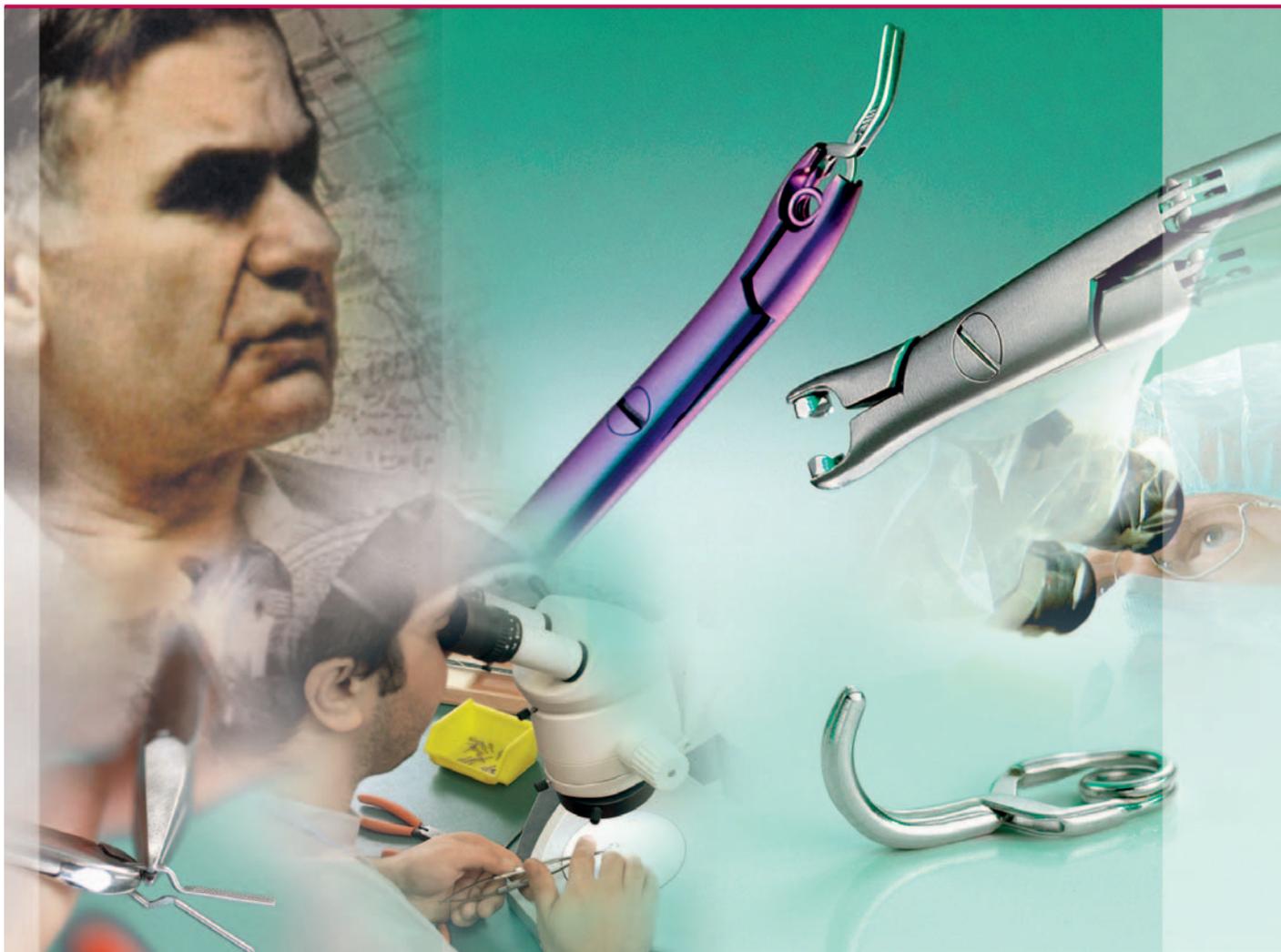


# Aesculap Neurosurgery

## YASARGIL Aneurysm Clip System

Yasargil aneurizmų klipsai

From experienced hands...



...for experienced hands!



**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.

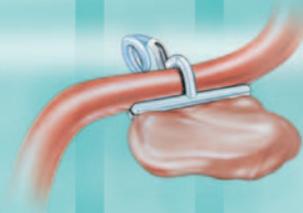
## From experienced hands...for experienced hands!

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



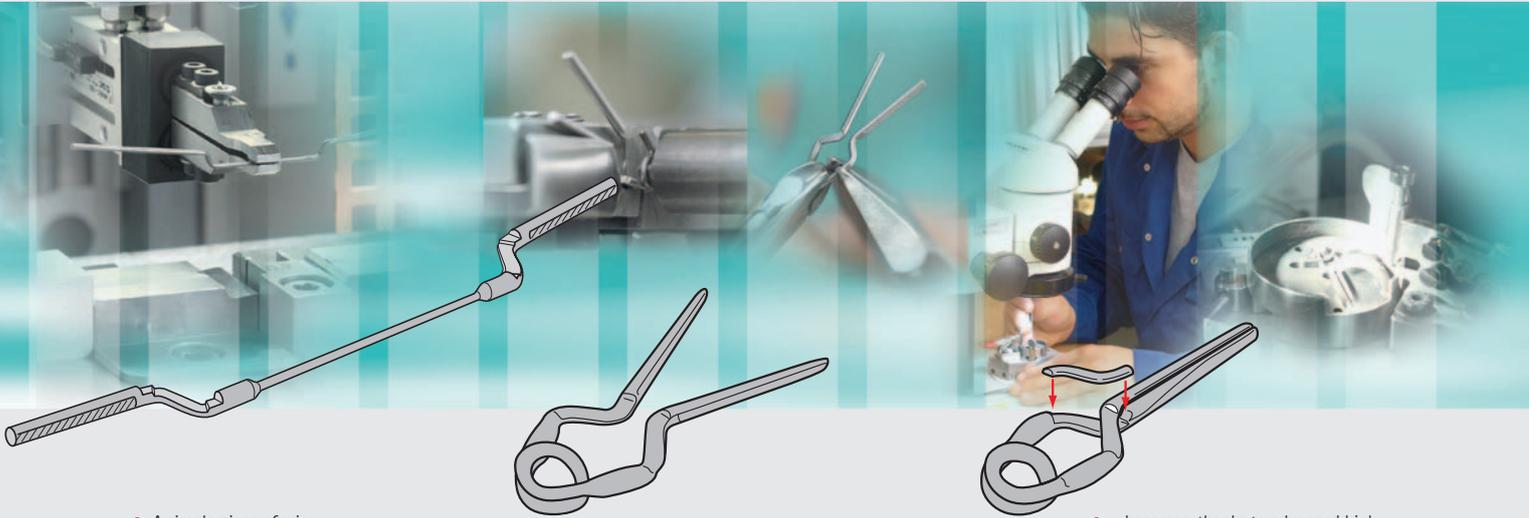
2008

- 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...

