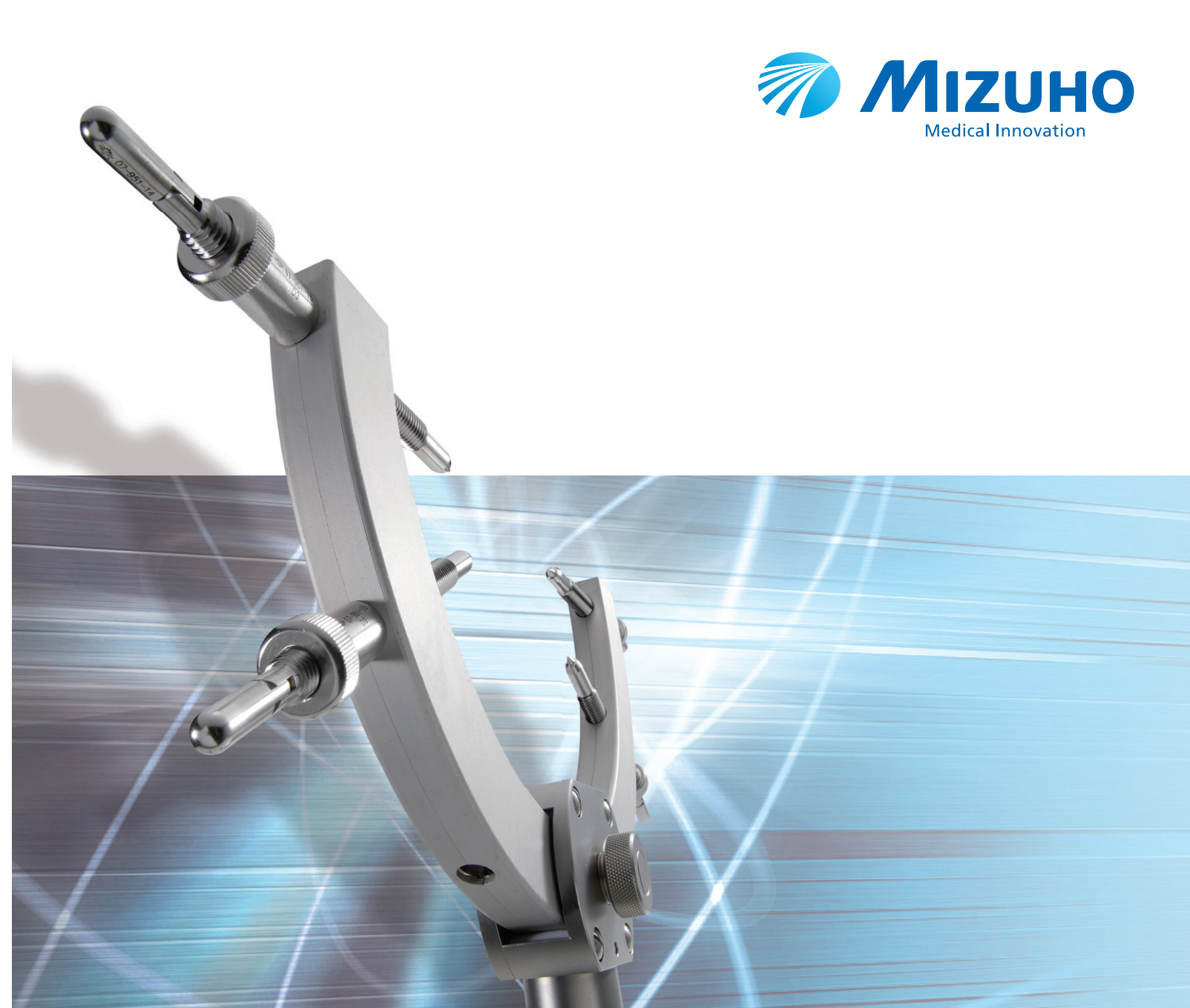


SMART FIX

HEAD FRAME&HOLDER



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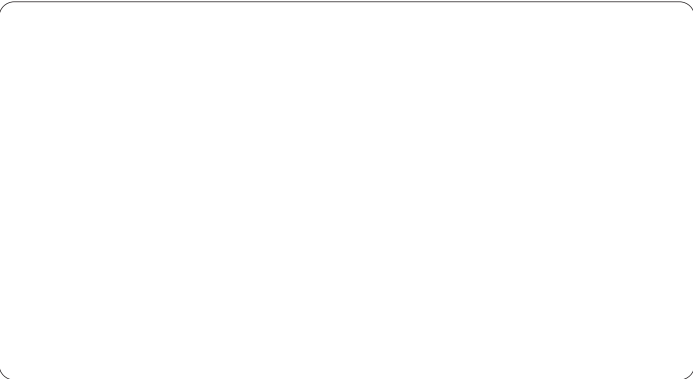
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<https://www.mizuho.co.jp>

* 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.
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Caution

- Do not use the product until you have carefully read the instruction manual and instructions for use and correctly understood their contents.
- Periodic inspections are suggested before and after procedures.
- For questions or concerns about after-the-sale service, please inquire directly to technical service representative from your local dealer/distributor.



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Ratchet Slider

Adoption of a ratchet slider on all 6 pin holes. There is no need to rotate the pin countless times, simply push the pin in with a quick sliding motion. Positioned at the back of each pin is a locking mechanism, this allows the final pin fixation to be done safely by rotating pins with one's finger.



Stopper Sleeve

After penetrating the cranium with the pins, fixate in order to prevent slippage/movement.



Box Joint

Change in the shape of the fixation screw on the center of the box joint. This increases the fixing force of the head frame. Additionally, added new rollers to allow the smooth sliding motion of the overall frame.



Table attachment and Basal Frame

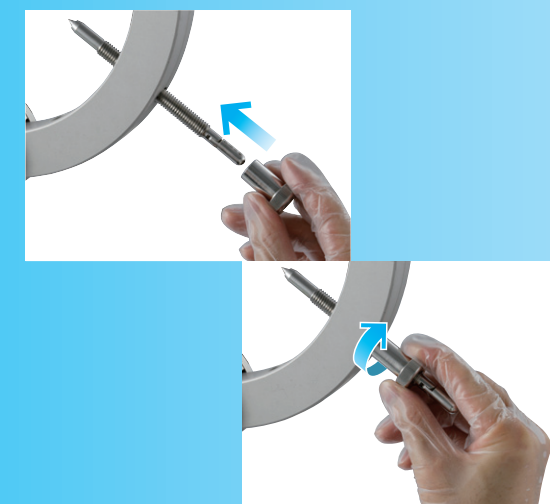
The table attachment and basal frame from the original version of the Sugita Multi-Purpose Head Frame System are interchangeable and can be used in conjunction with the upgraded Smart Fix Head Holder System.



