



**PERNECZKY ANEURYSM CLIP 2**





## THE PROBLEM

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

## THE SOLUTION

The clip instrument grasps the clip on the inside and has smaller external dimensions than the clip itself. As a result, the clip always remains in the line of sight. The Perneczky Aneurysm Clip 2™ has been developed in close cooperation with leading German neurosurgeon Prof. Dr. Dr. h. c. Axel Perneczky (†).

## 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.

## DIE LÖSUNG

Die Clip-Zange muss den Clip von innen fassen und somit kleinere Außenabmessungen als der Clip selbst haben. Der gesamte Clip befindet sich stets uneingeschränkt im Blickfeld des Chirurgen. Der Perneczky Aneurysma Clip 2™ wurde in enger Zusammenarbeit mit Prof. Dr. Dr. h. c. Axel Perneczky (†) entwickelt.

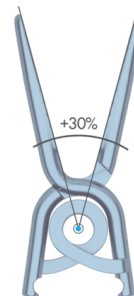
### REDUCED SIZE

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



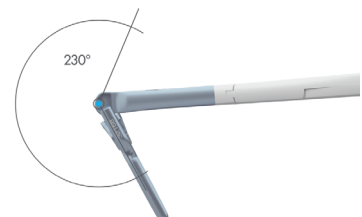
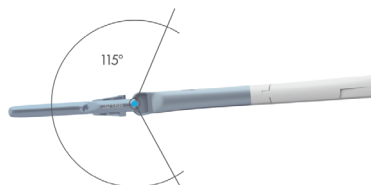
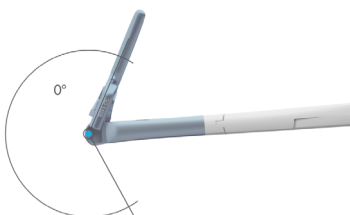
### WIDER OPENING

**30% more opening width**  
30% mehr 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

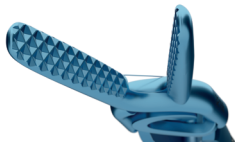




**COLOR CODING** A Color Coding System facilitates the clip selection and identification process. The Perneczky Aneurysm Clip 2™ comes in three different versions.

**FARB CODIERUNG** 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**
- Temporary Clips**
- Micro and Mini Permanent 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 einem Abrutschen des Clips 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 traceability.

**SERIENNUMMER** Die in den Clip eingravierte Seriennummer garantiert eine optimale Rückverfolgbarkeit.

**PACKAGING** 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 product label.

**VERPACKUNG** 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 titanium alloy acc. to ISO 5832-2 and ISO 5832-3. The Perneczky Aneurysm Clip 2™ is non ferromagnetic and MRI safe up to 3 Tesla. CT/MR image artefacts are minimized.

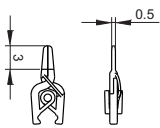
**MATERIAL** Hergestellt aus Titanlegierungen gemäß ISO 5832-2 und ISO 5832-3. Der Perneczky Aneurysma Clip 2™ ist nicht ferromagnetisch und MR kompatibel bis zu 3 Tesla. Die CT/MR Artefaktbildung ist minimal.



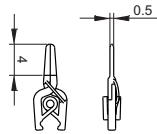
**MRI SAFE**  
UP TO 3 TESLA



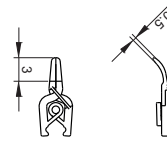
micro clips 1:1



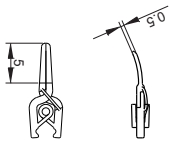
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 1.08 N  
 110 g



**MC-0-4-TI**  
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 110 g

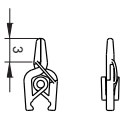


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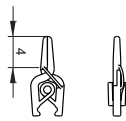


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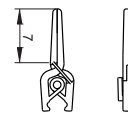
mini clips 1:1



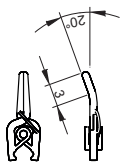
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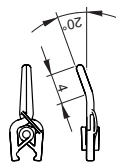
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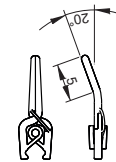
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**MN-20-3-TI**  
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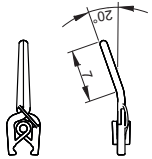