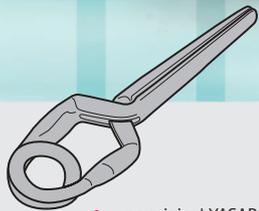
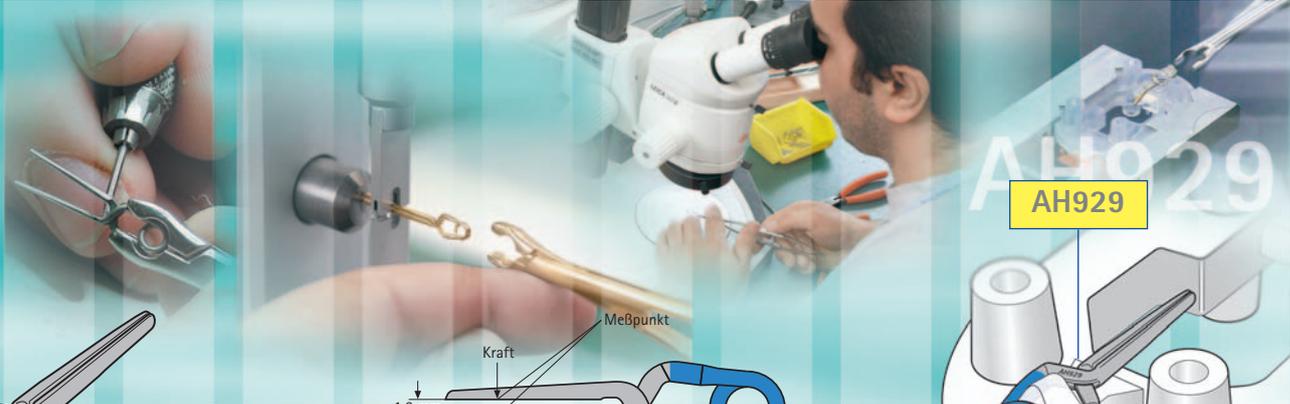
● ... becomes, thanks to advanced high technology and qualified manual work,...

## Our striving for perfection is your safeguard

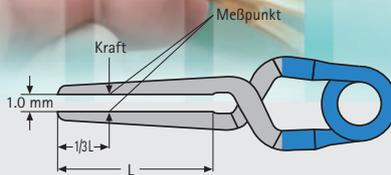
YASARGIL Aneurysm Clips are the most sensitive implants in the Aesculap product spectrum. The tiniest quality deviation or failure can have fatal consequences. For this reason, all the production processes for the YASARGIL Aneurysm Clips take place exclusively within Aesculap in Tuttlingen, Germany,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

## 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?

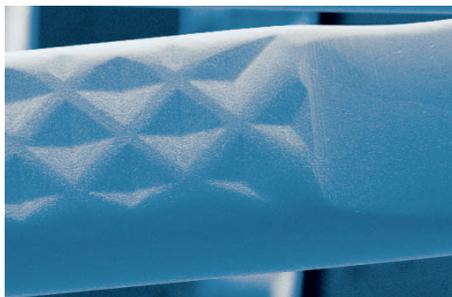
... the profile of the blades is stamped evenly with 24 tons?

... 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)?



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.

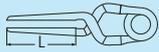
# Titanium Standard Clips

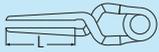
- MRI safety, non-ferromagnetic, tested up to 3 Tesla
- minor artifacts in CT and MRI
- color coding with blue spring (standard clip) and golden or silver blades (temporary or permanent clip respectively)
- sterile packaging

## TEMPORARY

## PERMANENT

TITANIUM STANDARD

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT240T		7.0	6.2	1.08	110
FT250T		9.0	7.0	0.88	90
FT260T		11.0	7.8	0.88	90
FT280T		15.0	9.2	0.88	90
FT292T		17.5	10.6	0.88	90
FT290T		20.0	11.4	1.08	110
FT242T		6.5	6.0	1.08	110
FT252T		8.3	6.8	0.88	90
FT262T		10.2	7.5	0.88	90
FT282T		13.7	8.7	1.08	110
FT286T		15.3	9.8	1.08	110
FT244T		5.4	5.5	1.08	110
FT254T		6.4	6.1	1.08	110

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
<b>P.d.2.1.1</b> FT740T		7.0	6.2	1.47	150
FT750T		9.0	7.0	1.77	180
<b>P.d.2.1.2</b> FT760T		11.0	7.8	1.77	180
FT780D		15.0	9.2	1.96	200
FT792D		17.5	10.6	1.96	200
FT790D		20.0	11.4	1.96	200
<b>P.d.2.1.3</b> FT742T		6.5	6.0	1.47	150
FT752T		8.3	6.8	1.77	180
FT762T		10.2	7.5	1.77	180
<b>P.d. 2.1.4</b> FT782T		13.7	8.7	1.96	200
FT786T		15.3	9.8	1.77	180
FT744T		5.4	5.5	1.47	150
FT754T		6.4	6.1	1.77	180



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

## TEMPORARY

## PERMANENT

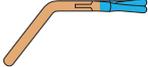
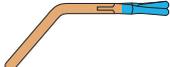
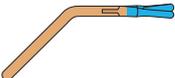
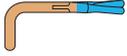
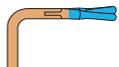
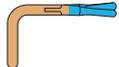
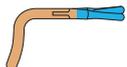
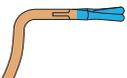
Cat. No.		Blade length mm	Maximal opening mm	Closing force N g		Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT264T		8.0	6.5	1.08	110	FT764T		8.0	6.5	1.77	180
FT284T		10.3	7.4	1.08	110	FT784T		10.3	7.4	1.96	200
FT323T		7.4	5.4	1.08	110	FT823T		7.4	5.4	1.77	180
FT324T		8.4	5.8	1.08	110	FT824T		8.4	5.8	1.77	180
FT325T		10.5	6.2	1.08	110	FT825T		10.5	6.2	1.77	180
	Height of step 2.5 mm						Height of step 2.5 mm				
FT270T		5.0	8.0	1.08	110	FT770T		5.0	8.0	1.96	200
	Height of step 3.5 mm						Height of step 3.5 mm				
FT271T		5.0	8.0	1.08	110	FT771T		5.0	8.0	1.96	200
	Height of step 4.5 mm						Height of step 4.5 mm				
FT272T		5.0	8.0	1.08	110	FT772T		5.0	8.0	1.96	200
FT248T		7.0	7.9	0.88	90	FT748T		7.0	7.9	1.96	200
FT258T		9.0	8.7	0.88	90	FT758T		9.0	8.7	1.96	200
FT259T		12.0	10.2	0.88	90	FT759T		12.0	10.2	1.96	200
FT103T		6.1	6.5	1.08	110	FT603T		6.1	6.5	1.96	200
FT113T		8.0	6.2	1.08	110	FT613T		8.0	6.2	1.96	200

