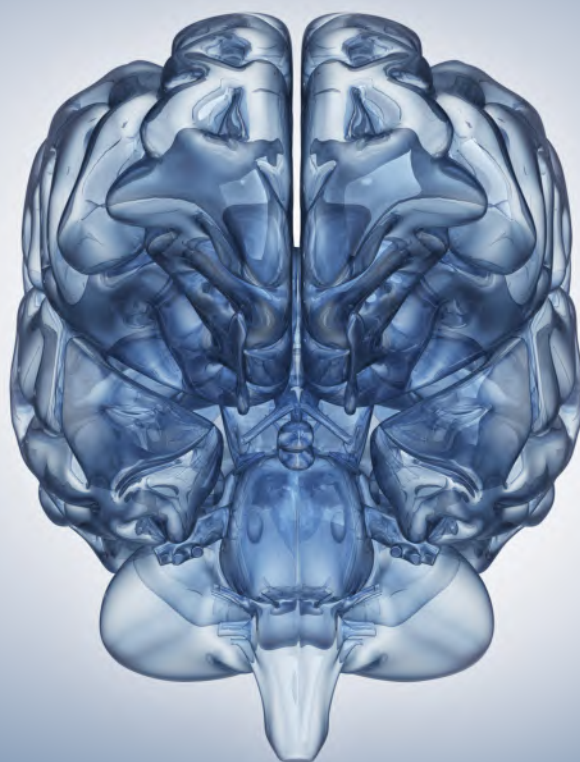




HOTRY Surgical Instruments Product Diagram

Neuro Surgery

German Quality, Excelsior, Innovative
Comfortable, Excellent





Comprehensive solution for neuroendoscopy
Neurosurgery Endoscopy System

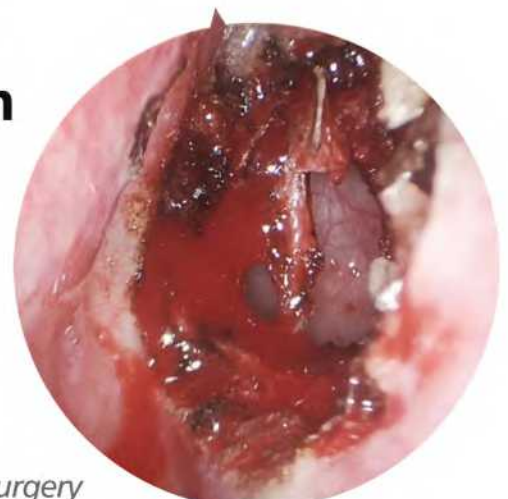




Hotry **4K** Ultimate Neuro Endoscopic Host

**Exceed the standard 4k screen,
shocking delicate surgery screen**

- ☑ 3840*2160 definition, the acme of output
- ☑ REC2020 Color gamut, High color reproduction
- ☑ HOTRY Scan Technology, easily distinguish blood vessels and small tissues in the blood
- ☑ HOTRY Dark area improve function, No blind spots during surgery
- ☑ Meet the needs of any neurosurgery operation and enter the era of 4K surgery complete





Neurosurgery global industry benchmark 4K endoscope

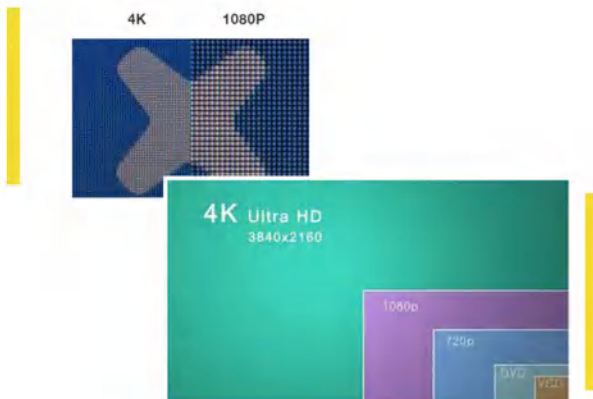
Meet the demanding needs of all neurosurgery operations

Give the new surgical experience with the finest texture and 2020 REC super color gamut

