

Aesculap® Cranial Fixation

Neuro Plating System, CranioFix®2,
CranioFix® absorbable

Neurosurgery



AESCULAP® CRANIAL FIXATION

AESCULAP® KRANIALE FIXIERUNG



Convinces users ...



Convinces patients ...



Every neurosurgical intervention is unique and therefore requires individual treatment. That is why we offer a large variety of products for the cranial fixation: plates and screws, double-sided titanium clamps as well as an absorbable clamp system.

This portfolio allows you to choose the suitable option for your patient.

Neuro Plating System

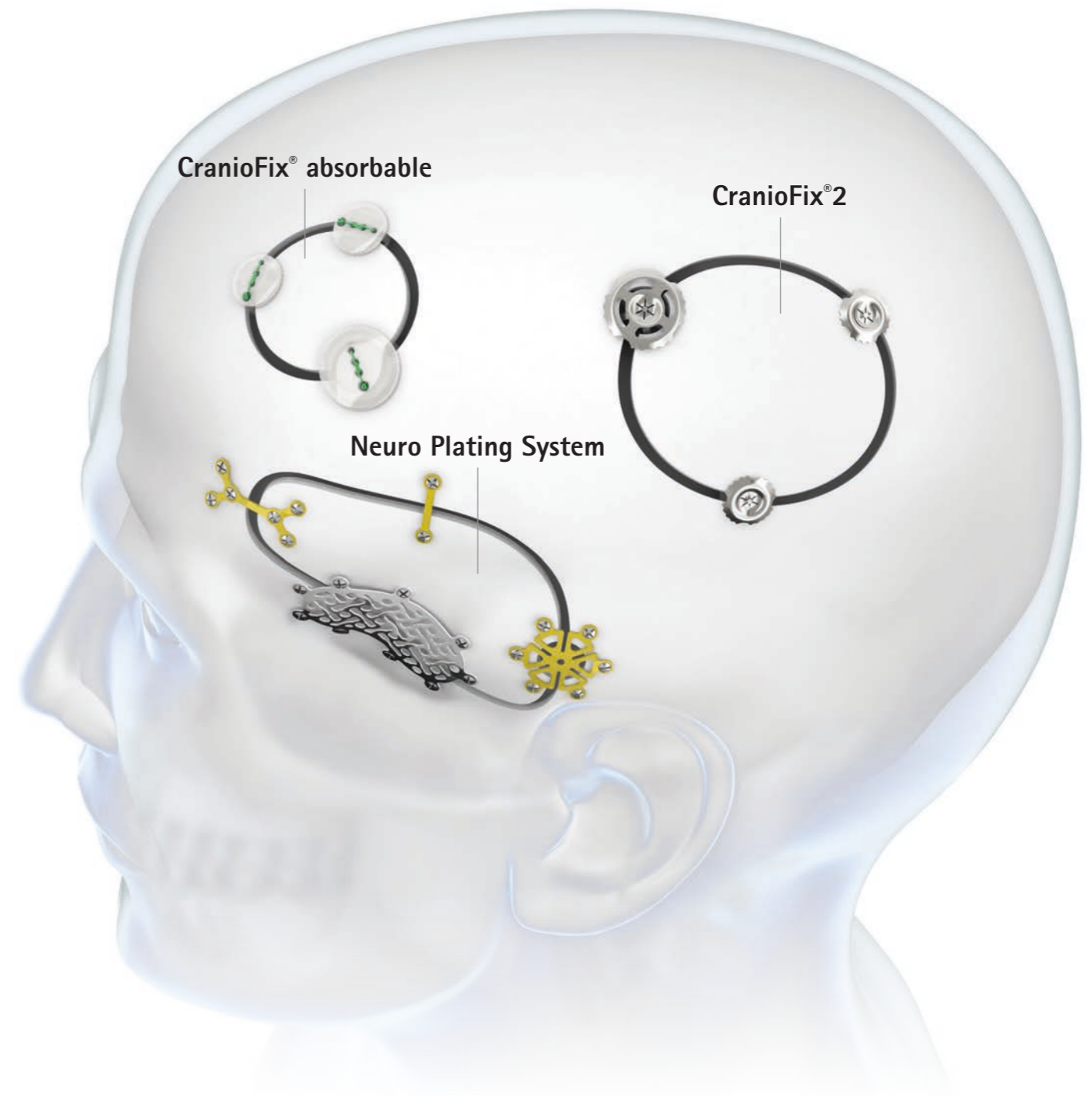
- The universal and reliable plates and screws solution.

