

**SugitaClip**  
Titanium II



CE 0123

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\* Under our policy, ongoing improvements and published specifications may be subject to change without prior notice.

\* All published CG photos and illustrations have been from images.

|                                                                                                |                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Caution | <p>•Be sure not to use the product until you have carefully read the instruction manual and attached document and correctly understood their contents.</p>                                                                                                      |
|                                                                                                | <p>•Be sure to carry out without fail the periodic inspections and the pre- and post-operative inspections.<br/>•For details about after the sale service be sure to inquire at our Sales Branches or the dealer from whom you have purchased this product.</p> |



Jun 2016, MM/Baru Design Rev.4

**MIZUHO**  
Medical Innovation



**TE**

SUGITA TITANIUM ANEURYSM CLIPS AND APPLIERS



# Sugita Titanium Aneurysm Clip II from Mizuho. Revolutionizing Aneurysm Management, again.

**SugitaClip**  
Titanium II

Tomorrow's aneurysm management is available today – embodied in the new Sugita Titanium Aneurysm Clip II (T2).

T2 isn't an old design recast in new material but rather a truly innovative advancement, patiently evolved from the industry's most trusted and acclaimed design. By integrating a new, ultra-slim spring-profile that's 50% thinner, with today's widest blade opening and an exclusive bridge wire system, Mizuho has given you today what you've waited years for – unprecedented handling and control and a clearer line of sight.

T2 – the future has just arrived.



Sugita Titanium Aneurysm Clip II (T2)

Sugita Aneurysm Clip

Sugita Titanium Aneurysm Clip II (T2)

Sugita Aneurysm Clip



bridgewire



## Ultra-Slim Spring

Using cutting-edge technology available exclusively to Mizuho, designers reduced the already ultra-low Sugita spring profile by 50%, giving surgeons unprecedented ease of handling and greater visibility of local anatomy.

## Delicately Tapered Blade

A slim blade design with tapered tip allows a smooth approach into deeper, hard-to-reach surgical sites. The finer blade and distal tip contributes to exposure of vital surrounding structures.

## Widest Opening Available

The industry's widest blade opening provides greater freedom of movement when maneuvering the clip over the aneurysm neck, while the exclusive Sugita bridgewire system prevents twisting.

## Atraumatic Blade Impact

The channel-shaped pattern uniformly covers the blade's surface, effectively widening the contact area and improving grip force for a strong, consistent hold. Unique design helps ensure vessel safety by reducing slippage and preserving tissue integrity.

## MRI Compatibility

T2's Titanium alloy offers excellent biological compatibility, durability and wear resistance for permanent implantation. T2 Clips are made of non-ferromagnetic material verified by ASTM F136 / ISO 5832-3. It is confirmed by the ASTM defined test method that they may be used without influence by MRI up to 3 Tesla.

## A Clip for Every Need

To facilitate treatment of complex aneurysms, the T2 Clip is available in a wide variety of blade shapes, lengths and angles. Clip-spring colors match appropriate applicators for fast, accurate instrument identification.



[illegible]



## Tray B 17-010-01

\* All Clips are packaged non-sterile.

