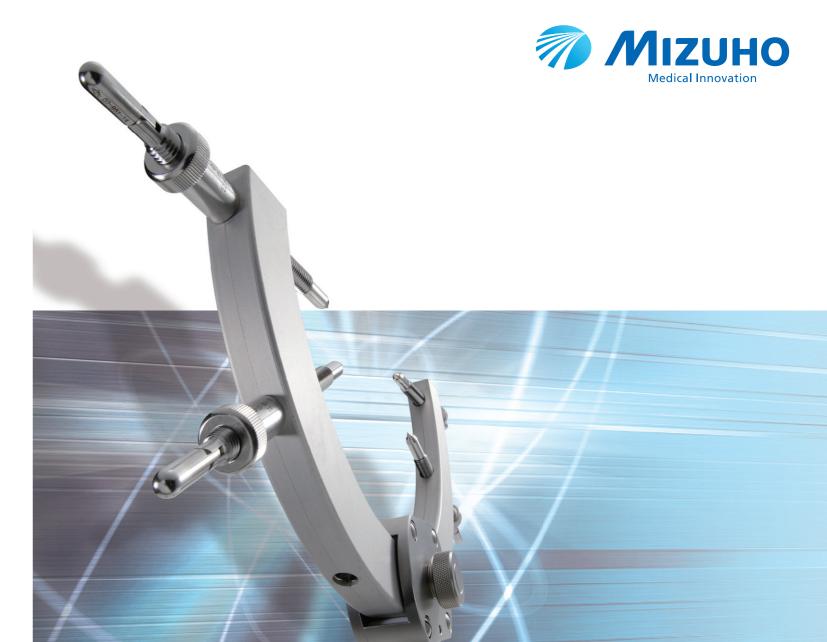


Caution



## Mizuho Medical Co.,Ltd.

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SMART FIX
HEAD FRAME&HOLDER

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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. ©MIZUHO 2022

- •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
- •For questions or concerns about after-the-sale service, please inquire directly to technical service representative from your local dealer/distributor.



# SMART FIX HEAD FRAME&HOLDER

#### **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

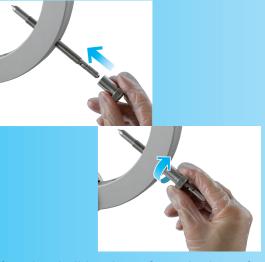
The table attachment and basal frame from the original version of the Sugita Multi-Purpose Head Frame System are interchangeable and can be used in conjunction with the upgraded Smart Fix Head Holder System.