Method / Technical of mounting the pin



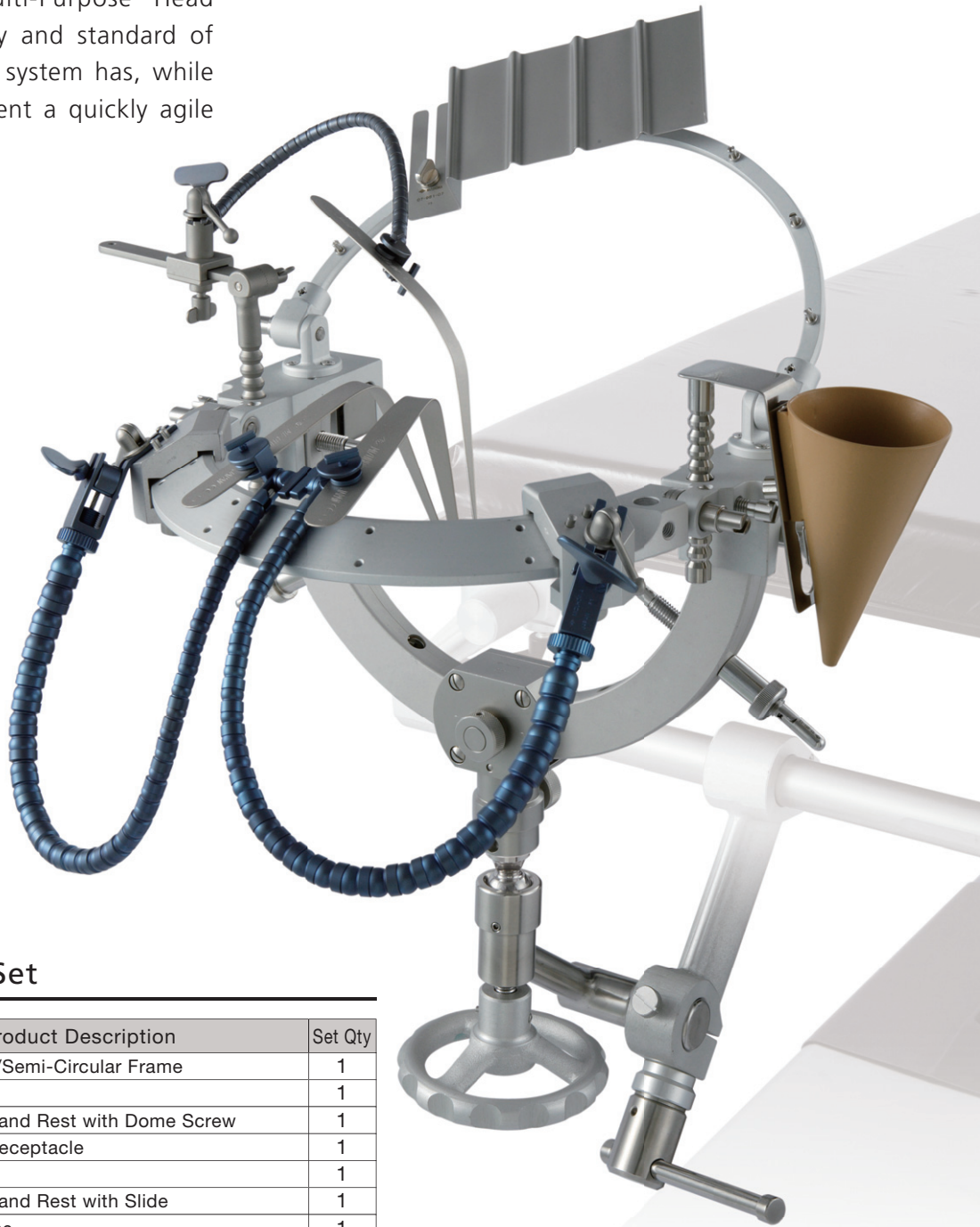
Insert the pin through the smart fix ratchet holes. Due to the mechanism of the ratchet slider, simply press the pin forward to smoothly position the pin in place. Upon the pin reaching the patient's skull, manually rotate the pin for final fixation. Always rotate two pins at the same time for fixation. By rotating two opposed pins at a time, minute adjustments can be implemented.



After the skull has been fixated, please fix the stopper sleeve so there is no risk that the pin will slip or move.

Multi-Purpose Head Frame

The adoption of a new Ratchet Slider mechanism. This allows the Sugita Multi-Purpose Head Holder to retain the reliability and standard of performance that the current system has, while making it possible to implement a quickly agile skull fixation.



Smart Fix Head Frame Set

P. No.	Product Description	Set Qty
0 7 - 9 8 1 - 0 2	Ⓐ Basal Frame/Semi-Circular Frame	1
0 7 - 9 8 1 - 0 3	Ⓑ Hand Rest	1
0 7 - 9 8 1 - 0 4	Ⓒ Adjustable Hand Rest with Dome Screw	1
0 7 - 9 8 1 - 0 6	Ⓔ Instrument Receptacle	1
0 7 - 9 8 1 - 0 7	Ⓕ Cotton Plate	1
0 7 - 9 8 1 - 0 9	Ⓖ Adjustable Hand Rest with Slide	1
0 7 - 9 8 1 - 1 0	Ⓒ Quarter Frame	1
0 7 - 9 5 4 - 0 0 M M	Ⓗ Spring Scalp Hook Retractors, SUS	6
0 7 - 9 5 5 - 0 1	Ⓘ Slide Adjustor For Retractor	2
0 7 - 9 5 1 - 1 1	Ⓙ Smart Fix C Holder	1
0 7 - 9 5 1 - 1 2	Ⓚ Smart Fix Joint Box (Including 2 Fixing Screws)	1
0 7 - 9 5 1 - 1 5	Ⓛ Smart Fix Stopper Sleeve	4
0 7 - 9 5 1 - 3 3	Ⓝ Smart Fix Head Pin Standard	4
0 7 - 9 5 1 - 3 4	Ⓜ Smart Fix Head Pin Long	4
0 7 - 9 5 2 - 0 0	Ⓢ Table Attachment	1

Table attachment Option

P. No.	Product Description
0 7 - 9 5 2 - 0 5	Table Attachment for 2080
0 7 - 9 5 2 - 0 6 A	Table Attachment for 3080, Outside
0 8 - 0 7 5 - 1 0	Mayfield Adaptor
0 8 - 0 7 5 - 1 1	Attachment For Mayfield Head Support

