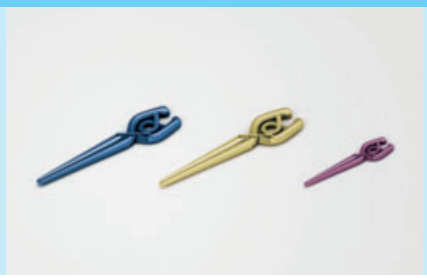
PERNECZKY ANEURYSM CLIP 2

adeor MEDICAL

Contents



04-05

The Perneczky Aneurysm Clip 2™
System description

Der Perneczky Aneurysm Clip 2™
Beschreibung

06-07

Features
Color coding and other features

Eigenschaften
Farbkodierung und weitere Eigenschaften

08-16

The Clips
Different models

Die Clips
Verschiedene Modelle

adeor is a registered trademark of adeor medical AG.

All rights of distribution, also by photocopy, reprint or storing and recovery in any kind of data processing device are reserved and require our written approval.

Copyright 2021 adeor medical AG
01-1221-D/E
Printed in Germany

December 2021

adeor ist eine eingetragene Marke der adeor medical AG.

Alle Rechte der Verbreitung, Nachdruck (auch auszugsweise) oder Einspeicherung und Rückgewinnung in Datenverarbeitungsanlagen aller Art sind vorbehalten und bedürfen unserer schriftlichen Genehmigung.

Copyright 2021 adeor medical AG
01-1221-D/E
Gedruckt in Deutschland

Dezember 2021

Preface

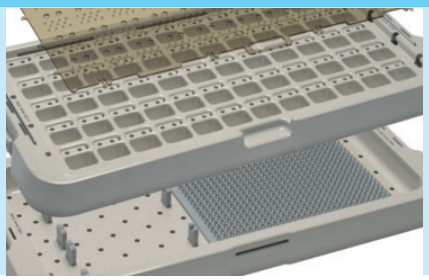
The narrow spaces between the anatomical structures of the basal cisterns are one of the major challenges in aneurysm surgery. At adeor®, we knew a revolutionary solution was required. The Perneczky Aneurysm Clip 2™ is an invention of Dieter von Zeppelin and has been developed in close cooperation with the leading German neurosurgeon Axel Perneczky (†). It became a milestone in Aneurysm Clips usage.

Now, a new chapter has begun with the launch of the Perneczky Aneurysm Clip 2™. While remaining true to the principle of the first Perneczky Aneurym Clip system, the Perneczky Aneurysm Clip 2™ offers several distinct advantages and makes procedures even more user-friendly and safe.

Einführung

Das geringe Raumangebot zwischen den anatomischen Strukturen stellt beim Platzieren und Lösen von Aneurysma-Clips ein großes Problem dar. Die Zeit war reif für eine revolutionäre Lösung. Das Perneczky Aneurysma Clip System, eine Erfindung von Dieter von Zeppelin in enger Zusammenarbeit mit dem führenden deutschen Neurochirurgen Axel Perneczky (†), bringt alle Voraussetzungen mit, um als Meilenstein in die Geschichte der Aneurysma-Clips einzugehen.

Mit dem neuen Perneczky Aneurysm Clip 2™ leitet adeor® das nächste Kapitel ein. Während wir dem Grundprinzip des Pernceczky Clips treu geblieben sind, bietet der Perneczky Aneurysm Clip 2™ mehrere herausragende Vorteile gegenüber der ersten Generation. Wir konnten sowohl die Benutzerfreundlichkeit als auch die Sicherheit gegenüber der ersten Generation deutlich steigern.



18-20

Clip Instruments
Clip appliers and removers

Clip Instrumente
Clip Anlege- und Entnahmeinstrumente

21-23

Clip Storage
Storage and reprocessing solutions

Clip Lagerung
Lagerungs- und Aufbereitungslösungen

THE PROBLEM

The narrow spaces between the anatomical structures of the basal cisterns and the limited view are two major challenges in aneurysm surgery.

DAS PROBLEM

Das geringe Raumangebot zwischen den anatomischen Strukturen sowie die sehr eingeschränkte Sicht stellen beim Platzieren und Lösen von Aneurysma-Clips ein großes Problem dar.

THE SOLUTION

The clip instrument grasps the clip on the inside, i.e. has smaller external dimensions than the clip itself. As a result, the clip always remains in the surgeon's sight.

