Please read these instructions carefully before use.

Keep this instruction leaflet for future reference when necessary.

PREPARED: (2021-05-20) (Version 4)

Instructions for Use

Trade Name: Sugita Titanium Clip Applier (w/o Catches)

Warning

- Use with Sugita TII Clips only.

 Use with any other style clip may damage the aneurysm clip.
- 2. When removing the proximal section of the spring handle for cleaning, handle it carefully so that its shape is not altered. If its shape is altered from the original, the clip applier may no longer release clips properly due to a decreased opening of jaws.
- 3. When the device is used on a patient where there is a suspicion of Creutzfeldt-Jakob disease (CJD), make sure to follow to the most recent and updated restrictions available in each country and/or region for its reuse. [Be cautious of the possibility of secondary infection.]
- 4. Make sure to read and understand the instructions before use, and pay particular attention to the patient's safety in order to prevent a severe and adverse incident.

Contraindication / Prohibition

- Do not modify or reshape the spring handle.
 Appropriate width of the opening for holding clip may be affected by breaking and/or transforming the spring handle. This may come to interfere with the performance of the applier, and eventually the
- 2. Do not use the device for anything other than its intended purpose.

 Use of the device outside its intended purpose may cause damage.

clips may not easily release from the forceps.

- 3. Do not use with devices by other manufacturers.
 Do not use with devices other than specified by Mizuho. The design and the development of unauthorized devices may differ from those of the manufacturer and it is likely they will not be suited for the procedure.
- Do not use with chemical substances.
 Avoid exposing the device to chemicals to avoid corrosion damage.
- Handle with care.
 Do not handle the device in a rough manner that may deform or scratch the device. It may significantly alter the life of the device.
- 6. Do not use scouring powder or steel wool.
 Do not scrub the surface with coarse powder or steel wool when cleaning. It may result in damage to the device surface, which may result in rust and corrosion.
- 7. Do not use alkaline / acid and/or household detergents. Ensure the use of "medical" detergent only. Do not use household detergent/cleaners. The detergent should be neutral, pH 6~8. Do not use alkaline or acid detergent, or it may cause discoloration and/or corrosion.
- 8. Do not use low-temperature hydrogen peroxide gas plasma sterilization. The devise is not designed for such sterilization methods and may cause discoloration on the surface and compromise its utility.

Shape / Structure



Appliers for Standard type: Green



Appliers for Mini type: Pink



Appliers for Long type: Blue

Code No	Product Description
17-016-01	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard Straight w/o Catches
17-016-02	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard 5 degree Angled Up w/o Catches
17-016-03	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard 10 degree Angled Up w/o Catches
17-016-04	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard 15 degree Angled Up w/o Catches
17-016-05	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard 15 degree Angled Down w/o Catches
17-016-06	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard 30 degree Angled Up w/o Catches
17-016-07	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard 45 degree Angled Up w/o Catches
17-016-08	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard Right w/o Catches
17-016-09	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard Left w/o Catches
17-016-10	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard Far Right w/o Catches
17-016-11	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Standard Far Left w/o Catches
17-016-21	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini Straight w/o Catches
17-016-23	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini 10 degree Angled Up w/o Catches
17-016-24	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini 15 degree Angled Up w/o Catches
17-016-25	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini 15 degree Angled Down w/o Catches
17-016-26	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini 30 degree Angled Up w/o Catches
17-016-27	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini 45 degree Angled Up w/o Catches
17-016-28	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini 45 degree Angled Down w/o Catches
17-016-29	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini Right w/o Catches
17-016-30	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini Left w/o Catches
17-016-31	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Long Straight w/o Catches
17-016-32	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini Far Right w/o Catches
17-016-33	Fukushima Keyhole Clip Applier for Sugita Titanium Clip II Mini Far Left w/o Catches

Material: Titanium alloy

TII stands for Titanium II Aneurysm Clip

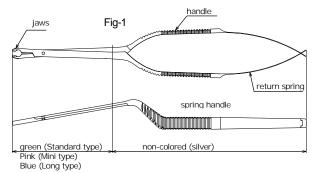
Intended Purpose / Potency or Effect

This device is to be used to place cerebral aneurysm clips in surgeries.

- Instrument is exclusively designed for Sugita Titanium II Aneurysm Clips.
- Three types of Appliers are available for each of Standard, Mini, and Long clips.