*Image for illustration purpose only

Smart Fix Head Frame Set

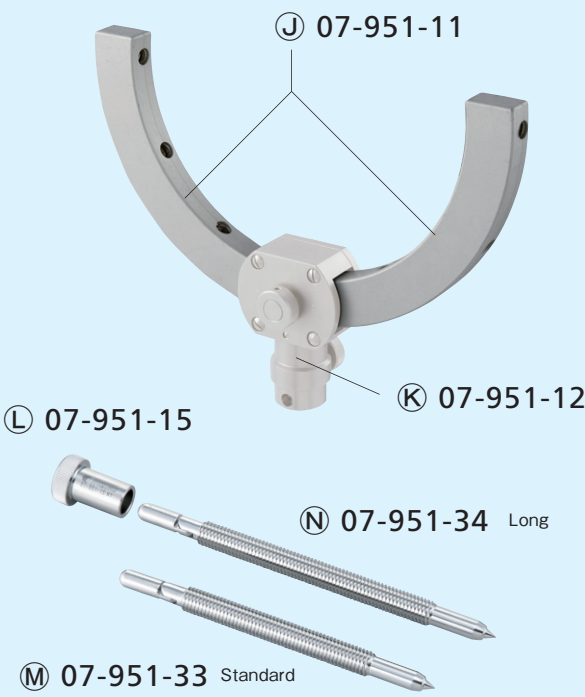
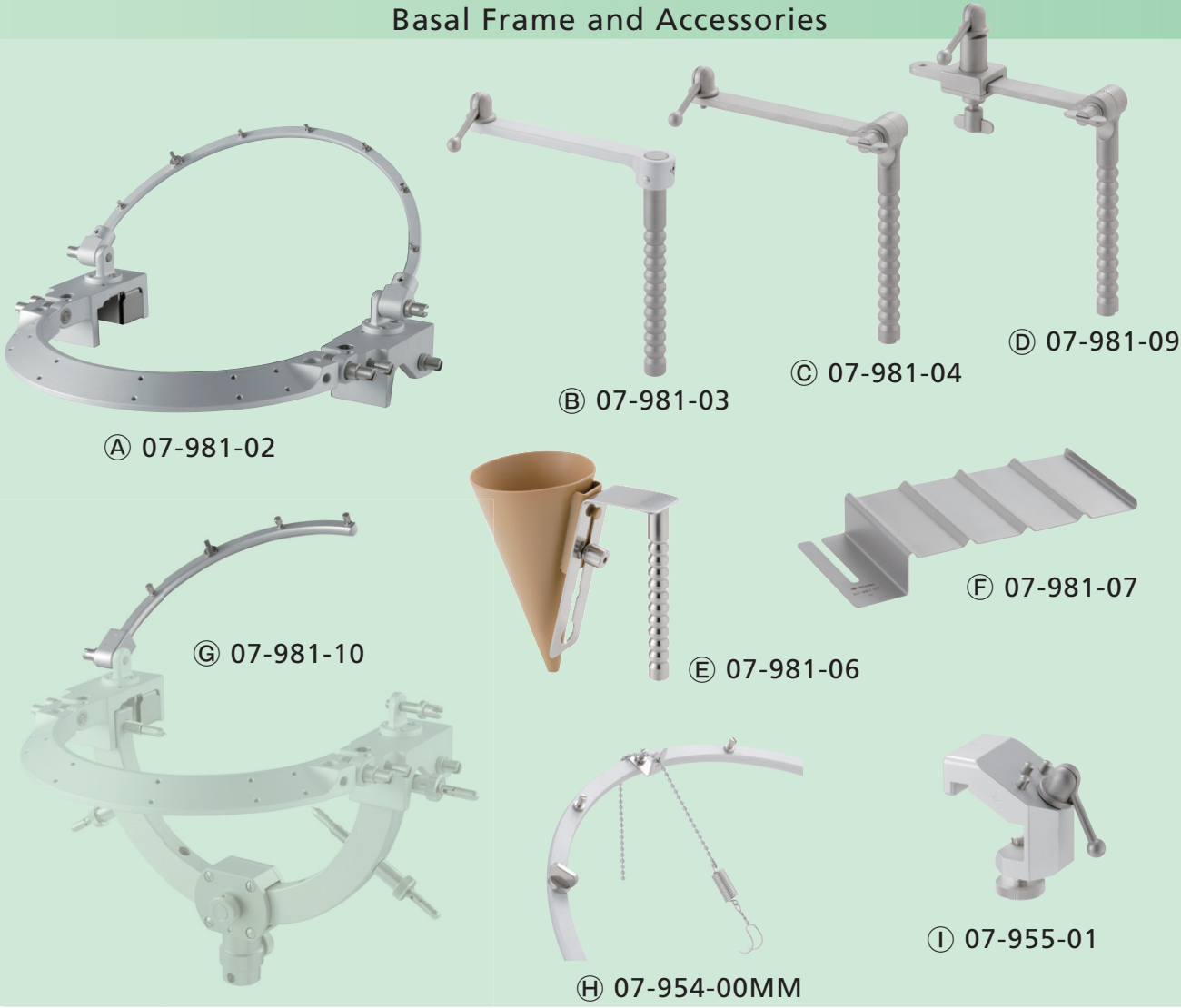


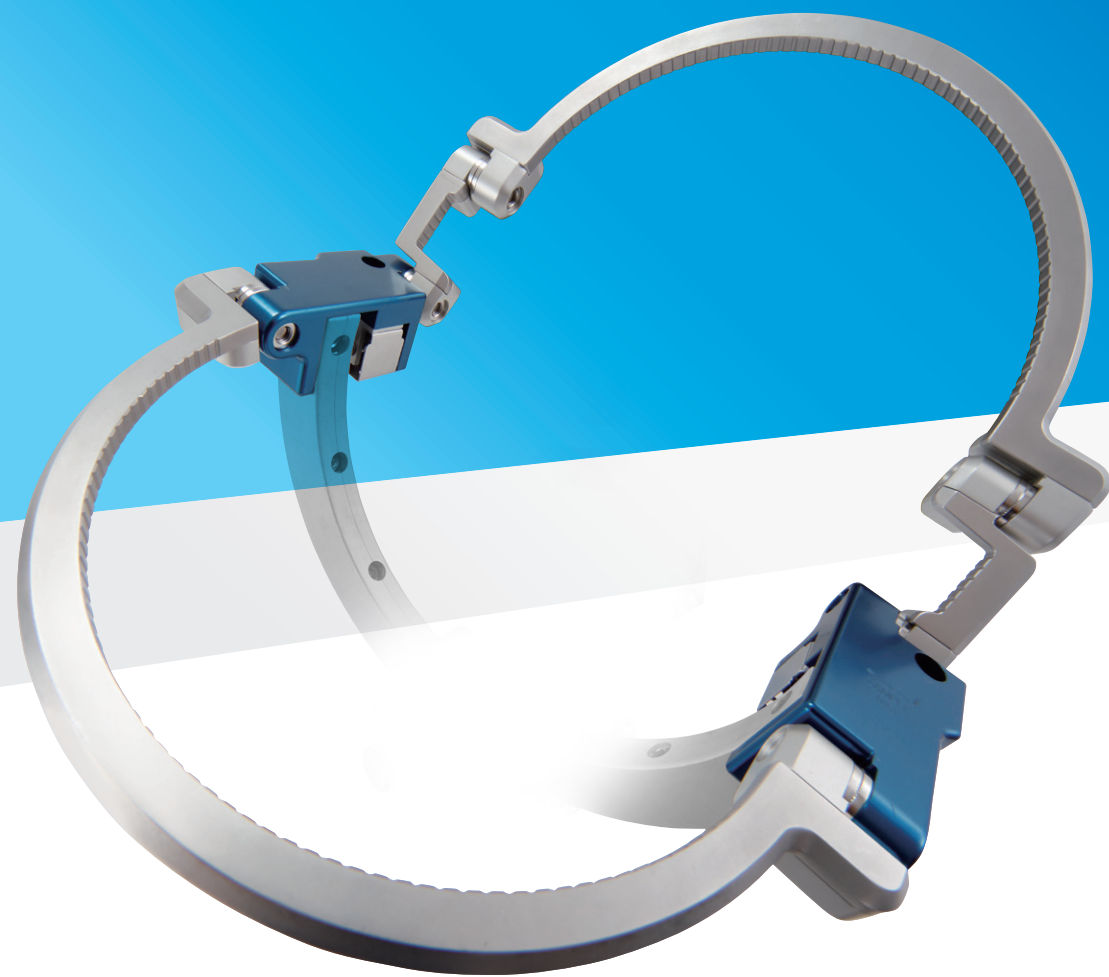
Table Attachment



Basal Frame and Accessories

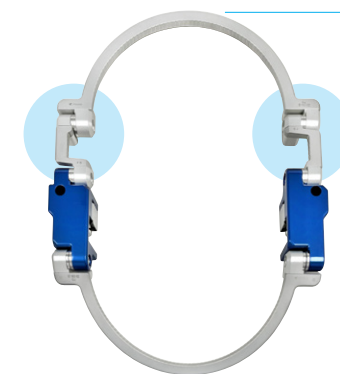
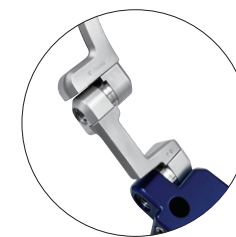


Multi-purpose Head Frame II

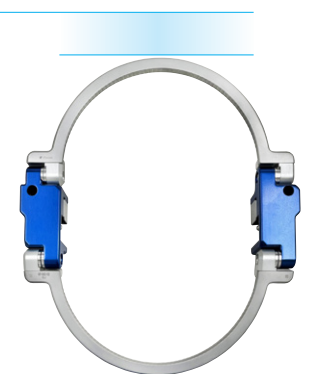


Extension Arm

Greater flexibility and variability in frame positioning.
Fully detachable extension arms.



