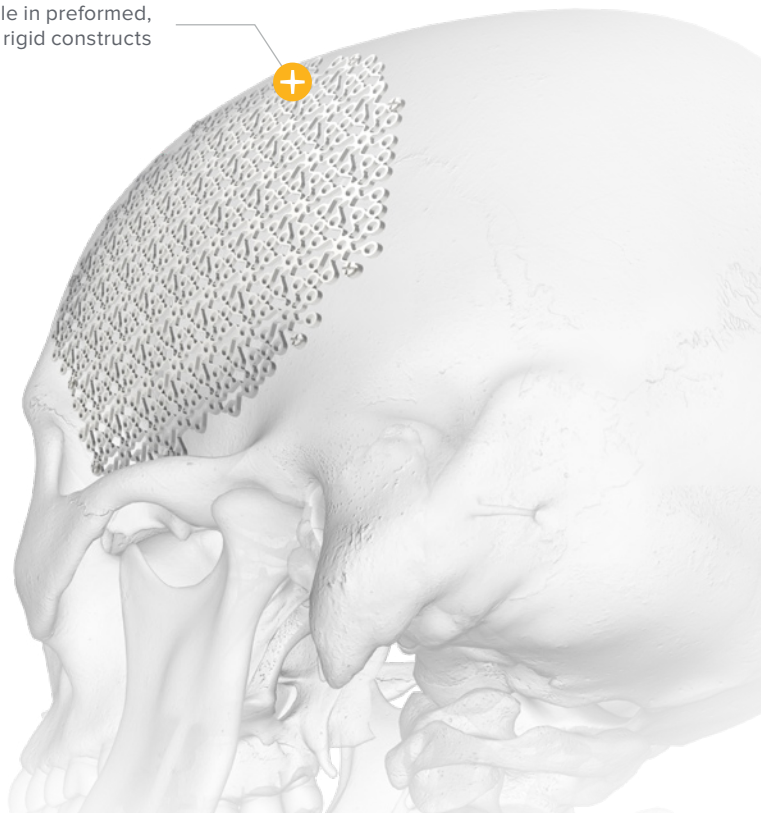
The Fast Flap system is our first-generation neurosurgical fixation system. It features comprehensive instruments for neurosurgical fixation.



Cranial Mesh Solutions

OsteoForm™ Cranial Mesh

Available in preformed, malleable or rigid constructs

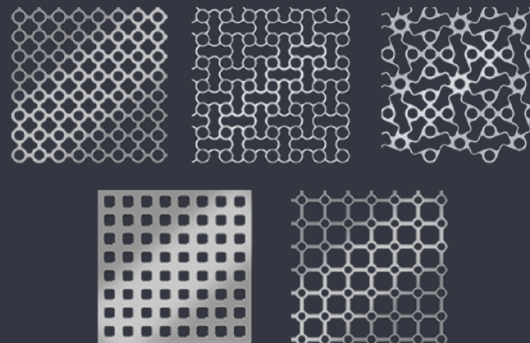


OsteoForm Mesh

Preformed mesh allows for adaptation to the anatomical curvature of the cranium and can accommodate varying curves with only minor contouring required. Our cranial meshes can be used as a stand-alone CP titanium appliance or as scaffolding for bone filler-based cranioplasty.

OsteoMed offers a comprehensive portfolio of mesh products for neurosurgical applications.