| Mini                                     |                                               | Standard                                    |                                               | Prod. Code<br>Model No.                |                                          | 1/4 size<br>image dia. (mm) | Max opening<br>Closing force (x7.9N) |
|------------------------------------------|-----------------------------------------------|---------------------------------------------|-----------------------------------------------|----------------------------------------|------------------------------------------|-----------------------------|--------------------------------------|
| 17-001-00<br><b>No.80</b><br>Straight    | 17-001-05<br><b>No.95</b><br>Straight Slim    | 17-001-01<br><b>No.81</b><br>Straight       | 17-001-06<br><b>No.96</b><br>Straight Slim    | 17-001-10<br><b>No.100</b><br>Straight |                                          |                             |                                      |
|                                          |                                               |                                             |                                               |                                        |                                          |                             |                                      |
| 5.5 (mm) 130 (g) 1.27 (N)                | 5.5 (mm) 130 (g) 1.27 (N)                     | 7.0 (mm) 130 (g) 1.27 (N)                   | 7.0 (mm) 130 (g) 1.27 (N)                     | 8.0 (mm) 130 (g) 1.27 (N)              |                                          |                             |                                      |
| 17-001-04<br><b>No.84</b><br>Bent        | 17-001-06<br><b>No.86</b><br>Sideward Curved  | 17-001-09<br><b>No.104</b><br>Sideward Bent | 17-001-08<br><b>No.89</b><br>Beyound          | 17-001-20<br><b>No.105</b><br>Beyound  |                                          |                             |                                      |
|                                          |                                               |                                             |                                               |                                        |                                          |                             |                                      |
| 7.0 (mm) 130 (g) 1.27 (N)                | 7.5 (mm) 130 (g) 1.27 (N)                     | 8.5 (mm) 130 (g) 1.27 (N)                   | 8.5 (mm) 130 (g) 1.27 (N)                     | 10.0 (mm) 130 (g) 1.27 (N)             |                                          |                             |                                      |
| 17-001-05<br><b>No.85</b><br>Curved      | 17-001-09<br><b>No.99</b><br>Curved Slim      | 17-001-07<br><b>No.87</b><br>Curved         |                                               |                                        | 17-001-06<br><b>No.98</b><br>Curved Slim |                             |                                      |
|                                          |                                               |                                             |                                               |                                        |                                          |                             |                                      |
| 5.5 (mm) 130 (g) 1.27 (N)                | 6.5 (mm) 130 (g) 1.27 (N)                     | 6.0 (mm) 130 (g) 1.27 (N)                   |                                               |                                        | 8.0 (mm) 130 (g) 1.27 (N)                |                             |                                      |
| 17-001-03<br><b>No.83</b><br>Curved      | 17-001-17<br><b>No.102</b><br>Slightly Curved | 17-001-21<br><b>No.106</b><br>Curved Slim   | 17-001-18<br><b>No.103</b><br>Slightly Curved |                                        |                                          |                             |                                      |
|                                          |                                               |                                             |                                               |                                        |                                          |                             |                                      |
| 6.5 (mm) 130 (g) 1.27 (N)                | 6.5 (mm) 130 (g) 1.27 (N)                     | 6.5 (mm) 130 (g) 1.27 (N)                   | 7.0 (mm) 130 (g) 1.27 (N)                     | 7.0 (mm) 130 (g) 1.27 (N)              |                                          |                             |                                      |
| 17-001-07<br><b>No.97</b><br>Curved Slim | 17-001-08<br><b>No.88</b><br>Curved           | 17-001-01<br><b>No.80</b><br>Straight       | 17-001-02<br><b>No.81</b><br>Straight         | 17-001-03<br><b>No.82</b><br>Straight  |                                          |                             |                                      |
|                                          |                                               |                                             |                                               |                                        |                                          |                             |                                      |
| 7.0 (mm) 130 (g) 1.27 (N)                | 7.5 (mm) 130 (g) 1.27 (N)                     | 9.0 (mm) 150 (g) 1.47 (N)                   | 10.0 (mm) 150 (g) 1.47 (N)                    | 10.0 (mm) 150 (g) 1.47 (N)             |                                          |                             |                                      |

## Tray C 17-010-02

\* All Clips are packaged non-sterile.