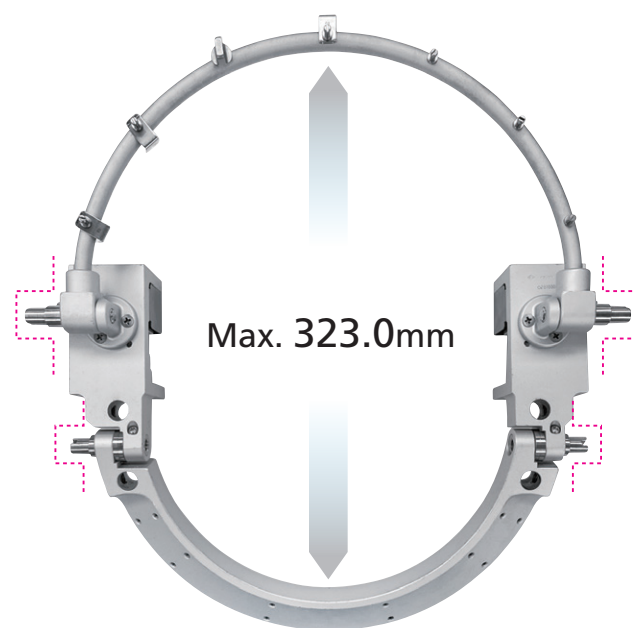
With Extension Arm



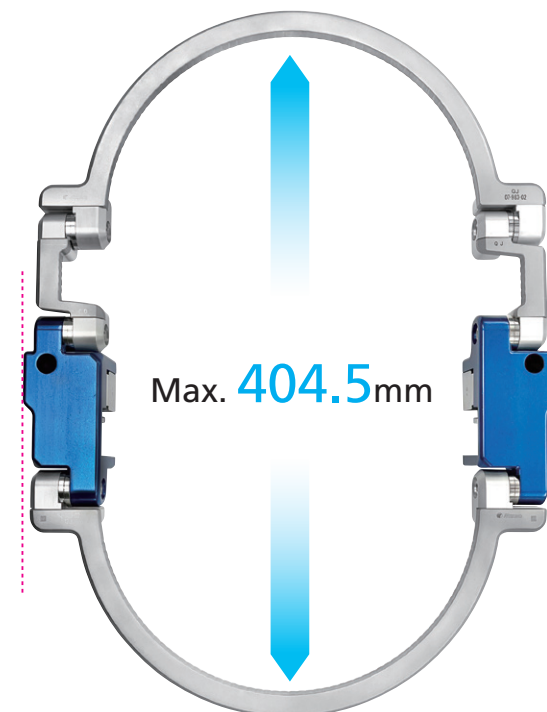
Without Extension Arm

Simplified Design

Larger diameter than the previous model.
Fewer frame protrusions to reduce interference with tubes and codes and enhance the user experience.



07-981-02
Basal Frame / Semi-Circular Frame



07-983-02
Frame Unit

Fully Compatible with Accessories

Basal Frame and Sub Frame designed to accept accessories on both sides.



