MAYFIELD®
Cranial Stabilization & Fixation Systems

Limit uncertainty in meeting everyday demands of the neurosurgical OR with trusted performance in cranial stabilization and fixation
**MAYFIELD® Cranial Stabilization & Fixation – Meeting everyday demands**

Create Your Cranial Stabilization or Cranial Fixation System:

- **Step 1** Select OR Table attachment (if required for specific table or patient position)
- **Step 2** Select a Base Unit
- **Step 3** Select a Swivel Adaptor
- **Step 4** Choose Fixation (Skull Clamp) or Stabilization (Horseshoe Headrest)
- **Step 4a** Select Skull Pin (if necessary)
- **Step 5** Add accessories (if necessary)

**Products Shown:**

**MAYFIELD® Cranial Stabilization & Fixation Systems**

Products Shown:
- A1059 – MAYFIELD Modified Skull Clamp
- A1018 – MAYFIELD Swivel Adaptor
- A2101 – MAYFIELD Ultra Base Unit

Products Shown:
- A1114 – MAYFIELD Infinity Skull Clamp
- A1112 – MAYFIELD Infinity Support System - Adult Horseshoe
- A2008 – MAYFIELD Tri-Star Swivel Adaptor
- A2101 – MAYFIELD Ultra Base Unit
Cranial Stabilization

Products Shown:
A1012 – MAYFIELD Horseshoe Headrest
A1073 – Papadopoulos Posterior Cervical Support
A1064 – MAYFIELD Ball & Socket Swivel Adaptor
A2101 – MAYFIELD Ultra Base Unit

Cranial Fixation in Seated Position

Products Shown:
A2000 – MAYFIELD 2000 Skull Clamp
A1018 – MAYFIELD Swivel Adaptor
A2101 – MAYFIELD Ultra Base Unit
A1015 – MAYFIELD Crossbar Adaptor
A1060 – MAYFIELD Universal Side Rail Fitting (2 ea)
**STEP 1: Select OR Table attachment (if required for specific table or patient position)**

When OR table receptacle holes are absent or inappropriately sized, the MAYFIELD NeuroGen Adaptor can be used.

**MAYFIELD NeuroGen Adaptor (A1113)**

- Easily attaches to side rails of OR tables that have widths ranging from 21.375” to 24.5”
- Provides optional lateral adjustment with multiple mounting holes for base unit placement.

**MAYFIELD Crossbar Adaptor (A1015)**

- Easily mounts to OR table side rails to adapt the MAYFIELD Headrest for posterior fossa craniotomy procedures or posterior cervical laminectomies
- Allows for unobstructed viewing to the posterior cervical spine and occipital areas
- Requires use of 2 each A1060 Side Rail Fittings

For seated position procedures:

**The Spine Table Adaptor** connects MAYFIELD Skull Clamps and Horseshoe Headrests to specialty spine tables including the Jackson Spine Table.

**MAYFIELD Spine Table Adaptor (A2600M)**

- Easy attachment and reliable support
- Double-cam locking handle ensures quick and secure fixation
- Connects to standard rail brackets of spine table
- Also available with radiolucent components for intra-operative imaging (A2600R)

**Universal Side Rail Fitting (A1060)**

- For attaching the MAYFIELD Crossbar Adaptor (A1015) and other products to the OR table
- Two each required for set-up with A1015

Both of the products featured above are compatible with most currently available OR tables.
STEP 2: Select a Base Unit

For increased flexibility and improved degrees of freedom

MAYFIELD Ultra 360 Patient Positioning System (A2009)

- Allows for reverse positioning of the unite to the OR table providing added reach for surgical positions where additional height is needed.
- Independent and self-locking handles provide more fluid and flexible movement allowing connection to the desired skull clamp or headrest position
- Two double-cam action locking handles provide easy opening and closing for secure, quick fixation
- More flexible movement with added rotation for degrees of freedom
- Patented

System shown in the reversed position

MAYFIELD Ultra Base Unit (A2101)

- Gold-handled MAYFIELD Ultra Base Unit provides increased weight and force bearing capacity (33% more than earlier models) for improved patient safety.
- Supports weight of important added components to system, such as Image-Guided Surgery accessories
- Extended base tube (15 ¼”) provides increased lateral positioning capability
- Adjustable width of end brackets (6 ¾” to 8 ¼”) allows adapting to most OR tables