# 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.



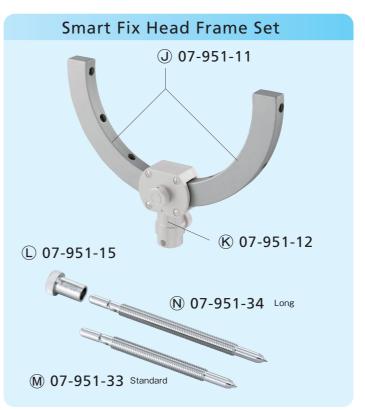
\*Image for illustration purpose only

#### Smart Fix Head Frame Set

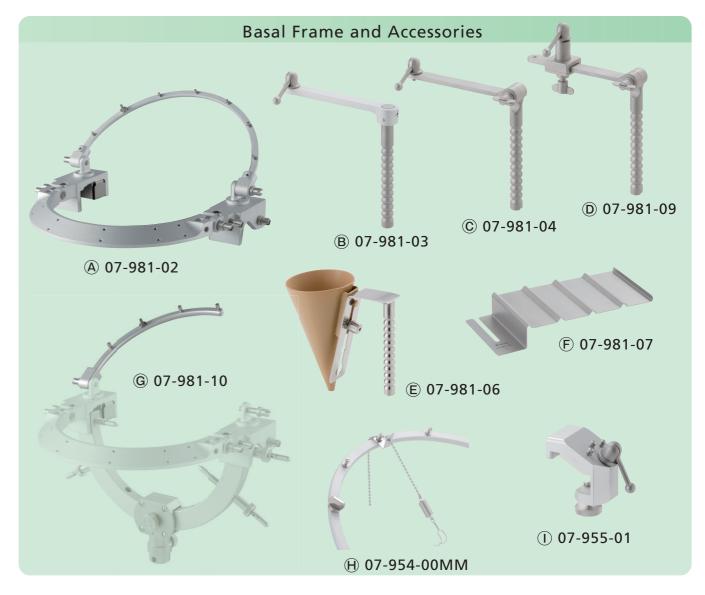
P. No.	Product Description	
07-981-02	Basal Frame/Semi-Circular Frame	1
07-981-03	® Hand Rest	1
07-981-04	© Adjustable Hand Rest with Dome Screw	1
07-981-06	© Instrument Receptacle	1
07-981-07	© Cotton Plate	1
07-981-09	Adjustable Hand Rest with Slide	1
07-981-10	© Quarter Frame	1
07-954-00MM	(H) Spring Scalp Hook Retractors, SUS	
07-955-01	Slide Adjustor For Retractor	
07-951-11	① Smart Fix C Holder	
07-951-12	© Smart Fix Joint Box (Including 2 Fixing Screws)	
07-951-15	© Smart Fix Stopper Sleeve	
07-951-33	M Smart Fix Head Pin Standard	
07-951-34	N Smart Fix Head Pin Long	
07-952-00	Table Attachment	1

#### Table attachment Option

P. No.	Product Description
07-952-05	Table Attachment for 2080
07-952-06A	Table Attachment for 3080, Outside
08-075-10	Mayfield Adaptor
08-075-11	Attachment For Mayfield Head Support









# **Extension Arm**

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







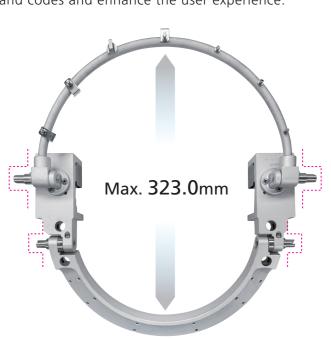
With Extension Arm

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.



