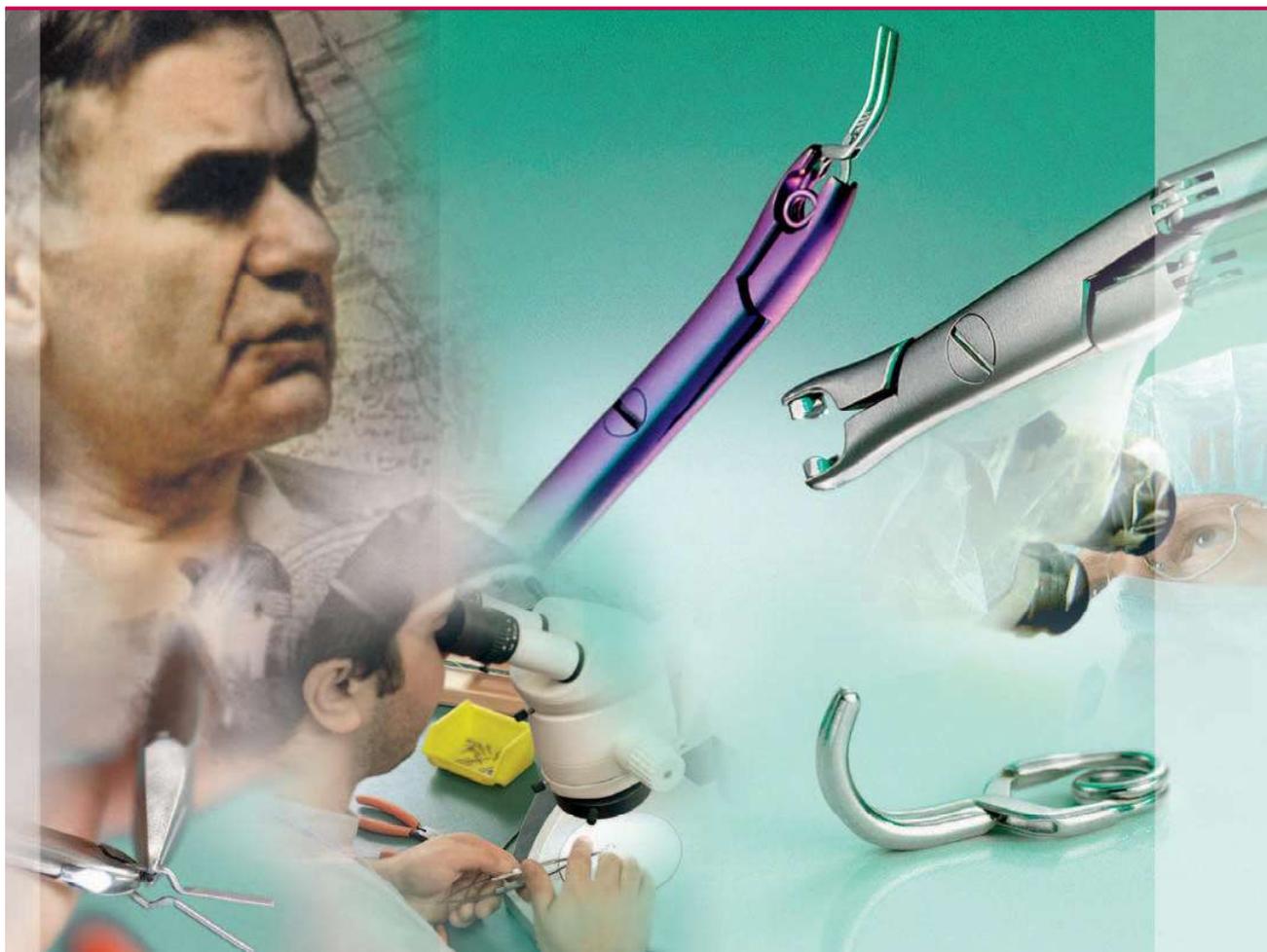


Aesculap Neurosurgery

YASARGIL Aneurysm Clip System

From experienced hands...



...for experienced hands!

B | BRAUN
SHARING EXPERTISE



1968

- First generation YASARGIL Aneurysm Clip made from implant steel with a half spring coil and no jaw guidance

1970

- YASARGIL Aneurysm Clip with 1.5 spring coil and safety ring to optimize closing force and stability

1983

- The YASARGIL Aneurysm Clip made from **Phynox** increases MRI safety. A patented box lock improves the characteristics with regard to the "scissoring" effect.

From experienced hands...for experienced hands!

How can a surgeon be sure that the instruments he is using for lifesaving aneurysm surgery deserve the trust his patients place in him?

The beginning of the success is based on the development of the clip design by the famous Prof. Gazi M. Yasargil.

Then decades of intensive cooperation with other leading neurosurgeons all over the world form the foundation for Aesculap's technical and scientific experience. Experience that is reflected as much in the YASARGIL Aneurysm Clips themselves as in their accompanying instruments and accessories. It is the guarantee for maximum manufacturing precision, particular care and reliability, with the aim of providing the best possible patient treatment.

YASARGIL Aneurysm Clips are the world's leading clips for the treatment of cerebral aneurysms. Since their introduction, over 1.5 million clips have been implanted by thousands of neurosurgeons in more than 80 countries. A milestone in the history of neurosurgery.



