



HotryMedical



ULTRA MICROVASCULAR INSTRUMENTS

www.Hotryneuro.com

ULTRA MICROVASCULAR INSTRUMENTS



As we pursue minimally invasive and precise surgical techniques more than ever, the traditional microsurgery is about to enter a new era of "ultra neurosurgery".--Dr. Ali Krisht. MD

With the brand-new surgical concepts and innovative instruments, the goal is to minimize burning and blunt separation. The details of the tissue, which were easily neglected in the past, can now be handled and cared for. In this way, ultra neurosurgery brings minimal damage to the patients or harm to the tissue, which significantly improves the post-operation performance.

- ✓ Handles made of titanium and of hallow design
- ✓ Super comfortable even after long and detailed surgery
- ✓ As if your fingers are touching the blood vessels
- ✓ Suitable for all needs, including shallow, middle, and deep
- ✓ Ultra micro scissors can be used for very delicate cuts and moves; there are multiple choice for the tips: sharp, blunt, straight, upward curved, etc.
- ✓ Shark scissors can be used for sylvian fissure, fast and safe
- ✓ Debaquey forcep can be used to hold and manipulate delicate vascular tissues without harm
- ✓ Irrigation & suction can be used to rinse and clean the area in time to avoid accidents and make sure of clear surgical view



Ultra Neurosurgery

Ultra Neurosurgery By using the ultra micro scissors, irrigation and suction, and other innovative instruments for more delicate and safer operations, the post-operation effect can be greatly enhanced. There are multiple types of instruments and specifications of tips to choose from, which can suit various needs.

Super-light and hollow design

The hollow design and the titanium material makes the users feel as if they are touching the blood vessels by their fingers. It is super comfortable even after a long time of use.



Suit all needs

Various needs can be met for the surgeries, including "shallow by bypass set", "medium and deep bypass set", "deep bypass set", etc. with all different lengths and specifications provided.





ULTRA MICROVASCULAR INSTRUMENTS

Ultra Micro Scissors / Shark Scissors

120mm Ultra Micro Scissors







Shallow
For delicate vascular repair and precise operations

	 Straight Tip	 Tip Curved Upwards
 (Sharp)	HC-S-001T 1211S	HC-S-001T 1212S
 (Blunt)	HC-S-001T 1211B	HC-S-001T 1212B
Working Length	35mm	35mm
Total Length	120mm	120mm

160mm Ultra Micro Scissors



Shallow/Medium
For delicate vascular repair and precise operations





	 Straight Tip	 Tip Curved Upwards
 (Sharp)	HC-S-001T 1611S	HC-S-001T 1612S
 (Blunt)	HC-S-001T 1611B	HC-S-001T 1612B
Working Length	45mm	45mm
Total Length	160mm	160mm



190mm Ultra Micro Scissors







Medium
For delicate vascular repair and precise operations

	 Straight Tip	 Tip Curved Upwards
 (Sharp)	/	/
 (Blunt)	HC-S-001T 1911B	HC-S-001T 1912B
Working Length	55mm	55mm
Total Length	190mm	190mm

210mm Ultra Micro Scissors



Medium/Deep
For delicate vascular repair and precise operations

	 Straight Tip	 Tip Curved Upwards
 (Sharp)	/	/
 (Blunt)	HC-S-001T 2111B	HC-S-001T 2112B
Working Length	75mm	75mm
Total Length	210mm	210mm





ULTRA MICROVASCULAR INSTRUMENTS

Ultra Micro Scissors / Shark Scissors

230mm Ultra Micro Scissors







Deep
For delicate vascular repair and precise operations

	 Straight Tip	 Tip Curved Upwards
 (Sharp)	/	/
 (Blunt)	HC-S-001T 2311B	HC-S-001T 2312B
Working Length	95mm	95mm
Total Length	230mm	230mm

250mm Ultra Micro Scissors



Deep
For delicate vascular repair and precise operations


	 Straight Tip	 Tip Curved Upwards
 (Sharp)	/	/
 (Blunt)	HC-S-001T 2511B	HC-S-001T 2512B
Working Length	115mm	115mm
Total Length	250mm	250mm




160mm Shark Scissors



Shallow
For safe sylvian fissure split and moves near to blood vessels

	Right Curved	Left Curved
	HC-S-002 SS/160	/
Working Length	55mm	55mm
Total Length	160mm	160mm

180mm Shark Scissors

	Right Curved	Left Curved
	HC-S-002 SS/180	/
Working Length	75mm	75mm
Total Length	180mm	180mm