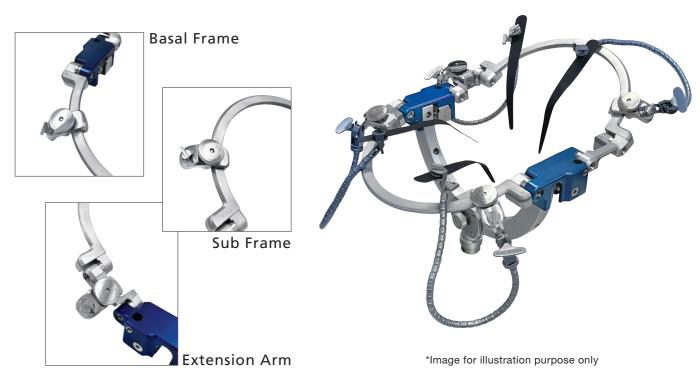
Max. 404.5mm

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

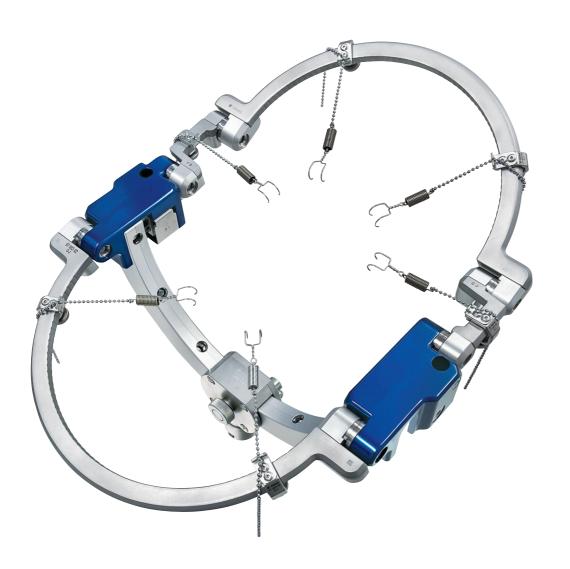
07-983-02 Frame Unit

# **Fully Compatible with Accessories**

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



# Multi-Purpose Head Frame II

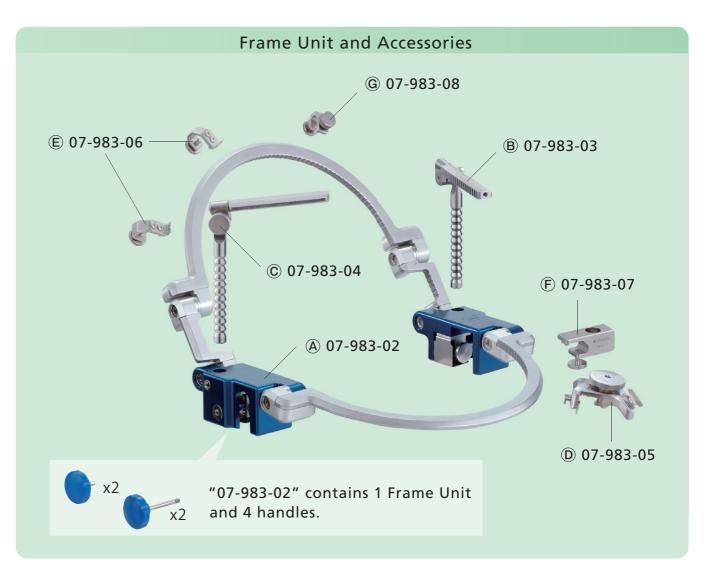


#### Frame Unit and Accessories

P. No.	Product Description	
07-983-02	A Frame Unit	
07-983-03	B 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	(H) Spring Scalp Hook Retractors, SUS
07-981-03	① Hand Rest
07-981-04	<ul> <li>Adjustable Hand Rest wit Dome Screw</li> </ul>
07-981-06	(k) Instrument Receptacle
07-981-07	© Cotton Plate
07-981-09	Adjustable Hand Rest with Slide





# Head Holder (Original model)

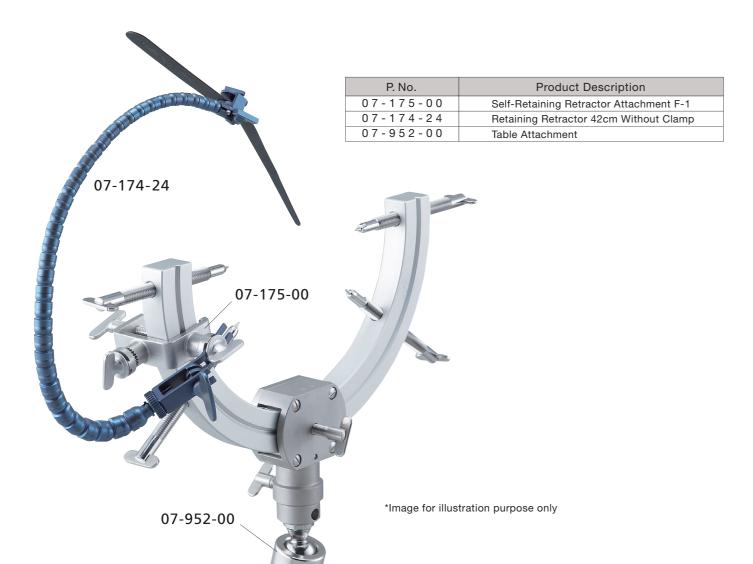
Simple and Cost effective 4 pins fixation model.