1995

- The YASARGIL Aneurysm Clip with 1.5 spring coil made from **titanium** improves postoperative control and diagnosis by reducing the number of artifacts in CT and MRI scans



2004

- The XS Clip Applier meets the demands of keyhole surgery



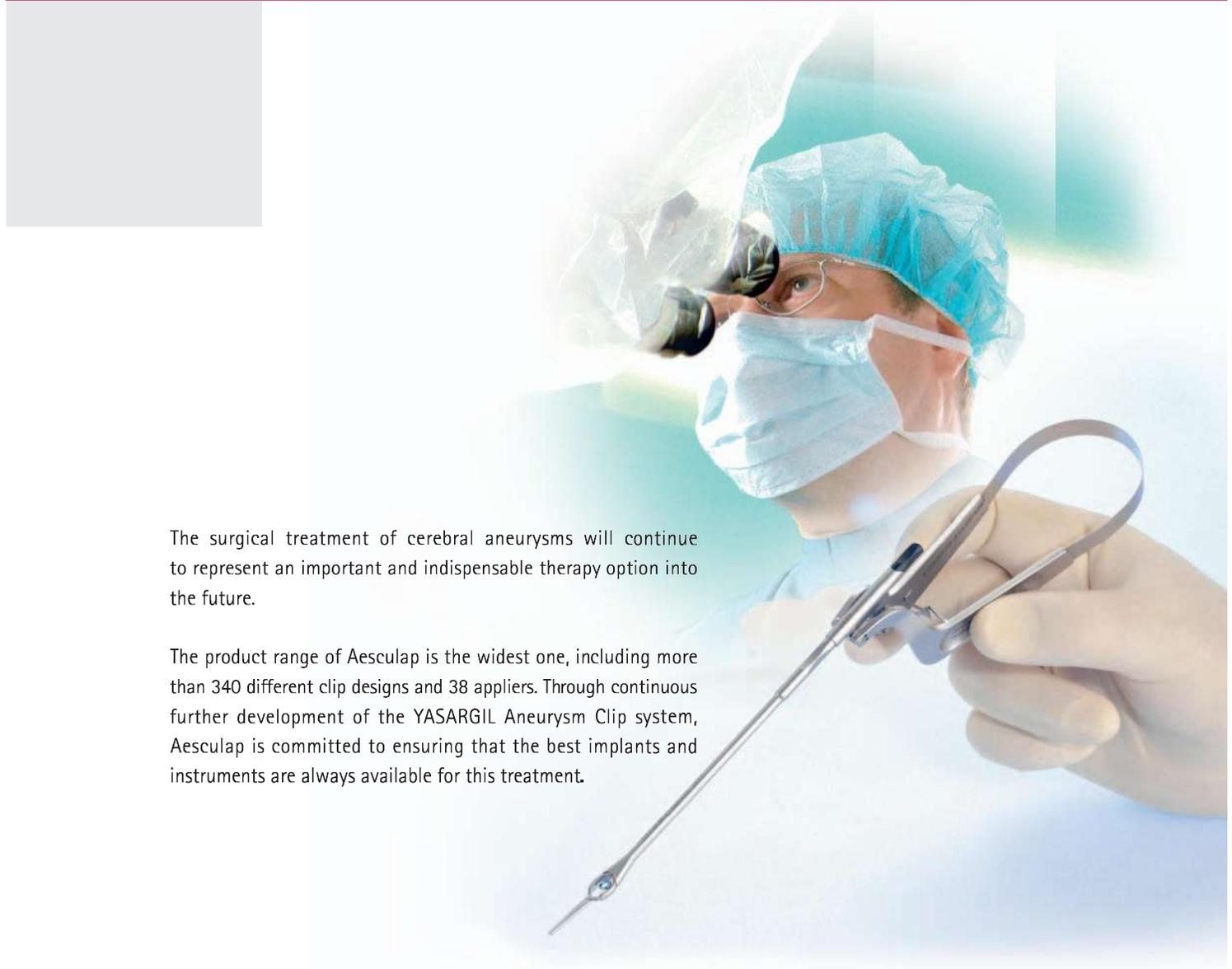
2006

- YASARGIL Aneurysm T-Bar Clip acc. to KOPITNIK made from titanium and Phynox aids and expands treatment possibilities



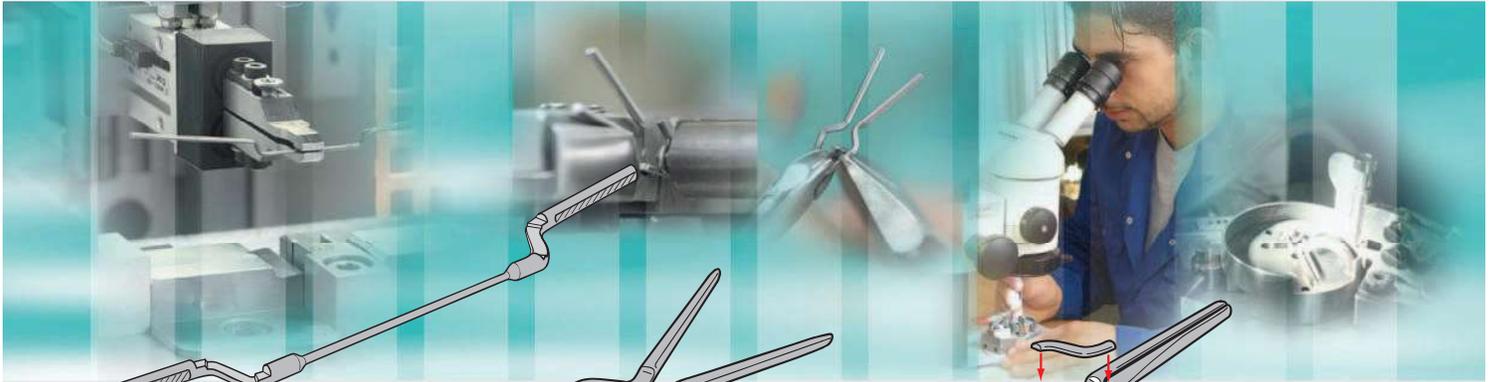
2008

- New Double Bayonet Clip Applier combines top priorities regarding the design of a clip applier.



The surgical treatment of cerebral aneurysms will continue to represent an important and indispensable therapy option into the future.

The product range of Aesculap is the widest one, including more than 340 different clip designs and 38 appliers. Through continuous further development of the YASARGIL Aneurysm Clip system, Aesculap is committed to ensuring that the best implants and instruments are always available for this treatment.



• A simple piece of wire...

