MAYFIELD® Surgical Devices
SKULL CLAMPS AND HEADREST SYSTEMS

New MAYFIELD® Infinity XR2 Skull Clamp
MAYFIELD® Infinity Skull Clamp System
Adult & Pediatric Radiolucent Horseshoe Headrests
Standard MAYFIELD Skull Clamp performance....with multifunctional options!

The MAYFIELD Infinity Skull Clamp System (A1114) is designed to provide multifunctional options for cranial stabilization and fixation. Trusted MAYFIELD features have been included in a new skull clamp engineered for use with the Infinity Support System as well as general applications for Neurosurgical procedures.

- Added length and curved contours of the skull clamp uprights allow the clamp to better interface with the Horseshoe Headrests of the Infinity Support System providing a lower profile fixation with the ability to tuck in beneath the Headrests.
- Swivel rocker arm rotates 360-degrees under full pressure of applied force.
- Quick-release lock enables easy removal.
- Sturdy locking mechanism ensures precise patient positioning.
- Compatibility with the full line of MAYFIELD products optimizes versatility and product use.
- Available as A1114A with standard rocker arm and 80lbs torque screw

Skull clamp shown with:
- 80-lb Torque Screw
- Standard Adult Rocker Arm
- Infinity Support System
Multiple, quick-change, snap-in rocker arm options provide the ability to match the stabilization points to the size of the patient’s head for optimal fixation and surgical access. No tools are needed to change rocker arms.

<table>
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<th>Triad Rocker Arm</th>
<th>Standard Adult Rocker Arm</th>
<th>Child’s Rocker Arm</th>
<th>Single Pin Accessory</th>
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<td>• Provides visual indication of clamping force of the two pins on the rocker arm. Also have the ability to adjust clamping force on each pin. Set-up is repeatable, making training of the application of skull clamps easier.</td>
<td>• The same two-pin rocker that is provided with the standard MAYFIELD skull clamp.</td>
<td>• Rocker Arm configured for smaller size patient skulls.</td>
<td>• Provides a directly opposing point of stabilization with the pin in the Torque Screw. Flexibility in positioning of pins around critical areas and the surgical site.</td>
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Two Torque Screw options to assist in providing the desired amount of pressure for the patient and the procedure. Along with the standard MAYFIELD 80-lb Torque Screw, a reduced load 18-lb Torque Screw is provided for procedures where lower, more controlled pressure and less penetration of the pins is desired. *(Note: The reduced load Torque Screw should always be used in conjunction with a horseshoe headrest or other form of primary patient head support.)*

The Infinity Skull Clamp System is supplied with a sturdy, compartmentalized case for safe and easy storage and ready access.
MAYFIELD® TRIAD SKULL CLAMP

Triple pin control…and it shows!

The MAYFIELD® Triad Skull Clamp (A1108) provides visual indication of clamping force on ALL THREE skull pins, with the ability to adjust the force on ALL THREE skull pins.

- A “Triad” of true benefits:
  1. Assurance of pin penetration, especially during difficult applications. The user has the ability to adjust and visually see an indication of clamping force.
  2. Equal impingement of pins ensures firm skull positioning and fixation.
  3. Set-up is repeatable, which makes training easier.

The MAYFIELD® Triad Skull Clamp provides all the same advantages users have come to know and trust with other MAYFIELD® Skull Clamps.

- Ability to have 360-degree rotation of the swivel rocker arm with force applied.
- Flexibility and safety in positioning of skull pins around critical areas.
- Quick-release lock, enabling easy removal.
- Sturdy locking mechanism ensures precise patient positioning.
- Compatibility with the full line of MAYFIELD® products, optimizing versatility and product use.

A Simple Physics Lesson

**Equal Forces**

If the two skull pins on the rocker arm are equidistant from the centerline (a hypothetical line from the single torque pin to the center of the rocker arm), then the forces on these pins will be equal.*

**Unequal Forces**

If the two skull pins on the rocker arm are not equidistant from the centerline, then the forces on these two pins will NOT be equal.

Visual indicators enable user to see if equal clamping force is being applied.