Medium
For safe sylvian fissure split and moves near to blood vessels

225mm Shark Scissors



Deep
For safe sylvian fissure split and moves near to blood vessels

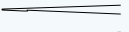

	Right Curved	Left Curved
	HC-S-002 R/225	HC-S-002 L/225
Working Length	95mm	95mm
Total Length	225mm	225mm

ULTRA MICROVASCULAR INSTRUMENTS

Ultra Micro Forcep / Debakey Forcep



160mm Ultra Micro Forcep



	Tips	Tip width	Working length	Total length	Model No.
	Straight	0.4mm	45mm	160mm	HC-T-001T 1611F
	Curved Upwards	0.4mm	45mm	160mm	HC-T-001T 1612F

180mm Ultra Micro Forcep





	Tips	Tip width	Working length	Total length	Model No.
	Straight	0.4mm	54mm	180mm	HC-T-001T 1811F
	Curved Upwards	0.4mm	54mm	180mm	HC-T-001T 1812F



225mm Ultra Micro Forcep



	Tips	Tip width	Working length	Total length	Model No.
	Straight	0.4mm	95mm	225mm	HC-T-001T 22521F
	Curved Upwards	0.4mm	95mm	225mm	HC-T-001T 22522F

180mm Debakey Forcep





	Tips	Tip width	Working length	Total length	Model No.
	Straight	1mm	72mm	180mm	HC-T-003 A01

ULTRA MICROVASCULAR INSTRUMENTS

Micro Needle Holder


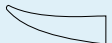
160mm Micro Needle Holder



	Tips	Working Length	Total Length	Model No.
	Straight	50mm	160mm	HC-N-001T 1611N
	Curved Upwards	50mm	160mm	HC-N-001T 1612N

180mm Micro Needle Holder


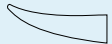


	Tips	Working Length	Total Length	Model No.
	Straight	60mm	180mm	HC-N-001T 1811N
	Curved Upwards	60mm	180mm	HC-N-001T 1812N



225mm Micro Needle Holder



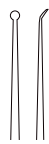
	Tips	Working Length	Total Length	Model No.
	Straight	100mm	225mm	HC-N-001T 22521N
	Curved Upwards	100mm	225mm	HC-N-001T 22522N



ULTRA MICROVASCULAR INSTRUMENTS

Miranda Dissector Set

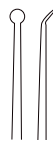
Miranda Set



H05-1001

M1

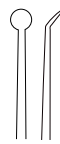
Plate
φ1mm
45°



H05-1002

M2

Plate
φ2mm
45°



H05-1003

M3

Plate
φ3mm
45°



H05-1004

M4

Plate
φ2mm
Str.



H05-1005

M5

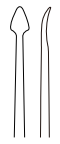
Plate
φ3mm
Str.



H05-1006

M6

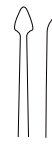
Plate
φ3mm
-45° Backwards



H05-1007

M7

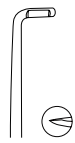
Spatula
H2.5
Str.



H05-1008

M8

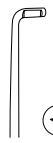
Spatula
H5.0
60°



H05-1009

M9

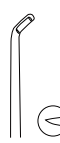
Feather Knife
Blade length 3mm
90°



H05-1010

M10

Feather Knife
Blade length 2mm
90°



H05-1011

M11

Feather Knife
Blade length 2mm
60°



H05-1012

M12

Pituitary Curette
φ3mm
90°



Miranda Set -- Extended Micro Set

Extended Set Dissector Tips



H05-1015

EX1

Spatula
W:1.1mm
45°



H05-1016

EX2

Spatula
W:2.1mm
45°



H05-1017

EX3

Hook
-
90°



H05-1018

EX4

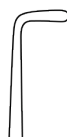
Point Needle
-
Str.



H05-1019

EX5

Teardrop
-
Str.



H05-1020

EX6

Teardrop
3.0mm
90°



H05-1021

EX7

Teardrop
4.0mm
40°



H05-1022

EX8

Plate
φ1mm
Str.