DIE LÖSUNG

Die Clip-Zange muss den Clip von innen fassen und somit kleinere Außenabmessungen wie der Clip selbst haben. Der gesamte Clip befindet sich stets uneingeschränkt im Blickfeld des Chirurgen.

PERNECZKY ANEURYSM CLIP 2 **PERNECZKY ANEURYSM CLIP**

REDUCED SIZE

30% reduced clip body length
30% geringere Länge des Clipkörpers

WIDER OPENING

30% more opening width
30% höhere Öffnungsweite

NEW VARIABLE INSTRUMENTS OFFER DISTINCT ADVANTAGES

- very easy and user friendly clip insertion to the instrument (from any angle)
- multi-angle clip application for maximum flexibility in challenging anatomies
- no need for separate remover instruments
- sehr einfache Aufnahme der Clips mit den Clipinstrumenten
- Aufnahme und Entnahme des Clips in jedem gewünschten Winkel
- Keine separaten Entnahmeinstrumente nötig

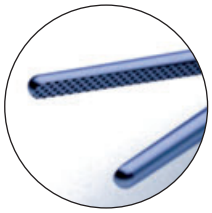
COLOR CODING A Color Coding System facilitates the clip selection and identification process. The Perneczky Aneurysm Clip 2™ comes in three different versions.

FARBCODIERUNG Die farbliche Kennzeichnung des Perneczky Aneurysm Clip 2™ erleichtert die Identifikation und Auswahl des richtigen Clips. Die Clips kommen je nach Ausführung in drei verschiedenen Farben.

Standard Permanent Clips

Micro and Mini Permanent Clips

Temporary Clips



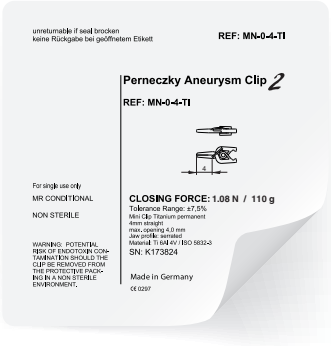
ATRAUMATIC JAW PROFILE The pyramidal blade surface effectively prevents slipping. This surface design doubles the size of the tissue-holding-area and evenly distributes the closing pressure throughout the full length of the jaw.

ATRAUMATISCHES MAULPROFIL Das pyramidenförmige Maulprofil wirkt dem Slipeffekt wirksam entgegen. Das Gewebe kann sich in die Struktur der Maulinnenfläche legen. Die Struktur verdoppelt die Haltefläche und ermöglicht eine gleichmäßige Verteilung des Drucks ohne das Gewebe zu verletzen.

SERIAL NUMBER An individual serial number is engraved on each clip to ensure optimal retraceability of the whole production process.

SERIENNUMMER Die in den Clip eingravierte Seriennummer garantiert eine optimale Rückverfolgbarkeit des gesamten Herstellungsprozesses.

PACKAGING The Perneczky Aneurysm Clip 2™ is available sterile as well as non-sterile. Each Perneczky Aneurysm Clip 2™ is individually packed in a membrane box. The outer packaging ensures additional protection and guarantees a safe transport of the clip. Additional labels with article number as well as serial number ensure accurate identification. They should be attached to the patient record. All relevant technical information of the Clip such as closing force, product description or maximum opening is printed on the outer packaging.



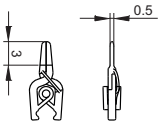
VERPACKUNG Der Perneczky Aneurysm Clip 2™ ist steril und unsteril lieferbar. Jeder Clip wird in einer Membrandose geliefert, welche sich, um einen maximalen Schutz zu gewährleisten, in einer zweiten Umverpackung befindet.
Zum Lieferumfang eines jeden Clips gehören zusätzliche Etiketten, welche Identifikationsmerkmale wie Artikel- und Seriennummer enthalten. Diese Etiketten sind zum Anbringen auf der Patientenakte vorgesehen. Weitere Informationen zum Clip wie z.B. Schließkraft, genaue Produktbeschreibung oder Öffnungsweite befinden sich auf dem Etikett der Außenverpackung.

MATERIAL Made of alloyed Titanium acc. to ISO 5832-3. This implant material meets the highest material standards. The Perneczky Aneurysm Clip 2™ is MRI compatible and non ferromagnetic. MR/CT image artefacts are minimized at up to 3 Tesla.