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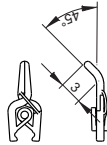


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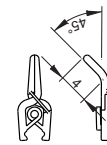
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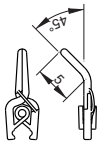
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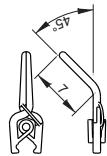
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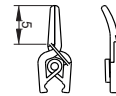
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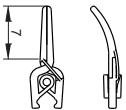
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110 g



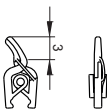
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110 g



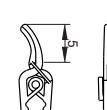
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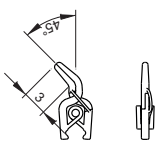
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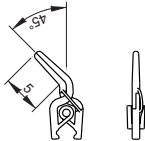
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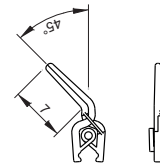
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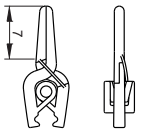


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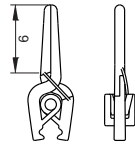


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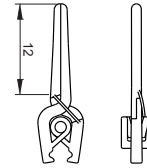
standard clips 1:1



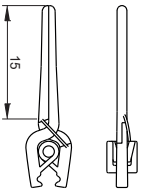
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1.47 N  
150 g



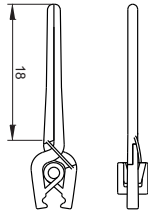
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180 g



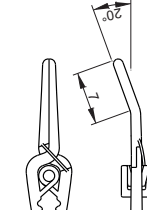
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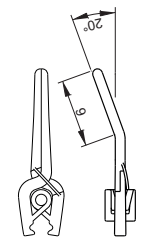
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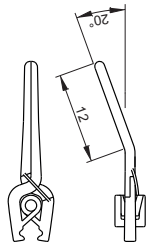
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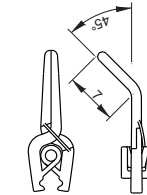
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1.77 N  
180 g



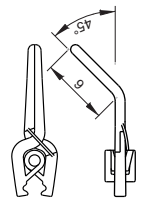
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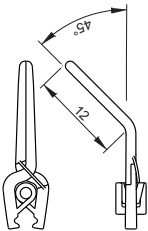
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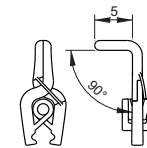
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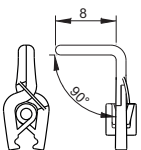
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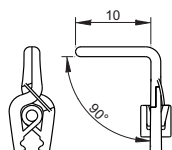
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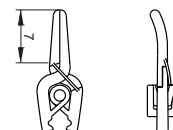
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**ST-90-8-TI**  
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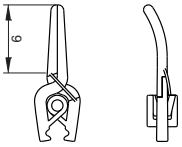


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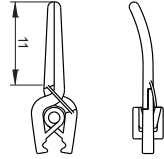


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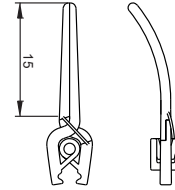
standard clips 1:1



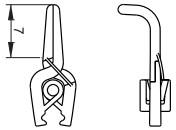
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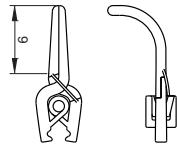
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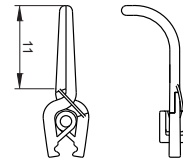
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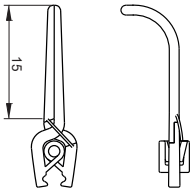
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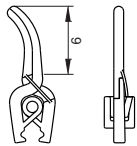
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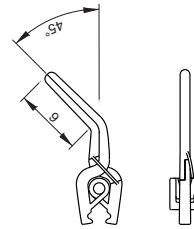
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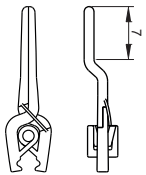
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180 g



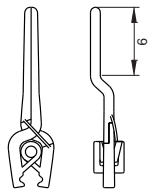
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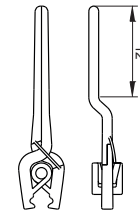
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180 g