CranioFix®2

- Titanium clamp system for a fast and easy application.

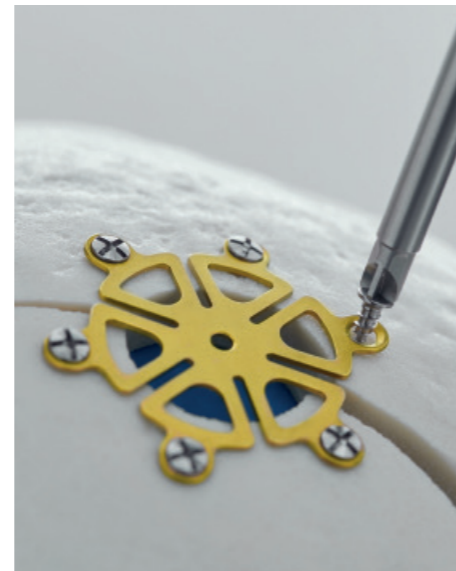
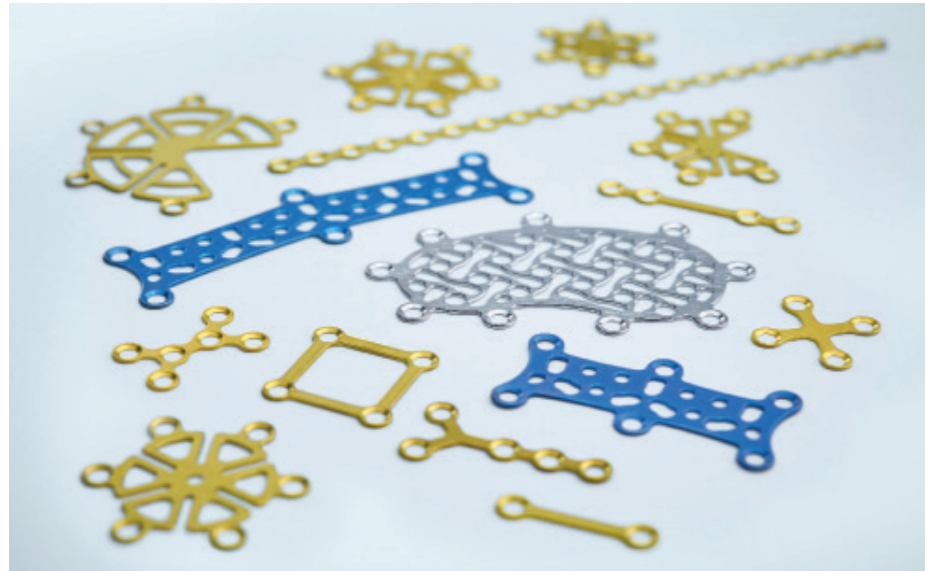
CranioFix® absorbable

- Absorbable clamp system for an unhindered skull growth.



AESFULAP® Neuro Plating System

The universal and reliable plates and screws solution



UNIVERSAL

- System covers a wide range of indications in cranial fixation
- Bendable plates and meshes for complex cases



RELIABLE AND EASY

- Very good connection between screwdriver blade and screw
- Easy and smooth screw insertion
- Battery-powered screwdriver for fast screw insertion
- Prefilled screw magazines



STABLE AND GOOD COSMETIC RESULTS

- 0.4 mm plates and screws made of titanium
- Highest pull-out force when compared to market leading systems
- Small palpability due to low profile plates



















INDIVIDUAL AND SPACE-SAVING

- Modular configuration according to your personal preferences
- Compact tray for storage and reprocessing of plates and screws

