

SMART FIX HEAD FRAME & HOLDER



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<p>Caution</p>	<ul style="list-style-type: none"> •Prior to product use, carefully read and comprehend the contents of the user manual and product packaging information. •Inspect the product routinely and thoroughly, in addition to pre- and postoperative examinations. •For after-sale support, contact your local sales representative.
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Sep 2017, MM/Baru Design Rev.1

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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

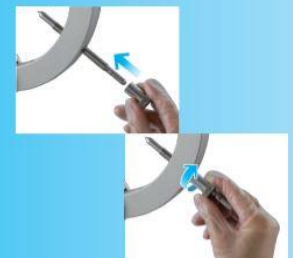
The table attachment and basal frame from the original version of the Sugita Multi-Purpose Head Frame System are interchangeable and can be used in conjunction with the upgraded Smart Fix Head Holder System.



Method / Technical of mounting the pin



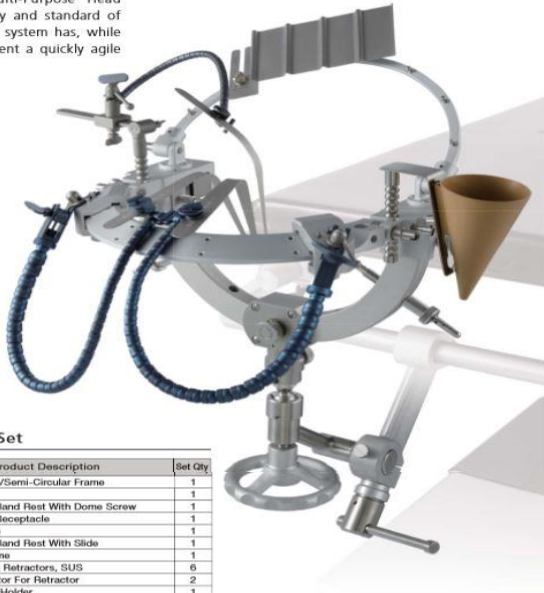
Insert the pin through the smart fix ratchet holes. Due to the mechanism of the ratchet slider, simply press the pin forward to smoothly position the pin in place. Upon the pin reaching the patient's skull, manually rotate the pin for final fixation. Always rotate two pins at the same time for fixation.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

New Smart Fix Head Holder Set

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.

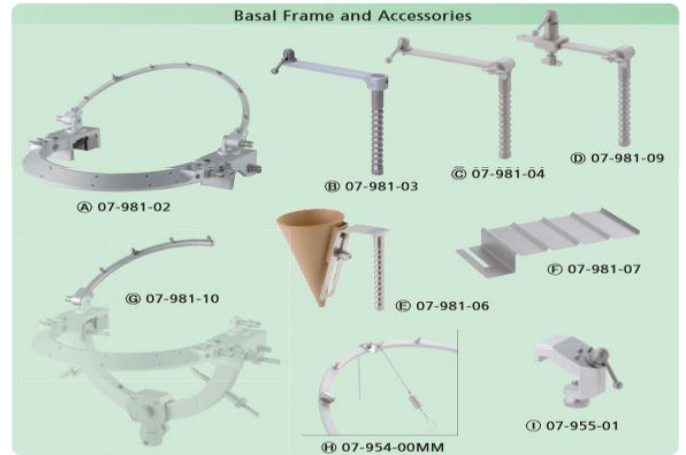
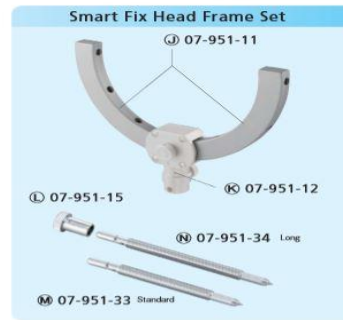


Smart Fix Head Frame Set

P. No.	Product Description	Set Qty
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
07-981-08	Adjustable Hand Rest With Slide	1
07-981-10	Quarter Frame	1
07-954-00MM	Spring Hook Retractors, SUS	6
07-955-01	Slide Adjustor For Retractor	2
07-951-11	Smart Fix G Holder	1
07-951-12	Smart Fix Joint Box (Including 2 Fixing Screws)	1
07-951-15	Smart Fix Stopper Sleeves	4
07-951-33	Smart Fix Head Pin Standard	4
07-951-34	Smart Fix Head Pin Long	4
07-952-00	Table Attachment	1

Table attachment Option

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



Head Holder (Original model)

Simple and Cost effective 4 pins fixation model.