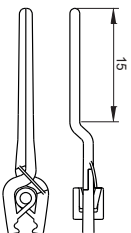
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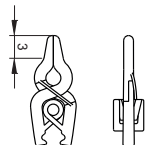
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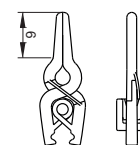
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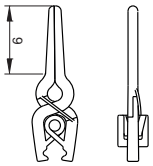


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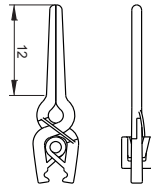


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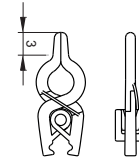
standard clips 1:1



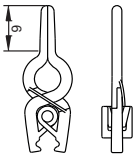
**ST-F-0-20-9-TI**  
opening width 8.4 mm  
1.47 N  
150 g



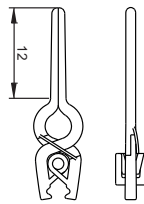
**ST-F-0-20-12-TI**  
opening width 9.6 mm  
1.47 N  
150 g



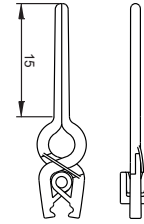
**ST-F-0-35-3-TI**  
opening width 6.4 mm  
1.47 N  
150 g



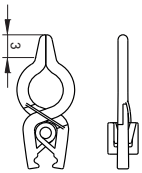
**ST-F-0-35-6-TI**  
opening width 7.4 mm  
1.47 N  
150 g



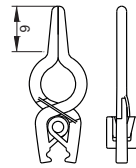
**ST-F-0-35-12-TI**  
opening width 8.4 mm  
1.47 N  
150 g



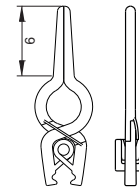
**ST-F-0-35-15-TI**  
opening width 9.6 mm  
1.47 N  
150 g



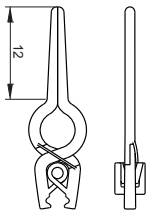
**ST-F-0-50-3-TI**  
opening width 6.7 mm  
1.47 N  
150 g



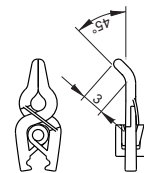
**ST-F-0-50-6-TI**  
opening width 7.9 mm  
1.47 N  
150 g



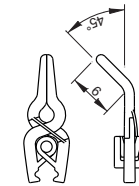
**ST-F-0-50-9-TI**  
opening width 9.1 mm  
1.47 N  
150 g



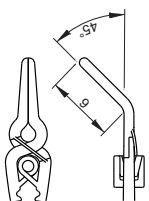
**ST-F-0-50-12-TI**  
opening width 10.3 mm  
1.47 N  
150 g



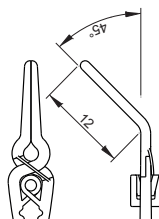
**ST-F-45-20-3-TI**  
opening width 3.8 mm  
1.47 N  
150 g



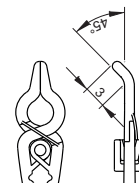
**ST-F-45-20-6-TI**  
opening width 5.0 mm  
1.47 N  
150 g



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

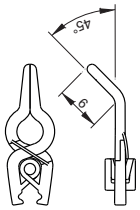


**ST-F-45-20-12-TI**  
opening width 7.0 mm  
1.47 N  
150 g

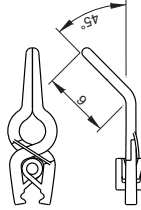


**ST-F-45-35-3-TI**  
opening width 4.0 mm  
1.47 N  
150 g

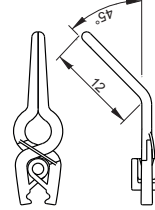
standard clips 1:1



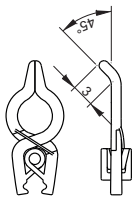
**ST-F-45-35-6-TI**  
opening width 5.8 mm  
1.47 N  
150 g



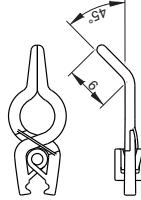
**ST-F-45-35-9-TI**  
opening width 6.5 mm  
1.47 N  
150 g