Basal Frame



Sub Frame

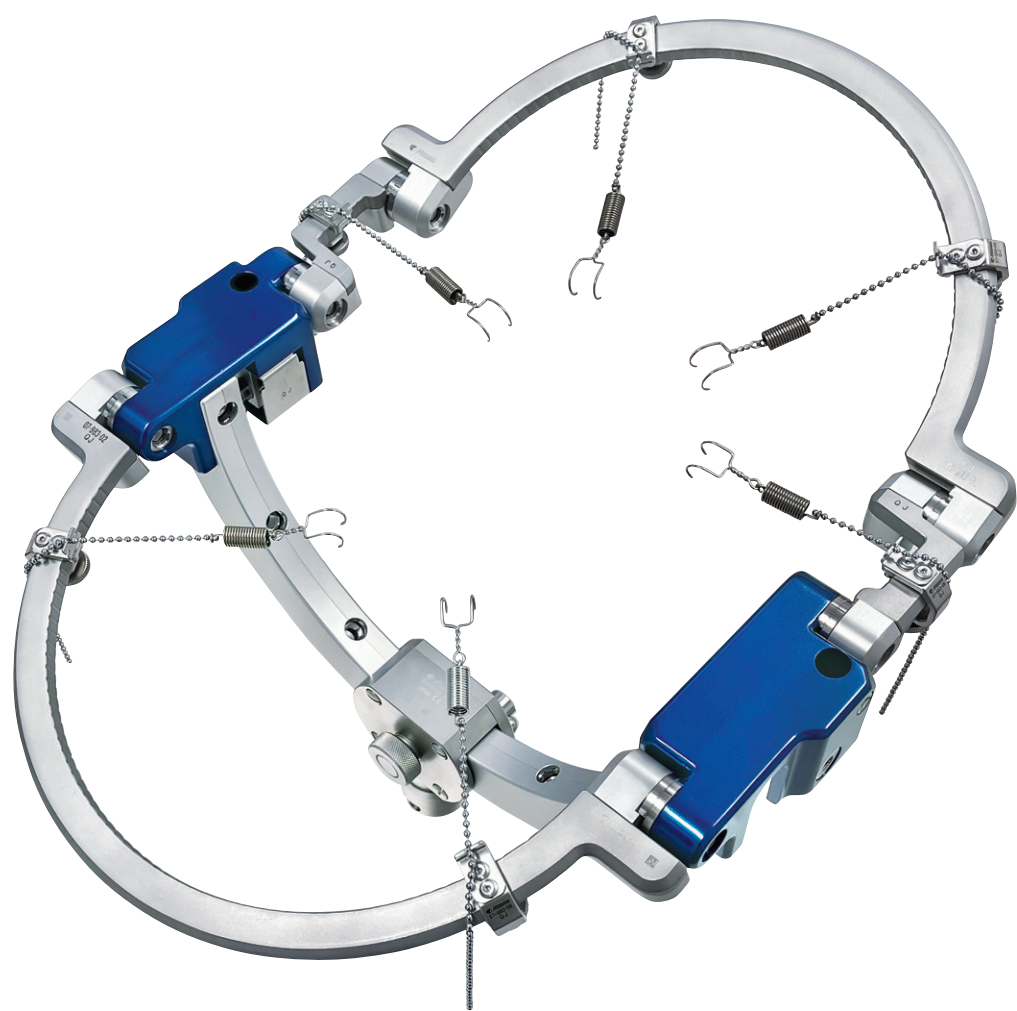


Extension Arm



*Image for illustration purpose only

Multi-Purpose Head Frame II

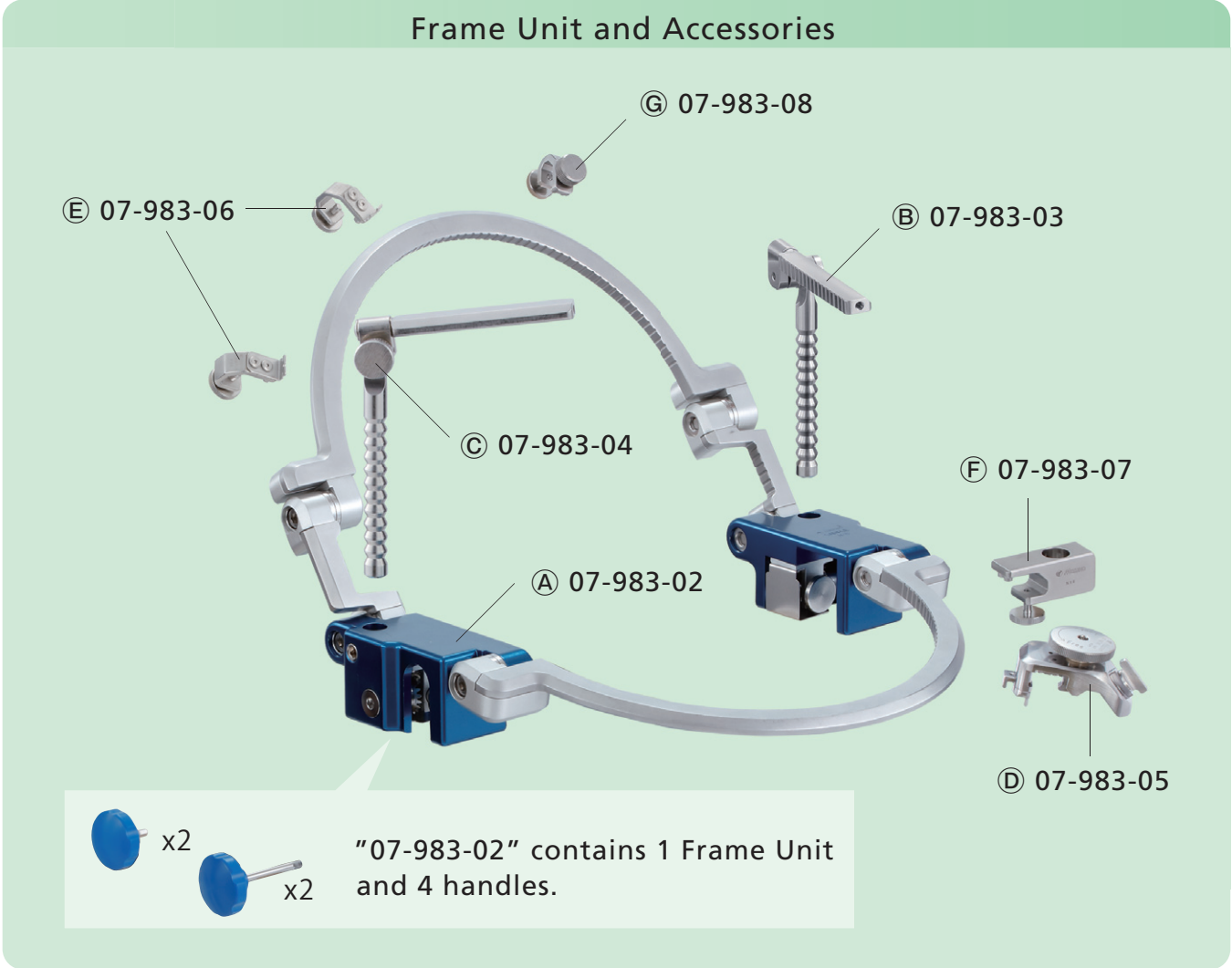


Frame Unit and Accessories

P. No.	Product Description
07-983-02	Ⓐ Frame Unit
07-983-03	Ⓑ Hand Rest R
07-983-04	Ⓒ Hand Rest L
07-983-05	Ⓓ Retractor Slide Adjustor
07-983-06	Ⓔ Spring Hook Adjustor
07-983-07	Ⓕ Sub Hole Attachment
07-983-08	Ⓖ Cotton Plate Adjustor

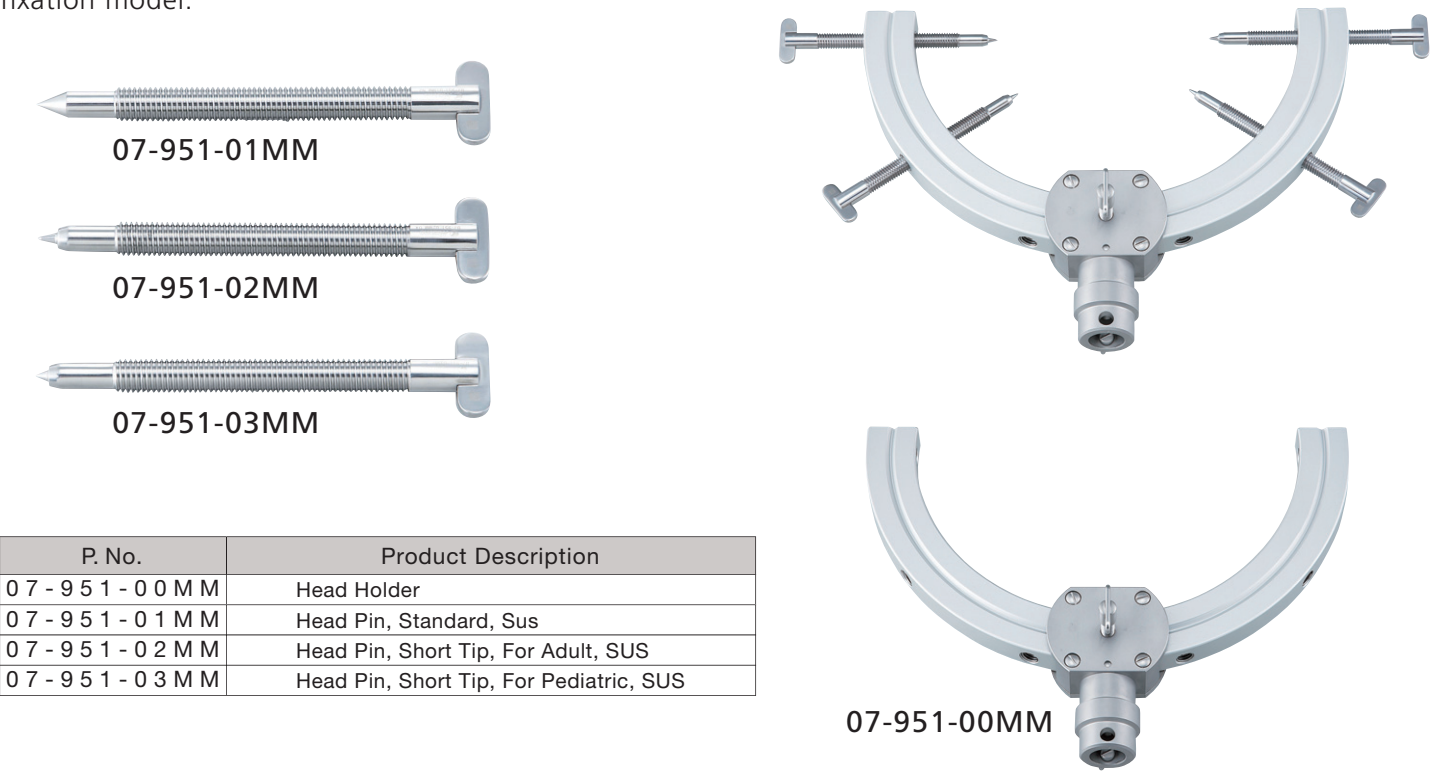
Compatible Accessories

P. No.	Product Description
07-954-00MM	Ⓗ Spring Scalp Hook Retractors, SUS
07-981-03	Ⓘ Hand Rest
07-981-04	Ⓙ Adjustable Hand Rest wit Dome Screw
07-981-06	Ⓚ Instrument Receptacle
07-981-07	Ⓛ Cotton Plate
07-981-09	Ⓜ Adjustable Hand Rest with Slide