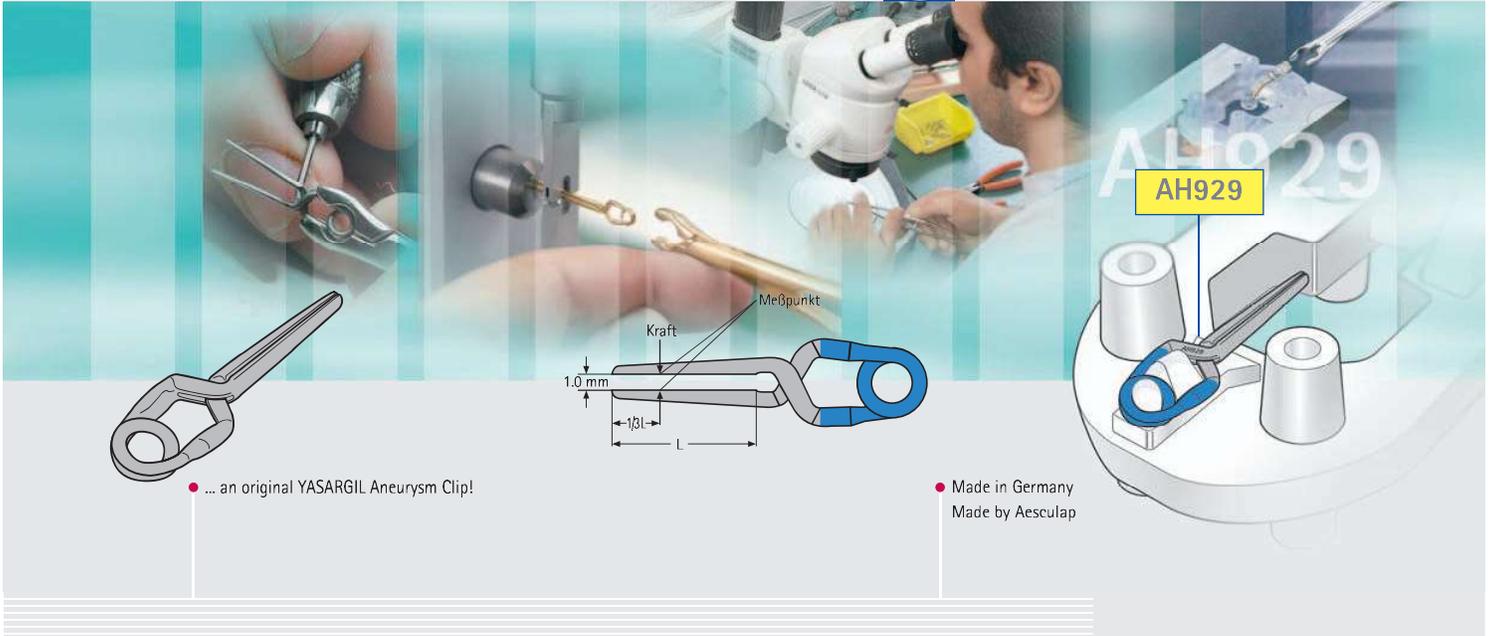
• ... becomes, thanks to advanced high technology and qualified manual work...

Our striving for perfection is your safeguard

YASARGIL Aneurysm Clips are the most sensitive implants in the Aesculap product spectrum. The tiniest quality deviation or failure can have fatal consequences. For this reason, all the production processes for the YASARGIL Aneurysm Clips take place exclusively within Aesculap in Tuttlingen, Germany, under our own control.

Precision manual work and the most advanced high technology are intricately and accurately combined in the manufacture of YASARGIL Aneurysm Clips. A total of approximately 30 different operations is required to produce one clip, and 70% of these are manual. A quality check is performed after each operation.

Despite the high technology and mechanization, it is only possible to achieve the required accuracy within tolerance and the necessary variability manually in the hands of highly qualified production engineers. Decades of experience flow into the continuous improvement of every single manufacturing operation. The goal is to achieve the greatest possible degree of perfection. Our internal quality standards set tolerances that are in some cases as low as hundredths of a millimeter. This is the only way we can approach our goal of the perfect aneurysm clip, with an absolutely smooth, burr-free and therefore atraumatic surface, exact dimensions and a reproducible closing action – a clip you can rely on.

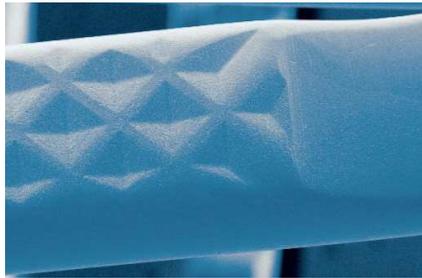


• ... an original YASARGIL Aneurysm Clip!

• Made in Germany
Made by Aesculap



REM image
atraumatic tip of a YASARGIL Clip from Aesculap; smooth surface prevents damage to tissue.



REM image
atraumatic blade profile of a YASARGIL Clip from Aesculap; the deep, symmetrical, pyramidal stamping of both blades doubles the contact surface area and counteracts the slip effect.



REM image
patented box lock of a YASARGIL Clip from Aesculap; the flat design with a broad contact surface ensures smooth opening and closing, stability and safety.

High performance in production

Did you know that...

... 70% of the production is performed manually under the microscope?

... a clip is checked 10 times for dimension, surface and closing force during the production process?

... the profile of the blades is stamped evenly with 24 tons?

... the manufacturing tolerances of 0.02 mm are 10 times smaller than a human hair?

... the clip material for the box lock is 0.3 mm thick?

... the welding seam of the metal plate for the box lock is only 1.3 mm long?

... the welding temperature for the metal plate reaches 4532 °F (2500 °C)?