AESFULAP® Neuro Plating System

The universal and reliable plates and screws solution





Straight Plates Gerade Platten	Art. No. Art. Nr.	Description Beschreibung	Dimensions Maße
	NST304L02A	2 Hole	12.4 x 3.4 mm
	NST304X02A	2 Hole	15.4 x 3.4 mm
	NST304L04A	4 Hole	21.4 x 3.4 mm
	NST304X04A	4 Hole	24.4 x 3.4 mm
	NST304M05A	5 Hole	21.4 x 3.4 mm
	NST304M06A	6 Hole	25.9 x 3.4 mm
	NST304M10A	10 Hole	43.9 x 3.4 mm
	NST304M20A	20 Hole	88.9 x 3.4 mm
Double-Y-Plates / Y-Plate / X-Plate Doppel-Y-Platten / Y-Platte / X-Platte			
	NDY304M06A	Double-Y-Plate, 6 Hole	14.3 x 9.8 mm
	NDY304L06A	Double-Y-Plate, 6 Hole	18.8 x 9.8 mm
	NYP304M05A	Y-Plate, 5 Hole	20.1 x 9.8 mm
	NXP304M04A	X-Plate, 4 Hole	11.0 x 11.0 mm
Square Plates / Rectangular Plate Quadratische Platten / Rechteckige Platte			
	NSQ304M04A	Square Plate, 4 Hole	12.0 x 12.0 mm
	NSQ304L04A	Square Plate, 4 Hole	14.0 x 14.0 mm
	NSQ304X04A	Square Plate, 4 Hole	16.0 x 16.0 mm
	NRE304M04A	Rectangular Plate, 4 Hole	16.0 x 10.0 mm
Double-Square Plate / Matrix Plates Doppel-Quadrat-Platte / Drei-Quadrat-Platten			
	NDS304M06A	Double Square Plate, 6 Hole	24.0 x 14.0 mm
	NQD304M08A	Matrix Plate, 8 Hole	28.0 x 12.0 mm
	NQD304L08A	Matrix Plate, 8 Hole	34.0 x 14.0 mm

Burrhole Plates Bohrlochabdeckplatten	Art. No. Art. Nr.	Description Beschreibung	Diameter Durchmesser
	NBP304S06A	6 Hole	18.4 mm
	NBP304M06A	6 Hole	21.4 mm
	NBP304L06A	6 Hole	23.4 mm
	NBP304X06A	6 Hole	30.4 mm
Burrhole Calvarium Plates Bohrloch-Calvariumplatten			
	NBC304M06A	6 Hole	25.9 mm
	NBC304L06A	6 Hole	30.9 mm
Burrhole Plates Slot Bohrlochabdeckplatten Spalt			
	NBS304S05A	5 Hole	18.4 x 14.7 mm
	NBS304M05A	5 Hole	21.4 x 16.9 mm
	NBS304L05A	5 Hole	23.4 x 18.4 mm
	NBS304X05A	5 Hole	30.4 x 24.3 mm

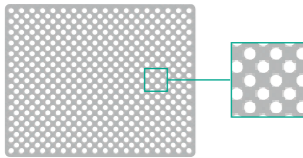
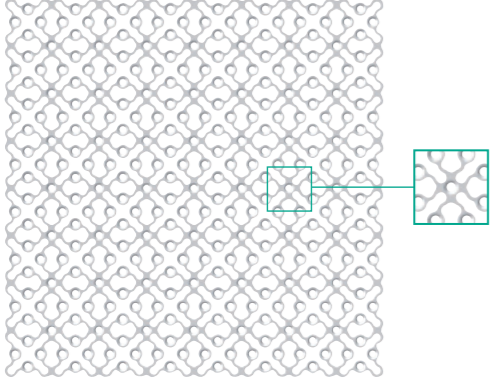
Note: Plates are 0.4 mm thick. Sales unit: ST = 1 piece.

AESFULAP® Neuro Plating System

The universal and reliable plates and screws solution






Gap Plates / Temporal Mesh Plate	Art. No.	Description	Thickness	Dimensions
	NGP204S06A	Gap Plate, short, 6 Hole	0.4 mm	28.8 x 14.5 mm
	NGP204M06A	Gap Plate, medium, 6 Hole	0.4 mm	38.8 x 15.3 mm
	NGP204L06A	Gap Plate, long, 6 Hole	0.4 mm	48.8 x 16.2 mm
	NTE204M00A	Temporal Mesh Plate, 9 Hole	0.4 mm	42.2 x 25.1 mm

Note: Plates are 0.4 mm thick. Sales unit: ST = 1 piece.

Mesh Plates	Art. No.	Description	Thickness	Dimensions
	NME103S00	Mesh Plate	0.3 mm	40.2 x 25.2 mm
	NME103M00		0.3 mm	40.2 x 50.2 mm
	N3D206S00A	3D Mesh Plate	0.6 mm	50.0 x 50.0 mm
	N3D206M00A		0.6 mm	100.0 x 100.0 mm
	N3D206L00A		0.6 mm	150.0 x 150.0 mm
	N3D206X00A		0.6 mm	200.0 x 200.0 mm

Note: Sales unit: ST = 1 piece

silver plates: malleable
 blue plates: rigid
 golden plates: extra rigid

Screws	Art. No.	Description	Diameter	Screw length
	TSN-012	Screw disk with 100 self-drilling screws	1.5 mm	4.0 mm
	TSN-013	Screw Magazine with 6 self-drilling screws	1.5 mm	3.0 mm
	TSN-014	Screw Magazine with 6 self-drilling screws	1.5 mm	5.0 mm
	TSN-015	Screw Magazine with 6 self-tapping rescue screws	1.8 mm	4.0 mm
	TSN-016	Screw Magazine with 6 self-tapping rescue screws	1.8 mm	6.0 mm

MRI COMPATIBILITY


MRI examinations using magnetic fields of 1.5 and 3.0 Tesla do not present an additional risk to Neuro Plating System implant wearers.