For everyday use in the OR, with increased strength — identified by the gold handle

- The Ultra 360 system includes the Standard and Tri-Star Swivel Adaptors
STEP 3: Select a Swivel Adaptor for the Ultra Base Unit*

*The Ultra 360 Base Unit includes Standard and Tri-Star Swivel Adaptors, so no selection is required for this Base Unit

Everyday stability and flexibility

**MAYFIELD Swivel Adaptor (A1018)**

- Adapts headrests and skull clamps to MAYFIELD Base Unit (A2101)

To minimize movement of skull clamp components

**MAYFIELD Modified Swivel Adaptor (A1115)**

- Spring-loaded pin contacts ratchet arm of skull clamp

For flexibility in attachment of OR accessories

**MAYFIELD Tri-Star Swivel Adaptor (A2008)**

- Adapts headrests and skull clamps to MAYFIELD Ultra Base Unit (A2101)
- Two additional starbursts allow attachment of ancillary components such as Image-Guided Surgery accessories
- Starburst bar rotates independent of skull clamp and can be removed if necessary
- Patented

To minimize movement of skull clamp components

**MAYFIELD Modified Tri-Star Swivel Adaptor (A1116)**

- Spring-loaded pin contacts ratchet arm of skull clamp

For 360-degree rotation in Cranial Stabilization

**MAYFIELD Ball & Socket Swivel Adaptor (A1064)**

- Adapts headrests to MAYFIELD Base Unit (A2101)
- Unique locking pivot permits precise patient positioning with 360-degree rotation and tilt in any axis
- Exclusive spring-loaded mechanism provides assured stability and secure lock

To minimize movement of skull clamp components
STEP 4: Choose Cranial Stabilization (Horseshoe) or Fixation (Skull Clamp)  
...see next page for Cranial Fixation

**MAYFIELD Adult Horseshoe Headrest (A1012)**
- For adults and older children in prone or supine position
- Fluid resistant gel pads provide for comfort and reduction in the incidence of pressure necrosis
- Pulley rod attachment is included, and adjustable faceplate accommodates various head sizes
- Replacement Gel Pads available: Left-41C1444, Right-41C1445

**MAYFIELD Pediatric Horseshoe Headrest (A1051)**
- Cranial support for infants and young children
- Replacement Gel Pads available: Left-440C1011, Right-440C1012

**MAYFIELD General Purpose Headrest (A1008)**
- Cranial support in supine or semi-sitting procedures with pads that easily contour to head

**MAYFIELD Adult Horseshoe Headrest (A1011)**
- Small starburst for attachment directly to transitional starbursts
- Conversion adaptors available for larger starburst attachments —see page 10

**Papadopoulos Posterior Cervical Spine Support (A1073)**
- Rigid posterior cervical support for anterior approaches with a radiolucent support base
- Extension achieved with ratcheting mechanism

**MAYFIELD Infinity Adult Horseshoe (A1112)**
- For adults and older children in prone or supine position, and adjustable faceplate accommodates various head sizes

NOTE: Attaches directly to Base Unit, no Swivel Adaptor is required

**Additional sizes:**
- MAYFIELD Infinity pediatric horse shoe (419A1030)
- MAYFIELD Infinity general purpose headrest (419A1050)
STEP 4: Choose Cranial Stabilization (Horseshoe) or Fixation (Skull Clamp)

...see previous page for Cranial Stabilization

**MAYFIELD Modified Skull Clamp (A1059)**

- Form and function known and trusted by the neurosurgical community...considered the "gold standard" in cranial fixation
- Provides rigid 3-point skeletal fixation for craniotomies, laminectomies, and most neurosurgical procedures.
  - 80-lb torque screw
  - Rotating rocker arm
  - Locking index knob
  - Ratcheting arm

**MAYFIELD Triad Skull Clamp (A1108)**

- The MAYFIELD Triad Skull Clamp provides visual indication of clamping force and the ability to adjust the force on ALL THREE Skull Pins
  - Assurance of pin penetration, especially during difficult applications.
  - Equal impingement of pins ensures firm skull positioning and fixation.