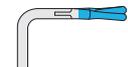
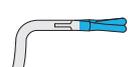
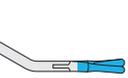
P.d.2.1.5

# Titanium Standard Clips

## TEMPORARY

## PERMANENT

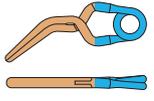
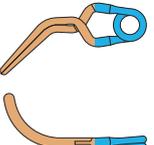
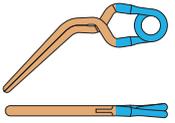
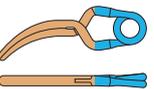
Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT310T		9.0	6.5	1.08	110
FT123T		10.6	7.8	1.08	110
FT263T		11.8	8.4	1.08	110
FT319T		5.0	5.6	1.28	130
FT320T		7.0	4.5	1.28	130
FT322T		10.0	5.6	1.28	130
FT350T		6.7	5.4	1.28	130
FT351T		9.0	5.6	1.28	130
FT330T		7.0	7.2	0.88	90
FT332T		9.3	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
P.d.2.1.6		5.0	5.6	1.96	200
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

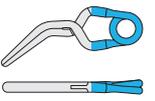
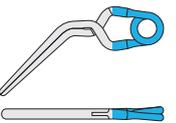
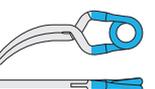


## TEMPORARY

## PERMANENT

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

P.d. 2.1.7

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT746T		7.0	5.7	1.96	200
FT773T		7.8	5.5	1.77	180
FT761T		11.4	8.0	1.96	200
FT747T		8.6	7.0	1.77	180

# Titanium Fenestrated Clips

## TEMPORARY

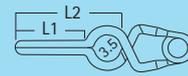
## PERMANENT



Diameter of fenestration 3.5 mm

Cat. No.

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



Diameter of fenestration 3.5 mm

Cat. No.

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

Cat. No.	Blade length mm L1/L2	Maximal opening mm	Closing force N	Closing force 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

Cat. No.	Blade length mm L1/L2	Maximal opening mm	Closing force N	Closing force g
<b>P.d.2.2.1</b> FT597T	3/8.1	7.5	1.47	150
FT598T	4/9.1	7.4	1.47	150
<b>P.d.2.2.2</b> 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



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

FT637T  3/9.8    7.4    1.47    150

FT138T  4/10.8    7.4    1.08    110

FT638T  4/10.8    7.4    1.47    150

FT139T  5/11.8    7.4    1.08    110

FT639T  5/11.8    7.4    1.47    150

FT140T  6/12.7    7.9    1.08    110

FT640T  6/12.7    7.9    1.47    150

FT150T  9/15.7    9.1    1.08    110

FT650T  9/15.7    9.1    1.47    150

FT142T  5/9    6.5    1.08    110

FT642T  5/9.4    6.5    1.47    150

FT152T  7.5/10.6    7.2    1.08    110

FT652T  7.5/10.6    7.2    1.47    150

FT162T  10/12.2    7.8    1.08    110

FT662T  10/12.2    7.8    1.77    180

FT144T  5/6.7    5.5    1.08    110

FT644T  5/6.7    5.5    1.47    150

FT154T  7.5/6.7    5.5    1.08    110

FT654T  7.5/6.7    5.5    1.47    150

TITANIUM STANDARD

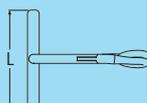
# Titanium T-Bar Clips acc. to KOPITNIK

## 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

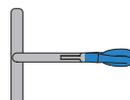
90°

5.5

1.47

150

FT856T



13.0

90°

5.5

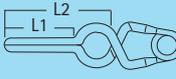
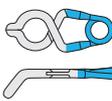
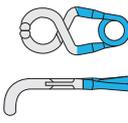
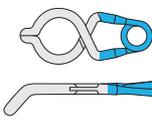
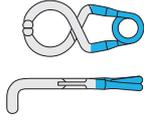
1.77

180



# ULTRA SHORT FENESTRATED Aneurysm Clip

PERMANENT

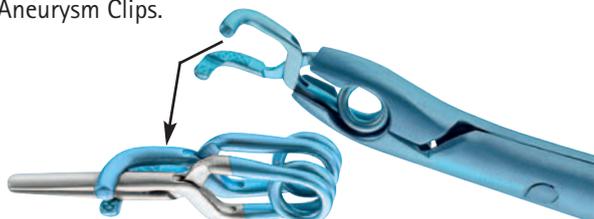
Cat. No.		Blade length mm L1/L2	Maximal opening mm	Closing force N	Diam. of fenestration mm
FT902T		3.0/6.3	5.8	1.47	3.5
FT904T		3.0/5.1	4.9	1.47	3.5
FT942T		3.0/8.1	6.0	1.47	5.0
FT944T		3.0/6.7	5.5	1.47	5.0

TITANIUM STANDARD

## Titanium Reinforcing Clip

PERMANENT

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



Cat. No.

FT900T



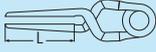
# Titanium Mini Clips

- 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

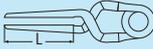
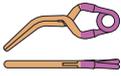
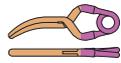
Cat. No.		Blade length mm	Maximal opening mm	Closing force N g		Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FT180T		3.0	3.3	0.88	90	FT680T		3.0	3.3	1.08	110
	<b>P.d. 2.4.1</b>						<b>P.d. 2.3.1</b>				
FT190T		5.0	4.0	0.69	70	FT690T		5.0	4.0	1.08	110
FT200T		3.0	3.3	0.88	90	FT700T		3.0	3.3	1.08	110
FT210T		5.0	4.0	0.69	70	FT710T		5.0	4.0	1.08	110
FT220T		7.0	4.6	0.69	70	FT720T		7.0	4.6	1.08	110
FT182T		2.8	3.2	0.88	90	FT682T		2.8	3.2	1.08	110
FT194T		4.0	3.6	0.78	80	FT694T		4.0	3.6	1.08	110
FT192T		4.7	3.8	0.69	70	FT692T		4.7	3.8	1.08	110
FT211T		4.0	3.6	0.78	80	FT711T		4.0	3.6	1.08	110
	<b>P.d. 2.4.3</b>										
FT212T		4.7	3.8	0.69	70	FT712T		4.7	3.8	1.08	110
FT213T		4.0	3.6	0.78	80	FT713T		4.0	3.6	1.08	110
FT226T		5.2	4.0	0.69	70	FT726T		5.2	4.0	1.08	110
FT222T		6.6	4.4	0.69	70	FT722T		6.6	4.4	1.08	110