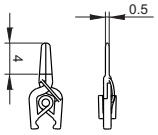
MATERIAL Hergestellt aus einer Titanlegierung gemäß ISO 5832-3. Der Implantat-Werkstoff entspricht höchsten Materialansprüchen, ist MRI kompatibel, nicht ferromagnetisch und verursacht eine geringe Artefaktbildung im MR/CT bei bis zu 3 Tesla.

MRISAFE™
UP TO 3 TESLA

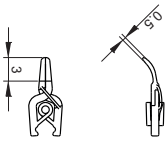
micro clips 1:1



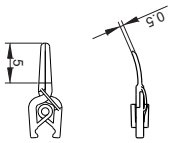
MC-0-3-TI
opening width 3.3 mm
1.08 N
110 g



MC-0-4-TI
opening width 4.0 mm
1.08 N
110 g

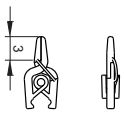


MC-C-3-TI
opening width 3.2 mm
1.08 N
110 g

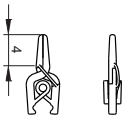


MC-C-5-TI
opening width 3.8 mm
1.08 N
110 g

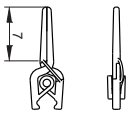
mini clips 1:1



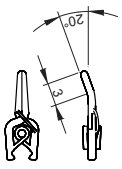
MN-0-3-TI
opening width 3.3 mm
1.08 N
110 g



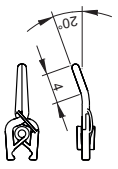
MN-0-4-TI
opening width 4.0 mm
1.08 N
110 g



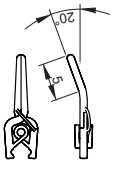
MN-0-7-TI
opening width 5.0 mm
1.08 N
110 g



MN-20-3-TI
opening width 3.3 mm
1.08 N
110 g

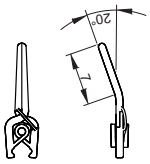


MN-20-4-TI
opening width 3.6 mm
1.08 N
110 g

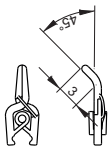


MN-20-5-TI
opening width 4.0 mm
1.08 N
110 g

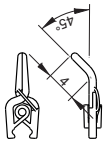
mini clips 1:1



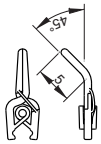
MN-20-7-TI
opening width 5.0 mm
1.08 N
110 g



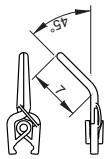
MN-45-3-TI
opening width 3.0 mm
1.08 N
110 g



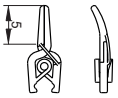
MN-45-4-TI
opening width 3.3 mm
1.08 N
110 g



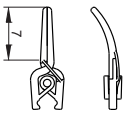
MN-45-5-TI
opening width 3.6 mm
1.08 N
110 g



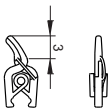
MN-45-7-TI
opening width 4.4 mm
1.08 N
110 g



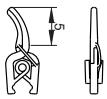
MN-C-5-TI
opening width 3.8 mm
1.08 N
110 g



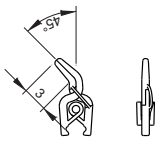
MN-C-7-TI
opening width 4.4 mm
1.08 N
110 g



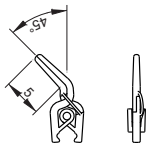
MN-SC-3-TI
opening width 3.0 mm
1.08 N
110 g



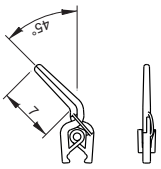
MN-SC-5-TI
opening width 3.4 mm
1.08 N
110 g



MN-SA-3-TI
opening width 3.0 mm
1.08 N
110 g

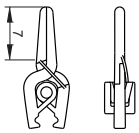


MN-SA-5-TI
opening width 3.4 mm
1.08 N
110 g

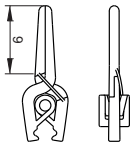


MN-SA-7-TI
opening width 3.5 mm
1.08 N
110 g

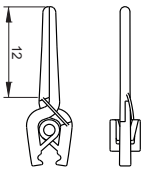
standard clips 1:1



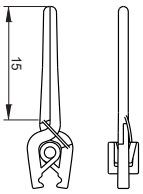
ST-0-7-TI
opening width 6.2 mm
1.47 N
150 g



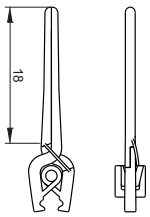
ST-0-9-TI
opening width 7.0 mm
1.77 N
180 g