| Standard                                    |                                                 | Prod. Code<br>Model No.               |                                                 | 1/4 size<br>image dia. (mm)                          | Max opening<br>Closing force (x7.9N) |
|---------------------------------------------|-------------------------------------------------|---------------------------------------|-------------------------------------------------|------------------------------------------------------|--------------------------------------|
| 17-001-01<br><b>No.1</b><br>Straight        | 17-001-02<br><b>No.2</b><br>Straight            | 17-001-03<br><b>No.10</b><br>Straight | 17-001-05<br><b>No.15</b><br>Straight           | 17-001-06<br><b>No.18</b><br>Straight                |                                      |
|                                             |                                                 |                                       |                                                 |                                                      |                                      |
| 8.5 (mm) 150 (g) 1.47 (N)                   | 10.5 (mm) 150 (g) 1.47 (N)                      | 11.5 (mm) 170 (g) 1.67 (N)            | 13.5 (mm) 170 (g) 1.67 (N)                      | 15.5 (mm) 170 (g) 1.67 (N)                           |                                      |
| 17-001-20<br><b>No.70 (19A)</b><br>Straight | 17-001-03<br><b>No.3</b><br>Beyound             | 17-001-13<br><b>No.13</b><br>Beyound  | 17-001-14<br><b>No.14</b><br>Beyound            | 17-001-16<br><b>No.16</b><br>Slightly Curved Beyound |                                      |
|                                             |                                                 |                                       |                                                 |                                                      |                                      |
| 17.0 (mm) 170 (g) 1.67 (N)                  | 11.0 (mm) 150 (g) 1.47 (N)                      | 13.0 (mm) 150 (g) 1.47 (N)            | 14.0 (mm) 170 (g) 1.67 (N)                      | 14.0 (mm) 170 (g) 1.67 (N)                           |                                      |
| 17-001-04<br><b>No.4</b><br>Bent            | 17-001-04<br><b>No.64 (4B)</b><br>Slightly Bent | 17-001-12<br><b>No.12</b><br>Bent     | 17-001-47<br><b>No.47</b><br>45° Angled         | 17-001-48<br><b>No.48</b><br>45° Angled              |                                      |
|                                             |                                                 |                                       |                                                 |                                                      |                                      |
| 9.5 (mm) 150 (g) 1.47 (N)                   | 10.5 (mm) 150 (g) 1.47 (N)                      | 11.0 (mm) 170 (g) 1.67 (N)            | 10.5 (mm) 150 (g) 1.47 (N)                      | 11.5 (mm) 150 (g) 1.47 (N)                           |                                      |
| 17-001-49<br><b>No.49</b><br>45° Angled     | 17-001-23<br><b>No.23</b><br>J Shaped           | 17-001-24<br><b>No.24</b><br>J Shaped | 17-001-25<br><b>No.25</b><br>J Shaped           | 17-001-73<br><b>No.73</b><br>1/4 Curved              |                                      |
|                                             |                                                 |                                       |                                                 |                                                      |                                      |
| 12.5 (mm) 150 (g) 1.47 (N)                  | 9.0 (mm) 150 (g) 1.47 (N)                       | 9.0 (mm) 150 (g) 1.47 (N)             | 9.5 (mm) 150 (g) 1.47 (N)                       | 11.0 (mm) 170 (g) 1.67 (N)                           |                                      |
| 17-001-50<br><b>No.50</b><br>L Shaped       | 17-001-21<br><b>No.21</b><br>L Shaped           | 17-001-22<br><b>No.22</b><br>L Shaped | 17-001-60<br><b>No.60</b><br>L Shaped w/ Curved | 17-001-61<br><b>No.61</b><br>L Shaped w/ Curved      |                                      |
|                                             |                                                 |                                       |                                                 |                                                      |                                      |
| 8.0 (mm) 150 (g) 1.47 (N)                   | 8.0 (mm) 150 (g) 1.47 (N)                       | 8.0 (mm) 150 (g) 1.47 (N)             | 8.0 (mm) 150 (g) 1.47 (N)                       | 8.0 (mm) 150 (g) 1.47 (N)                            |                                      |

## Tray D 17-010-03

\* All Clips are packaged non-sterile.