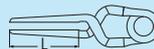
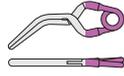
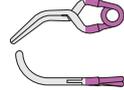
- for distinction the temporary clips are marked with 3 transverse lines on the proximal spring
- for identification all clips are marked with serial number and article number

## 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

P.d. 2.4.2

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

# Titanium Clip Applier

Standard

Mini

Vario Clip Applier

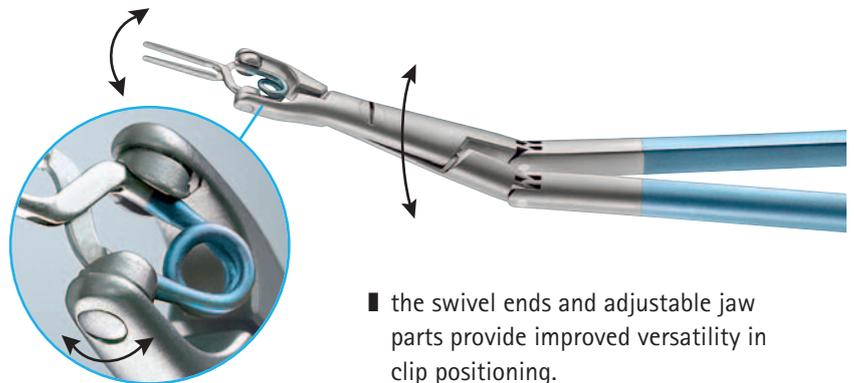
TITANIUM APPLYING FORCEPS

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

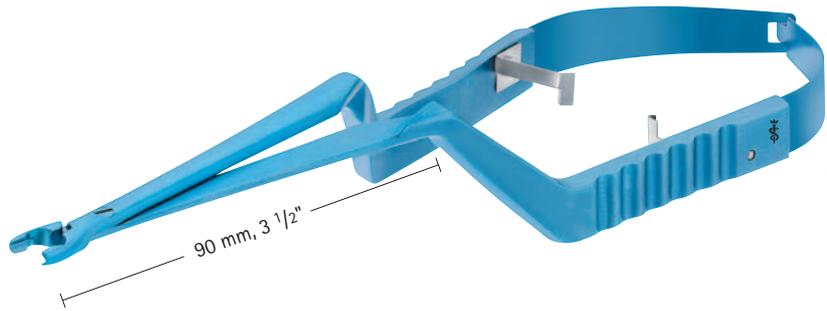
FT470T



180 mm, 7"

FT482T

FT472T



220 mm, 8 3/4"



straight

FT485T

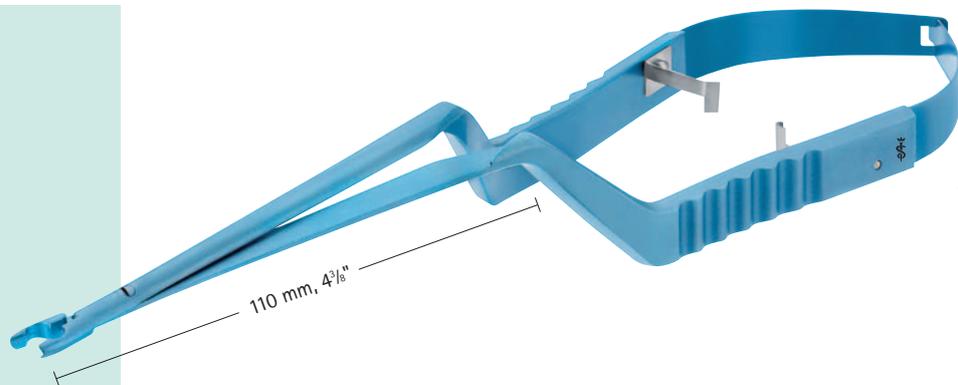
FT475T



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"

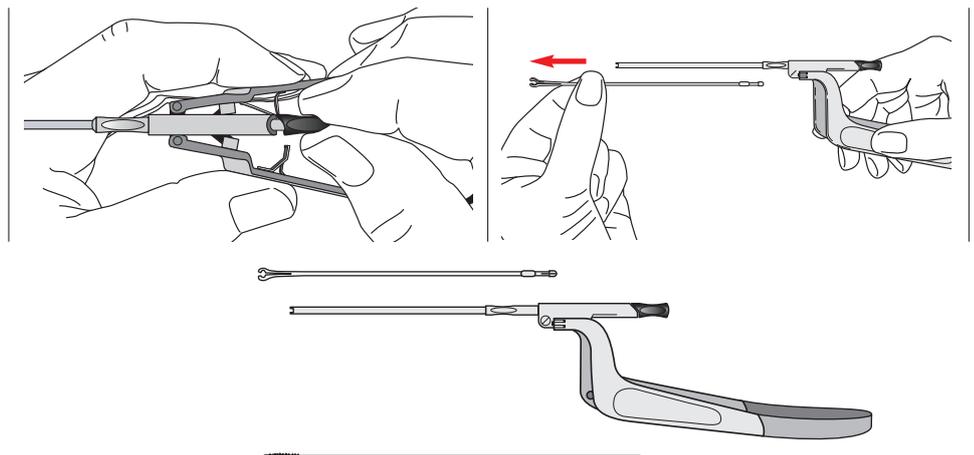
FT496T

FT491T

## Disassembly

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

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





# Double Bayonet Clip Applier

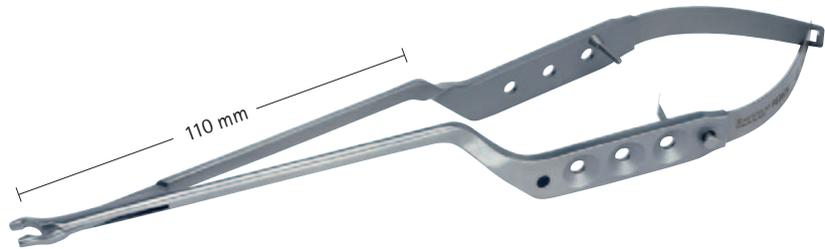
■ color coding is realized as a colored button in the handle area

## Standard Mini Double Bayonet Clip Applier

■ Total length 225 mm	
●	●
FT501T	FT511T
FT505T	FT515T
	with latch
	without latch



■ Total length 245 mm	
●	●
FT502T	FT512T
FT506T	FT516T
	with latch
	without latch