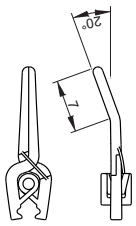
ST-0-12-TI
opening width 8.0 mm
1.77 N
180 g



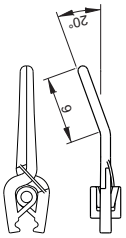
ST-0-15-TI
opening width 9.2 mm
1.77 N
180 g



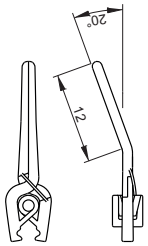
ST-0-18-TI
opening width 11.0 mm
1.77 N
180 g



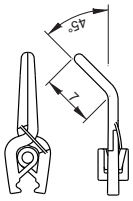
ST-20-7-TI
opening width 5.2 mm
1.77 N
180 g



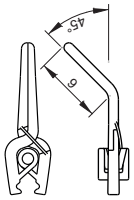
ST-20-9-TI
opening width 7.0 mm
1.77 N
180 g



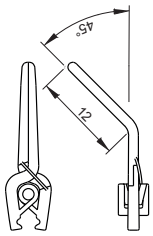
ST-20-12-TI
opening width 8.0 mm
1.77 N
180 g



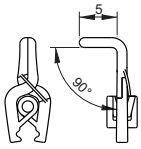
ST-45-7-TI
opening width 5.0 mm
1.77 N
180 g



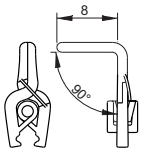
ST-45-9-TI
opening width 6.0 mm
1.77 N
180 g



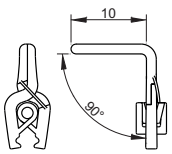
ST-45-12-TI
opening width 7.0 mm
1.77 N
180 g



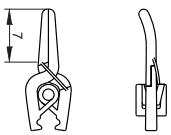
ST-90-5-TI
opening width 4.5 mm
1.77 N
180 g



ST-90-8-TI
opening width 4.5 mm
1.77 N
180 g

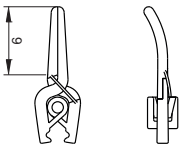


ST-90-10-TI
opening width 4.5 mm
1.77 N
180 g

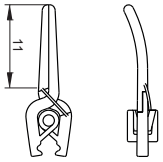


ST-C-7-TI
opening width 6.0 mm
1.47 N
150 g

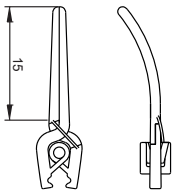
standard clips 1:1



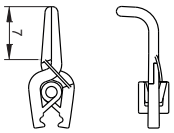
ST-C-9-TI
opening width 6.8 mm
1.77 N
180 g



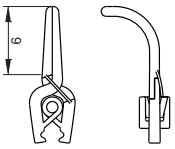
ST-C-11-TI
opening width 7.5 mm
1.77 N
180 g



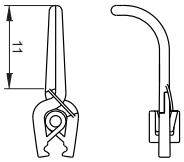
ST-C-15-TI
opening width 8.7 mm
1.77 N
180 g



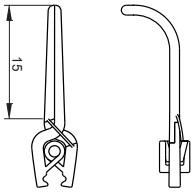
ST-CC-7-TI
opening width 6.0 mm
1.47 N
150 g



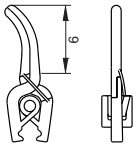
ST-CC-9-TI
opening width 6.1 mm
1.77 N
180 g



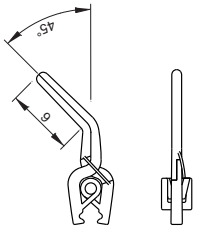
ST-CC-11-TI
opening width 7.5 mm
1.77 N
180 g



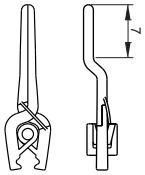
ST-CC-15-TI
opening width 7.4 mm
1.77 N
180 g



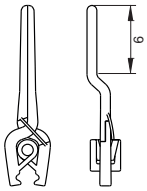
ST-SC-9-TI
opening width 5.0 mm
1.77 N
180 g



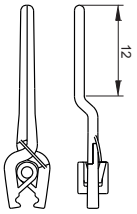
ST-SA-9-TI
opening width 5.7 mm
1.77 N
180 g