Head Holder (Original model)

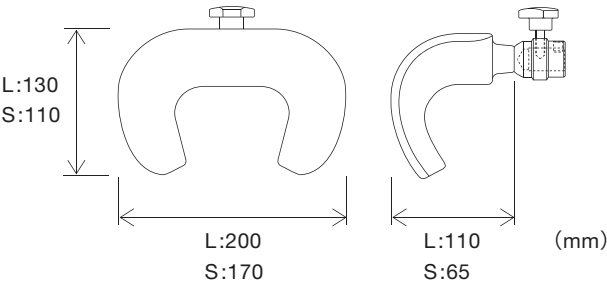
Simple and Cost effective 4 pins fixation model.



Horseshoe Head Rest

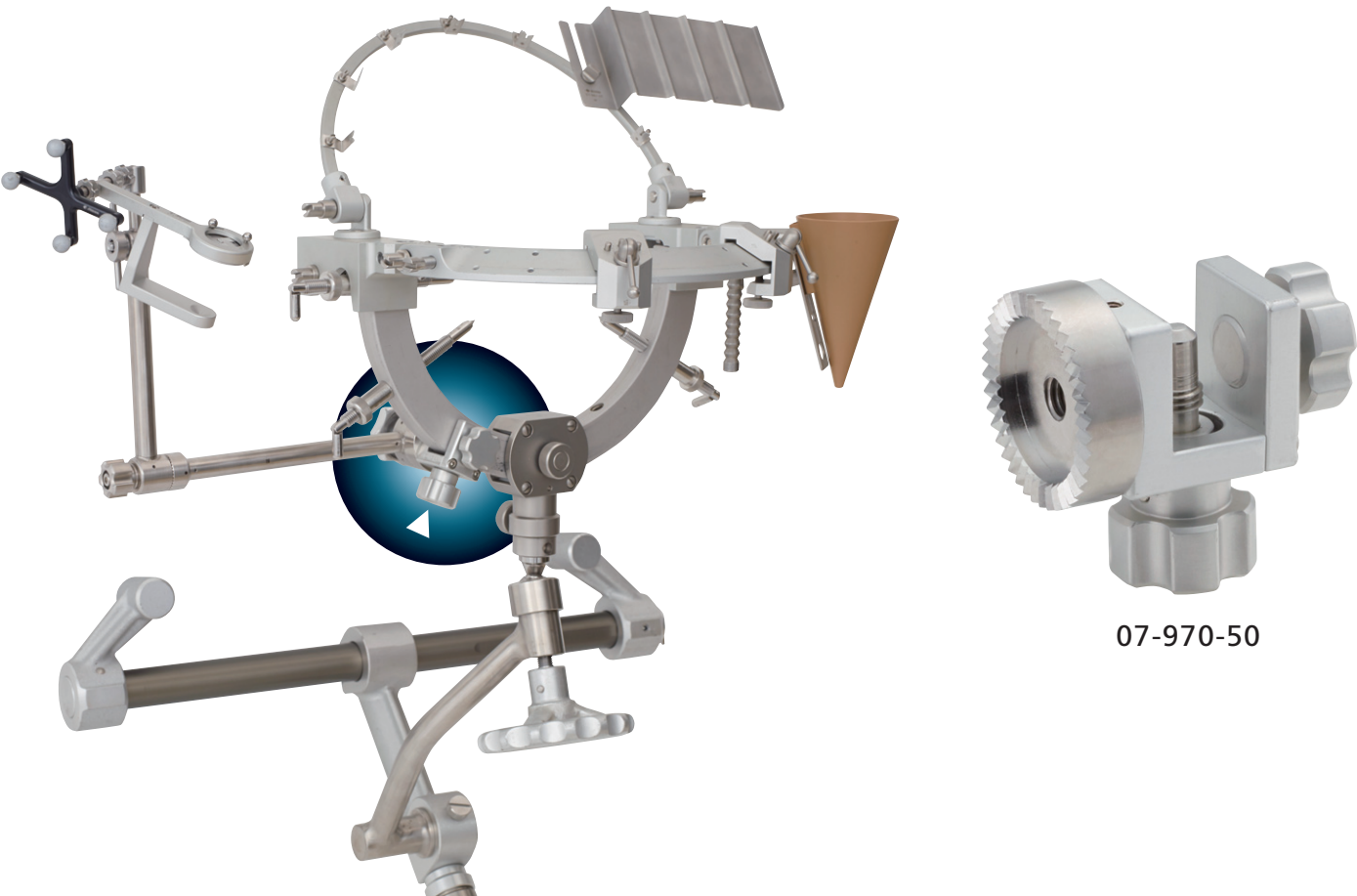
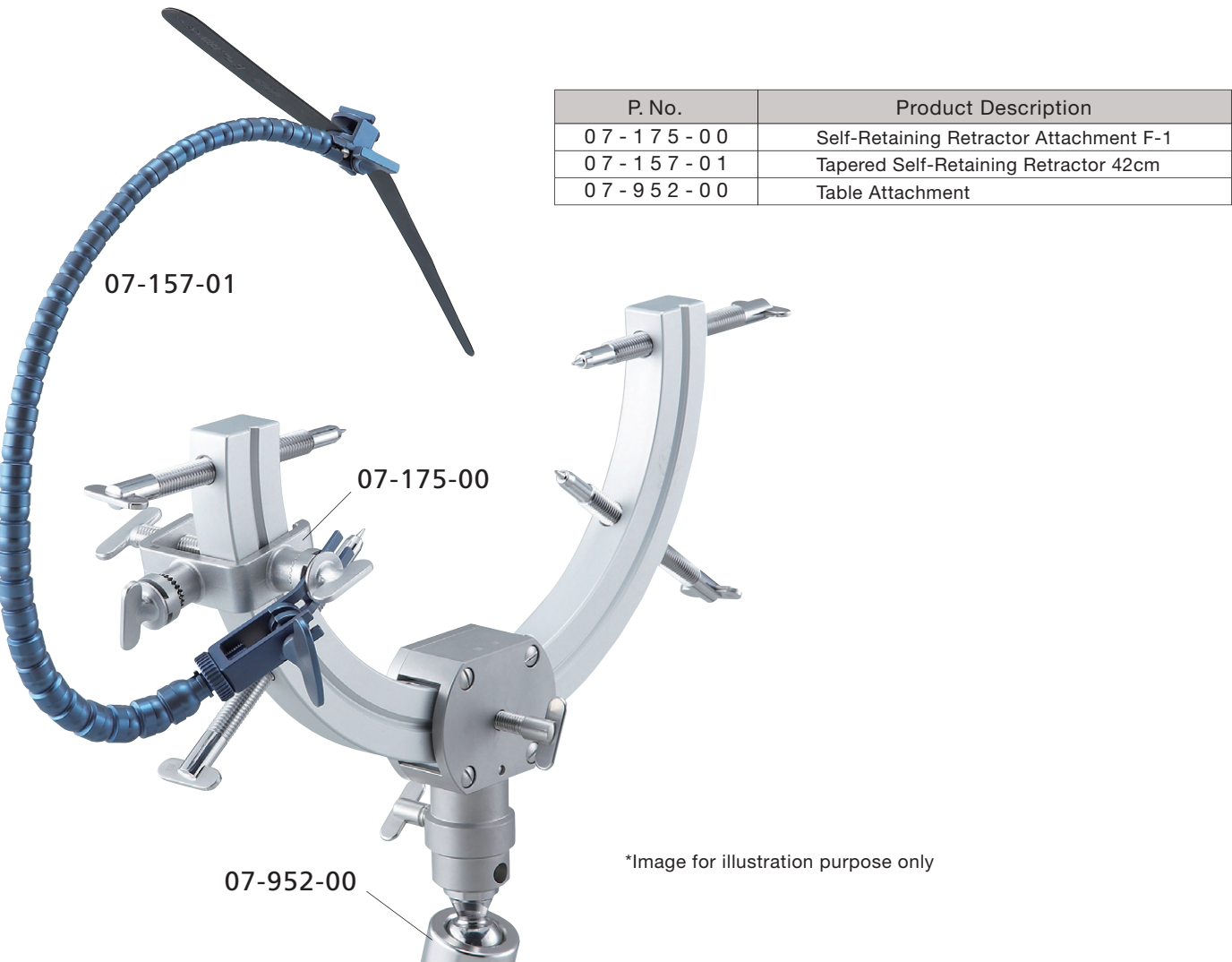