4 times sharper upgrade

One 4k picture can be cut out 4 high definition 1080P pictures

Under the same area, 4K shadow density is much higher than HD

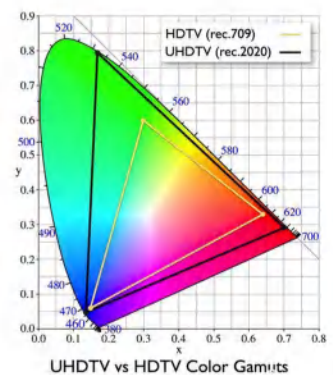


Restore true color gamut

Raise the color gamut of REC709 to REC2020
And compare the overall REC and color contrast
Parameter coding according to Shenwai&ENT clinical environment

2020 color gamut

- ✓ REC 2020 super color gamut color reproduction
- ✓ Restore true color recognition in complex environments
- ✓ Hotry Scan technology: easy identification of blood, blood vessels and tumor boundaries



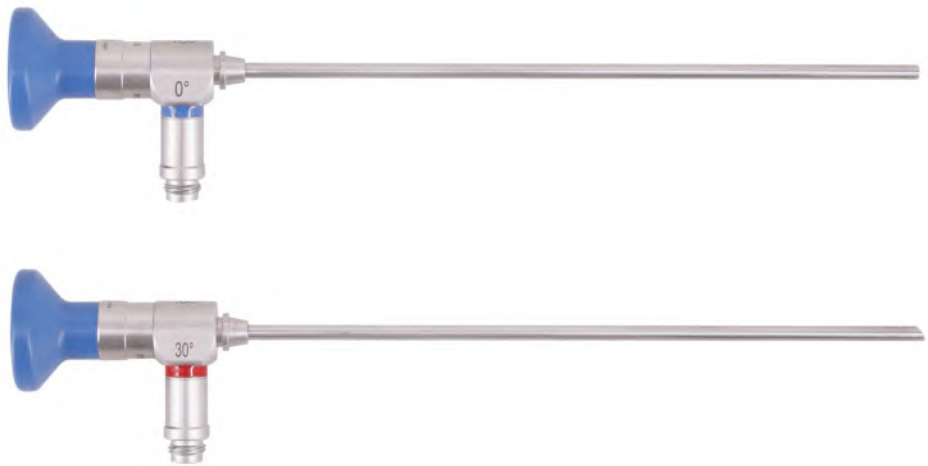
HOTRY helps you quickly enter the era of true 4K surgery



Ultra HD neuroendoscopy

Ultra-high-definition lens body, clear surgical field
Advanced coating process blessing reduces intraoperative fogging,
high brightness and strong transparency
Ultra-high color reproduction, lifelike images without distortion

0° 4mm*175mm
30° 4mm*175mm





HOTRY Full HD Integrated Neuroendoscopy System

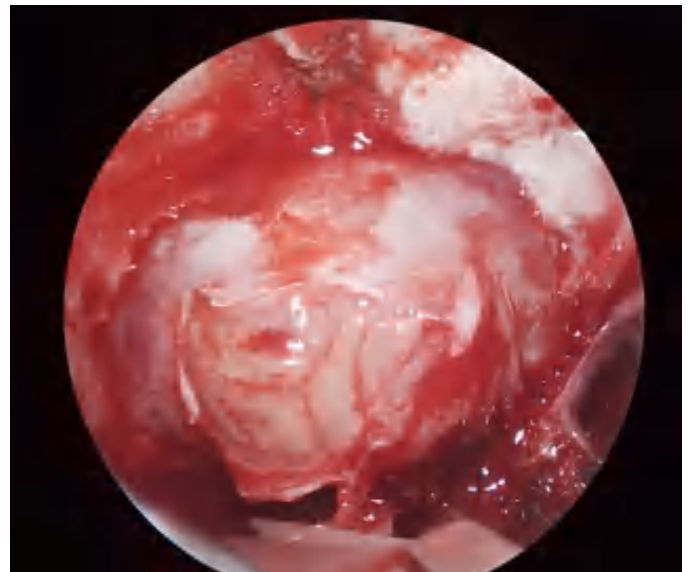
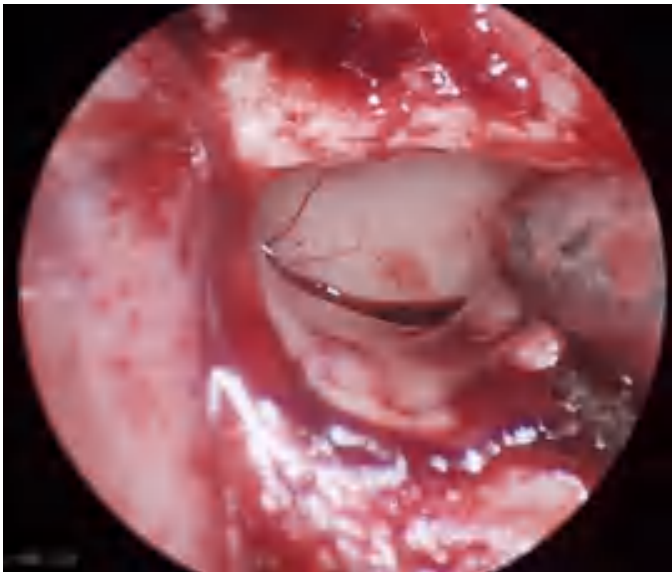
Main Machine Model for Transnasal Pituitary Tumor

