

MAYFIELD®

Cranial Stabilization & Fixation Systems

Limit uncertainty in meeting everyday demands of the neurosurgical OR with trusted performance in cranial stabilization and fixation



INTEGRA®
LIMIT UNCERTAINTY

MAYFIELD® Cranial Stabilization & Fixation – Meeting everyday demands

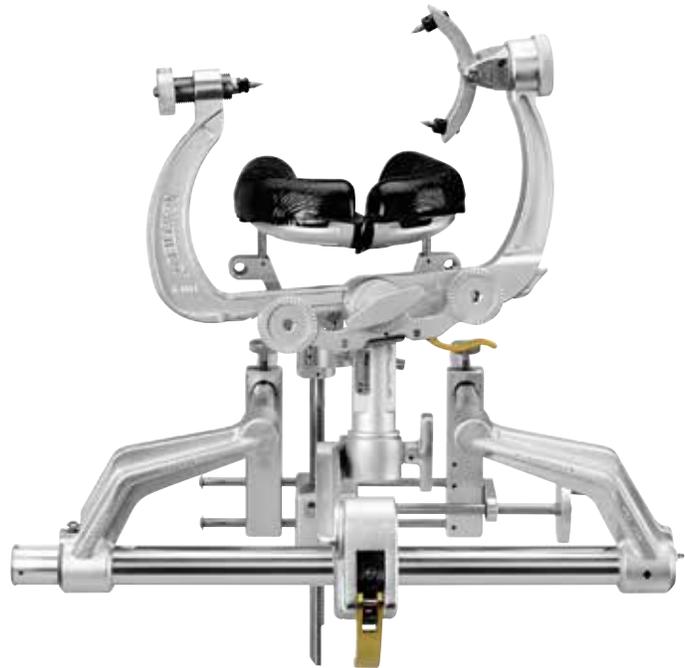
Cranial Fixation



Products Shown:

A1059 – MAYFIELD Modified Skull Clamp
A1018 – MAYFIELD Swivel Adaptor
A2101 – MAYFIELD Ultra Base Unit

Cranial Fixation and Stabilization



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

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)

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

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)

For seated position procedures

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

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



- The Ultra 360 system includes the Standard and Tri-Star Swivel Adaptors

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

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 1/4") provides increased lateral positioning capability
- Adjustable width of end brackets (6 3/4" to 8 1/4") allows adapting to most OR tables

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 the 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 positing with 360-degree rotation and tilt in any axis
- Exclusive spring-loaded mechanism provides assured stability and secure lock

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 Adult Horseshoe Headrest (A1011)



- Small starburst for attachment directly to transitional starbursts
- Conversion adaptors available for larger starburst attachments —see page 10

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

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)



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.



- 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

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.)



80-lb Torque Screw



18-lb Torque Screw

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

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

Reusable Skull Pins – All Stainless Steel



A1083 Adult Skull Pin (Steel)
Black O-Ring for a secure fit.



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

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

See Page 3 for other accessories:

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

Instrument Wall Storage Unit (A1023)



- Printed instrumental silhouettes make proper storage quick and easy
- Holds all MAYFIELD Headrest components
- Measures 32" x 30" (81cmx76cm)