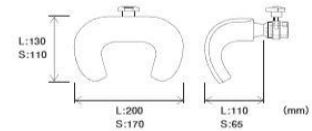


P. No.	Product Description
07-951-00	Head Holder W/4 Standard Head Pins
07-951-00MM	Head Holder
07-951-01MM	Head Pin, Standard, SUS
07-951-02MM	Head Pin, Short Tip, For Adult, SUS
07-951-03MM	Head Pin, Short Tip, For Pediatric, SUS

Horseshoe Head Rest



P. No.	Product Description
08-073-03	U-Shaped Head Rest L
08-073-04	U-Shaped Head Rest S
08-075-01	Horseshoe Head Rest Set Adult
08-075-02	Horseshoe Head Rest Set Pediatric



Navigation Adaptor

P. No.	Product Description
07-970-50	NV Adaptor, Stainless
07-970-51	NV Adaptor, MRI/CT



07-970-50



07-970-51



P. No.	Product Description
07-175-00	Self-Retaining Retractor Attachment F-1
07-157-01	Tapered Self-Retaining Retractor 42cm
07-952-00	Table Attachment
07-956-60	Soft Spatula 6mm Blackened



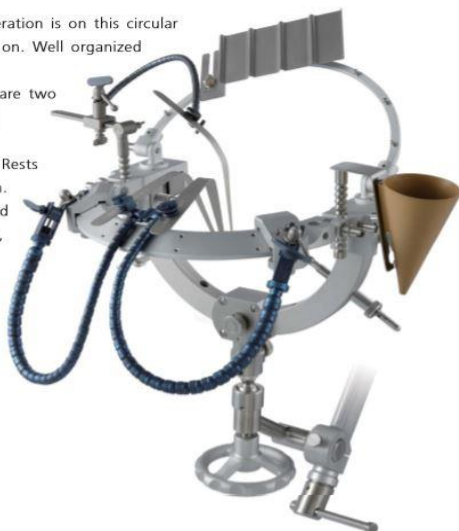
Basal Frame

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.

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 Hook Retractors, SUS
07-955-01	Slide Adjustor For Retractor

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).



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 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

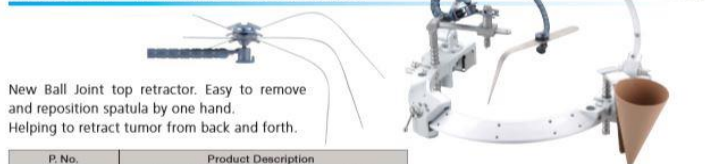
Tapered Titanium Retractor

Tapered shape body provides maintaining strong fixing force during surgery.



P. No.	Product Description
07-174-24	Retaining Retractor 42cm Without Clamp
07-174-25	Retaining Retractor 37cm Without Clamp
07-157-01	Tapered Self-Retaining Retractor 42cm
07-157-02	Tapered Self-Retaining Retractor 37cm

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 (Hadeishi Version)
07-157-12	Tapered Self-Retaining Retractor 6mm 37cm (Hadeishi Version)

Stainless Retractor

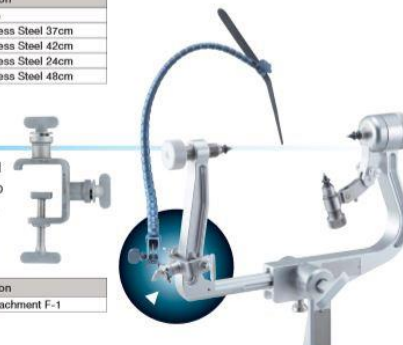


P. No.	Product Description
07-173-00	Self-Retaining Retractor Single
07-174-21	Self-Retaining Retractor Stainless Steel 37cm
07-174-22	Self-Retaining Retractor Stainless Steel 42cm
07-174-23	Self-Retaining Retractor Stainless Steel 24cm
07-174-26	Self-Retaining Retractor Stainless Steel 48cm

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.