P. No.	Product Description
0 8 - 0 7 3 - 0 3	U-Shaped Head Rest L
0 8 - 0 7 3 - 0 4	U-Shaped Head Rest S



Navigation Adaptor

P. No.	Product Description
0 7 - 9 7 0 - 5 0	NV Adaptor, Stainless



Basal Frame

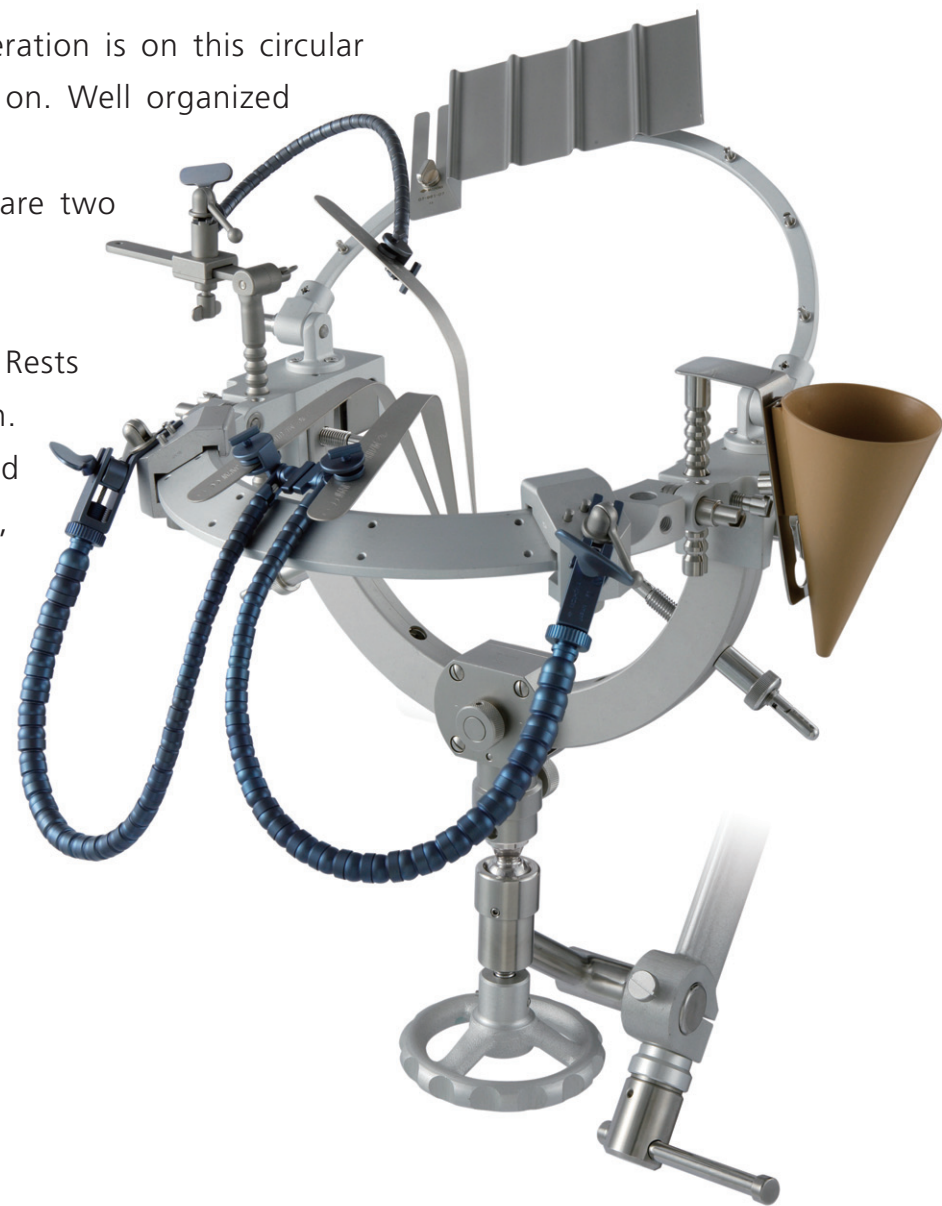
Everything surgeon needs for operation is on this circular frame. All accessories can attach on. Well organized frame to support operation.

At each end of the Basal Frame are two holes to support the Hand Rest and Instrument Receptacle.

The angle and height of the Hand Rests are adjustable to suit each surgeon.

Instrument Receptacle is insulated and used to retain Bipolar Forceps, Suction Tubes, and other microsurgery instruments.

The sub frame and semi-circular is used to attach Scalp Hooks, Cotton plate and self-retaining retractor.



P. No.	Product Description
0 7 - 9 8 1 - 0 2	Basal Frame/Semi-Circular Frame
0 7 - 9 8 1 - 0 3	Hand Rest
0 7 - 9 8 1 - 0 4	Adjustable Hand Rest with Dome Screw
0 7 - 9 8 1 - 0 6	Instrument Receptacle
0 7 - 9 8 1 - 0 7	Cotton Plate
0 7 - 9 8 1 - 0 9	Adjustable Hand Rest with Slide
0 7 - 9 8 1 - 1 0	Quarter Frame
0 7 - 9 5 4 - 0 0 M M	Spring Scalp Hook Retractors, SUS
0 7 - 9 5 5 - 0 1	Slide Adjustor For Retractor

All accessories can attach on.

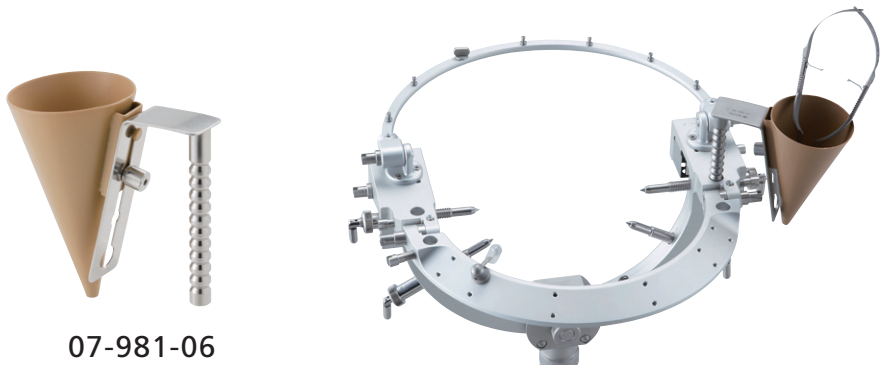
*Image for illustration purpose only

Arm Rest Example Usage

A key accessory for microscopic operation.
Arm rest secures free space to operate by setting it up above spatula and self-retaining retractors.