Ordering Information

Step 1 Select OR Table attachment (if required for specific table or patient position)	MAYFIELD NeuroGen Adaptor	A1113
	MAYFIELD Spine Table Adaptor	A2600M
	MAYFIELD Crossbar Adaptor	A1015
	MAYFIELD Universal Side Rail Fitting	A1060
Step 2 Select a Base Unit	MAYFIELD Ultra 360 Patient Positioning System	A2009
	MAYFIELD Ultra Base Unit	A2101
Step 3 Select a Swivel Adaptor	MAYFIELD Swivel Adaptor	A1018
	MAYFIELD Tri-Star Swivel Adaptor	A2008
	MAYFIELD Ball Socket Swivel Adaptor	A1064
	MAYFIELD Modified Swivel Adaptor	A1115
	MAYFIELD Modified Tri-Star Swivel Adaptor	A1116
Step 4 Choose Cranial Fixation (Skull Clamp) or Cranial Stabilization (Headrest)	Cranial Fixation	
	MAYFIELD Modified Skull Clamp	A1059
	MAYFIELD Triad™ Skull Clamp	A1108
	MAYFIELD 2000 Skull Clamp	A2000
	MAYFIELD Infinity Skull Clamp System	A1114
	MAYFIELD Infinity Skull Clamp System (adult rocker arm and 80lb torque screw)	A1114A
	Cranial Stabilization	
	MAYFIELD Adult Horseshoe Headrest	A1012
	MAYFIELD Pediatric Horseshoe Headrest	A1051
	MAYFIELD Adult Horseshoe Headrest (attaches directly to base unit transitional)	A1011
	MAYFIELD General Purpose Headrest	A1008
	Papadopoulos Posterior Cervical Support	A1073
	MAYFIELD Infinity Support System	A1112
Step 4a Select Skull Pin (if necessary) (See page 9 for packaging info)	MAYFIELD Adult Disposable (Stainless Steel and Plastic Base)	A1072
	MAYFIELD Adult Disposable (Stainless Steel)	A1083
	MAYFIELD Child Disposable (Stainless Steel)	A1084
	MAYFIELD Adult Reusable (Stainless Steel)	A1047
	MAYFIELD Child Disposable (Stainless Steel)	A1048
Step 5 Add Accessories (if necessary)	MAYFIELD Horseshoe Conversion Adaptor	A1109
	MAYFIELD Horseshoe Conversion Adaptor w/Knobs	A1110
	Instrument Wall Storage Unit	A1023

United States, Canada, Asia, Pacific, Latin America

USA 800-997-4868 ■ 888-980-7742 fax
Outside USA 609-936-5400 ■ 609-750-4259 fax
integralife.com

Europe, Middle-East, Africa

International: +33 (0)4 37 47 59 50 ■ +33 (0)4 37 47 59 25 fax
Benelux: +32 (0)2 257 4130 ■ +32 (0)2 253 2466 fax
France: +33 (0)4 37 47 59 10 ■ +33 (0)4 37 47 59 29 fax
Germany: +49 (0) 2102 5535 6200 ■ +49 (0)2 102 5536 636 fax
Switzerland: +41 (0)22 721 23 00 ■ +41 (0)22 721 23 99 fax
United Kingdom: +44 (0)1 264 345 780 ■ +44 (0)1 264 363 782 fax
integralife.eu



Immeuble Séquoia 2
97 allée Alexandre Borodine
Parc Technologique de la Porte des Alpes
6800 Saint Priest FRANCE
Phone: +33 (0) 4 37 47 59 00
Fax: +33 (0) 4 37 47 59 99

Manufacturer:



Integra LifeSciences Corporation
4900 Charlemer Drive, Bldg. A
Cincinnati, OH 45227

Availability of these products might vary from a given country or region to another, as a result of specific local regulatory approval or clearance requirements for sale in such country or region.

- Always refer to the appropriate instructions for use for complete clinical instructions.
- Non contractual document. The manufacturer reserves the right, without prior notice, to modify the products in order to improve their quality.
- Warning: Applicable laws restrict these products to sale by or on the order of a physician.

Additional information for EMEA Customers only:

Products mentioned in this document are CE class I, IIa, IIb or III devices. Contact Integra should you need any additional information on devices classification. All the medical devices mentioned on this document are CE marked according to European council directive 93/42/EEC on medical devices and its relatives, unless specifically identified as "NOT CE MARKED".

Integra and the Integra logo are registered trademarks of Integra LifeSciences Corporation or its subsidiaries in the United States and/or other countries. MAYFIELD is a registered trademark of SM USA, Inc. and is used by Integra Life Sciences Corporation under license. Triad is a trademark of Integra LifeSciences Corporation or its subsidiaries. ©2014 Integra LifeSciences Corporation. All rights reserved. Printed in USA. 0252789-1