AESCULAP® Neuro Plating System

The universal and reliable plates and screws solution

Instruments	Art. No.	Description	Length
	LDS-01	Screwdriver Shaft	75 mm
	IOC-017	Screwdriver (large)	100 mm
	IOC-018	Screwdriver (small)	100 mm
	LDS-02	Screwdriver Shaft for Power Screwdriver	57 mm
	IOC-141	Power Screwdriver Note: Single-use, sterile delivery	175 mm
	NDB-01	Drill Bit (J-Notch-coupling) Diameter: 1.1 mm, drill depth: 4 mm	52 mm
	GP345R	Twist drill for ELAN4-2-Ring handpieces Diameter: 1.1 mm, Incision depth: 4 mm	56 mm
	IOC-033	Holding Forceps angled	130 mm
	IOC-040	Plate Cutter	110 mm
	IOC-041	Mesh Cutter	190 mm
	IOC-070	Plate Bending Pliers	150 mm

Note: Sales unit: ST = 1 piece

Storage	Art. No.	Description	Dimensions
	TPN-007	Tray for storage and reprocessing of Neuro Plating System implants	217 x 157 x 37 mm

Maximal loading of the tray:
Maximale Beladung des Trays:

2 Screwdrivers, 1 Holding Forceps, 1 Plate Cutter,

11 Compartements for Plates

1 Screw Disk with 100 screws

2 Screwdriver Shafts, 1 Drill Bit

6 Screw Magazines with 6 screws

1 large Drawer for Meshes

The Mesh Cutter and the Plate Bending Pliers do not fit into the tray and need to be stored separately.

AESFULAP® Neuro Plating System Sterile Kits

The simple plates and screws solution



SPACE-SAVING

- Plates and implants are stored in one kit

COST-SAVING

- Reduces costs associated with handling, inventorying and reprocessing

TIME-SAVING

- Delivery in sterile condition

EASY HANDLING

- Various configurations for a wide range of bone flaps
- Fully traceable



See-through package for easy identification of plates and screws.


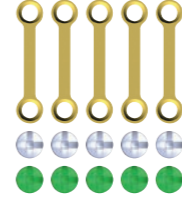

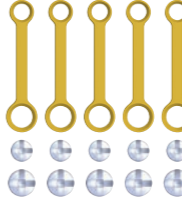


AESCU LAP® Neuro Plating System Sterile Kits

The simple plates and screws solution

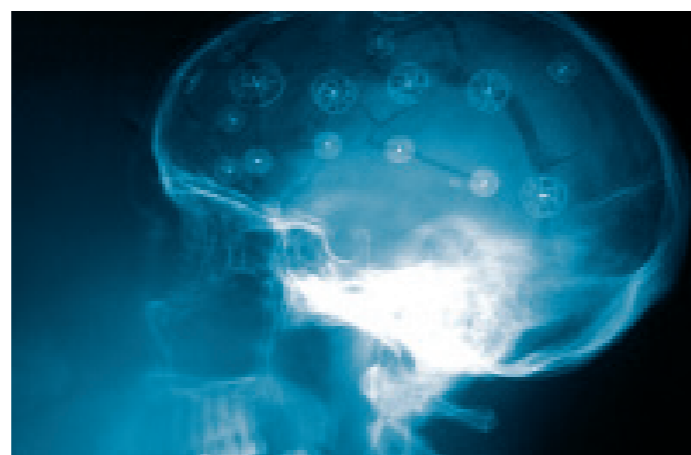
Die einfache Platten und Schrauben-Lösung