P. No.	Product Description	
07-951-00MM	Head Holder	
07-951-01MM	Head Pin, Standard, Sus	
07-951-02MM	Head Pin, Short Tip, For Adult, SUS	
07-951-03 M M	Head Pin, Short Tip, For Pediatric, SUS	



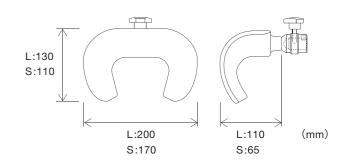




## Horseshoe Head Rest

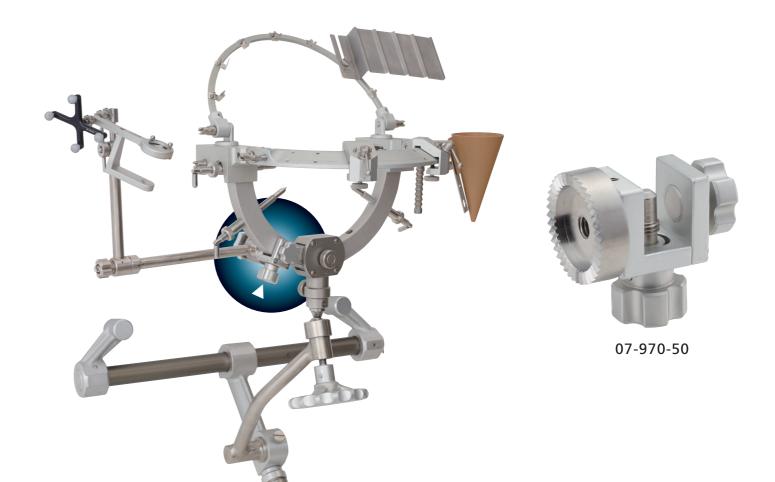


P. No.	Product Description
08-073-03	U-Shaped Head Rest L
08-073-04	U-Shaped Head Rest S



# **Navigation Adaptor**

P. No.	Product Description
07-970-50	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.

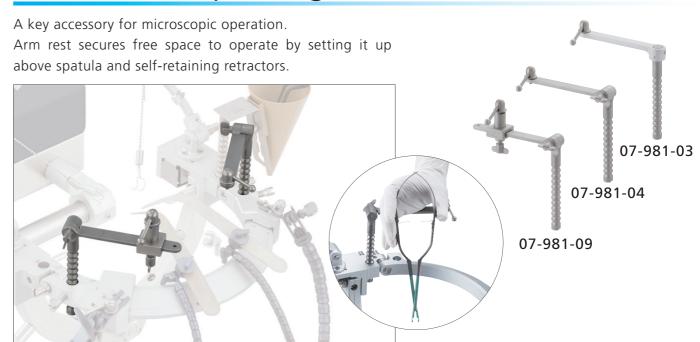


All accessories can attach on.

\*Image for illustration purpose only

P. No.	Product Description	
07-981-02	Basal Frame/Semi-Circular Frame	
07-981-03	Hand Rest	
07-981-04	Adjustable Hand Rest with Dome Screw	
07-981-06	Instrument Receptacle	
07-981-07	Cotton Plate	
07-981-09	Adjustable Hand Rest with Slide	
07-981-10	Quarter Frame	
07-954-00MM	Spring Scalp Hook Retractors, SUS	
07-955-01	Slide Adjustor For Retractor	

## Arm Rest Example Usage



## 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).



# Tapered and Non Tapered Self-Retaining RETRACTORS for Microsurgery

#### 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 adjustors. 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
07-174-24	Retaining Retractor 42cm Without Clamp
07-174-25	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		
07-157-11	Tapered Self-Retaining Retractor 5mm 37cm		
07-137-11	(Hadeishi Version)		
07-157-12	Tapered Self-Retaining Retractor 6mm 37cm		
	(Hadeishi Version)		



### **Stainless Retractor**





### F-1 Attachment

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

•	07-175-00			
		ZAN INNET DEEM &	224440	

P. No.	Product Description
07-175-00	Self-Retaining Retractor Attachment F-1