TITANIUM APPLYING FORCEPS

# Titanium Clip Removing Forceps

■ color coding blue for standard and violet for mini clips

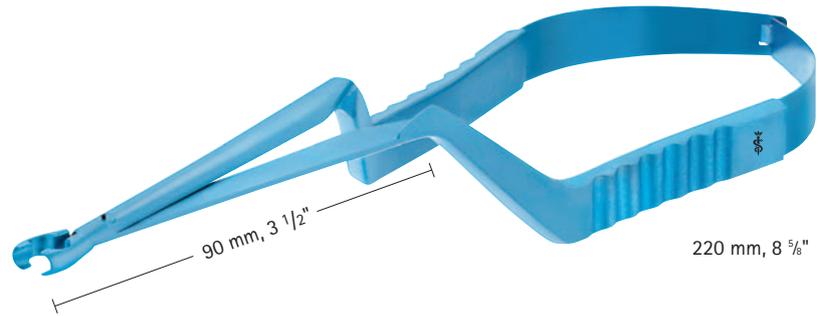
Standard

Mini

YASARGIL Removing Forceps

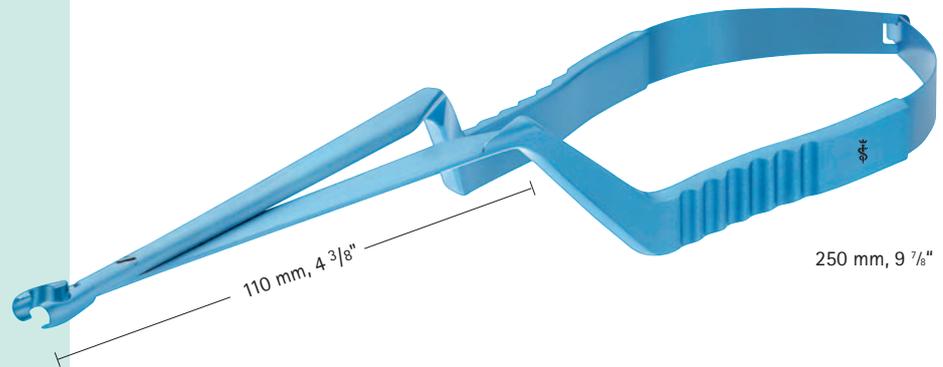
TITANIUM APPLYING FORCEPS

■ with special jaws for safe removal of an applied clip



FT082T

FT072T



FT083T

FT073T



# YASARGIL Phynox Clips and Appliers



PHYNOX CLIPS

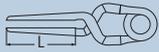
# Phynox Standard Clips

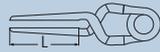
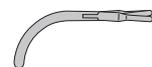
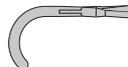
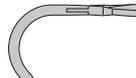
- MRI safety, non-ferromagnetic, tested up to 3 Tesla
- color coding with silver spring and blades (permanent clip)
- sterile packaging
- for identification all clips are marked with serial number and article number

## PERMANENT

## PERMANENT

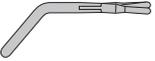
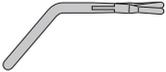
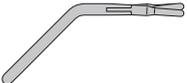
PHYNOX STANDARD

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FE740K		7.0	6.2	1.47	150
FE750K		9.0	7.0	1.77	180
FE760K		11.0	7.8	1.77	180
FE780K		15.0	9.2	1.96	200
FE792K		17.5	10.6	1.96	200
FE790K		20.0	11.4	1.96	200
FE840K		25.0	13.3	1.77	180
FE742K		6.5	6.0	1.47	150
FE752K		8.3	6.8	1.77	180
FE762K		10.2	7.5	1.77	180
FE782K		13.7	8.7	1.96	200
FE786K		15.3	9.8	1.96	200
FE744K		5.4	5.5	1.47	150

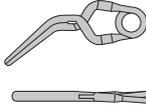
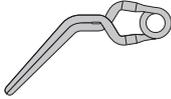
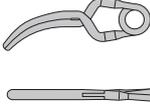
Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FE754K		6.4	6.1	1.77	180
FE764K		8.0	6.5	1.77	180
FE784K		10.3	7.4	1.96	200
FE823K		7.4	5.4	1.77	180
FE824K		8.4	5.8	1.77	180
FE825K		10.5	6.2	1.77	180
FE748K		7.0	7.9	1.96	200
FE758K		9.0	8.7	1.96	200
FE759K		12.0	10.2	1.96	200
FE798K		20.0	13.0	1.77	180
FE770K		5.0	8.0	1.96	200
FE771K		5.0	8.0	1.96	200
FE772K		5.0	8.0	1.96	200



## PERMANENT

Cat. No.		Blade length mm	Maximal opening mm	Closing force N g	
FE603K		6.1	6.5	1.96	200
FE613K		8.0	6.2	1.96	200
FE623K		10.6	7.8	1.96	200
FE763K		11.8	8.4	1.96	200
FE810K		9.0	6.5	1.96	200
FE819K		5.0	5.6	1.96	200
FE820K		7.0	4.5	1.96	200
FE822K		10.0	5.6	1.96	200
FE850K		6.7	5.4	1.96	200
FE851K		9.0	5.6	1.96	200
FE830K		7.0	7.2	1.96	200
FE832K		9.3	7.2	1.96	200
FE833K		11.3	8.2	1.96	200

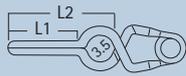
## PERMANENT

Cat. No.		Blade length mm	Maximal opening mm	Closing Force N g	
FE746K		7.0	5.7	1.96	200
FE773K		7.8	6.5	1.77	180
FE761K		11.4	8.0	1.96	200
FE747K		8.6	7.0	1.77	180

# Phynox Fenestrated Clips

PERMANENT

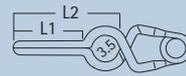
PERMANENT



Diameter of fenestration 3.5 mm

Cat. No.

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



Diameter of fenestration 3.5 mm

Cat. No.

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

PHYNOX STANDARD

FE597K  3/8.1    6.5    1.47    150

FE602K  5/7.3    5.8    1.47    150

FE598K  4/9.1    6.6    1.47    150

FE612K  7.5/8.9    6.5    1.47    150

FE599K  5/10.1    7.0    1.47    150

FE622K  10/10.5    7.2    1.77    180

FE600K  6/11    7.4    1.47    150

FE604K  5/4.9    4.9    1.47    150

FE610K  9/14    8.4    1.47    150

FE614K  7.5/4.9    4.9    1.47    150

FE620K  12/17    9.6    1.77    180

FE624K  10/4.9    4.9    1.77    180



PERMANENT

PERMANENT



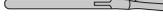
Diameter of fenestration 5 mm

Cat. No.

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

FE637K  3/9.8 6.7 1.47 150

FE638K  4/10.8 7.1 1.47 150

FE639K  5/11.8 7.5 1.47 150

FE640K  6/12.7 7.9 1.47 150

FE650K  9/15.7 9.1 1.47 150

FE660K  12/18.7 10.3 1.77 180

FE642K  5/9 6.5 1.47 150

FE652K  7.5/10.6 7.2 1.47 150

FE662K  10/12.2 7.8 1.77 180



Diameter of fenestration 5 mm

Cat. No.