- 1920*1080P high-definition imaging
- Currently widely used in the fields of transnasal sphenoid and ventriculscopy
- FHD super sampling 2.5K vision and true color reproduction, don't miss every detail
- Support multiple screens, 0 delay HD output
- Small size, one-key boot, quickly start neurosurgery endoscopic surgery

Full HD Integrated Neuroendoscopy System



- Digital full HD camera handle
- 2.5 times lossless zoom magnification function





Portable Mode: quick start, essential for consultation



Super Sampling 1080 output, accurate presentation of each lesion

Assistant can watch the portable screen and operate accurately

HD Neuroendoscope

High-definition lens body, clear surgical field, no need to say more.

The blessing of advanced coating technology, reduce the fogging in the operation, high brightness and strong transparency.

Ultra-high color reproduction, vivid images without distortion.

0° 4mm x 175mm
30° 4mm x 175mm





24-Inch High-definition Display



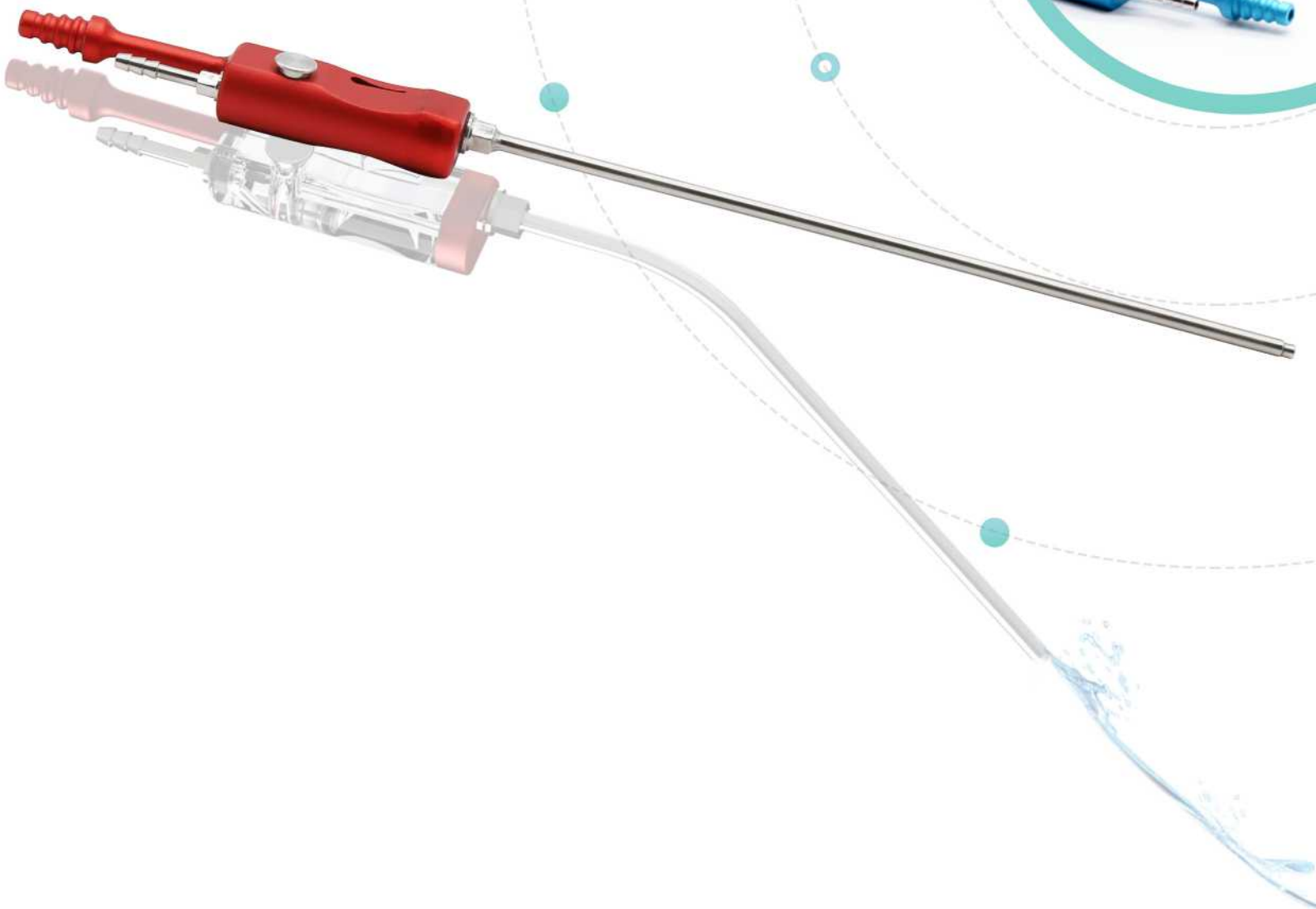
Multifunctional Medical Trolley



Endoscope Trolley

- Good combination and variability, each part can be combined arbitrarily according to functional needs
- Made of excellent steel, the product is more durable
- Easy to assemble, small packaging volume, easy to transport
- Adjustable shelf height