Easily increase or decrease the clamping force by adjusting the pin carriers with a hex wrench – conveniently mounted on the clamp.

*For a perfectly round, solid sphere. Variation may occur in application to the skull.
MAYFIELD® MODIFIED SKULL CLAMP

Form & function that everyone knows…the gold standard in cranial fixation.

Provides rigid 3-point skeletal fixation for craniotomies, laminectomies, and most Neurosurgical procedures:

- Ability to have 360-degree rotation of the swivel rocker arm with force applied
- Flexibility and safety in positioning of skull pins around critical areas
- Quick-release lock enables easy removal
- Sturdy locking mechanism ensures precise patient positioning
- Compatibility with the full line of MAYFIELD® products optimizes versatility and product use

MAYFIELD® 2000 SKULL CLAMP

Greater exposure due to the streamlined, low profile, single-pin side of clamp.

The MAYFIELD® Triad Skull Clamp provides all the same advantages users have come to know and trust with other MAYFIELD® Skull Clamps.

- Ability to have 360-degree rotation of the swivel rocker arm with force applied
- Flexibility and safety in positioning of skull pins around critical areas
- Quick-release lock, enabling easy removal
- Sturdy locking mechanism ensures precise patient positioning
- Compatibility with the full line of MAYFIELD® products, optimizing versatility and product use
MAYFIELD® RADIOLUCENT SKULL CLAMP

Trusted 3-point fixation, minimum artifact

- Force Knob is on the single-pin side of the clamp, the same as other MAYFIELD skull clamps
- Ratchet Extension is guided and fixed in place by a double-pawl feature to allow better control of the extension, requiring less force to apply the clamp to the patient
- Hinged Race-way is easily opened without tools for cleaning

Optional Accessories

- Child’s Rocker Arm is available as an accessory
- Metal-Free Conversion Accessory allows for the use of the Removable Force Applicator to further limit artifact during the x-ray imaging process

MAYFIELD Infinity XR2 Skull Clamp (A2114)

Child’s Rocker Arm (439A1091)

Removable Force Applicator (439A1093)

Metal-Free Conversion Accessory (439A1092)

DSA image with MAYFIELD® Radiolucent Skull Clamp in use.
MAYFIELD® HEADREST SYSTEMS

MAYFIELD® Adult Horseshoe Headrest (A1012)
- Provides cranial support for adults and older children in either prone or supine positions
- Includes pulley rod attachment for skeletal traction (easily removed)
- Vertical and lateral adjustments allow for flexibility in patient positioning
- Adjustable pad base (faceplates) accommodates various head sizes
- Fluid resistant gel pads provided for comfort and reduction in the incidence of pressure necrosis
- Easily cleaned
- Replacement Gel Pads available: Left: 41C1444 • Right: 41C1445

MAYFIELD® Pediatric Horseshoe Headrest (A1051)
- Provides cranial support in either prone or supine positions for premature infants and young children
- All the same features and benefits of the Horseshoe Headrest (A1012) (except pulley rod attachment)
- Replacement Gel Pads available: Left: 440C1011 • Right: 440C1012

MAYFIELD® Horseshoe Headrest (A1011)
- Attaches directly to standard transitional starbursts
- Note: MAYFIELD® Horseshoe Conversion Adaptor (A1109) allows A1011 to attach to standard Swivel Adaptors (A1018, A1064, A2008)
- MAYFIELD® Horseshoe Conversion Adaptor with Knobs (A1110) allows A1012 to attach to standard transitionals

MAYFIELD® General Purpose Headrest (A1008)
- Provides cranial support in either supine or semi-sitting procedures
- Headrest pads easily contour to patient’s head
PAPADOPOULOS POSTERIOR CERVICAL SPINE SUPPORT

- Provides rigid posterior cervical spine support for anterior approaches
- Ratcheting system allows for easy intraoperative cervical extension
- Support base is radiolucent to facilitate intraoperative imaging
- Adapts easily to MAYFIELD® Base Units

Posterior Cervical Spine (PCS) Support (A1073)
Attached to an Ultra Base Unit (A2101)
Adult Swivel Horseshoe Headrest (A1012)
Ball Socket Swivel Adaptor (A1064)