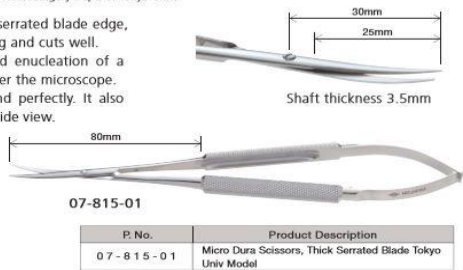
P. No.	Product Description
07-175-00	Self-Retaining Retractor Attachment F-1



Micro Metzbaum Scissors

*designed by d. Nobuhiro Saito, Professor at Neurosurgery Dept. of Tokyo Univ.

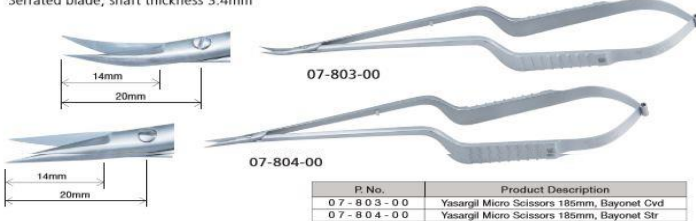
Features a thick blade edge and a serrated blade edge, creating a scissor that is both strong and cuts well. It is good for dural dissection and enucleation of a hard tumors and meningiomas under the microscope. Round shape grip fits in your hand perfectly. It also allows for a dynamic cut under a wide view.



P. No.	Product Description
07-815-01	Micro Dura Scissors, Thick Serrated Blade Tokyo Univ Model

Serrated Micro Scissors

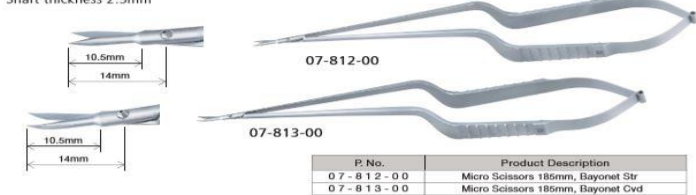
Serrated blade, shaft thickness 3.4mm



P. No.	Product Description
07-803-00	Yasargil Micro Scissors 185mm, Bayonet Cvd
07-804-00	Yasargil Micro Scissors 185mm, Bayonet Str

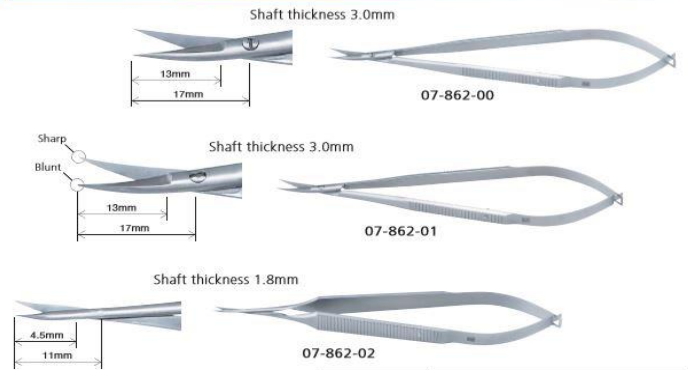
Sharp Micro Scissors

Shaft thickness 2.5mm



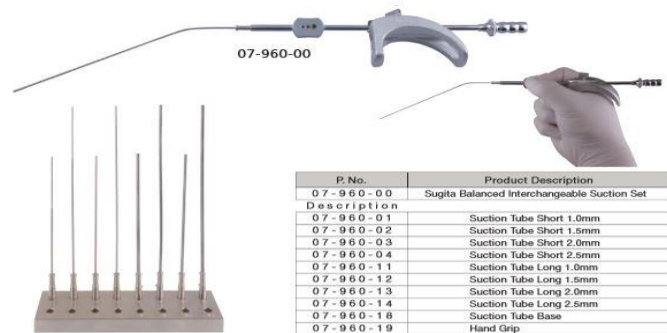
P. No.	Product Description
07-812-00	Micro Scissors 185mm, Bayonet Str
07-813-00	Micro Scissors 185mm, Bayonet Cvd