- ▶ Circle
- ▶ Dynamic
- ▶ OsteoForm
- ▶ Square
- ▶ Micro

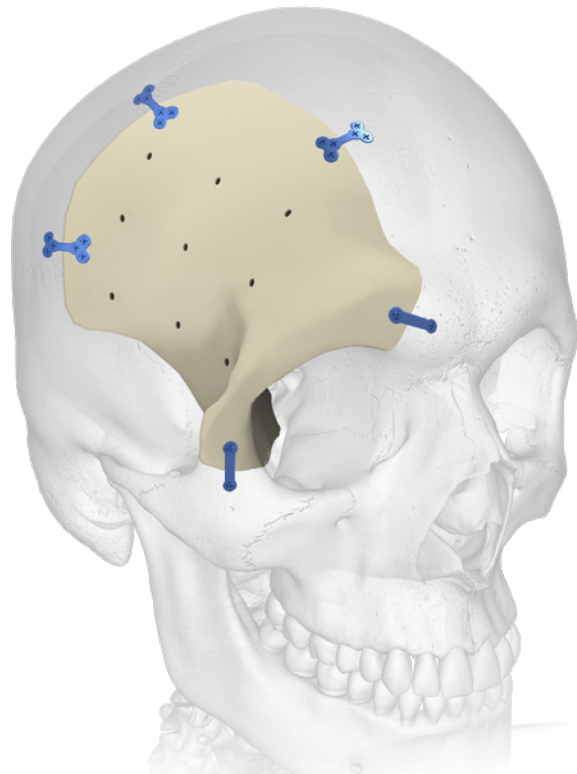


Patient Matched Implant Solutions

OsteoMatch Patient Matched Implants

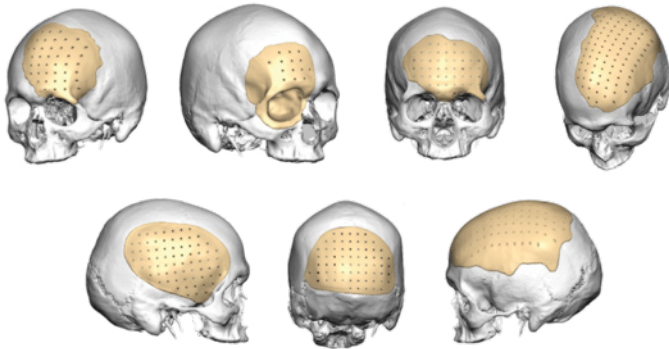
OsteoMatch™

OsteoMatch PEEK Patient-Specific Cranial Implants fill bony voids with a PEEK polymer material comparable to the characteristics of cortical bone. OsteoMatch is digitally designed and manufactured from a patient CT.



OsteoMatch Digital Planning Application

The app delivers a tool for doctors to remotely educate, plan, review, and share with both patients and colleagues. All cases are stored on a cloud server for easy and secure access.



PEEK Custom Implants

The PEEK (Polyether Ether Ketone) patient-matched implant provides a solution for patients with cranial defects.

- ▶ Anatomic custom fit implant
- ▶ Temperature resistant
- ▶ Autoclavable
- ▶ Fracture resistant
- ▶ Provided in single or multiple pieces

Additionally, the implant can be fixated using any OsteoMed cranial fixation systems.



Cranial Implants

The patient-specific cranial implants are individually sized and shaped prosthetic cranioplasty plates designed to correct defects or replace voids in the cranial skeleton.

OsteoMatch Product Realization Process

OsteoMatch is digitally designed and manufactured from a patient CT scan and can be processed in 5 steps, from case input to delivery.