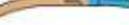
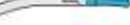
Titanium Standard Clips

- MRI safety, non-ferromagnetic, tested up to 3 Tesla
- minor artifacts in CT and MRI
- color coding with blue spring (standard clip) and golden or silver blades (temporary or permanent clip respectively)
- sterile packaging

TEMPORARY

PERMANENT

TITANIUM STANDARD

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g		Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT240T		7.0	6.2	1.08	110	FT740T		7.0	6.2	1.47	150
FT250T		9.0	7.0	0.88	90	FT750T		9.0	7.0	1.77	180
FT260T		11.0	7.8	0.88	90	FT760T		11.0	7.8	1.77	180
FT280T		15.0	9.2	0.88	90	FT780D		15.0	9.2	1.96	200
FT292T		17.5	10.6	0.88	90	FT792D		17.5	10.6	1.96	200
FT290T		20.0	11.4	1.08	110	FT790D		20.0	11.4	1.96	200
FT242T		6.5	6.0	1.08	110	FT742T		6.5	6.0	1.47	150
FT252T		8.3	6.8	0.88	90	FT752T		8.3	6.8	1.77	180
FT262T		10.2	7.5	0.88	90	FT762T		10.2	7.5	1.77	180
FT282T		13.7	8.7	1.08	110	FT782T		13.7	8.7	1.96	200
FT286T		15.3	9.8	0.88	110	FT786T		15.3	9.8	1.77	180
FT244T		5.4	5.5	1.08	110	FT744T		5.4	5.5	1.47	150
FT254T		6.4	6.1	1.08	110	FT754T		6.4	6.1	1.77	180



■ for identification all clips are marked with serial number and article number

TEMPORARY

PERMANENT

TITANIUM STANDARD

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT264T		8.0	6.5	1.08	110
FT284T		10.3	7.4	1.08	110
FT323T		7.4	5.4	1.08	110
FT324T		8.4	5.8	1.08	110
FT325T		10.5	6.2	1.08	110
	Height of step 2.5 mm				
FT270T		5.0	8.0	1.08	110
	Height of step 3.5 mm				
FT271T		5.0	8.0	1.08	110
	Height of step 4.5 mm				
FT272T		5.0	8.0	1.08	110
FT248T		7.0	7.9	0.88	90
FT258T		9.0	8.7	0.88	90
FT259T		12.0	10.2	0.88	90
FT103T		6.1	6.5	1.08	110
FT113T		8.0	6.2	1.08	110

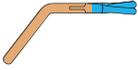
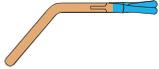
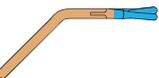
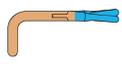
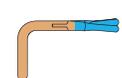
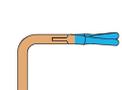
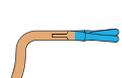
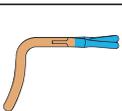
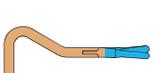
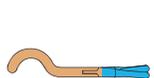
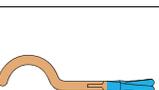
Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT764T		8.0	6.5	1.77	180
FT784T		10.3	7.4	1.96	200
FT823T		7.4	5.4	1.77	180
FT824T		8.4	5.8	1.77	180
FT825T		10.5	6.2	1.77	180
	Height of step 2.5 mm				
FT770T		5.0	8.0	1.96	200
	Height of step 3.5 mm				
FT771T		5.0	8.0	1.96	200
	Height of step 4.5 mm				
FT772T		5.0	8.0	1.96	200
FT748T		7.0	7.9	1.96	200
FT758T		9.0	8.7	1.96	200
FT759T		12.0	10.2	1.96	200
FT603T		6.1	6.5	1.96	200
FT613T		8.0	6.2	1.96	200

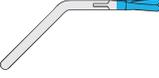
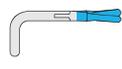
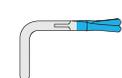
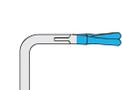
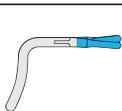
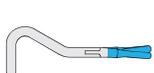
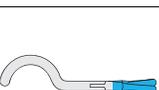
Titanium Standard Clips

TEMPORARY

PERMANENT

TITANIUM STANDARD

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT310T		9.0	6.5	1.08	110
FT123T		10.6	7.8	1.08	110
FT263T		11.8	8.4	1.08	110
FT319T		5.0	5.6	1.28	130
FT320T		7.0	4.5	1.28	130
FT322T		10.0	5.6	1.28	130
FT350T		6.7	5.4	1.28	130
FT351T		9.0	5.6	1.28	130
FT330T		7.0	7.2	0.88	90
FT332T		9.3	7.2	0.88	90
FT333T		11.3	8.2	0.88	90

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT810T		9.0	6.5	1.96	200
FT623T		10.6	7.8	1.96	200
FT763T		11.8	8.4	1.67	170
FT819T		5.0	5.6	1.96	200
FT820T		7.0	4.5	1.96	200
FT822T		10.0	5.6	1.96	200
FT850T		6.7	5.4	1.96	200
FT851T		9.0	5.6	1.96	200
FT830T		7.0	7.2	1.96	200
FT832T		9.3	7.2	1.96	200
FT833T		11.3	8.2	1.96	200

TEMPORARY

PERMANENT

TITANIUM STANDARD

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT246T		7.0	5.7	0.88	90
FT273T		7.8	5.3	0.88	90
FT261T		11.4	8.0	0.88	90
FT247T		8.6	7.0	0.88	90

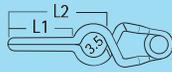
Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT746T		7.0	5.7	1.96	200
FT773T		7.8	5.4	1.77	180
FT761T		11.4	8.0	1.96	200
FT747T		8.6	7.0	1.77	180

Titanium Fenestrated Clips

TEMPORARY

PERMANENT

TITANIUM STANDARD



Diameter of fenestration 3.5 mm

Cat. No.

Blade length mm L1/L2 Maximal opening mm Closing force N g

FT097T  3/8.1 7.5 1.08 110

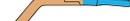
FT098T  4/9.1 7.4 1.08 110

FT099T  5/10.1 7.4 1.08 110

FT100T  6/11.1 7.4 1.08 110

FT110T  9/14.1 8.4 1.08 110

FT120T  12/17 9.6 1.08 110

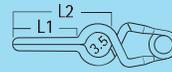
FT102T  5/7.8 5.8 1.08 110

FT112T  7.5/9.4 6.5 1.08 110

FT122T  10/11 7.2 1.08 110

FT104T  5/5.1 4.9 1.08 110

FT114T  7.5/5.1 4.9 1.08 110



Diameter of fenestration 3.5 mm

Cat. No.