Sterile Kits	Art. No.	Content	Quantity	Description
	TCN-011		3 6	Standard long Straight Plate, 2 Hole, 15.4 mm Self-drilling screw, 1.5 x 4 mm
	TCN-021		3 6	Standard short Straight Plate, 2 Hole, 12.4 mm Self-drilling screw, 1.5 x 4 mm
	TCN-031		1 2 10	Standard long Burrhole Plate / Burrhole Plate, 6 Hole, 23.4 mm Straight Plate, 2 Hole, 15.4 mm Self-drilling screw, 1.5 x 4 mm
	TCN-041		1 6	Burrhole Plate Burrhole Plate, 6 Hole, 23.4 mm Self-drilling Screw, 1.5 x 4 mm
	TCN-051		1 5	Burrhole Plate Slot Burrhole Plate Slot, 5 Hole, 23.4 x 18.4 mm Self-drilling screw 1.5 x 4 mm

Sterile Kits	Art. No.	Content	Quantity	Description
	TCN-012		5 5 5	Anatomics Acrylic Straight Plate, 2 Hole, 15.4 mm Self-drilling screw, 1.5 x 4 mm Self-tapping screw, 1.5 x 4 mm
For the fixation of acrylic patient specific implants from Anatomics®				
	TCN-022		5 5 5	Anatomics PoreStar Straight Plate Special, 2 Hole, 15.9 mm Self-drilling screw, 1.5 x 4 mm Self-drilling screw, 1.95 x 4 mm
For the fixation of PoreStar patient specific implants from Anatomics®				

AESCULAP® CranioFix®2

Titanium clamp system for a fast and easy fixation



Approved for the fixation of skull fractures

Introduced in 1997, CranioFix® was the pioneer for clamp-based bone flap fixation. Today CranioFix®2, the second generation, has been established world-wide. Over 3.5 million successfully implanted clamps helped patients in more than 60 countries.

FAST

- Fast application to save valuable OR time

EASY




- Self-explaining application






RELIABLE

- Reproducible fixation with a defined force

MRI COMPATIBILITY

MRI examinations using magnetic fields of 1.5 and 3.0 Tesla do not present an additional risk to CranioFix®2 implant wearers.

CranioFix®2 Implants	Art. No.	Diameter	Unit
	FF490T	11 mm	PAK = 12 pieces
	FF491T	16 mm	PAK = 6 pieces
	FF492T	20 mm	PAK = 6 pieces

CranioFix® 2 Instruments	Art. No.	Description	Length
	FF494R	Applier, with automatic stop	205 mm
	FF105R	Holding forceps	115 mm
	FF103R	Pin Cutter	145 mm
	FF104R	Removal forceps	130 mm
	FF094P	Tray (without instruments)	250 x 250 x 32 mm