| Standard                                  |                                                   | Long                                                |                                              | Prod. Code<br>Model No.                      |  | 1/4 size<br>image dia. (mm) | Max opening<br>Closing force (x7.9N) |
|-------------------------------------------|---------------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--|-----------------------------|--------------------------------------|
| 17-001-08<br><b>No.8</b><br>Curved        | 17-001-08<br><b>No.68 (8B)</b><br>Slightly Curved | 17-001-09<br><b>No.9</b><br>Slightly Curved         | 17-001-62<br><b>No.62</b><br>1/4 Curved      | 17-001-63<br><b>No.63</b><br>1/4 Curved      |  |                             |                                      |
|                                           |                                                   |                                                     |                                              |                                              |  |                             |                                      |
| 9.5 (mm) 150 (g) 1.47 (N)                 | 10.0 (mm) 150 (g) 1.47 (N)                        | 10.0 (mm) 150 (g) 1.47 (N)                          | 9.0 (mm) 150 (g) 1.47 (N)                    | 9.5 (mm) 150 (g) 1.47 (N)                    |  |                             |                                      |
| 17-001-69<br><b>No.69</b><br>Curved       | 17-001-65<br><b>No.65</b><br>Slightly Curved      | 17-001-66<br><b>No.66</b><br>Slightly Curved        | 17-001-50<br><b>No.50</b><br>Slightly Curved | 17-001-17<br><b>No.17</b><br>Slightly Curved |  |                             |                                      |
|                                           |                                                   |                                                     |                                              |                                              |  |                             |                                      |
| 9.5 (mm) 150 (g) 1.47 (N)                 | 11.0 (mm) 170 (g) 1.67 (N)                        | 11.0 (mm) 170 (g) 1.67 (N)                          | 13.0 (mm) 170 (g) 1.67 (N)                   | 15.5 (mm) 170 (g) 1.67 (N)                   |  |                             |                                      |
| 17-001-05<br><b>No.5</b><br>Sideward Bent | 17-001-06<br><b>No.6</b><br>Sideward Curved       | 17-001-07<br><b>No.7</b><br>Sideward Curved Beyound | 17-001-11<br><b>No.11</b><br>Sideward Bent   |                                              |  |                             |                                      |
|                                           |                                                   |                                                     |                                              |                                              |  |                             |                                      |
| 11.0 (mm) 150 (g) 1.47 (N)                | 10.0 (mm) 150 (g) 1.47 (N)                        | 12.0 (mm) 150 (g) 1.47 (N)                          | 13.5 (mm) 170 (g) 1.67 (N)                   |                                              |  |                             |                                      |

## Tray E 17-010-04

\* All Clips are packaged non-sterile.

| Standard                               |                                        | Prod. Code<br>Model No.               |                                       | 1/4 size<br>image dia. (mm)            | Max opening<br>Closing force (x7.9N) |
|----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|--------------------------------------|
| 17-001-38<br><b>No.144</b><br>Straight | 17-001-39<br><b>No.145</b><br>Straight | 17-001-26<br><b>No.26</b><br>Straight | 17-001-27<br><b>No.27</b><br>Straight | 17-001-28<br><b>No.28</b><br>Straight  |                                      |
|                                        |                                        |                                       |                                       |                                        |                                      |
| 9.0 (mm) 150 (g) 1.47 (N)              | 10.0 (mm) 150 (g) 1.47 (N)             | 11.0 (mm) 150 (g) 1.47 (N)            | 13.0 (mm) 150 (g) 1.47 (N)            | 14.5 (mm) 150 (g) 1.47 (N)             |                                      |
| 17-001-40<br><b>No.146</b><br>Straight | 17-001-29<br><b>No.29</b><br>Straight  | 17-001-30<br><b>No.30</b><br>Straight | 17-001-31<br><b>No.31</b><br>Straight |                                        |                                      |
|                                        |                                        |                                       |                                       |                                        |                                      |
| 11.0 (mm) 150 (g) 1.47 (N)             | 12.0 (mm) 150 (g) 1.47 (N)             | 14.0 (mm) 150 (g) 1.47 (N)            | 15.5 (mm) 150 (g) 1.47 (N)            |                                        |                                      |
| 17-001-35<br><b>No.141</b><br>Bent     | 17-001-32<br><b>No.32</b><br>Bent      | 17-001-33<br><b>No.33</b><br>Bent     | 17-001-34<br><b>No.34</b><br>Bent     | 17-001-01<br><b>No.107</b><br>L Shaped |                                      |
|                                        |                                        |                                       |                                       |                                        |                                      |
| 8.0 (mm) 150 (g) 1.47 (N)              | 8.5 (mm) 150 (g) 1.47 (N)              | 9.0 (mm) 150 (g) 1.47 (N)             | 10.0 (mm) 150 (g) 1.47 (N)            | 9.5 (mm) 150 (g) 1.47 (N)              |                                      |