Patient Matched Implant Solutions

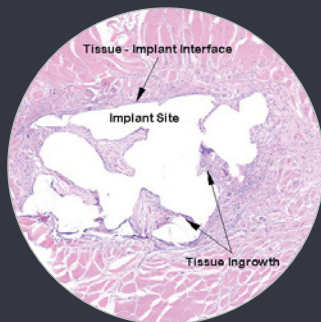
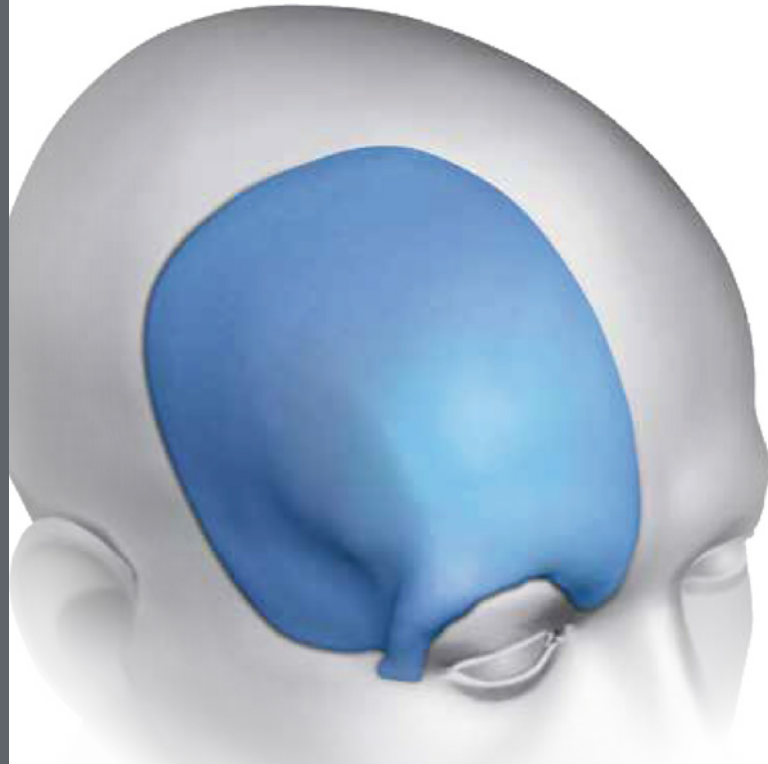
Matrix OMNIPORE Customized Surgical Implants

Matrix OMNIPORE

OsteoMed partners with Matrix to distribute OMNIPORE Customized Surgical Implants. These implants are manufactured from a linear form of high-density polyethylene (HDPE). Polyethylene has a long history of use in surgical implants. The interconnecting open pore structure of OMNIPORE HDPE implants allows for tissue ingrowth.

Additionally, the firm nature of the material makes it modifiable with a surgical instrument without collapsing the pore structure.

OMNIPORE Customized Surgical Implants are defect-specific and intended for augmentation and restoration of the craniomaxillofacial skeleton.



The porosity of OMNIPORE Surgical Implants is maintained large, with average pore sizes greater than 100 microns and pore volume in the 50% range (measured by Mercury Intrusion Porosimetry). Animal data* has demonstrated that the OMNIPORE Surgical Implants permit tissue ingrowth. The clinical significance may vary with the application and implant site. In Vitro and In Vivo biocompatibility studies have shown OMNIPORE Surgical Implants to be free from any observable systemic or cytotoxic effects.

* A reference list of articles/presentations and publications on high-density polyethylene craniofacial implants and porous polyethylene is available upon request from Matrix Surgical USA.



BENDBLOCK™ Implant

This implant is designed for use in small or medium split-thickness cranial defects and contour deformities. The superior surface of the BENDBLOCK is smooth, while a pattern of pedicles on the inferior surface offers volume and flexibility. The implant can be modified with a scalpel to create a flange for fixation to the surrounding bone.



BENDBLOCK™ Cranial Grid Implant

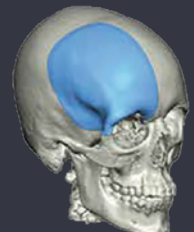
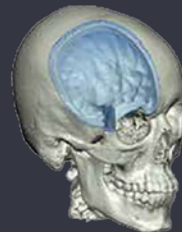
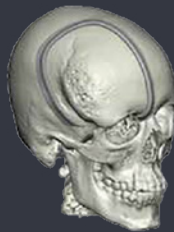
This implant is designed to fill full thickness cranial defects. The inferior surface's waffle-pattern design provides strength and flexibility, while allowing the implant to be easily cut and shaped as needed. The implant's shape mimics the contour of the cranium, with further tailoring available by soaking the implant in a hot, sterile saline bath for several minutes to relax the memory, and upon removal from the bath, bending it to assume a revised shape while it cools.