Blade length mm L1/L2 Maximal opening mm Closing force N g

FT597T  3/8.1 7.5 1.47 150

FT598T  4/9.1 7.4 1.47 150

FT599T  5/10.1 7.4 1.47 150

FT600T  6/11.1 7.4 1.47 150

FT610T  9/14.1 8.4 1.47 150

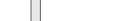
FT620T  12/17 9.6 1.77 180

FT602T  5/7.8 5.8 1.47 150

FT612T  7.5/9.4 6.5 1.47 150

FT622T  10/11 7.2 1.77 180

FT604T  5/5.1 4.9 1.47 150

FT614T  7.5/5.1 4.9 1.47 150



TEMPORARY

PERMANENT



Diameter of fenestration 5 mm

Cat. No.

Blade length mm Maximal opening mm Closing force N g

FT137T



3/9.8 7.4 1.08 110

FT138T



4/10.8 7.4 1.08 110

FT139T



5/11.8 7.4 1.08 110

FT140T



6/12.7 7.9 1.08 110

FT150T



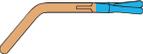
9/15.7 9.1 1.08 110

FT142T



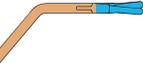
5/9 6.5 1.08 110

FT152T



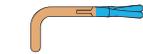
7.5/10.6 7.2 1.08 110

FT162T



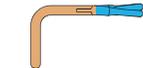
10/12.2 7.8 1.08 110

FT144T

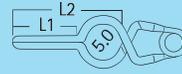


5/6.7 5.5 1.08 110

FT154T



7.5/6.7 5.5 1.08 110



Diameter of fenestration 5 mm

Cat. No.

Blade length mm Maximal opening mm Closing force N g

FT637T



3/9.8 7.4 1.47 150

FT638T



4/10.8 7.4 1.47 150

FT639T



5/11.8 7.4 1.47 150

FT640T



6/12.7 7.9 1.47 150

FT650T



9/15.7 9.1 1.47 150

FT642T



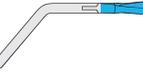
5/9.4 6.5 1.47 150

FT652T



7.5/10.6 7.2 1.47 150

FT662T



10/12.2 7.8 1.77 180

FT644T



5/6.7 5.5 1.47 150

FT654T



7.5/6.7 5.5 1.47 150

TITANIUM STANDARD

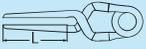
Titanium Mini Clips

- MRI safety, non-ferromagnetic, tested up to 3 Tesla
- minor artifacts in CT and MRI
- color coding with violet spring (mini clip) and golden or silver blades (temporary or permanent clip respectively)
- sterile packaging

TEMPORARY

PERMANENT

TITANIUM MINI

Cat. No.		Blade length mm	Maximal opening mm	Closing force N	Closing force g
FT180T		3.0	3.3	0.88	90
FT190T		5.0	4.0	0.69	70
FT200T		3.0	3.3	0.88	90
FT210T		5.0	4.0	0.69	70
FT220T		7.0	4.6	0.69	70
FT182T		2.8	3.2	0.88	90
FT194T		4.0	3.6	0.78	80
FT192T		4.7	3.8	0.69	70
FT211T		4.0	3.6	0.78	80
FT212T		4.7	3.8	0.69	70
FT213T		4.0	3.6	0.78	80
FT226T		5.2	4.0	0.69	70
FT222T		6.6	4.4	0.69	70

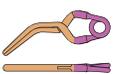
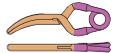
Cat. No.		Blade length mm	Maximal opening mm	Closing force N	Closing force g
FT680T		3.0	3.3	1.08	110
FT690T		5.0	4.0	1.08	110
FT700T		3.0	3.3	1.08	110
FT710T		5.0	4.0	1.08	110
FT720T		7.0	4.6	1.08	110
FT682T		2.8	3.2	1.08	110
FT694T		4.0	3.6	1.08	110
FT692T		4.7	3.8	1.08	110
FT711T		4.0	3.6	1.08	110
FT712T		4.7	3.8	1.08	110
FT713T		4.0	3.6	1.08	110
FT726T		5.2	4.0	1.08	110
FT722T		6.6	4.4	1.08	110

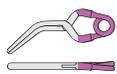
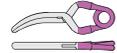


- for distinction the temporary clips are marked with 3 transverse lines on the proximal spring
- for identification all clips are marked with serial number and article number

TEMPORARY

PERMANENT

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT214T		3.9	3.5	0.78	80
FT224T		5.0	4.0	0.69	70
FT216T		5.0	3.5	0.69	70
FT307T		4.7	4.0	0.69	70
FT217T		6.3	6.0	0.69	70
FT227T		4.0	7.0	0.69	70
FT228T		7.0	5.7	0.69	70
FT306T		7.0	4.5	0.69	70

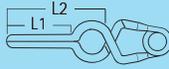
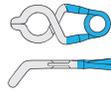
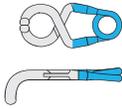
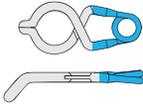
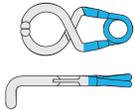
Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT714T		3.9	3.5	1.08	110
FT724T		5.0	4.0	1.08	110
FT716T		5.0	3.5	1.08	110
FT807T		4.7	4.0	1.08	110
FT717T		6.3	6.0	1.08	110
FT727T		4.0	7.0	1.08	110
FT728D		7.0	5.7	1.08	110
FT806T		7.0	4.5	1.08	110

TITANIUM MINI



ULTRA SHORT FENESTRATED Aneurysm Clip

PERMANENT

Cat. No.		Blade length mm L1/L2	Maximal opening mm	Closing force N	Diam. of fenestration mm
FT902T		3.0/6.3	5.8	1.47	3.5
FT904T		3.0/5.1	4.9	1.47	3.5
FT942T		3.0/8.1	6.0	1.47	5.0
FT944T		3.0/6.7	5.5	1.47	5.0

TITANIUM STANDARD

Titanium Reinforcing Clip

PERMANENT

Titanium reinforcing clip to increase the closing force of YASARGIL Titanium Standard Aneurysm Clips.