## Tray D 17-010-03

\* All Clips are packaged non-sterile.

| Standard                                  |                                                   | Long                                                |                                              | Prod. Code<br>Model No.                      |  | 1/4 size<br>image dia. (mm) | Max opening<br>Closing force (x7.9N) |
|-------------------------------------------|---------------------------------------------------|-----------------------------------------------------|----------------------------------------------|----------------------------------------------|--|-----------------------------|--------------------------------------|
| 17-001-08<br><b>No.8</b><br>Curved        | 17-001-08<br><b>No.68 (8B)</b><br>Slightly Curved | 17-001-09<br><b>No.9</b><br>Slightly Curved         | 17-001-62<br><b>No.62</b><br>1/4 Curved      | 17-001-63<br><b>No.63</b><br>1/4 Curved      |  |                             |                                      |
|                                           |                                                   |                                                     |                                              |                                              |  |                             |                                      |
| 9.5 (mm) 150 (g) 1.47 (N)                 | 10.0 (mm) 150 (g) 1.47 (N)                        | 10.0 (mm) 150 (g) 1.47 (N)                          | 9.0 (mm) 150 (g) 1.47 (N)                    | 9.5 (mm) 150 (g) 1.47 (N)                    |  |                             |                                      |
| 17-001-69<br><b>No.69</b><br>Curved       | 17-001-65<br><b>No.65</b><br>Slightly Curved      | 17-001-66<br><b>No.66</b><br>Slightly Curved        | 17-001-50<br><b>No.50</b><br>Slightly Curved | 17-001-17<br><b>No.17</b><br>Slightly Curved |  |                             |                                      |
|                                           |                                                   |                                                     |                                              |                                              |  |                             |                                      |
| 9.5 (mm) 150 (g) 1.47 (N)                 | 11.0 (mm) 170 (g) 1.67 (N)                        | 11.0 (mm) 170 (g) 1.67 (N)                          | 13.0 (mm) 170 (g) 1.67 (N)                   | 15.5 (mm) 170 (g) 1.67 (N)                   |  |                             |                                      |
| 17-001-05<br><b>No.5</b><br>Sideward Bent | 17-001-06<br><b>No.6</b><br>Sideward Curved       | 17-001-07<br><b>No.7</b><br>Sideward Curved Beyound | 17-001-11<br><b>No.11</b><br>Sideward Bent   |                                              |  |                             |                                      |
|                                           |                                                   |                                                     |                                              |                                              |  |                             |                                      |
| 11.0 (mm) 150 (g) 1.47 (N)                | 10.0 (mm) 150 (g) 1.47 (N)                        | 12.0 (mm) 150 (g) 1.47 (N)                          | 13.5 (mm) 170 (g) 1.67 (N)                   |                                              |  |                             |                                      |

## Tray E 17-010-04

\* All Clips are packaged non-sterile.