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

FE644K  5/6.4 5.5 1.47 150

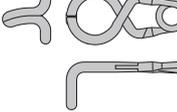
FE654K  7.5/6.4 5.5 1.47 150

FE664K  10/6.4 5.5 1.77 180

FE648K  5/15.2 7.9 1.47 150

FE658K  7.5/17.7 8.8 1.47 150

FE668K  10/20.2 10.0 1.77 180

FE774K  5/6.7 5.0 1.47 150

FE775K  7.5/6.7 5.0 1.47 150

FE776K  10/6.7 5.0 1.47 150

PHYNOX STANDARD

# Phynox Fenestrated Clips

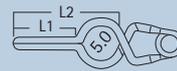
PERMANENT

PERMANENT



Diameter of fenestration 5 mm

Cat. No. Blade length mm L1/L2 Maximal opening mm Closing force N g



Diameter of fenestration 5 mm

Cat. No. Blade length mm L1/L2 Maximal opening mm Closing force N g

PHYNOX STANDARD

FE777K		5/6.7	5.0	1.47	150
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FE886K		5/7.4	5.0	1.47	150
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FE778K		7.5/6.7	5.0	1.47	150
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FE887K		7.5/8.1	5.0	1.47	150
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FE779K		10/6.7	5.0	1.47	150
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FE888K		5/7.4	5.0	1.47	150
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FE881K		5/10.4	7.0	1.47	150
--------	--	--------	-----	------	-----

FE889K		7.5/8.1	5.0	1.47	150
--------	--	---------	-----	------	-----

FE882K		7.5/12.4	7.8	1.47	150
--------	--	----------	-----	------	-----

FE891K		5/6.6	5.0	1.47	150
--------	--	-------	-----	------	-----

FE883K		10/14.5	8.8	1.47	150
--------	--	---------	-----	------	-----

FE892K		7.5/6.6	5.0	1.47	150
--------	--	---------	-----	------	-----

FE893K		5/6.6	5.0	1.47	150
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FE894K		7.5/6.6	5.0	1.47	150
--------	--	---------	-----	------	-----



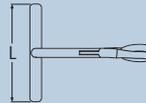
# Phynox T-Bar Clips acc. KOPITNIK

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.

FE852K



5.0

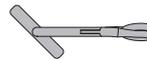
45°

5.5

1.47

150

FE853K



9.0

45°

5.5

1.47

150

FE854K



5.0

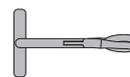
90°

5.5

1.47

150

FE855K



9.0

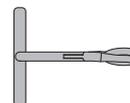
90°

5.5

1.47

150

FE856K



13.0

90°

5.5

1.77

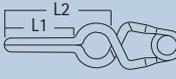
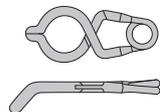
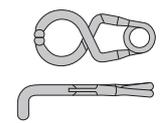
180

PHYNOX T-BAR CLIP

# Ultra Short Fenestrated Aneurysm Clip

PERMANENT

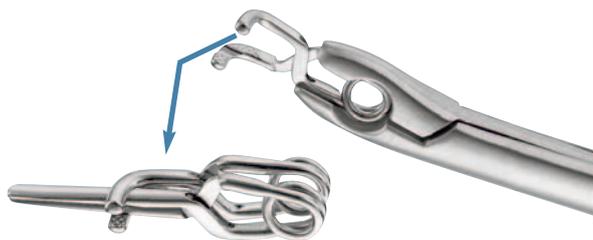
PHYNOX STANDARD

Cat. No.		Blade length mm L1/L2	Maximal opening mm	Closing force N	Diam. of fenestration mm
FE942K		3.0/8.1	6.0	1.47	5.0
FE944K		3.0/6.4	5.5	1.47	5.0

# Phynox Reinforcing Clip

PERMANENT

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



Cat. No.

FE900K





# Phynox Long Clips and Applier

PERMANENT



Cat. No.

Blade length mm	Maximal opening mm	Closing force N	g
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■ clip with extra long blades for the treatment of giant aneurysms.

FE861K



30 19 1.86 190

FE862K



35 21 1.96 200

FE863K



40 23 1.96 200

PHYNOX LONG CLIP

## Long Clip Applier



■ with "active" locking mechanism; the applier can be used with or without the lock being activated, as the surgeon desires.

FE560K

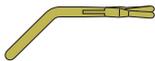
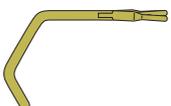
# Phynox Standard and Mini Clips

- MRI safety, non-ferromagnetic, tested up to 3 Tesla
- color coding with gold spring and blades (temporary clip)
- for identification all clips are marked with serial number and article number

## TEMPORARY (STANDARD)

## TEMPORARY (MINI)

PHYNOX STANDARD AND MINI

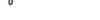
Cat. No.		Blade length mm	Maximal opening mm	Closing force	
				N	g
FE751K		9.0	7.0	0.69	70
FE753K		8.4	6.8	0.69	70
FE755K		6.7	6.1	0.69	70
FE781K		15.0	9.2	0.69	70
FE783K		13.8	8.7	0.69	70
FE785K		10.4	7.4	0.69	70
FE756K		9.1	6.2	0.69	70
FE791K		20.0	11.4	0.88	90
FE793K		18.7	11.0	0.88	90
FE795K		16.8	9.9	0.88	90
FE801K		13.0	7.5	0.88	90

Cat. No.		Blade length mm	Maximal opening mm	Closing force	
				N	g
FE681K		3.0	3.3	0.49	50
FE691K		5.0	4.0	0.49	50
FE683K		2.8	3.2	0.49	50
FE693K		4.7	3.8	0.49	50
FE721K		7.0	4.6	0.69	70
FE723K		6.6	4.4	0.69	70
FE725K		5.0	4.0	0.69	70



- MRI safety, non-ferromagnetic, tested up to 3 Tesla
- color coding with silver spring and blades (permanent clip)
- for identification all clips are marked with serial number and article number

## PERMANENT (MINI)

Cat. No.		Blade length mm	Maximal opening mm	Closing force N	Closing force g
FE680K		3.0	3.3	1.08	110
FE690K		5.0	4.0	1.08	110
FE700K		3.0	3.3	1.08	110
FE710K		5.0	4.0	1.08	110
FE720K		7.0	4.6	1.08	110
FE682K		2.8	3.2	1.08	110
FE692K		4.7	3.8	1.08	110
FE694K		4.0	3.6	1.08	110
FE711K		4.0	3.6	1.08	110
FE712K		4.7	3.8	1.08	110
FE713K		4.0	3.6	1.08	110
FE726K		5.2	4.0	1.08	110
FE722K		6.6	4.4	1.08	110
FE714K		3.9	3.5	1.08	110
FE724K		5.0	4.0	1.08	110