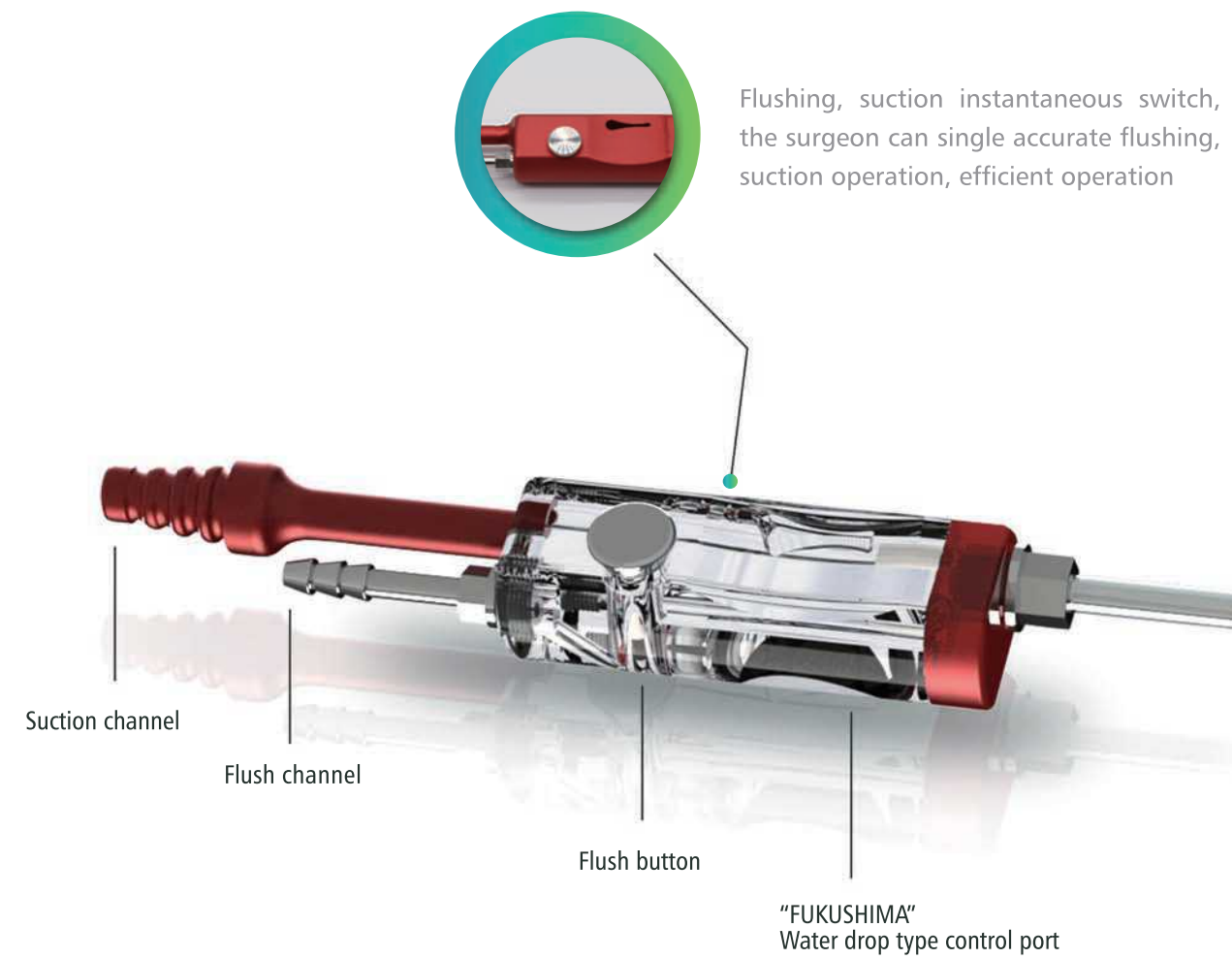
Hottry®





Suction & Irrigation Systems


Clean operating environment





- **1 Ensure the surgical field of vision is clean**

Rinsing and suction at the same time to ensure that the operative field is always clean and bleeding points are found, to avoid electrocoagulation and blind burning damage to the tissue.
- **2 Improve surgical efficiency**

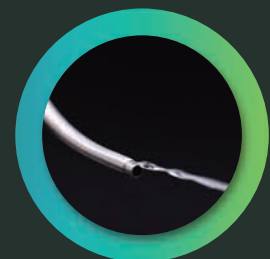
One-hand flushing/suction instantaneous switching operation, no need for multiple cooperation and instrument replacement. It greatly improves the operation space and time efficiency.
- **3 Multi-specification working end**

For endoscopic and microscopic design of multiple specifications of the working end. Shallow, deep and narrow space can be perfectly operated.

Coaxial design with dual channels of flushing/suction to avoid reflux of the suction tissue; In addition, accurate flushing and suction operations can be carried out in a narrow space to ensure a clean surgical field



A variety of diameters and microscopic/
endoscopic dedicated working end options



Flushing point is located in the suction end of a single point, easy to achieve accurate flushing operation; And the flushing pressure can be adjusted (the maximum pressure can break the bone residue, the small pressure can safely wet the small blood vessels)

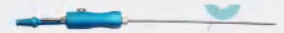
Attractive head end closure protection design

Suction & Irrigation Systems