| Standard                               |                                        | Prod. Code<br>Model No.               |                                       | 1/4 size<br>image dia. (mm)            | Max opening<br>Closing force (x7.9N) |
|----------------------------------------|----------------------------------------|---------------------------------------|---------------------------------------|----------------------------------------|--------------------------------------|
| 17-001-38<br><b>No.144</b><br>Straight | 17-001-39<br><b>No.145</b><br>Straight | 17-001-26<br><b>No.26</b><br>Straight | 17-001-27<br><b>No.27</b><br>Straight | 17-001-28<br><b>No.28</b><br>Straight  |                                      |
|                                        |                                        |                                       |                                       |                                        |                                      |
| 9.0 (mm) 150 (g) 1.47 (N)              | 10.0 (mm) 150 (g) 1.47 (N)             | 11.0 (mm) 150 (g) 1.47 (N)            | 13.0 (mm) 150 (g) 1.47 (N)            | 14.5 (mm) 150 (g) 1.47 (N)             |                                      |
| 17-001-40<br><b>No.146</b><br>Straight | 17-001-29<br><b>No.29</b><br>Straight  | 17-001-30<br><b>No.30</b><br>Straight | 17-001-31<br><b>No.31</b><br>Straight |                                        |                                      |
|                                        |                                        |                                       |                                       |                                        |                                      |
| 11.0 (mm) 150 (g) 1.47 (N)             | 12.0 (mm) 150 (g) 1.47 (N)             | 14.0 (mm) 150 (g) 1.47 (N)            | 15.5 (mm) 150 (g) 1.47 (N)            |                                        |                                      |
| 17-001-35<br><b>No.141</b><br>Bent     | 17-001-32<br><b>No.32</b><br>Bent      | 17-001-33<br><b>No.33</b><br>Bent     | 17-001-34<br><b>No.34</b><br>Bent     | 17-001-01<br><b>No.107</b><br>L Shaped |                                      |
|                                        |                                        |                                       |                                       |                                        |                                      |
| 8.0 (mm) 150 (g) 1.47 (N)              | 8.5 (mm) 150 (g) 1.47 (N)              | 9.0 (mm) 150 (g) 1.47 (N)             | 10.0 (mm) 150 (g) 1.47 (N)            | 9.5 (mm) 150 (g) 1.47 (N)              |                                      |



\* All Clips are packaged non-sterile

|           |         |          |          |         |          |          |         |          |          |         |          |          |         |          |
|-----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|
| 10.0 (mm) | 150 (g) | 1.47 (N) | 8.0 (mm) | 150 (g) | 1.47 (N) | 8.0 (mm) | 150 (g) | 1.47 (N) | 8.0 (mm) | 150 (g) | 1.47 (N) | 8.0 (mm) | 150 (g) | 1.47 (N) |
|-----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|----------|---------|----------|

\* All Clips are packaged non-sterile

Booster Clip is suitable for below numbers.

**Customizable**

Customizable

Temporary client

temporary clip  
from 51 to 58

Every Sugita Aneurysm Clip, including the new T2, embodies Mizuho's never-ending commitment to product quality and patient safety. From development and manufacturing through inspection and logistics, clips undergo stringent monitoring and control to assure optimal reliability and performance.

Lot numbers, laser etched on each clip, permit long-term traceability throughout the treatment period, and enable detailed clip data to be easily obtained, should the need arise

Every clip label lists individual specifications plus clip closing force. Sugita is the first clip brand to indicate closing force on individual packages. 4 labels are provided in each clip package. Please attach labels on the patient record and clip user card.

Please fill in clip information in the Clip User Card and give to the patient. This will ensure that the correct information is given to the surgeons when patients have an examination or reoperation.



## Trace Plate

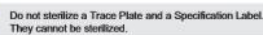


If folded in two the card will be passport size and easy to carry with you.

|                   |                                |
|-------------------|--------------------------------|
| 手术日期 Surgery date | 病历号 Patient medical record no. |
| 年<br>year         |                                |
| 月<br>month        |                                |
| 日<br>day          |                                |

- Be sure to place only one clip in each numbered compartment in the case. (Do not put multiple clips in a compartment.) Multiple clips may cause difficulty with identifying which lot number you applied.
- Be sure to keep and maintain a Specification Label attached to each individual clip.

- A Trace Plate is attached to each style of case.
  1. A pocket for a Specification Label is laid out with the same arrangement as each numbered compartment of the case.
  2. Be careful not to put in or take out an incorrect label.



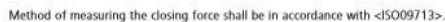
- 3.. After you applied the clip, make sure to take a Specification Label with the same number applicable to the clip and affix it on the medical record, or input the necessary information into the computer.
- 4.. Please insert a Specification Label in the proper pocket upon replenishment of the clips.



- Sugita Clips are packaged Non-Sterile. Make sure to sterilize before each use.
- Product information including a product lot number, closing force, etc. is described on the outer box.
- A handling manual and four pieces of Specification label describing the lot number and closing force are enclosed in the box.