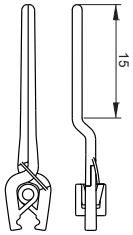
ST-BY-7-TI
opening width 7.9 mm
1.77 N
180 g



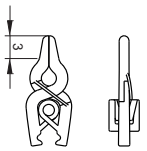
ST-BY-9-TI
opening width 8.7 mm
1.77 N
180 g



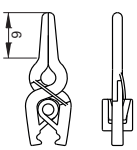
ST-BY-12-TI
opening width 10.3 mm
1.77 N
180 g



ST-BY-15-TI
opening width 12.0 mm
1.77 N
180 g

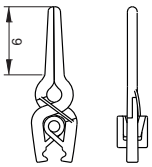


ST-F-0-20-3-TI
opening width 6.4 mm
1.47 N
150 g

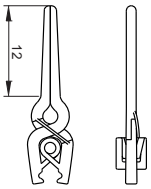


ST-F-0-20-6-TI
opening width 7.4 mm
1.47 N
150 g

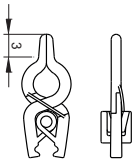
standard clips 1:1



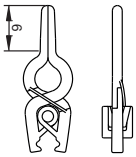
ST-F-0-20-9-TI
opening width 8.4 mm
1.47 N
150 g



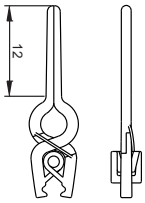
ST-F-0-20-12-TI
opening width 9.6 mm
1.47 N
150 g



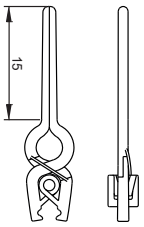
ST-F-0-35-3-TI
opening width 6.4 mm
1.47 N
150 g



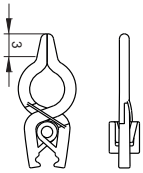
ST-F-0-35-6-TI
opening width 7.4 mm
1.47 N
150 g



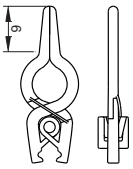
ST-F-0-35-12-TI
opening width 8.4 mm
1.47 N
150 g



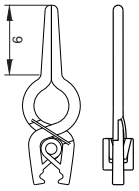
ST-F-0-35-15-TI
opening width 9.6 mm
1.47 N
150 g



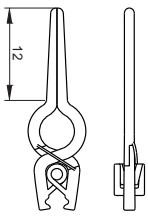
ST-F-0-50-3-TI
opening width 6.7 mm
1.47 N
150 g



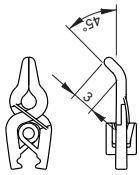
ST-F-0-50-6-TI
opening width 7.9 mm
1.47 N
150 g



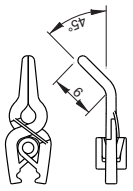
ST-F-0-50-9-TI
opening width 9.1 mm
1.47 N
150 g



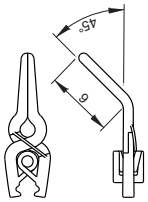
ST-F-0-50-12-TI
opening width 10.3 mm
1.47 N
150 g



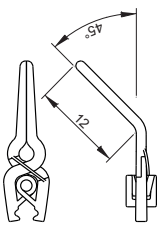
ST-F-45-20-3-TI
opening width 3.8 mm
1.47 N
150 g



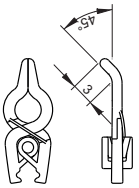
ST-F-45-20-6-TI
opening width 5.0 mm
1.47 N
150 g



ST-F-45-20-9-TI
opening width 6.0 mm
1.47 N
150 g

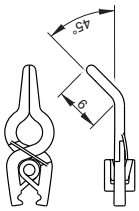


ST-F-45-20-12-TI
opening width 7.0 mm
1.47 N
150 g

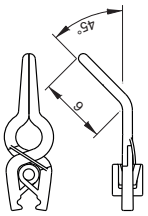


ST-F-45-35-3-TI
opening width 4.0 mm
1.47 N
150 g

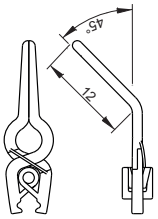
standard clips 1:1



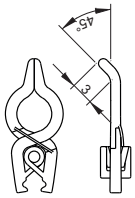
ST-F-45-35-6-TI
opening width 5.8 mm
1.47 N
150 g