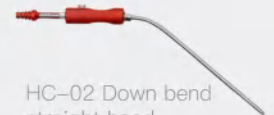
(A variety of configurations to choose from)

Surgery under the Endoscopic:

No.	Specification	Description
HC-01 (180, $\phi 3$)	Straight head	Diameter :3mm Length of working end :180mm
HC-01 (180, $\phi 4$)	Straight head	Diameter :4mm Length of working end :180mm
HC-02 (180, $\phi 2$)	Down bend straight head	Diameter :2mm Length of working end :180mm
HC-02 (180, $\phi 3$)	Down bend straight head	Diameter :3mm Length of working end :180mm
HC-02 (180, $\phi 4$)	Down bend straight head	Diameter :4mm Length of working end :180mm
HC-03 (180, $\phi 2$)	Straight down bend	Diameter :2mm Length of working end :180mm
HC-03 (180, $\phi 3$)	Straight down bend	Diameter :3mm Length of working end :180mm
HC-03 (180, $\phi 4$)	Straight down bend	Diameter :4mm Length of working end :180mm
HC-04 (180, $\phi 2$)	Straight down bend	Diameter :2mm Length of working end :180mm
HC-04 (180, $\phi 3$)	Straight down bend	Diameter :3mm Length of working end :180mm
HC-04 (180, $\phi 4$)	Straight down bend	Diameter :4mm Length of working end :180mm
HC-05 (180, $\phi 3$)	Bayonet left upward bend	Diameter :3mm Length of working end :180mm
HC-06 (180, $\phi 3$)	bayonet right upward bend	Diameter :3mm Length of working end :180mm
HC-07 (180, $\phi 3$)	bayonet left down bend	Diameter :3mm Length of working end :180mm
HC-08 (180, $\phi 3$)	bayonet right down bend	Diameter :3mm Length of working end :180mm



HC-01 Straight head



HC-02 Down bend straight head

Surgery under the Microscope:

No.	Specification	Description
HC-01 (150, $\phi 1.5$)	Straight head	Diameter :1.5mm Length of working end :150mm
HC-01 (150, $\phi 2$)	Straight head	Diameter :2mm Length of working end :150mm
HC-01 (150, $\phi 2$)	Straight head	Diameter :3mm Length of working end :150mm
HC-01 (150, $\phi 4$)	Straight head	Diameter :4mm Length of working end :150mm
HC-01 (150, $\phi 5$)	Straight head	Diameter :5mm Length of working end :150mm
HC-02 (150, $\phi 1.5$)	Down bend straight head	Diameter :1.5mm Length of working end :150mm
HC-02 (150, $\phi 2$)	Down bend straight head	Diameter :2mm Length of working end :150mm
HC-02 (150, $\phi 3$)	Down bend straight head	Diameter :3mm Length of working end :150mm
HC-02 (150, $\phi 4$)	Down bend straight head	Diameter :4mm Length of working end :150mm
HC-03 (150, $\phi 1.5$)	Straight down bend	Diameter :1.5mm Length of working end :150mm
HC-03 (150, $\phi 2$)	Straight down bend	Diameter :2mm Length of working end :150mm

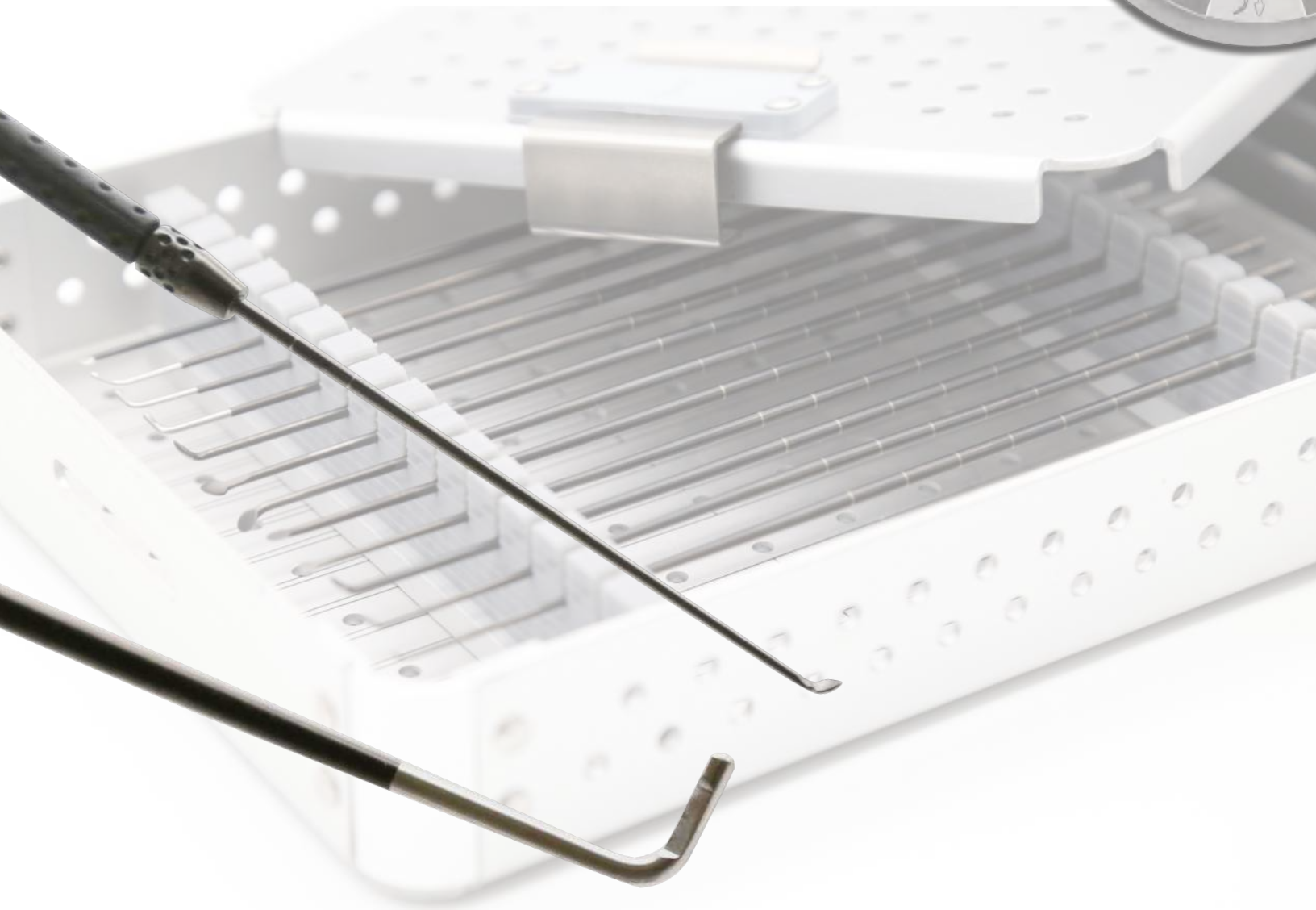


HC-03 Straight down bend

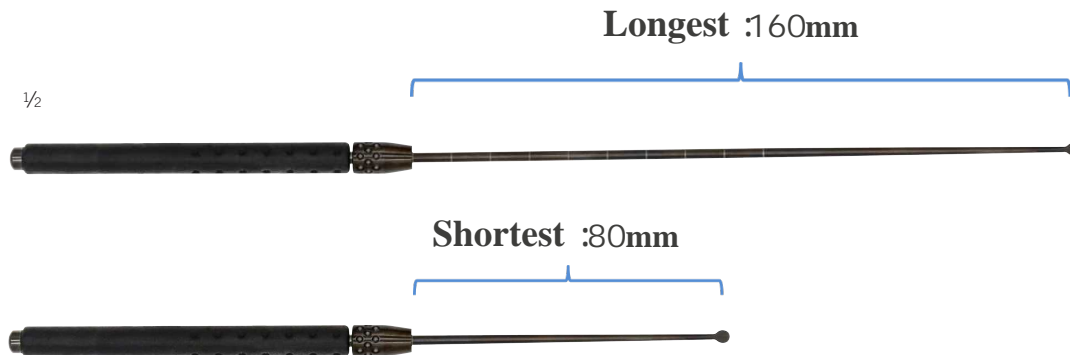


HC-04 bayonet upward bend

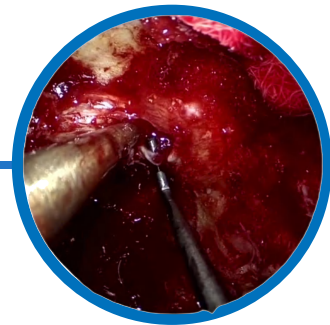
Hottry[®]



MIRANDA DISSECTOR SET

MIRANDA DISSECTOR SET

- 12 Different dissector tips designd for endoscopic skull base surgery
- Extendable variable length, choose the most suitable length
- Solid black "PVD", eliminate the light source reflection



Designed in conjunction with :

**Dr.Juan Fernandez-Miranda,MD**

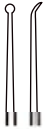
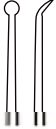
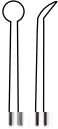

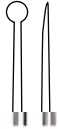
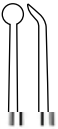