Specification Label

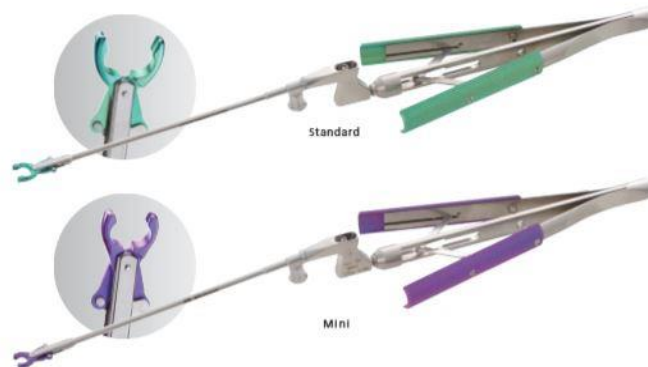


**Closing Force** – In accordance with ISO09713, closing force is measured by opening the clip 1.0 mm. A computerized gauge meter measures force 1/3 blade length from the distal tip. Results are indicated on the clip label in both Newtons and grams.

## Single Shaft Appliers

360 degree  
shaft rotation

## Single Shaft Appliers



Single shaft, low profile appliers  
designed for microsurgical, keyhole,  
and endoscopic aneurysm clippings.

- 360 degree shaft rotation with straight and 30 degree tip angulations allows for improved clipping access
- 50, 90, and 110mm active lengths for a variety of anterior and posterior circulation and endoscopic approaches
- Complete opening of the clips without sacrifice of the low profile nature of the appliers
- Color of the appliers' tips and handles specifically designed for easy identification with Sugita TII standard and mini clips
- Flush port facilitates improved cleaning

| Product Code | Product Name                                                              | Overall length | Working length |
|--------------|---------------------------------------------------------------------------|----------------|----------------|
| 17-012-71    | Sugita Titanium Clip II Single Shaft Applicator Standard, 50mm            | 244mm          | 50mm           |
| 17-012-72    | Sugita Titanium Clip II Single Shaft Applicator Standard, 90mm            |                | 90mm           |
| 17-012-73    | Sugita Titanium Clip II Single Shaft Applicator Standard, 110mm           |                | 110mm          |
| 17-012-74    | Sugita Titanium Clip II Single Shaft Applicator Standard, 30°Angled 50mm  |                | 50mm           |
| 17-012-75    | Sugita Titanium Clip II Single Shaft Applicator Standard, 30°Angled 90mm  |                | 90mm           |
| 17-012-76    | Sugita Titanium Clip II Single Shaft Applicator Standard, 30°Angled 110mm |                | 110mm          |
| 17-013-71    | Sugita Titanium Clip II Single Shaft Applicator Mini, 50mm                |                | 50mm           |
| 17-013-72    | Sugita Titanium Clip II Single Shaft Applicator Mini, 90mm                |                | 90mm           |
| 17-013-73    | Sugita Titanium Clip II Single Shaft Applicator Mini, 110mm               |                | 110mm          |
| 17-013-74    | Sugita Titanium Clip II Single Shaft Applicator Mini, 30°Angled 50mm      |                | 50mm           |
| 17-013-75    | Sugita Titanium Clip II Single Shaft Applicator Mini, 30°Angled 90mm      |                | 90mm           |
| 17-013-76    | Sugita Titanium Clip II Single Shaft Applicator Mini, 30°Angled 110mm     |                | 110mm          |

## Instruments

## New Fukushima Keyhole T2 Clip Appliers



For Superior Visibility and Performance

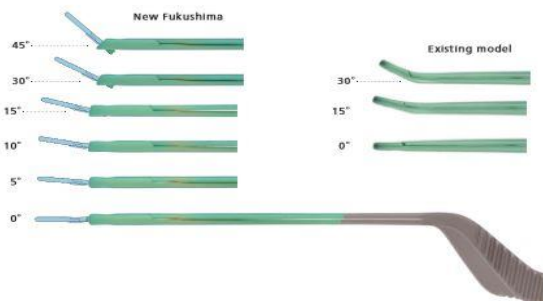


## Design Benefits

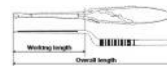
- Low Profile
- Unique Grip Design
- Excellent Balance
- 14 Shapes and Angles for Precise Procedural Match

## Surgeon Friendly

- Ultra low profile allows optimal visibility of operative site
- Supports precise placement of Sugita Titanium Aneurysm Clip II (T2)
- Meticulously milled jaw grooves help secure large and mini clip sizes



## Instruments Spec

Effective length of applicators  
This is the length from the clip holder tip.