OMNIPORE Cranial Hemisphere

Is designed to be used for large cranial defects, providing surgeons with an off-the-shelf alternative to customized implants, as well as complex grafts or other implant materials. The Cranial Hemisphere approximates the contour of a half cranium and can be trimmed with a blade to fit the defect.



OMNIPORE's Single Stage Surgical Implants makes it possible for the surgeon to remove bone and/or soft tissue and restore individual anatomy and aesthetics in a single surgery.



Battery Power Solutions

ProDex Pro-Driver 5000 | Pinnacle

Pro-Dex Pro-Driver 5000

OsteoMed partners with Pro-Dex, Inc. to provide the Pro-Driver 5000. Manufactured and assembled in the USA, Pro-Dex's ISO 13485:2003 CNC-machining and complete assembly capabilities ensures high reliability and performance with every Pro-Driver shipped.

Distributed by OsteoMed

Pinnacle

The Pinnacle Battery Powered Smart Driver features a comfortable pencil-like grip. OsteoMed's torque-limiting software is based on exhaustive screw characterization. It senses when any OsteoMed screw is fully seated and stops to prevent stripping of the bone. With a top speed of 2,000 RPM, Pinnacle seats neuro screws in less than a second.

Manufactured by OsteoMed



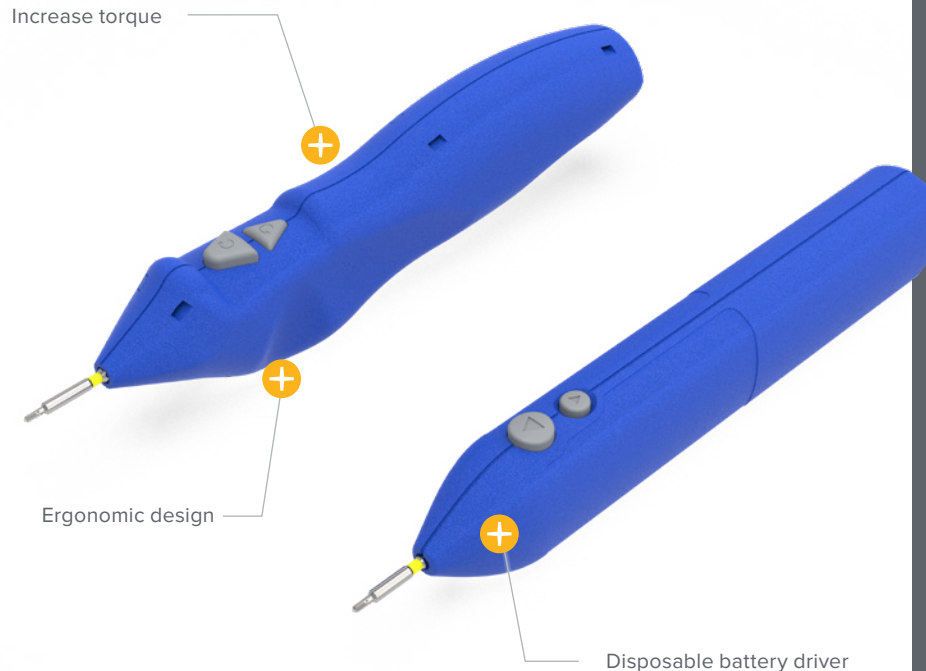
Pro-Driver 5000 and Pinnacle Driver have single use, disposable batteries.



The Pinnacle driver accepts OsteoMed hex shank attachments, including driver stems and twist drills.