Dissector Handles



Bayonet Handle

H05-1014

120mm

Skin-like texture

Golfball design



Straight Handle

H05-1013

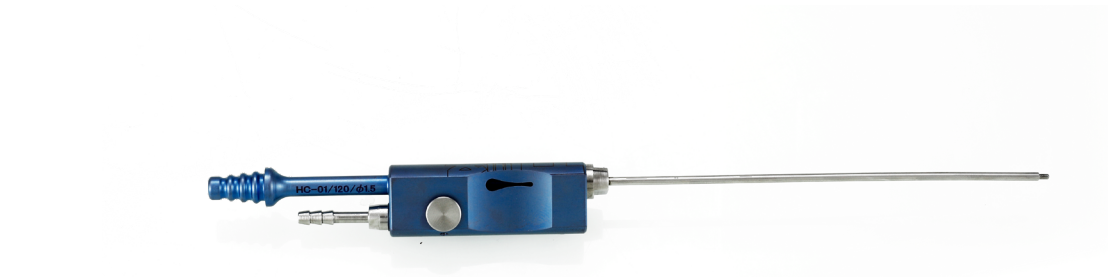
105mm

Skin-like texture


Golfball design

ULTRA MICROVASCULAR INSTRUMENTS

Irrigation and Suction

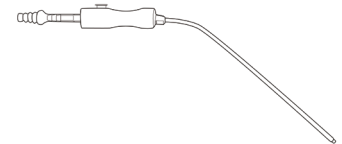


Straight HC-01




Working length Diameter	120mm/Shallow	150mm/Medium	180mm/Deep
Φ 1.5mm	HC-01 120/Φ1.5	HC-01 150/Φ1.5	HC-01 180/Φ1.5
Φ 2.0mm	HC-01 120/Φ2	HC-01 150/Φ2	HC-01 180/Φ2
Φ 3.0mm	HC-01 120/Φ3	HC-01 150/Φ3	HC-01 180/Φ3

Curved Downwards HC-02



Working length Diameter	120mm/Shallow	150mm/Medium	180mm/Deep
Φ 1.5mm	HC-02 120/Φ1.5	HC-02 150/Φ1.5	HC-02 180/Φ1.5
Φ 2.0mm	HC-02 120/Φ2	HC-02 150/Φ2	HC-02 180/Φ2
Φ 3.0mm	HC-02 120/Φ3	HC-02 150/Φ3	HC-02 180/Φ3

Straight and Curved Downwards HC-03



Working length Diameter	120mm/Shallow	150mm/Medium	180mm/Deep
Φ 1.5mm	HC-03 120/Φ1.5	HC-03 150/Φ1.5	HC-03 180/Φ1.5
Φ 2.0mm	HC-03 120/Φ2	HC-03 150/Φ2	HC-03 180/Φ2
Φ 3.0mm	HC-03 120/Φ3	HC-03 150/Φ3	HC-03 180/Φ3

ULTRA MICROVASCULAR INSTRUMENTS

Recommended Solutions

Shallow and Medium

	Model No.	Describe	NO.
1	HC-S-001T 1211S	Ultra Micro Scissors: S1, straight, sharp, handle with hollow design, 120mm	1
2	HC-S-001T 1212S	Ultra Micro Scissors: S3, straight, curved upward, sharp, handle with hollow design, 120mm	1
3	HC-S-001T 1611S	Ultra Micro Scissors: S5, straight, sharp, handle with hollow design, 160mm	1
4	HC-S-001T 1611B	Ultra Micro Scissors: S6, straight, blunt, handle with hollow design, 160mm	1
5	HC-S-001T 1612S	Ultra Micro Scissors: S7, straight, curved upward, sharp, handle with hollow design, 160mm	1
6	HC-S-001T 1612B	Ultra Micro Scissors: S8, straight, curved upward, blunt, handle with hollow design, 160mm	1
7	HC-S-002 SS/160	Shark Scissors: straight, right curved, handle in tatanium alloy, 160mm	1
8	HC-S-002 ST/180	Shark Scissors: straight, right curved, handle in tatanium alloy, 180mm	1
9	HC-T-001T 1611F	Ultra Micro Forcep: straight shape, straight tip, handle with hollow design, 0.4mm, 160mm	1
10	HC-T-001T 1612F	Ultra Micro Forcep: straight shape, curved upward, handle with hollow design, 0.4mm, 160mm	1
11	HC-T-003 A01	DEBAKEY Forcep: straight, 1x2 serrated, golf ball handle, 1mm, 180mm	1
12	HC-N-001T 1611N	Ultra Needle Holder: straight shape, straight tip, handle with hollow design, 160mm	1
13	HC-N-001T 1612N	Ultra Needle Holder: straight, curved upward, handle with hollow design, 160mm	1
14	HC-01 120/1.5	Irrigation & Suction: straight shape, straight tip, double channels, Φ1.5mm, working length 120mm	1
15	HC-01 120/2	Irrigation & Suction: straight shape, straight tip, double channels, Φ2mm, working length 120mm	1
16	HC-02 120/1.5	Irrigation & Suction: straight shape, downward tip, double channels, Φ1.5mm, working length 120mm	1
17	HC-02 120/2	Irrigation & Suction: straight shape, downward tip, double channels, Φ2mm, working length 120mm	1
18	H05-1002	Retractable dissector: M2, plate, 45°, Φ2mm, working length 80mm-160mm	1
19	H05-1003	Retractable dissector: M3, plate, 45°, Φ3mm, working length 80mm-160mm	1
20	H05-1015	Retractable dissector: EX1, spatula, width 1.1mm, straight, working length 80mm-160mm	1
21	H05-1016	Retractable dissector: EX2, spatula, width 2.1mm, straight, working length 80mm-160mm	1
22	H05-1017	Retractable dissector: EX3, Hook, 90°, half sharp/blunt, straight, working length 80mm-160mm	1
23	H05-1018	Retractable dissector: EX4, point needle, straight, working length 80mm-160mm	1
24	H05-1019	Retractable dissector: EX5, teardrop, straight, working length 80mm-160mm	1
25	H05-1020	Retractable dissector: EX6, teardrop, 90°, straight, working length 80mm-160mm	1
26	H05-1021	Retractable dissector: EX7, teardrop, 40°, straight, working length 80mm-160mm	1
27	H05-1022	Retractable dissector: EX8, plate, straight, Φ1mm, working length 80mm-160mm	1
28	H05-1013	105mm, black, retractable, skin-like texture, high pressure and high pressure sterilization	3