Micro Scissors



P. No.	Product Description
07-862-00	Micro Scissors 130mm, FH
07-862-01	Micro Scissors 130mm, Single Edge
07-862-02	Micro Scissors 130mm, Double Edge

Sugita Balanced Interchangeable Suction Set



P. No.	Product Description
07-960-00	Sugita Balanced Interchangeable Suction Set
07-960-01	Suction Tube Short 1.0mm
07-960-02	Suction Tube Short 1.5mm
07-960-03	Suction Tube Short 2.0mm
07-960-04	Suction Tube Short 2.5mm
07-960-11	Suction Tube Long 1.0mm
07-960-12	Suction Tube Long 1.5mm
07-960-13	Suction Tube Long 2.0mm
07-960-14	Suction Tube Long 2.5mm
07-960-16	Suction Tube Base
07-960-19	Hand Grip

Accessories

Soft Spatula

Commonly used Spatulas. Long length and tapered shape to reach skull base lesion. Suitable for micro surgery.



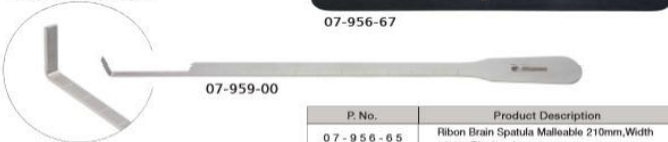
P. No.	Product Description
07-956-60	Soft Spatula 6mm Blackened
07-956-61	Soft Spatula 4mm Blackened
07-956-62	Soft Spatula 2mm Blackened

Ribon Brain Spatula Malleable



P. No.	Product Description
07-956-65	Ribon Brain Spatula Malleable 210mm, Width 10mm, Blackend
07-956-66	Ribon Brain Spatula Malleable 210mm, Width 15mm, Blackend
07-956-67	Ribon Brain Spatula Malleable 210mm, Width 20mm, Blackend
07-959-00	Measuring Spatula

Spatula with scale



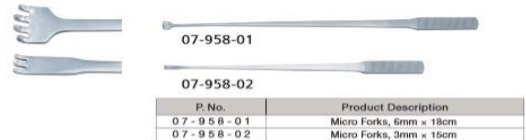
Universal Attachment



P. No.	Product Description
07-955-00	UNIVERSAL ATTACHMENT

Micro Forks

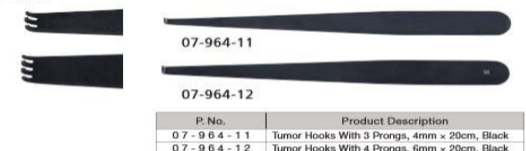
Helpful for hard tumor retraction. Please fit it on retractor with universal attachment.



P. No.	Product Description
07-958-01	Micro Forks, 6mm x 18cm
07-958-02	Micro Forks, 3mm x 15cm

Tumor Hooks

Convenient to hold soft tumor.



P. No.	Product Description
07-964-11	Tumor Hooks With 3 Prongs, 4mm x 20cm, Black
07-964-12	Tumor Hooks With 4 Prongs, 6mm x 20cm, Black

Raney Scalp Clip



P. No.	Product Description
07-061-01	Raney Scalp-Clip Stainless Steel, 10Pcs/Pack
07-061-02	Raney Scalp-Clip Stainless Steel, LR10Pcs/Pack
07-062-00	Raney Scalp-Clip, Plastic 50Pcs/Pack (Disposable)

Raney Scalp Clip Applier



P. No.	Product Description
07-083-00	Raney Scalp-Clip Applier, Stainless 10cm
07-064-00	Raney Scalp-Clip Applier, Stainless 17cm
07-007-26	Raney Scalp-Clip Applier, Angled