Battery Power Solutions

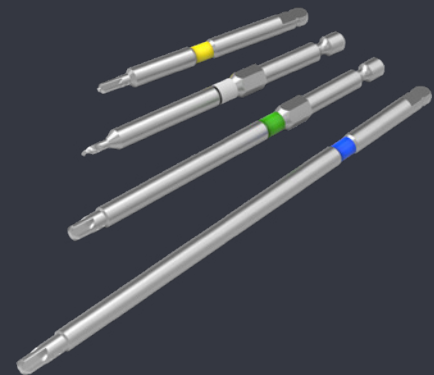
OsteoDriver/OsteoDriver™ 2 | Disposable Power Driver



OsteoDriver/OsteoDriver 2

The OsteoDriver™ is a sterile, battery-powered screwdriver with stems, taps, and drills. The OsteoDriver 2 is an improved version of the OsteoDriver with increased torque and a comfortable handle design. Both drivers are disposable, with a collet design allowing instant adaptability of drilling or driving accessories. The drivers have a full range of OsteoMed accessories for 1.2 mm, 1.6 mm, and 2.0 mm systems.

The OsteoDriver and OsteoDriver 2 come with several accessories for drills and drivers in 1.2 mm to 2.0 mm in sizes, connection types, and various lengths.

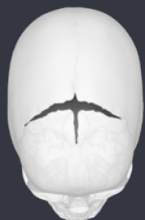
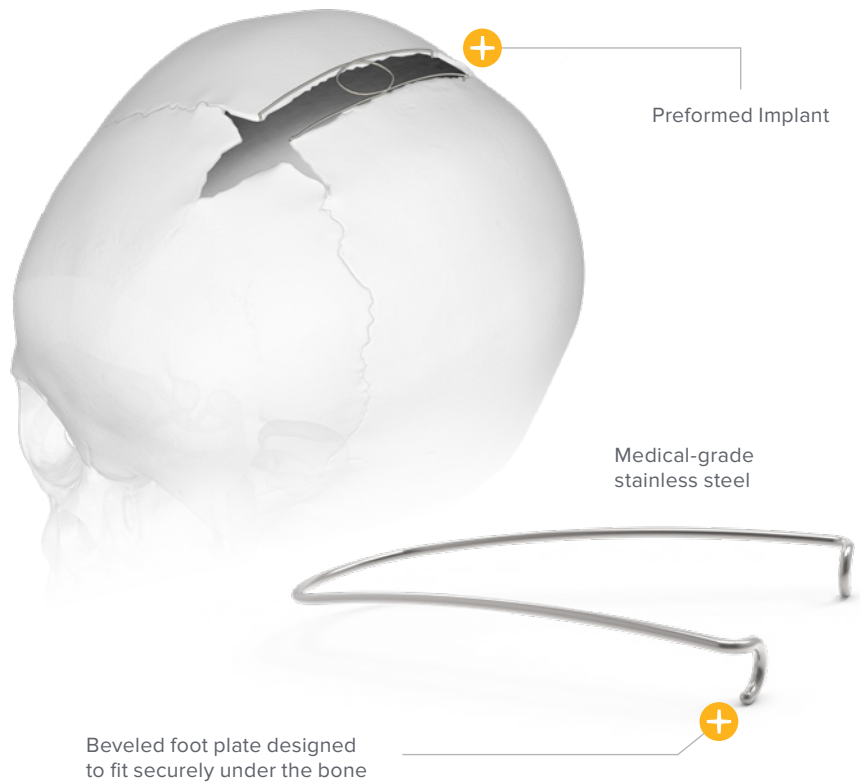


Distraction Solutions

SmartFlex™ Pediatric Cranial Expander

SmartFlex

SmartFlex is a pediatric cranial expander featuring preformed cranial springs. It is manufactured with medical-grade stainless steel, with beveled foot plates that are designed to fit securely under the skull bone. The springs are adjustable to accommodate various skull anatomies.