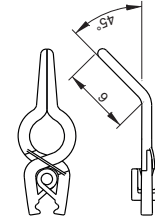
**ST-F-45-35-12-TI**  
opening width 7.2 mm  
1.47 N  
150 g



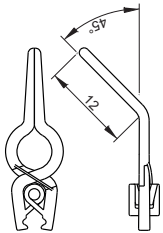
**ST-F-45-50-3-TI**  
opening width 5.4 mm  
1.47 N  
150 g



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



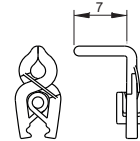
**ST-F-45-50-9-TI**  
opening width 7.2 mm  
1.47 N  
150 g



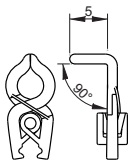
**ST-F-45-50-12-TI**  
opening width 7.8 mm  
1.47 N  
150 g



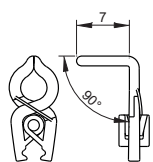
**ST-F-90-20-5-TI**  
opening width 5.0 mm  
1.47 N  
150 g



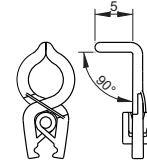
**ST-F-90-20-7-TI**  
opening width 5.0 mm  
1.47 N  
150 g



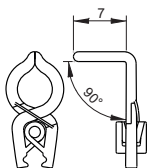
**ST-F-90-35-5-TI**  
opening width 5.0 mm  
1.47 N  
150 g



**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

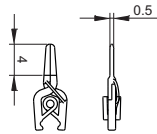


**ST-F-90-50-7-TI**  
opening width 5.0 mm  
1.47 N  
150 g

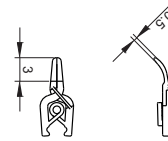
temporary micro clips 1:1



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

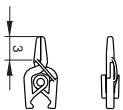


**MC-T-0-4-TI**  
 opening width 4.0 mm  
 0.64 N  
 65 g

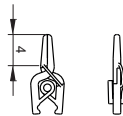


**MC-T-C-3-TI**  
 opening width 3.2 mm  
 0.64 N  
 65 g

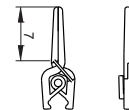
temporary mini clips 1:1



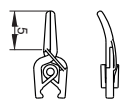
**MN-T-0-3-TI**  
 opening width 3.3 mm  
 0.64 N  
 65 g



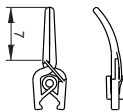
**MN-T-0-4-TI**  
 opening width 4.0 mm  
 0.64 N  
 65 g



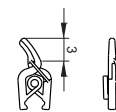
**MN-T-0-7-TI**  
 opening width 5.0 mm  
 0.64 N  
 65 g



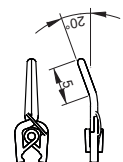
**MN-T-C-5-TI**  
 opening width 3.8 mm  
 0.64 N  
 65 g



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

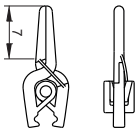


**MN-T-SC-3-TI**  
 opening width 3.0 mm  
 0.64 N  
 65 g

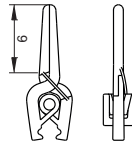


**MN-T-20-5-TI**  
 opening width 4.0 mm  
 0.64 N  
 65 g

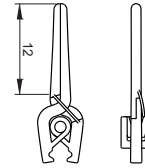
temporary standard clips 1:1



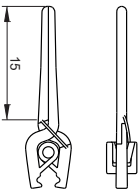
**ST-T-0-7-TI**  
opening width 6.2 mm  
0.88 N  
90 g



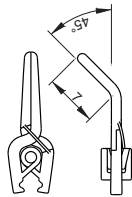
**ST-T-0-9-TI**  
opening width 6.8 mm  
0.88 N  
90 g



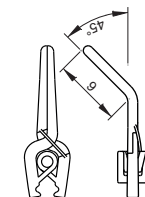
**ST-T-0-12-TI**  
opening width 8.0 mm  
0.88 N  
90 g



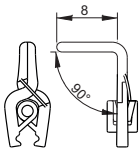
**ST-T-0-15-TI**  
opening width 9.2 mm  
0.88 N  
90 g



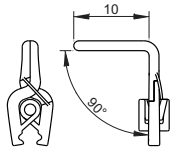
**ST-T-45-7-TI**  
opening width 5.0 mm  
0.88 N  
90 g