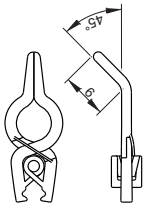
ST-F-45-35-9-TI
opening width 6.5 mm
1.47 N
150 g



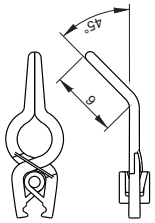
ST-F-45-35-12-TI
opening width 7.2 mm
1.47 N
150 g



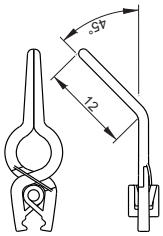
ST-F-45-50-3-TI
opening width 5.4 mm
1.47 N
150 g



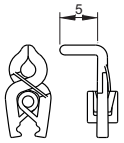
ST-F-45-50-6-TI
opening width 6.5 mm
1.47 N
150 g



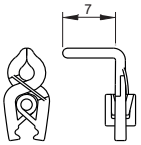
ST-F-45-50-9-TI
opening width 7.2 mm
1.47 N
150 g



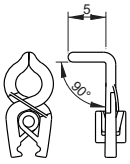
ST-F-45-50-12-TI
opening width 7.8 mm
1.47 N
150 g



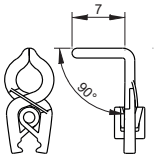
ST-F-90-20-5-TI
opening width 5.0 mm
1.47 N
150 g



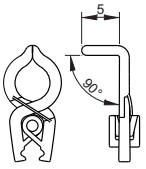
ST-F-90-20-7-TI
opening width 5.0 mm
1.47 N
150 g



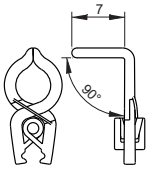
ST-F-90-35-5-TI
opening width 5.0 mm
1.47 N
150 g



ST-F-90-35-7-TI
opening width 5.0 mm
1.47 N
150 g

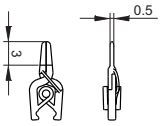


ST-F-90-50-5-TI
opening width 5.0 mm
1.47 N
150 g

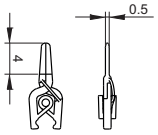


ST-F-90-50-7-TI
opening width 5.0 mm
1.47 N
150 g

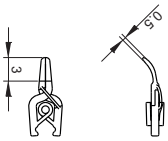
temporary micro clips 1:1



MC-T-0-3-TI
opening width 3.3 mm
0.64 N
65 g

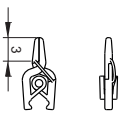


MC-T-0-4-TI
opening width 4.0 mm
0.64 N
65 g

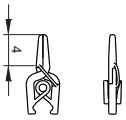


MC-T-C-3-TI
opening width 3.2 mm
0.64 N
65 g

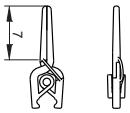
temporary mini clips 1:1



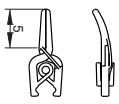
MN-T-0-3-TI
opening width 3.3 mm
0.64 N
65 g



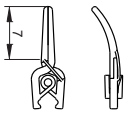
MN-T-0-4-TI
opening width 4.0 mm
0.64 N
65 g



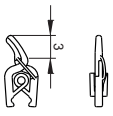
MN-T-0-7-TI
opening width 5.0 mm
0.64 N
65 g



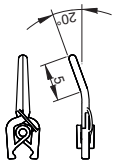
MN-T-C-5-TI
opening width 3.8 mm
0.64 N
65 g



MN-T-C-7-TI
opening width 4.2 mm
0.64 N
65 g

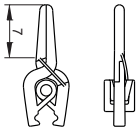


MN-T-SC-3-TI
opening width 3.0 mm
0.64 N
65 g

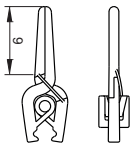


MN-T-20-5-TI
opening width 4.0 mm
0.64 N
65 g

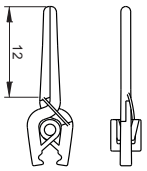
temporary standard clips 1:1



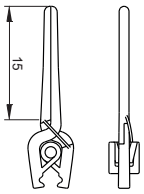
ST-T-0-7-TI
opening width 6.2 mm
0.88 N
90 g



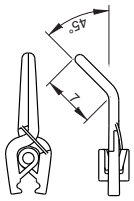
ST-T-0-9-TI
opening width 7.0 mm
0.88 N
90 g