Cat. No.

FT900T

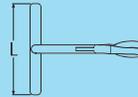


Titanium T-Bar Clips acc. to KOPITNIK

PERMANENT



Diameter of fenestration 5 mm



Cat. No.

Blade length
mm

Angle

Maximal
opening mm

Closing force
N g

Aneurysm clip with a unique design

The blades of the T-Bar Clip are oriented in a 90° or 45° angle to the axis of the spring plane resulting in a T-like clip form. The unique shape opens up new options for the treatment of complicated cerebral aneurysms. The spring type is identical to the existing and proven standard YASARGIL Aneurysm Clip with a 5 mm diameter fenestration.

FT852T



5.0

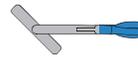
45°

5.5

1.47

150

FT853T



9.0

45°

5.5

1.47

150

FT854T



5.0

90°

5.5

1.47

150

FT855T



9.0

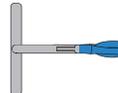
90°

5.5

1.47

150

FT856T



13.0

90°

5.5

1.77

180

Aesculap® Yasargil Aneurysmen-Clip-System Titan T-Bar Clips

PERMANENT



Fensterdurchmesser 5 mm

Art. Nr.		Maullänge mm	Winkel	maximale Öffnung mm	Schließkraft N	g
FT852T		5,0	45°	5,5	1,47	150
FT853T		9,0	45°	5,5	1,47	150
FT854T		5,0	90°	5,5	1,47	150
FT855T		9,0	90°	5,5	1,47	150
FT856T		13,0	90°	5,5	1,77	180
FT864T		9,0	90°	5,5	1,47	150
FT865T		13,0	90°	5,5	1,77	180

Einzigartiges Clipdesign

Die Ebene der Maulteile liegt T-förmig im 90° oder 45° Winkel zur Ebene der Clipfeder. Diese besondere Form erweitert die Therapieoptionen bei der Behandlung von zerebralen Aneurysmen.

Die Federgeometrie ist identisch mit den anderen Yasargil Aneurysmen-Clips in Standardgröße und einer 5 mm Fensterung.

Titanium Clip Applier

Standard

Mini

Vario Clip Applier

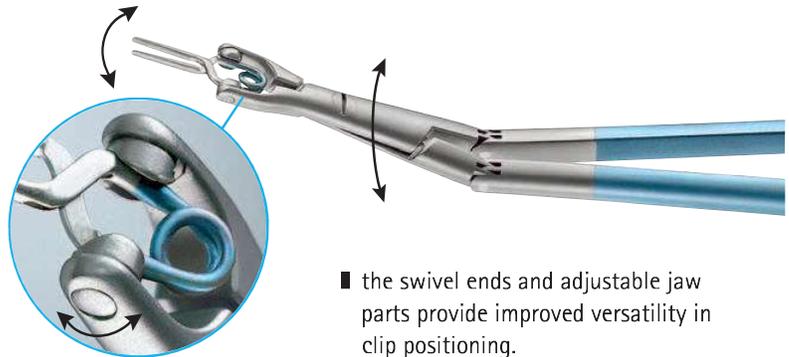
TITANIUM APPLYING FORCEPS

FT412T

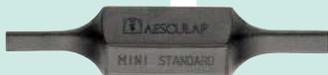
FT402T



220 mm, 8 3/4"



■ the swivel ends and adjustable jaw parts provide improved versatility in clip positioning.



FT402/800

Adjusting Key



■ adjusting Key for Vario Clip Applier for setting the swivel at an angle



■ color coding blue for standard and violet for mini clips

Standard

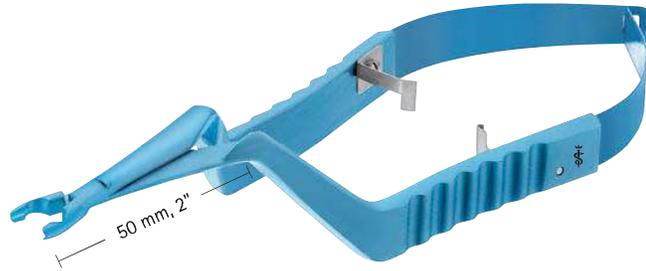
Mini

YASARGIL Clip Applier

TITANIUM APPLYING FORCEPS

FT480T

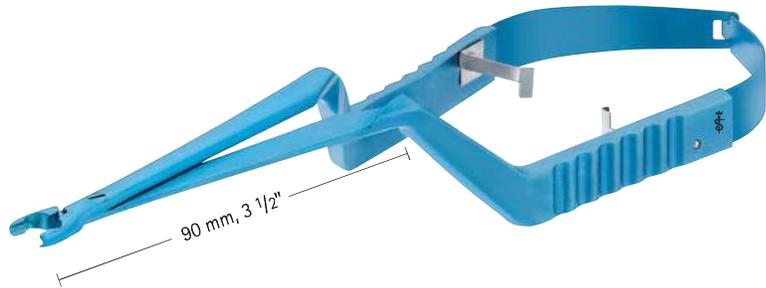
FT470T



180 mm, 7"

FT482T

FT472T



220 mm, 8 3/4"



straight

FT485T

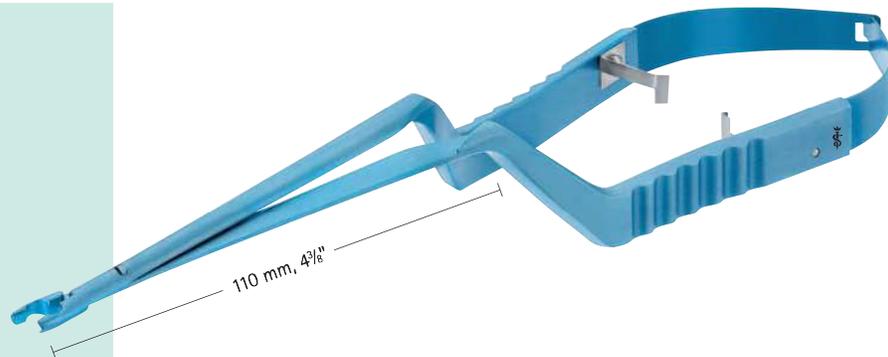
FT475T



15° angled

FT484T

FT474T



250 mm, 10"



straight

FT487T

FT477T



15° angled

Titanium Clip Applier

Standard

Mini

XS Clip Applier

TITANIUM APPLYING FORCEPS

- 360° rotation
- suitable for narrow approach



220 mm, 8 3/4"