## PERMANENT (MINI)

Cat. No.		Blade length mm	Maximal opening mm	Closing force N	Closing force g
FE716K		5.0	3.5	1.28	130
FE807K		4.7	4.0	1.08	110
FE717K		6.3	6.0	1.28	130
FE727K		4.0	7.0	1.28	130
FE728K		7.0	5.7	1.28	130
FE806K		7.0	4.5	1.28	130

# Phynox Applier

STANDARD

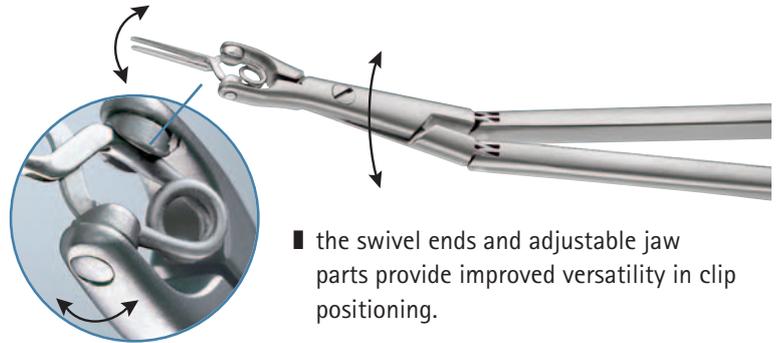
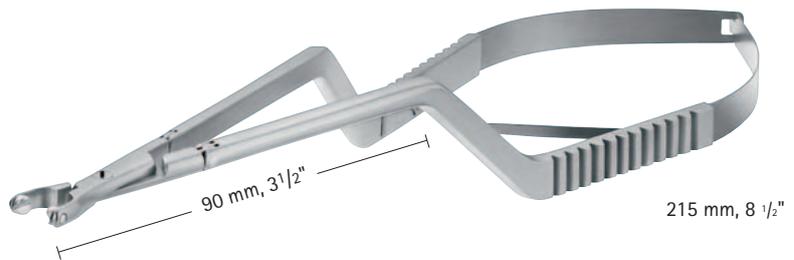
MINI

Vario Clip Applier

PHYNOX APPLYING FORCEPS

FE512T

FE502T



FT402/800

Adjusting Key



Clip Applier acc. to CASPAR

FE530K

FE520K

FE532K

FE522K



- 360° rotation
- suitable for narrow approach





STANDARD

MINI

YASARGIL Clip Applier

PHYNEX APPLYING FORCEPS

FE558K

FE548K



175 mm, 7"

FE580K

FE570K



175 mm, 7"

50 mm, 2"

FE582K

FE572K



215 mm, 8 1/2"

90 mm, 3 1/2"



straight

FE585K

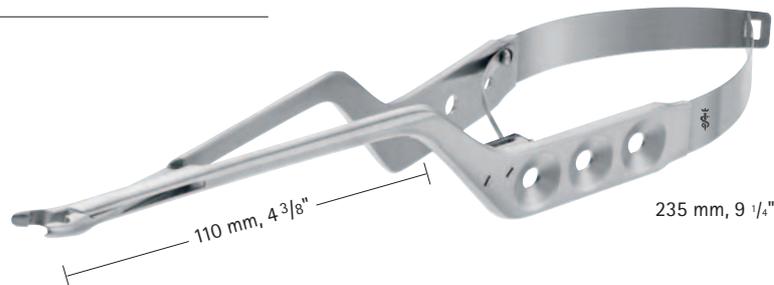
FE575K



15° angled

FE584K

FE574K



235 mm, 9 1/4"

110 mm, 4 3/8"



straight

FE587K

FE577K



15° angled

# Phynox Applier

STANDARD

MINI

XS Clip Applier

PHYNOX APPLYING FORCEPS

- 360° rotation
- suitable for narrow approach



FE495K

FE490K



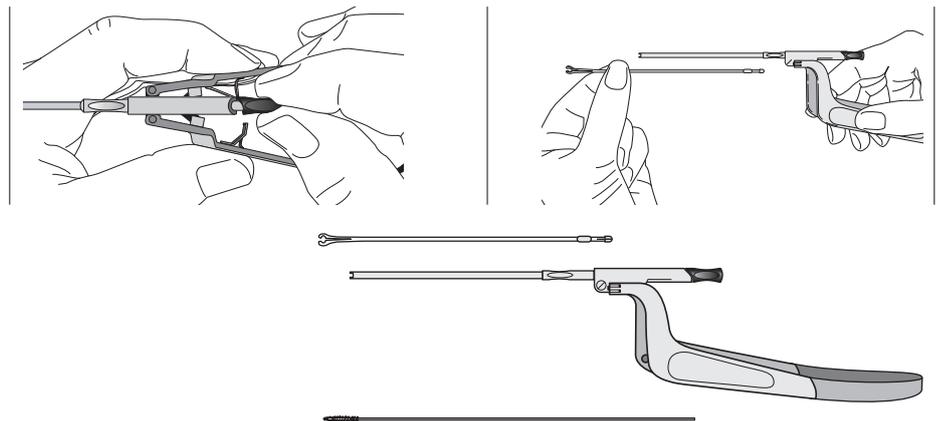
FE496K

FE491K

## Disassembly

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

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





# Double Bayonet Clip Applier

■ color coding is realized as a colored button in the handle area

STANDARD

MINI

Double Bayonet Clip Applier

■ Total length 225 mm



FE301K

FE311K

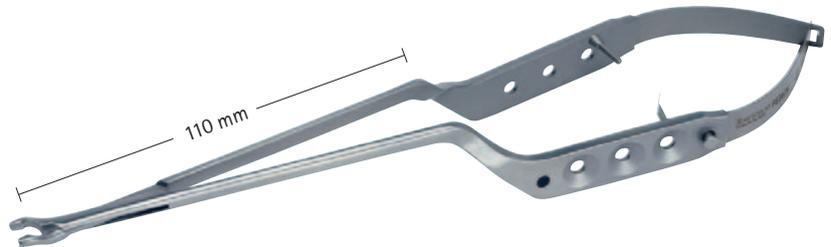
without latch

FE305K

F315K

with latch

■ Total length 245 mm



FE302K

FE312K

without latch

FE306K

FE316K

with latch

PHYNOX APPLYING FORCEPS

# 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

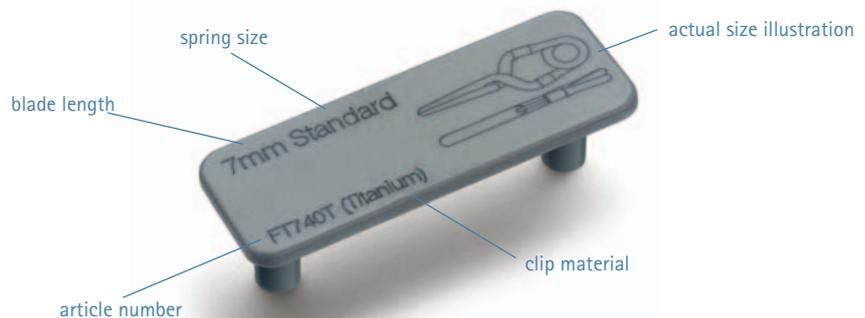
for storage, transport and sterilization of Aesculap YASARGIL Aneurysm Clips.