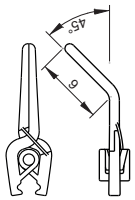
ST-T-0-12-TI
opening width 8.0 mm
0.88 N
90 g



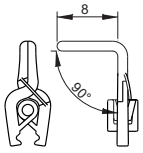
ST-T-0-15-TI
opening width 9.2 mm
0.88 N
90 g



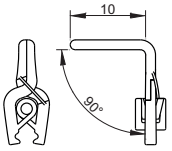
ST-T-45-7-TI
opening width 5.0 mm
0.88 N
90 g



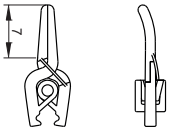
ST-T-45-9-TI
opening width 6.0 mm
0.88 N
90 g



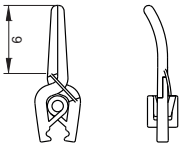
ST-T-90-8-TI
opening width 4.5 mm
0.88 N
90 g



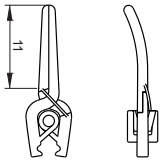
ST-T-90-10-TI
opening width 4.5 mm
0.88 N
90 g



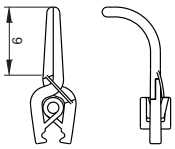
ST-T-C-7-TI
opening width 6.0 mm
0.88 N
90 g



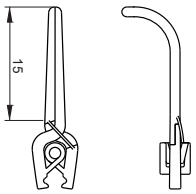
ST-T-C-9-TI
opening width 6.8 mm
0.88 N
90 g



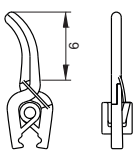
ST-T-C-11-TI
opening width 7.5 mm
0.88 N
90 g



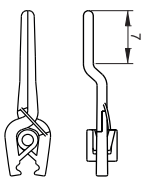
ST-T-CC-9-TI
opening width 6.1 mm
0.88 N
90 g



ST-T-CC-15-TI
opening width 7.4 mm
0.88 N
90 g

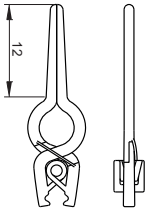


ST-T-SC-9-TI
opening width 5.0 mm
0.88 N
90 g

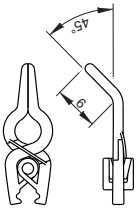


ST-T-BY-7-TI
opening width 7.9 mm
0.88 N
90 g

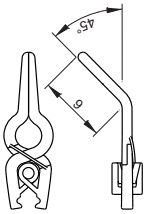
temporary standard clips 1:1



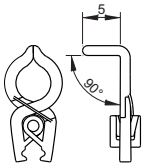
ST-T-F-0-50-12-TI
opening width 10.3 mm
0.88 N
90 g



ST-T-F-45-35-6-TI
opening width 5.8 mm
0.88 N
90 g



ST-T-F-45-35-9-TI
opening width 6.5 mm
0.88 N
90 g



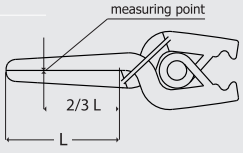
ST-T-F-90-50-5-TI
opening width 5.0 mm
0.88 N
90 g

technical details

CLOSING PRESSURE + / - 7.5 %

SCHLIESSKRAFT + / - 7.5 %

Type	standard clips (g / N)	temporary clips (g / N)
micro	110 / 1.08	65 / 0.64
mini	110 / 1.08	65 / 0.64
standard	150 or 180 / 1.47 or 1.77	90 / 0.88