FT495T

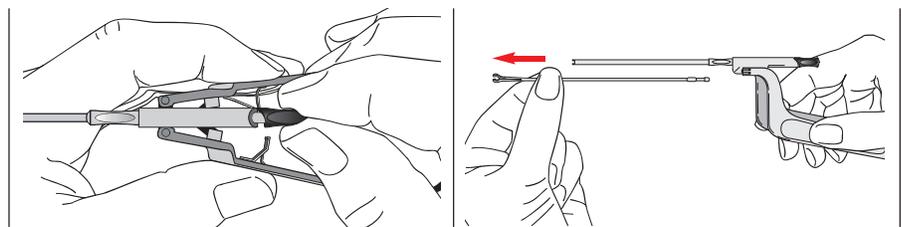
FT490T



240 mm, 9 1/2"

FT496T

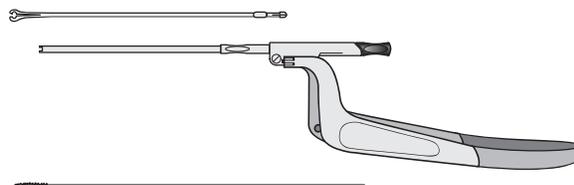
FT491T



Disassembly

The XS Applier is detachable into 2 parts for thorough cleaning.

A cleaning brush is provided free of charge with every applier.



Storage

FT007P
FT006P

Clip Tray 1/1

for storage, transport and sterilization of Aesculap YASARGIL Aneurysm Clips.

- autoclavable plastic
- fits 1/1 standard container
- 34 storage compartments for Standard and Mini Clips
- 4 storage compartments for Long Clips
- with special identification tags for individual tray configuration

Clip Tray 1/2

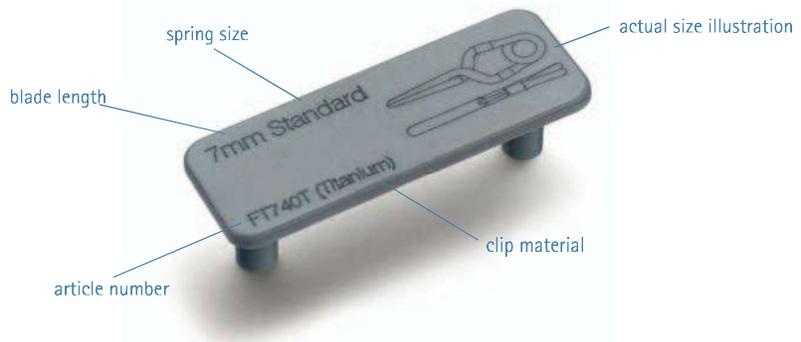
for storage, transport and sterilization of Aesculap YASARGIL Aneurysm Clips.

- autoclavable plastic
- fits 1/2 standard container
- 18 storage compartments for Standard and Mini Clips
- 3 storage compartments for Long Clips
- with special identification tags for individual tray configuration



Identification tags for the Clip Trays

allow quick and easy recording of the necessary clip data; helpful for classifying and reordering the clips that have been removed.



-----TAG

For each clip variant there is a matching identification tag. The catalog numbers of the tags are as follows:
Cat. No. of clip + "-TAG"

e.g.: FT740T-TAG is the identification tag for the clip FT740T

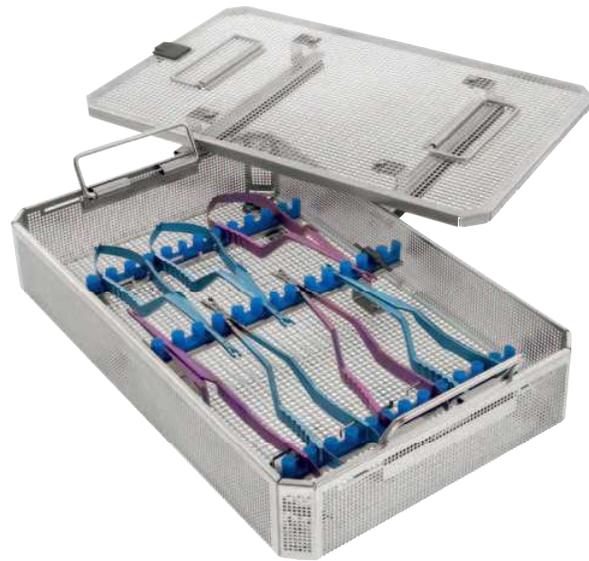
The identification tags for temporary clips are yellow and for permanent clips grey in line with the color coding of the YASARGIL Aneurysm Clips.



FM665R

Storage of applying forceps

perforated basket with lid for storage of clip applying forceps



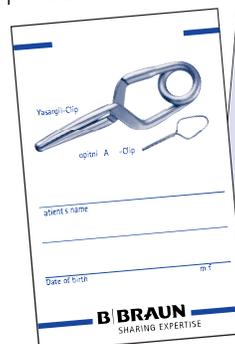
STORAGE + ACCESSORIES

Address: www.aesculap-extra.net

Patient identification card for YASARGIL Clip implants

- provides safety for physician and patient safety for follow-ups
- information about 3 Tesla safety of Aesculap YASARGIL Aneurysm Clips
- printed version available in German and English
- download from the Extranet possible:

- C07801 ID in German
- C07802 ID in English
- C07803 ID in French
- C07804 ID in Italian
- C07805 ID in Spanish
- C07892 ID in Japanese



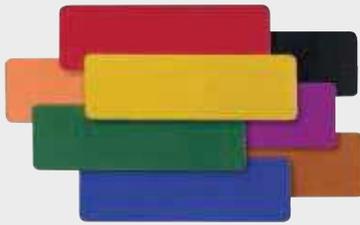
Identification labels



JG785B	red
JG786B	blue
JG787B	green
JG788B	gold
JG790B	black
JG792B	olive-brown
JG793B	violet
JG794B	orange

Identification labels with lettering one line or two lines (character height 5 mm), up to 13 characters per line.
 Dimensions: 56 x 18 mm
 for all Standard sterile containers except JK299, JK309 and JK339

Note: Process aluminum identification labels with pH-neutral cleaning agent.