AESCULAP® CranioFix® absorbable

Absorbable clamp system for an unhindered skull growth

UNHINDERED SKULL GROWTH

- Particularly suitable for pediatric cases

GOOD COSMETIC RESULTS

- No palpable, visible implants, especially in frontal area

FAST AND EASY APPLICATION

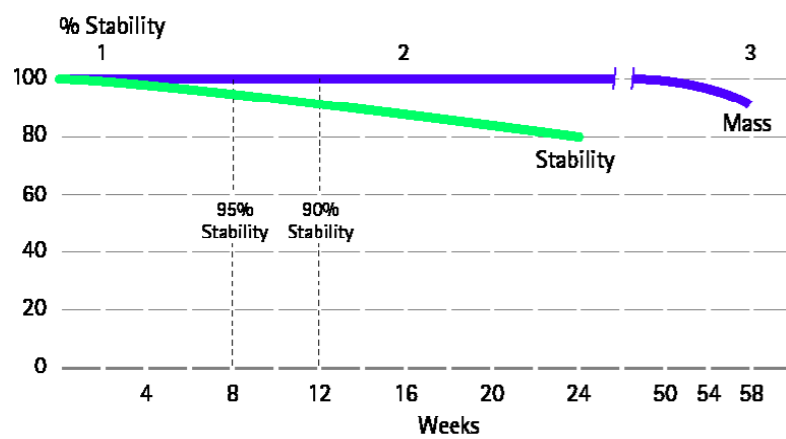
- No instruments needed

ABSORBABLE AND STABLE

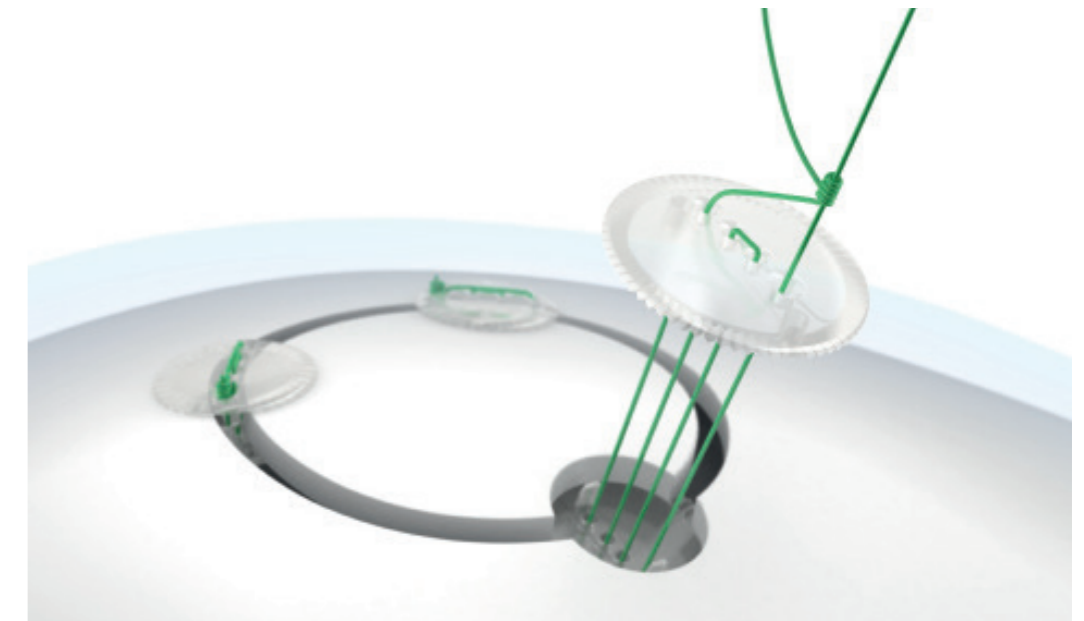
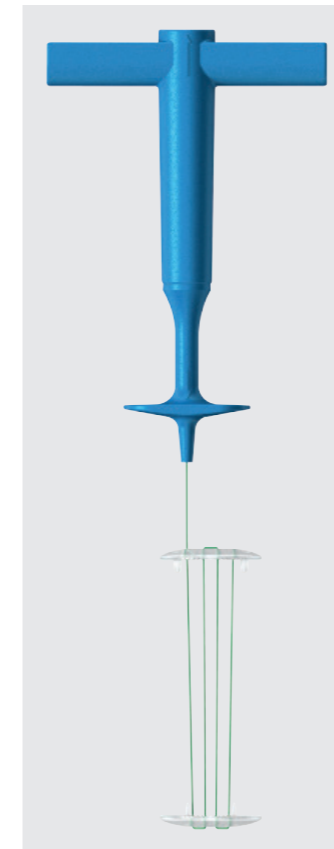
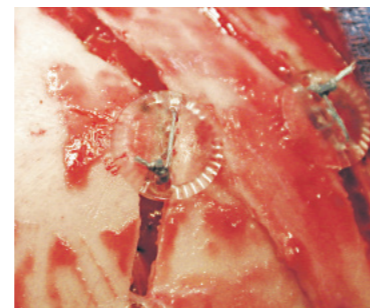
- Made from the clinically proven absorbable polyester material [Poly (L-lactide-co-D, L-Lactide) 70:30]
- An in-vitro study has shown that CranioFix® absorbable retains approximately 90% of its initial strength after 12 weeks. The absorbable material completely disappears within 2-3 years.



CRANIOFIX® ABSORBABLE IN-VITRO STUDY: STABILITY AND MASS

The in-vitro study measures the stability and mass of CranioFix® absorbable implants (only for FF016) with 2 mm depression depth of the bone flap under hydrolysis conditions [Internal study, Aesculap AG, idealized curves, 2003-2005].



- Hydration: Adsorption of water on polymer chains
- Loss of stability: Polymer chains start to break. Degradation of molecular weight
- Loss of mass: Further breakage of polymer chains. Formation of small granular particles.



	Art. No.	Diameter	Description	Unit
	FF016	11 mm	for craniotomy gaps	PAK = 6 pieces
	FF017	16 mm	for burrhole	PAK = 6 pieces



STERILE PACKED

CranioFix® absorbable is sterile packed for immediate use.

MRI COMPATIBILITY

MRI examinations do not present an additional risk to CranioFix® absorbable implant wearers.

AESCULAP® – a B. Braun brand

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Manufacturer acc. to MDD 93/42/EEC of the Neuro Plating System is: Osteonic Co., Ltd., Suite 1206, Ace Techno 3 Cha, 38, Digital-ro 29-gil, Guro-gu, Seoul, Korea

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