ULTRA MICROVASCULAR INSTRUMENTS

Recommended Solutions

Medium

	Model No.	Describe	NO.
1	HC-S-001T 1611S	Ultra Micro Scissors: S5, straight, sharp, handle with hollow design, 160mm	1
2	HC-S-001T 1611B	Ultra Micro Scissors: S6, straight, blunt, handle with hollow design, 160mm	1
3	HC-S-001T 1612S	Ultra Micro Scissors: S7, straight, curved upward, sharp, handle with hollow design, 160mm	1
4	HC-S-001T 1612B	Ultra Micro Scissors: S8, straight, curved upward, blunt, handle with hollow design, 160mm	1
5	HC-S-001T 2121B	Ultra Micro Scissors: S11, bayonet shape, blunt, handle with hollow design, 210mm	1
6	HC-S-001T 2122B	Ultra Micro Scissors: S12, bayonet shape, curved upward, blunt, handle with hollow design, 210mm	1
7	HC-S-002 SS/180	Shark Scissors: straight, right curved, handle in titanium alloy, 180mm	1
8	HC-T-001T 1811F	Ultra Micro Forcep: straight shape, straight tip, handle with hollow design, 0.4mm, 180mm	1
9	HC-T-001T 1812F	Ultra Micro Forcep: straight shape, curved upward, handle with hollow design, 0.4mm, 180mm	1
10	HC-T-003 A01	DEBAKEY Forcep: straight, 1x2 serrated, golf ball handle, 1mm, 180mm	1
11	HC-N-001T 1811N	Ultra Needle Holder: straight shape, straight tip, handle with hollow design, 180mm	1
12	HC-N-001T 1812N	Ultra Needle Holder: straight, curved upward, handle with hollow design, 180mm	1
13	HC-01 150/1.5	Irrigation & Suction: straight shape, straight tip, double channels, Φ1.5mm, working length 150mm	1
14	HC-01 150/2	Irrigation & Suction: straight shape, straight tip, double channels, Φ2mm, working length 150mm	1
15	HC-02 150/1.5	Irrigation & Suction: straight shape, downward tip, double channels, Φ1.5mm, working length 150mm	1
16	HC-02 150/2	Irrigation & Suction: straight shape, downward tip, double channels, Φ2mm, working length 150mm	1
17	H05-1002	Retractable dissector: M2, plate, 45°, Φ2mm, working length 80mm-160mm	1
18	H05-1003	Retractable dissector: M3, plate, 45°, Φ3mm, working length 80mm-160mm	1
19	H05-1015	Retractable dissector: EX1, spatula, width 1.1mm, straight, working length 80mm-160mm	1
20	H05-1016	Retractable dissector: EX2, spatula, width 2.1mm, straight, working length 80mm-160mm	1
21	H05-1017	Retractable dissector: EX3, Hook, 90°, half sharp/blunt, straight, working length 80mm-160mm	1
22	H05-1018	Retractable dissector: EX4, point needle, straight, working length 80mm-160mm	1
23	H05-1019	Retractable dissector: EX5, teardrop, straight, working length 80mm-160mm	1
24	H05-1020	Retractable dissector: EX6, teardrop, 90°, straight, working length 80mm-160mm	1
25	H05-1021	Retractable dissector: EX7, teardrop, 40°, straight, working length 80mm-160mm	1
26	H05-1022	Retractable dissector: EX8, plate, straight, Φ1mm, working length 80mm-160mm	1
27	H05-1013	105mm, black, retractable, skin-like texture, high pressure and high pressure sterilization	3
28	H05-1014	120mm, black, retractable, skin-like texture, high pressure and high pressure sterilization	1