JG785U	red
JG786U	blue
JG787U	green
JG788U	gold
JG790U	black
JG792U	olive-brown
JG793U	violet
JG794U	orange

Identification labels without lettering

Specifications as above

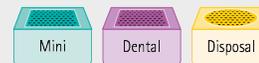
Note: Process aluminum identification labels with pH-neutral cleaning agent.



JG645B	red
JG646B	blue
JG647B	green
JG648B	gold
JG650B	black
JG652B	olive-brown
JG653B	violet
JG654B	orange

Identification labels with lettering one line or two lines (character height 5 mm), up to 13 characters per line.
 Dimensions: 50 x 18 mm
 for Mini-, Dental-, Scope Sterile container, Disposal container and JK299, JK309, JK339

Note: Process aluminum identification labels with pH-neutral cleaning agent.



JG645U	red
JG646U	blue
JG647U	green
JG648U	gold
JG650U	black
JG652U	olive-brown
JG653U	violet
JG654U	orange

Identification labels without lettering

Specifications as above

Note: Process aluminum identification labels with pH-neutral cleaning agent.



All dimensions: Length x Width x Height (mm)

PrimeLine – Size 1/1

Sterile container bodies
without base perforation = JK



	Outside dimensions Length x Width x Height (mm)
JK440	592 x 274 x 90
JK441	592 x 274 x 120
JK442	592 x 274 x 135
JK444	592 x 274 x 187
JK446	592 x 274 x 247

Lids for individual color combination



	Color
JP001	red
JP002	blue
JP003	green
JP004	ocher
JP005	gray
JP006	anthracite
JP007	clear lid (transparent)

All dimensions: Length x Width x Height (mm)

Vario



The Vario System, made of aluminum, features an additional cover over the perforation field. This makes it particularly suitable for longer-distance or external transports.

For storage over extended periods, the protective lid reduces the dust exposure of the filters.

The Vario System too can be used with single-use sterile filters or with Aesculap PTFE permanent filters for 1,000 sterilisation cycles.



PrimeLine



Primeline konteineriai pasižymi plastikiniu dangčiu su integruota ilgalaikė bakterinė apsaugos sistema, užtikrinančia 5000 ciklų.

PrimeLine features a plastic lid with the integrated permanent germ barrier system, PSP (Permanent Sterile Protection System), validated for 5,000 cycles. With this system, filter changes are a thing of the past. The special plastic material makes the PrimeLine lids resistant against impact, scratches, deformation and discoloration over the entire service life.

A transparent lid (clear plastic) is available as a special variant.

Aesculap[®] Kopitnik AVM Microclip System

For the treatment of arteriovenous malformations.



Aesculap Neurosurgery

Aesculap® Kopitnik AVM Microclip System

The complete product program

For the first time not only straight AVM clips, but also AVM clips with curved blades are available. Each clip comes in four different blade lengths: 2, 3, 4 or 5 mm.

Unique: temporary or permanent application

Depending on the intraoperative situation, the clips can be applied temporarily and removed again after the operation, or they are simply left on the vessel as permanent implants. The Kopitnik AVM Microclips allow both modes of application.

Phynox ... an established material



All clips are made of Phynox, a special cobalt-based alloy. This material has been used for manufacturing e.g. Yasargil Aneurysm Clips for over 20 years. It is characterized by its excellent biocompatibility and MR-safety. This MR-conditional material allows postoperative radiological examinations at up to 3.0 Tesla.

Excellent grip



All Kopitnik AVM Microclips exert a pre-defined closing force of between 50 to 70 gram. They also feature a special, pyramid-shaped structure stamped on the inner blade surfaces. This surface structure allows the tissue to sink in between the pyramid shapes and thus doubles the contact surface for the tissue. Through that the AVM Microclip has always a precise grip of the vessel.

More than just packaging ...



The clips are supplied in ergonomically shaped plastic packaging, which can be autoclaved as a whole. Within this packaging, the clip is bedded in a small silicone sponge in such a way that the clip applicator itself can be used for grasping and taking the clip from the packaging.

Kopitnik AVM Microclips straight, closing force between 50 g and 70 g

Blade length	Max. opening width	Single pack	4-pack
2 mm, 1/13"	1.5 mm, 1/17"	FE902K	FE922K
3 mm, 1/8"	1.7 mm, 1/15"	FE903K	FE923K
4 mm, 1/6"	2.0 mm, 1/13"	FE904K	FE924K
5 mm, 1/5"	2.3 mm, 1/11"	FE905K	FE925K



Kopitnik AVM Microclips curved, closing force between 50 g and 70 g

Blade length	Max. opening width	Single pack	4-pack
2 mm, 1/13"	1.5 mm, 1/17"	FE912K	FE932K
3 mm, 1/8"	1.7 mm, 1/15"	FE913K	FE933K
4 mm, 1/6"	2.0 mm, 1/13"	FE914K	FE934K
5 mm, 1/5"	2.3 mm, 1/11"	FE915K	FE935K



AVM Clip Applier – XS-Design

Working length	Single pack
40 mm, 1½"	FE906K
70 mm, 2¾"	FE907K
90 mm, 3½"	FE908K
110 mm, 4¼"	FE909K



AVM Clip Applier

Working length	Single pack
70 mm, 2¾"	FE917K
90 mm, 3½"	FE918K