Director of the Stanford pituitary and skull base centers

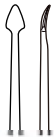
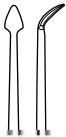
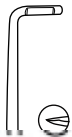
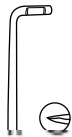
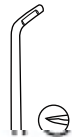

Professor of Neurosurgery,
Stanford University Medical Center

Professor of Otolaryngology - Head and Neck Surgery,
Stanford University Medical Center



MIRANDA DISSECTOR SET

					
M1	M2	M3	M4	M5	M6
H05-1001	H05-1002	H05-1003	H05-1004	H05-1005	H05-1006
45°; Φ1mm	45°; Φ2mm	45°; Φ3mm	str.;Φ2mm	str.;Φ3mm	45°;Φ3mm

					
M7	M8	M9	M10	M11	M12
H05-1007	H05-1008	H05-1009	H05-1010	H05-1011	H05-1012
str.;cottle	60°;cottle	90°;3mm angle knife	90°;2mm angle knife	60°;2mm angle knife	90°;Ring



Dissector tips is knife,Sharp



1/2
H051001-H051012
Dissector

12 Different dissector tips
Solid black "PVD"
10 Length marks



1/2
H051016
Handle

"Skin-like material"
Glof handle's design
Can high-temperature sterilization



99D003
JFM sterilization tray

4 Handle placement positions
15 Dissector placement positions

The product features

- ◆ German design, German materials, German technology and German manufacture.
- ◆ 360° rotation, suitable for various parts and all directions during the operation.
- ◆ Innovative design for linkage lever to provide accurate operation.
- ◆ A variety of tip specifications are available for choosing. And refine processing of working tips, making the operation easier.
- ◆ The newly designed holding position perfectly fits the fingers while preventing slip.
- ◆ The "golf" handle, with the standard ruhr washing interface on the rod, makes the cleaning easier and the dirt will not be hidden.