Appliers are color-coded on the applicable clips as follows, (Fig-1)

- Appliers for Standard type: Distal part of forceps colored Green.
- Appliers for Mini type: Distal part of forceps: colored Pink.
- Appliers for Long type: Distal part of forceps: colored Blue.
- Applicable clip types are imprinted on the return spring of the Appliers for verification before use.



Directions for Use

Make sure to wash and sterilize before each use. Refer to Maintenance / Inspection.

1. Directions for use:

- (1) Squeeze the Applier handles and set a clip between the Applier jaws by placing the clip correctly within the holding recesses of the jaws.
- (2) Gradually depress the Applier handles and then the clip will be held firmly between the jaws. Make sure the clip is placed and held correctly in the holding recesses of the jaws.
- (3) Further squeezing of the Applier handles with the clip in the jaws will open the clip blade to the maximum width. At this point, gradual loosening of the handles will open the jaws and release the clip while closing the clip blades.

2. Caution:

- (1) To set a clip in the Applier jaws, make sure that the clip is correctly placed in the recesses of the jaws.
- (2) Failure to hold the spring of the clip correctly in the recesses of the jaws may cause the clip to slip off or release. Or, the spring section of the clip may be damaged with a risk of fracture.
- (3) Wash the Applier and remove adhered debris after each use. Make sure NOT to leave any deposits in the Applier's joint.
- (4) Sugita Titanium II Clip Appliers are exclusively designed and constructed for use with Sugita Titanium II Aneurysm Clips only. They must NOT be used with clips from other manufacturers or for conventional cobalt alloy clips.
- (5) The Appliers are developed for "keyhole" operations. When applying the clip to aneurysms, the operator shall take full responsibility to confirm that the clip is firmly held in the Applier, and then apply it to the aneurysm.
- (6) This applier does not have catches. Carefully handle to secure a clip in the jaw.

Caution

1. Warning:

Device has to be sterilized by users, using validated sterilization processes regulated by medical organizations in each country or region. Do not use low-temperature hydrogen peroxide gas plasma sterilization.

2. Harmful/Undesirable matter:

- The use of chemicals

Do not expose the device to chemicals, or damage due to corrosion may result.

Storage and Shelf Life

Do not store the device where the temperature or humidity becomes higher or drastically changes.

Maintenance / Inspection

- 1. Working / functioning check:
- Make sure to inspect the device periodically as well as prior to use to ensure proper functioning.
- Make sure to wash in manual soaking device, when device is handled.Device shall be placed and fixed in holders to avoid breakage when ultrasonic cleansing method is used.
- 3. Immediate washing and rinsing with clear water:
 - Remove any debris from the device. Wash and rinse with clear water immediately in case the device is exposed to bleach or antiseptic solution which may contain chlorine or iodine.
- 4. Immediate drying after washing:
 - Make sure to dry the device immediately after washing. Do not leave the device wet for prolonged periods of time.
- Use distilled water and de-mineralized water.Distilled water and de-mineralized water should be used for cleaning and sterilization. The residual chlorine and organic matter contained
- in tap water may cause bristletail and rust generation.

 6. Use aqueous lubricant to prevent rust
- Be cautious not to move the sliding portion of the device after washing since the lubricant may be completely removed by washing. It may cause scuffing on the sliding part. After the washing process, use aqueous lubricant before the sterilization process.
- 7. Do not modify or reshape the return spring.
 - Breakage or modification on the part of return spring may cause a disturbance in the release of the clip due to less opening of the jaws.
- 8. Sterilization

The device is non-sterile.

Device must be sterilized by users, using an autoclave method or validated sterilization process regulated by medical organizations in each country or region.

The recommended sterilization parameters are as follows,

• Sterilization of the device may be accomplished by steam.

ISO17665-2		
Temp.	Minimum exposure time	
121°C	15 Min	
126°C	10 Min	
134°C	3 Min	

 Do not use low-temperature hydrogen peroxide gas plasma sterilization. It may cause discoloration on the surface and affect its property.

Packing

1 piece per pack

Matters related to warranty period

MIZUHO Corporation will repair defective parts of this product without charge for one year from the date of delivery/installment except for cases of damage caused by a third party's repair, act of nature, improper use or damage on purpose. All other warranty terms and conditions are subject to regulations of MIZUHO Corporation.

Name and address of manufacturer



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