Before



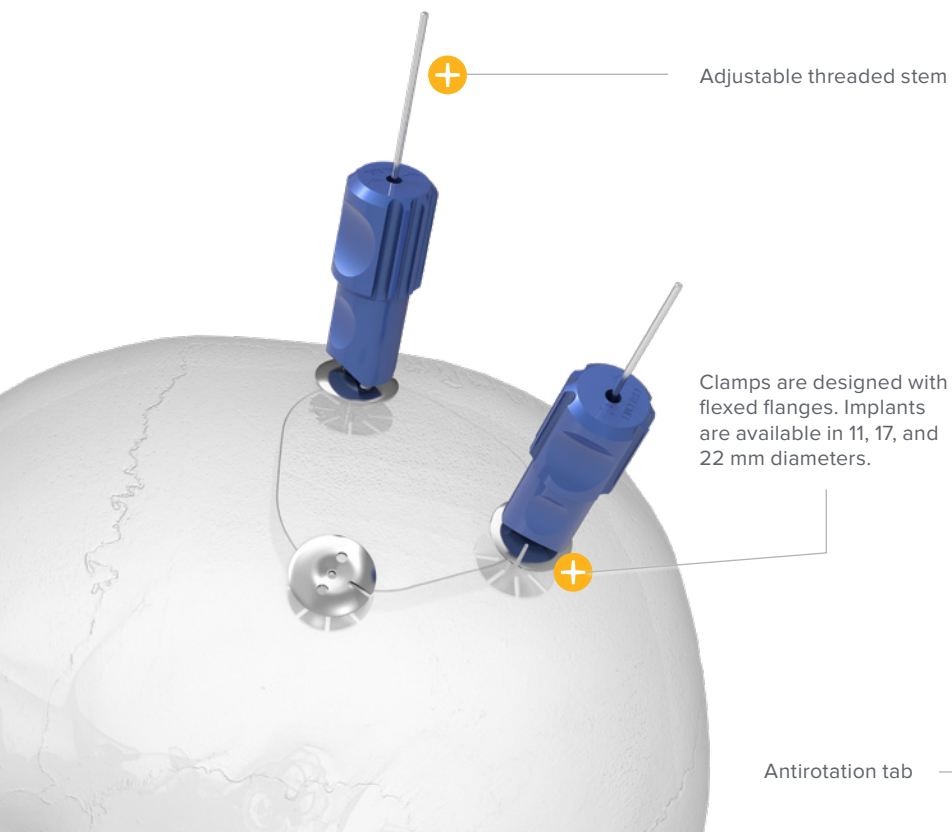
After

SmartFlex offers early minimally invasive surgical intervention to decrease the morbidity associated with an extensive decompression operation.

- ▶ 218-3140-SP SmartFlex Spring – 4N
- ▶ 218-3145-SP SmartFlex Spring – 4.5N
- ▶ 218-3150-SP SmartFlex Spring – 5N
- ▶ 218-3155-SP SmartFlex Spring – 5.5N
- ▶ 218-3160-SP SmartFlex Spring – 6N
- ▶ 218-3165-SP SmartFlex Spring – 6.5N
- ▶ 218-3170-SP SmartFlex Spring – 7N
- ▶ 218-3175-SP SmartFlex Spring – 7.5N
- ▶ 218-3180-SP SmartFlex Spring – 8N
- ▶ 218-3185-SP SmartFlex Spring – 8.5N

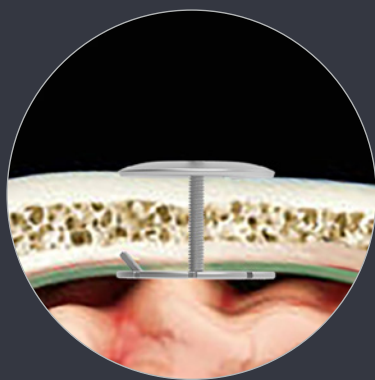
Cranial Flap Solutions

OsteoFlap™ Cranial Clamp System

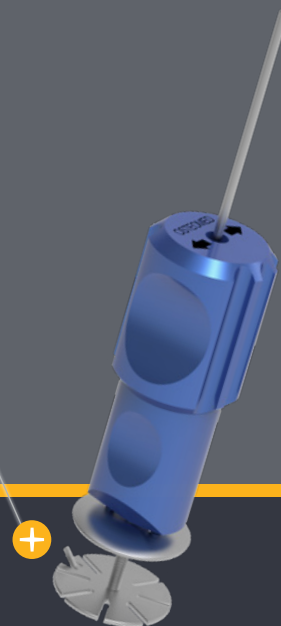


OsteoFlap

The OsteoFlap is an instrument-free cranial clamp system. Threaded stems adjust to accommodate fixation of various bone thicknesses. The system includes a clamping device that has a threaded post attached to an inferior disk. A superior disk threads down the post to secure a sandwich fit of the cranial flap and cranium between the two.