micro and mini clip instruments

PMN-01
micro / mini applier / remover
working length 60 mm
total length 190 mm

PMN-02
micro / mini applier / remover
working length 80 mm
total length 210 mm

PMN-03
micro / mini applier / remover
working length 100 mm
total length 230 mm

MEMORYPLUS™
FLEXIBLE SHAFT

PMN-41
micro / mini applier / remover
working length 80 mm
total length 255 mm

PMN-42
micro / mini applier / remover
working length 100 mm
total length 275 mm

standard clip instruments

VARIABLE

PST-11
standard applier / remover
working length 60 mm
total length 190 mm

PST-12
standard applier / remover
working length 80 mm
total length 210 mm

PST-13
standard applier / remover
working length 100 mm
total length 230 mm

FIXED

PST-31
standard applier / remover
working length 60 mm
total length 190 mm

PST-32
standard applier / remover
working length 80 mm
total length 210 mm

PST-33
standard applier / remover
working length 100 mm
total length 230 mm

PERNECZKY ANEURYSM CLIP 2

VARIABLE

MEMORYPLUS™
FLEXIBLE SHAFT

PST-51
standard applier / remover
working length 80 mm
total length 255 mm

PST-52
standard applier / remover
working length 100 mm
total length 275 mm

FIXED

MEMORYPLUS™
FLEXIBLE SHAFT

PST-71
standard applier / remover
working length 80 mm
total length 255 mm

PST-72
standard applier / remover
working length 100 mm
total length 275 mm

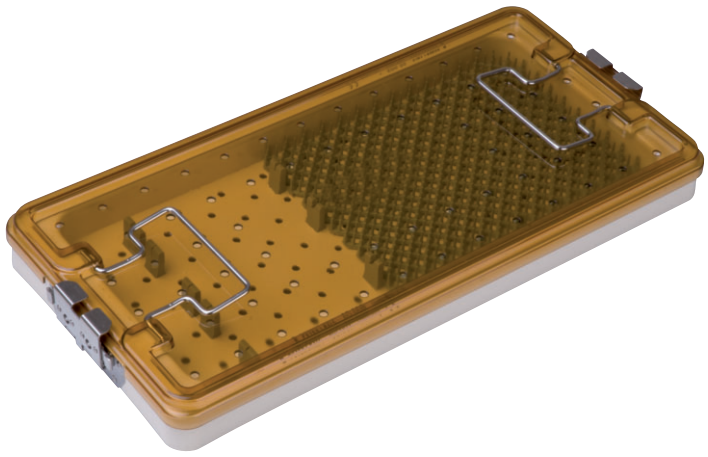
storage and sterilization

ST1

Tray for 58 clips

528 x 254 x 40 mm stackable / stapelbar

PPSU / up to 3 bar / 143°C / 289°F



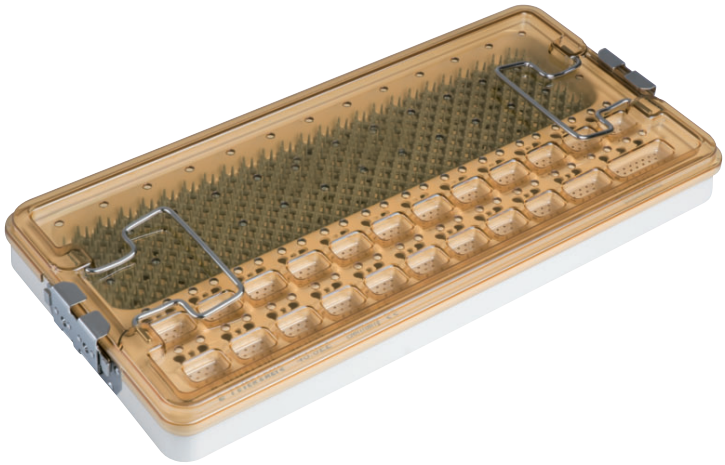
ST2

Tray for 6 clip instruments

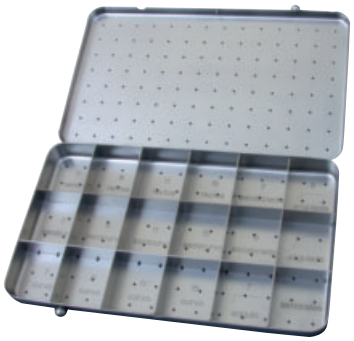
528 x 254 x 40 mm stackable / stapelbar

PPSU / up to 3 bar / 143°C / 289°F

storage and sterilization



ST3
Tray for 23 clips + 4 clip instruments
528 x 254 x 40 mm stackable / stapelbar
PPSU / up to 3 bar / 143°C / 289°F



ST4
Tray for 18 clips
150 x 95 x 13 mm stainless steel
up to 3 bar / 143°C / 289°F

storage and sterilization

ST5

Tray for 42 clips

210 x 125 x 17 mm stainless steel

up to 3 bar / 143°C / 289°F

PERNECZKY ANEURYSM CLIP 2

HEADQUARTERS

adeor medical AG
Martinshof 5
D-83626 Valley
Germany
Phone +49 (0) 8024 47717 0
Fax +49 (0) 8024 47717 99
eMail office@adeor.com
web www.adeor.com

Printed on recycled paper.
Gedruckt auf Recyclingpapier.