**MAYFIELD 2000 Skull Clamp (A2000)**

- Greater exposure due to the streamlined, low profile, single-pin side of clamp, facilitates greater exposure to the operative side
- Unique swivel rocker arm mechanism permits greater flexibility in patient positioning
- Exclusive design allows for enhanced stability with direct pressure being applied to both pins on the rocker arm side of the clamp

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.
**MAYFIELD Infinity Skull Clamp (A1114)**

- The MAYFIELD Infinity Skull Clamps System is designed to provide multifunctional options for cranial stabilization and fixation.
- Added length and curved contours of the skull clamp uprights allow the clamp to better interface with the horseshoe headrests of the system, providing a lower profile fixation with the ability to tuck in beneath the headrests.
- Available as A1114A with standard rocker arm and 80lb torque screw.

See page 1 for full system assembly.

**Triad Rocker Arm**
- Provides visual indication of clamping force of the two pins on the rocker arm. Clamping force can be adjusted, too, and set-up is repeatable, making training of the application of skull clamps easier.

**Standard Adult Rocker Arm**
- The same two-pin rocker provided with the standard MAYFIELD skull clamp.

**Child’s Rocker Arm**
- Rocker Arm configured for smaller size patient skulls.

**Single Pin Accessory**
- 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.

Two Torque Screw options assist in providing the desired amount of force 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 force 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.)
STEP 4a: Select Skull Pin for 3-Pin Fixation

Disposable Skull Pins (A1072) – Stainless Steel with Plastic Base

- Sterile packaged
- One-time use guarantees proper pin sharpness and length
- Patented “wing” design of the pin body improves the fit into varying diameters of receptacle holes of all MAYFIELD® Skull Clamps (normal wear and use may cause varying diameters)
- “Finger Grooves” are molded into the pin body for a sure grip and easy removal
- Precision-machined skull pin tips ensure accurate pin penetration
- Plastic pin covers effectively prevent cross-contamination and are designed for easy removal prior to skull clamp application to the patient

Packaging: 3 pins/pack, 12 packs/box

Reusable Skull Pins – All Stainless Steel

- A1083 Adult Skull Pin (Steel) Red O-Ring for a secure fit. Pinpoint reduced to control penetration when used with a child.
- A1084 Child Skull Pin (Steel) Black O-Ring for a secure fit. Pinpoint reduced to control penetration when used with a child.

Packaging: 1 each

Disposable Skull Pins – All Stainless Steel

- A1083 Adult Skull Pin (Steel) Red O-Ring for a secure fit.
- A1084 Child Skull Pin (Steel) Red O-Ring for a secure fit. Pinpoint reduced to control penetration when used with a child.

Packaging: 3 pins/pack, 12 packs/box
STEP 5: Select Accessories

MAYFIELD Horseshoe Conversion Adaptor (A1109)

- Allows an A1011 Horseshoe Headrest to attach to A1018, A1064, A2008 and A2009 Adaptors

MAYFIELD Horseshoe Conversion Adaptor w/Knobs (A1110)

- Allows an A1012 Horseshoe Headrest to attach to standard transitionals, and provides a means of obtaining chin-to-chest positioning

Instrument Wall Storage Unit (A1023)

- Printed instrumental silhouettes make proper storage quick and easy
- Holds all MAYFIELD Headrest components
- Measures 32” x 30” (81cm x 76cm)

See Page 3 for other accessories:

- MAYFIELD Crossbar Adaptor (A1015)
- Universal Side Rail Fittings (A1060)
- NeuroGen Adaptor (A1113)
### Ordering Information

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<th>Select OR Table attachment (if required for specific table or patient position)</th>
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<td>MAYFIELD Crossbar Adaptor</td>
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<td>MAYFIELD Ball Socket Swivel Adaptor</td>
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<td>MAYFIELD Infinity Skull Clamp System (adult rocker arm and 80lb torque screw)</td>
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|        | Cranial Stabilization                                                     |
|        | MAYFIELD Adult Horseshoe Headrest                                         |
|        | MAYFIELD Pediatric Horseshoe Headrest                                      |
|        | MAYFIELD Adult Horseshoe Headrest (attaches directly to base unit transitional) |
|        | MAYFIELD General Purpose Headrest                                         |
|        | Papadopoulos Posterior Cervical Support                                   |
|        | MAYFIELD Infinity Support System                                          |

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