## Fukushima Keyhole Clip Applicator



| Product Code | Product Name                   | Overall length | Working length |
|--------------|--------------------------------|----------------|----------------|
| 17-015-01    | Standard Straight              | 210mm          | 85mm           |
| 17-015-02    | Standard 5 degree Angled Up    |                |                |
| 17-015-03    | Standard 10 degree Angled Up   |                |                |
| 17-015-04    | Standard 15 degree Angled Up   |                |                |
| 17-015-05    | Standard 15 degree Angled Down | 210mm          | 85mm           |
| 17-015-06    | Standard 30 degree Angled Up   |                |                |
| 17-015-07    | Standard 45 degree Angled Up   |                |                |
| 17-015-08    | Standard Right                 |                |                |
| 17-015-09    | Standard Left                  | 220mm          | 85mm           |
| 17-015-10    | Standard Far Right             |                |                |
| 17-015-11    | Standard Far Left              |                |                |
| 17-015-12    | Mini Straight                  |                |                |
| 17-015-13    | Mini 10 degree Angled Up       | 210mm          | 85mm           |
| 17-015-14    | Mini 15 degree Angled Up       |                |                |
| 17-015-15    | Mini 15 degree Angled Down     |                |                |
| 17-015-16    | Mini 30 degree Angled Up       |                |                |
| 17-015-17    | Mini Right                     | 220mm          | 85mm           |
| 17-015-18    | Mini Left                      |                |                |
| 17-015-19    | Mini Far Right                 |                |                |
| 17-015-20    | Mini Far Left                  |                |                |
| 17-015-21    | Long Straight                  | 210mm          | 85mm           |

| Product Code | Product Name                               | Overall length | Working length |
|--------------|--------------------------------------------|----------------|----------------|
| 17-016-01    | Standard Straight w/o Catches              | 210mm          | 85mm           |
| 17-016-02    | Standard 5 degree Angled Up w/o Catches    |                |                |
| 17-016-03    | Standard 10 degree Angled Up w/o Catches   |                |                |
| 17-016-04    | Standard 15 degree Angled Down w/o Catches |                |                |
| 17-016-05    | Standard 30 degree Angled Up w/o Catches   | 210mm          | 85mm           |
| 17-016-06    | Standard 45 degree Angled Up w/o Catches   |                |                |
| 17-016-07    | Standard Right w/o Catches                 |                |                |
| 17-016-08    | Standard Left w/o Catches                  | 220mm          | 85mm           |
| 17-016-09    | Standard Far Right w/o Catches             |                |                |
| 17-016-10    | Standard Far Left w/o Catches              |                |                |
| 17-016-11    | Mini Straight w/o Catches                  |                |                |
| 17-016-12    | Mini 10 degree Angled Up w/o Catches       | 210mm          | 85mm           |
| 17-016-13    | Mini 15 degree Angled Up w/o Catches       |                |                |
| 17-016-14    | Mini 15 degree Angled Down w/o Catches     |                |                |
| 17-016-15    | Mini 30 degree Angled Up w/o Catches       |                |                |
| 17-016-16    | Mini Right w/o Catches                     | 220mm          | 85mm           |
| 17-016-17    | Mini Left w/o Catches                      |                |                |
| 17-016-18    | Mini Far Right w/o Catches                 |                |                |
| 17-016-19    | Mini Far Left w/o Catches                  |                |                |
| 17-016-20    | Long Straight w/o Catches                  | 210mm          | 85mm           |

Surgeon must confirm proper placement of clip in appropriate Fukushima Keyhole T2 Clip Applicator.