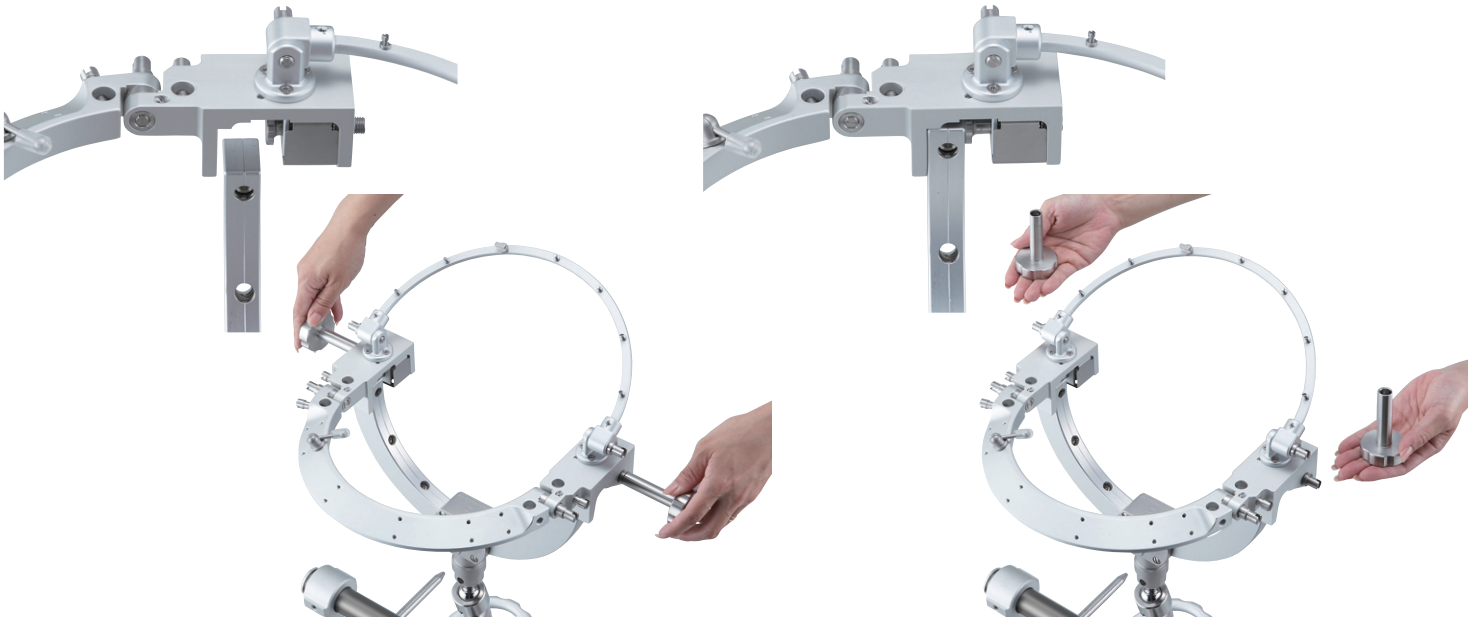


Instrument Receptacle Example usage



Very easy to assemble

Assembly work complete just to put basal frame on head holder and tighten screws by two handles (P07-980-04).



Safety, security, stability

Mizuho’s self-retaining snake retractors provide exceptional stability and control throughout the entire neurosurgical procedure. Once adjusted and locked down, the arm maximizes balance and holding power, effectively preventing “drift and drop” that cause spatulas to shift and threaten vulnerable neural and vascular structures



Two convenient, compatible designs

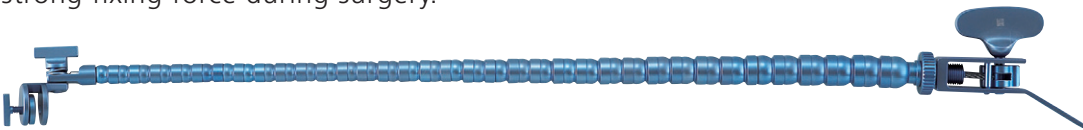
Retractors are available in both tapered and non-tapered designs. Both are fully compatible with Mizuho’s F-1 (C-clamp) attachment, which affixes directly to any standard headframe in just a few seconds. This timesaving feature is especially beneficial during urgent trauma cases. Retractors can also be quickly attached right to the Sugita Basal Frame using the convenient slide adjusters. Currently, Mizuho offers nine models to choose from in lightweight, corrosion-resistant titanium and traditional stainless steel.

Self-retaining retractor advantages

- No-drift design holds spatulas securely in place
- Choice of tapered or non-tapered to match your preference
- Faster setup and breakdown than traditional slide-rail systems

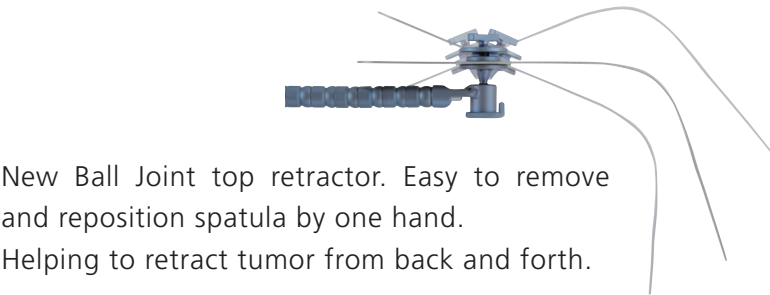
Tapered Titanium Retractor

Tapered shape body provides maintaining strong fixing force during surgery.



P. No.	Product Description
0 7 - 1 7 4 - 2 4	Retaining Retractor 42cm Without Clamp
0 7 - 1 7 4 - 2 5	Retaining Retractor 37cm Without Clamp

Hadeishi Titanium Retractor



New Ball Joint top retractor. Easy to remove and reposition spatula by one hand. Helping to retract tumor from back and forth.

P. No.	Product Description
0 7 - 1 5 7 - 1 1	Tapered Self-Retaining Retractor 5mm 37cm (Hadeishi Version)
0 7 - 1 5 7 - 1 2	Tapered Self-Retaining Retractor 6mm 37cm (Hadeishi Version)



*Image for illustration purpose only

Stainless Retractor



P. No.	Product Description
0 7 - 1 7 4 - 2 1	Self-Retaining Retractor Stainless Steel 37cm
0 7 - 1 7 4 - 2 2	Self-Retaining Retractor Stainless Steel 42cm
0 7 - 1 7 4 - 2 3	Self-Retaining Retractor Stainless Steel 24cm
0 7 - 1 7 4 - 2 6	Self-Retaining Retractor Stainless Steel 48cm

F-1 Attachment

Retractors are fully compatible with F-1 (C-clamp) attachment, which affixes directly to any standard head frame in just a few second.

P. No.	Product Description
0 7 - 1 7 5 - 0 0	Self-Retaining Retractor Attachment F-1