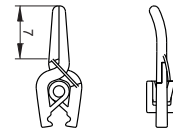
**ST-T-45-9-TI**  
opening width 6.0 mm  
0.88 N  
90 g



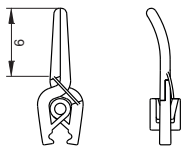
**ST-T-90-8-TI**  
opening width 4.5 mm  
0.88 N  
90 g



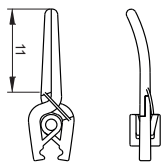
**ST-T-90-10-TI**  
opening width 4.5 mm  
0.88 N  
90 g



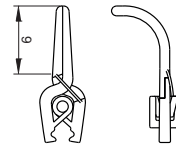
**ST-T-C-7-TI**  
opening width 6.0 mm  
0.88 N  
90 g



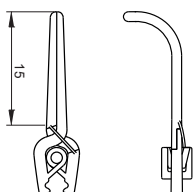
**ST-T-C-9-TI**  
opening width 6.8 mm  
0.88 N  
90 g



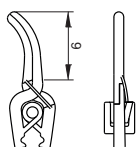
**ST-T-C-11-TI**  
opening width 7.5 mm  
0.88 N  
90 g



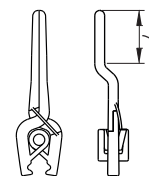
**ST-T-CC-9-TI**  
opening width 6.1 mm  
0.88 N  
90 g



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

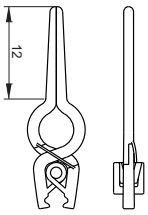


**ST-T-SC-9-TI**  
opening width 5.0 mm  
0.88 N  
90 g

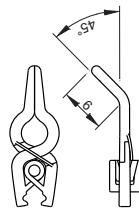


**ST-T-BY-7-TI**  
opening width 7.9 mm  
0.88 N  
90 g

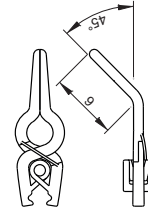
temporary standard clips 1:1



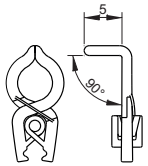
**ST-T-F-0-50-12-TI**  
 opening width 10.3 mm  
 0.88 N  
 90 g



**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



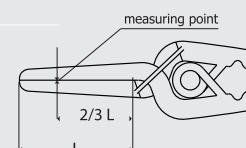
**ST-T-F-90-50-5-TI**  
 opening width 5.0 mm  
 0.88 N  
 90 g

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



**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



**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



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

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



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

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

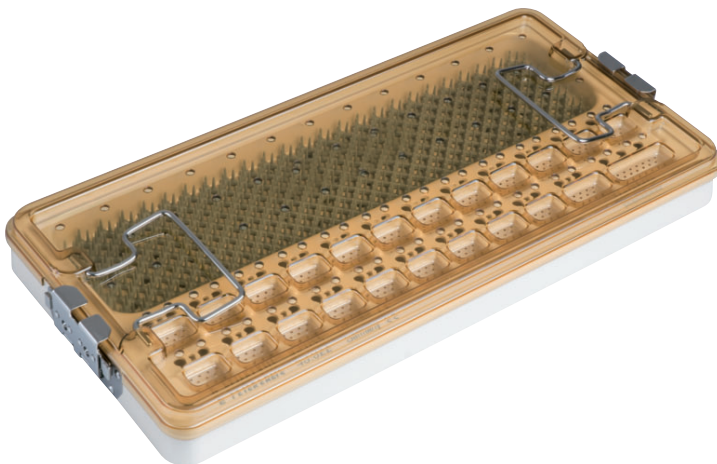
## storage and sterilization



### **ST1**

#### **Tray for 58 clips**

528 x 254 x 40 mm stackable / stapelbar  
PPSU / up to 3 bar / 143°C / 289°F



### **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

storage and sterilization



**ST4**

**Tray for 18 clips**

150 x 95 x 13 mm stainless steel  
up to 3 bar / 143°C / 289°F



**ST5**

**Tray for 42 clips**

210 x 125 x 17 mm stainless steel  
up to 3 bar / 143°C / 289°F







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