- 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

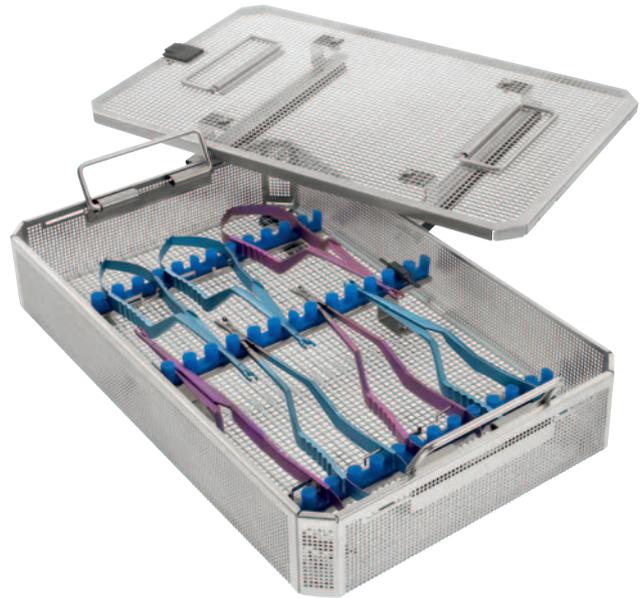
The identification tags for temporary clips are **yellow** and for permanent clips **grey** in line with the color coding of the YASARGIL Aneurysm Clips.



FM665R

### Storage of applying forceps

perforated basket with lid, for storage of clip applying forceps



STORAGE + ACCESSORIES

Address: [www.aesculap-extra.net](http://www.aesculap-extra.net)

### Patient identification card for YASARGIL Clip implants

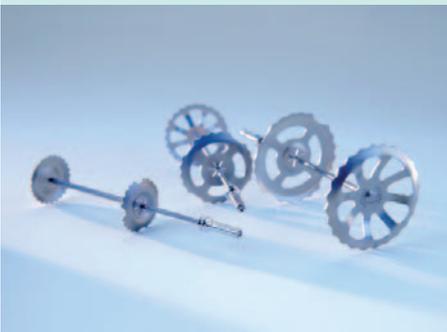
- provides safety for physician and patient safety for follow-ups
- information about 3 Tesla safety of Aesculap YASARGIL Aneurysm Clips
- printed version available in German and English
- download from the Extranet possible:

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



# Aesculap Neurosurgery

## ■ CranioFix®2



... for fast, easy and stable bone flap fixation and skull fracture repair. Fast, easy and very stable.

## ■ CranioFix® absorbable

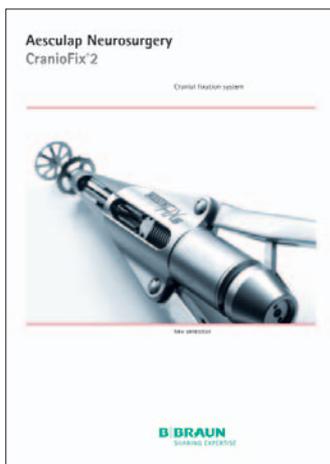


... for fixation of bone flaps – usable without instruments and especially for children and recurring tumor patients.

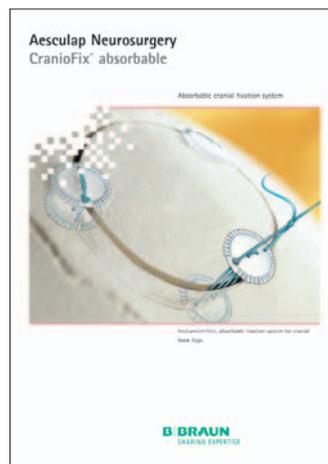
## ■ Cranio Plate



... blade and screw system for fixation of bone flaps with modular storage concept



For more information see  
Brochure C08802



For more information see  
Brochure C09802



For more information see  
Brochure C83402

### ScalpFix Scalp clip system



... for reliable haemostasis; easy handling and fast application are time and cost saving.

### KOPITNIK AVM Microclip System

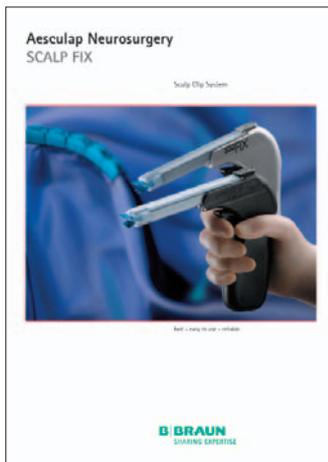


... for the temporary or permanent occlusion of arteriovenous malformations (AVM's).

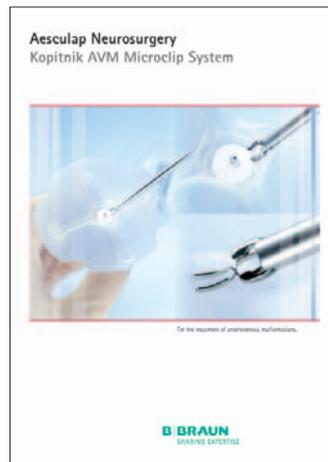
### Fukushima suction cannulas



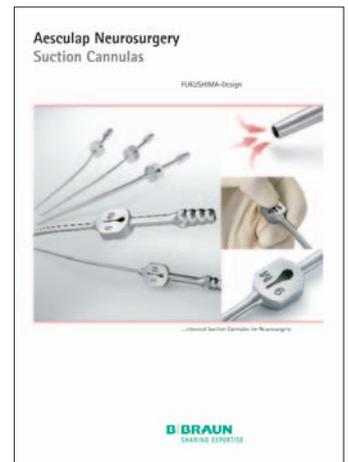
... the classic suction cannulas for neurosurgery procedures!



For more information see  
Brochure C79002



For more information see  
Brochure C07702



For more information see  
Brochure C81202



AESCULAP®

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SHARING EXPERTISE

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