The OsteoFlap system comes in sterilized component packaging. It is an instrument-free system designed to clamp between the cranial flap and cranium.



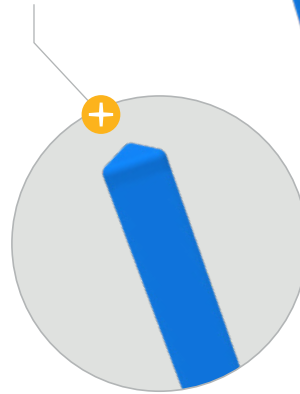
Dura Cutting Solutions

DuraKnife™ Dura Cutting Instrument

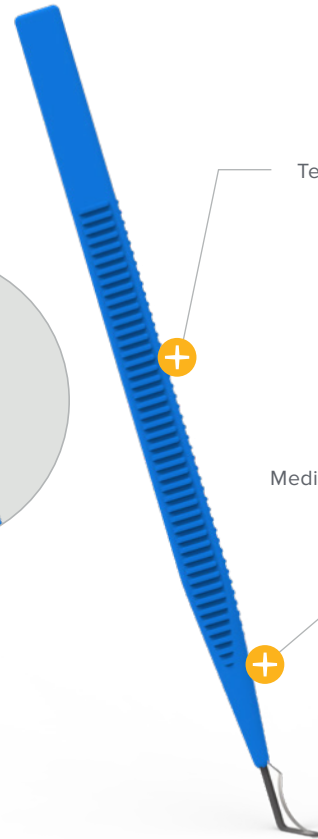
DuraKnife

The DuraKnife is a dura cutting instrument used in cranial procedures. This patented instrument allows the surgeon to cut the dura while protecting the neural tissue below.

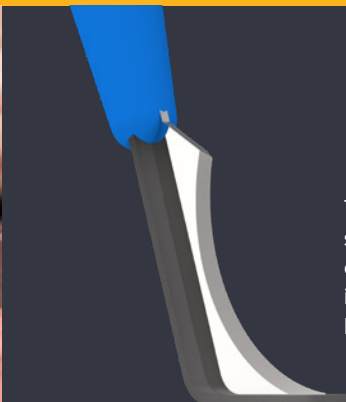
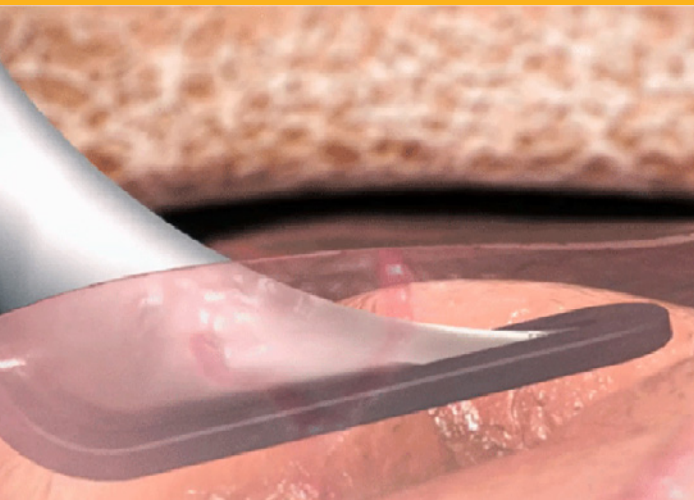
Triangular ergonomic design



Textured handle



Medical-grade ABS plastic



The DuraKnife blade is engineered with surgical-grade stainless steel. The curved cutting surface is designed to lift and incise the dura. The foot plate protects brain tissue during incision.



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