Deep

	Model No.	Describe	NO.
1	HC-S-001T 2121B	Ultra Micro Scissors: S11, bayonet shape, blunt, handle with hollow design, 210mm	1
2	HC-S-001T 2122B	Ultra Micro Scissors: S12, bayonet shape, curved upward, blunt, handle with hollow design, 210mm	1
3	HC-S-001T 2321B	Ultra Micro Scissors: S13, bayonet shape, blunt, handle with hollow design, 230mm	1
4	HC-S-001T 2322B	Ultra Micro Scissors: S14, bayonet shape, curved upward, blunt, handle with hollow design, 230mm	1
5	HC-S-001T 2521B	Ultra Micro Scissors: S15, bayonet shape, blunt, handle with hollow design, 250mm	1
6	HC-S-001T 2522B	Ultra Micro Scissors: S16, bayonet shape, curved upward, blunt, handle with hollow design, 250mm	1
7	HC-S-002 R/225	Shark Scissors: bayonet shape, right curved, handle in tatanium alloy, 225mm	1
8	HC-T-001T 22521F	Ultra Micro Forcep: bayonet shape, straight tip, handle with hollow design, 0.4mm, 225mm	1
9	HC-T-001T 22522F	Ultra Micro Forcep: bayonet shape, curved upward, handle with hollow design, 0.4mm, 225mm	1
10	HC-T-003 A01	DEBAKEY Forcep: straight, 1x2 serrated, golf ball handle, 1mm, 180mm	1
11	HC-N-001T 22521N	Ultra Needle Holder: bayonet shape, straight tip, handle with hollow design, 225mm	1
12	HC-N-001T 22522N	Ultra Needle Holder: bayonet shape, curved upward, handle with hollow design, 225mm	1
13	HC-01 150/1.5	Irrigation & Suction: straight shape, straight tip, double channels, Φ1.5mm, working length 150mm	1
14	HC-01 150/2	Irrigation & Suction: straight shape, straight tip, double channels, Φ2mm, working length 150mm	1
15	HC-02 180/1.5	Irrigation & Suction: straight shape, downward tip, double channels, Φ1.5mm, working length 180mm	1
16	HC-02 180/2	Irrigation & Suction: straight shape, downward tip, double channels, Φ2mm, working length 180mm	1
17	H05-1002	Retractable dissector: M2, plate, 45°, Φ2mm, working length 80mm-160mm	1
18	H05-1003	Retractable dissector: M3, plate, 45°, Φ3mm, working length 80mm-160mm	1
19	H05-1015	Retractable dissector: EX1, spatula, width 1.1mm, straight, working length 80mm-160mm	1
20	H05-1016	Retractable dissector: EX2, spatula, width 2.1mm, straight, working length 80mm-160mm	1
21	H05-1017	Retractable dissector: EX3, Hook, 90°, half sharp/blunt, straight, working length 80mm-160mm	1
22	H05-1018	Retractable dissector: EX4, point needle, straight, working length 80mm-160mm	1
23	H05-1019	Retractable dissector: EX5, teardrop, straight, working length 80mm-160mm	1
24	H05-1020	Retractable dissector: EX6, teardrop, 90°, straight, working length 80mm-160mm	1
25	H05-1021	Retractable dissector: EX7, teardrop, 40°, straight, working length 80mm-160mm	1
26	H05-1022	Retractable dissector: EX8, plate, straight, Φ1mm, working length 80mm-160mm	1
27	H05-1013	105mm, black, retractable, skin-like texture, high pressure and high pressure sterilization	2
28	H05-1014	120mm, black, retractable, skin-like texture, high pressure and high pressure sterilization	2

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