Accurate operating

Perfect





12G001
Micro scissors straight
10cm, str.



12G002
Micro scissors left curved
10cm, left cvd.



12G004
Micro scissors
10cm, up cvd.

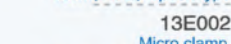
12G003
Micro scissors right curved
10cm, right cvd.



13E001
Micro clamp
10cm, Φ2, spoon type



13H001
Micro clamp
10cm, platform, sharp end



13E002
Micro clamp
10cm, Φ4, spoon type



13C001
Micro needle holder
10cm, left cvd.



13C002
Micro needle holder
10cm, right cvd.

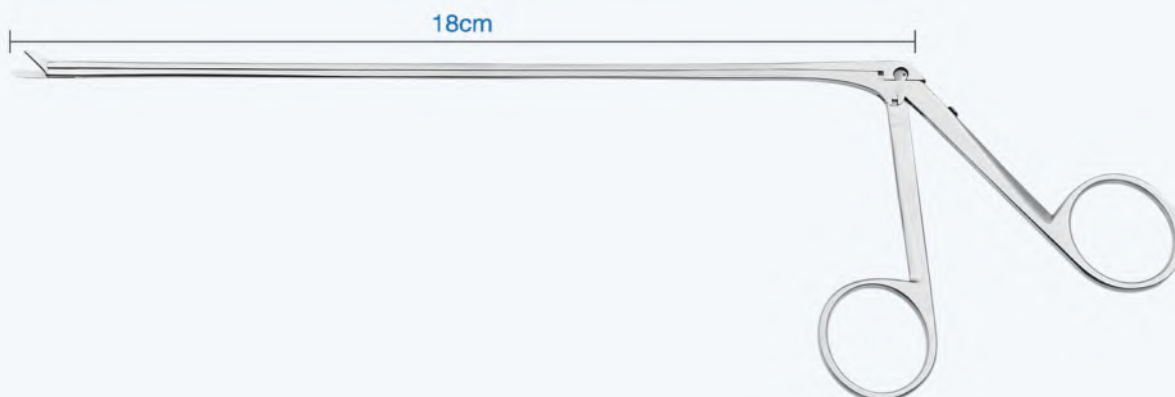
The product features

- ◆ German design, German materials, German technology and German manufacture.
- ◆ The fine tip and slender rod are innate for neuroendoscope.
- ◆ A variety of tip specifications are available for selection.
- ◆ Removable cleaning design, make cleaning easier, no dirt hiding.
Light, slender and flexible.



Light and Flexible





09A005
Nasal forceps straight
18cm, $\Phi 2.5$, str.

09A007
Nasal forceps straight
18cm, $\Phi 4$, str.



09E002
Nasal forceps left curved
18cm, $\Phi 2.5$, left cvd.

09F002
Nasal forceps right curved
18cm, $\Phi 2.5$, right cvd.



09C005
Nasal forceps up curved
18cm, $\Phi 2.5$, up cvd.

09C007
Nasal forceps up curved
18cm, $\Phi 4$, up cvd.



09B003
Nasal forceps straight, round tip
18cm, $\Phi 2.5$, sharp-blunt, str.



09D003
Nasal forceps up curved round tip
18cm, $\Phi 2.5$, up cvd.



13D001
Micro needle holder left curved
18cm, left cvd.

13D002
Micro needle holder right curved
18cm, right cvd.



12E003
Micro scissors straight
18cm, str.



12E004
Micro scissors up curved
18cm, up cvd.



09P002
Nasal pliers straight
18cm, 1, str.



Ring type, without blade, cvd.

16Z010
Φ3, 25cm

16Z002
Φ5, 25cm



Ring type, without blade

16Z011
Φ3, 25cm

16Z003
Φ5, 25cm



Ring type, without blade, cvd.

16Z012
Φ3, 25cm

16Z004
Φ5, 25cm



Ring type, without blade

16Z013
Φ3, 25cm

16Z005
Φ5, 25cm



Ring type, without blade, 90°

16Z014
Φ3, 25cm

16Z006
Φ5, 25cm



Hooks 90°

96B013
0.6 x 3, 25cm



Dissectors, cvd.

96B014
2.3, 25cm

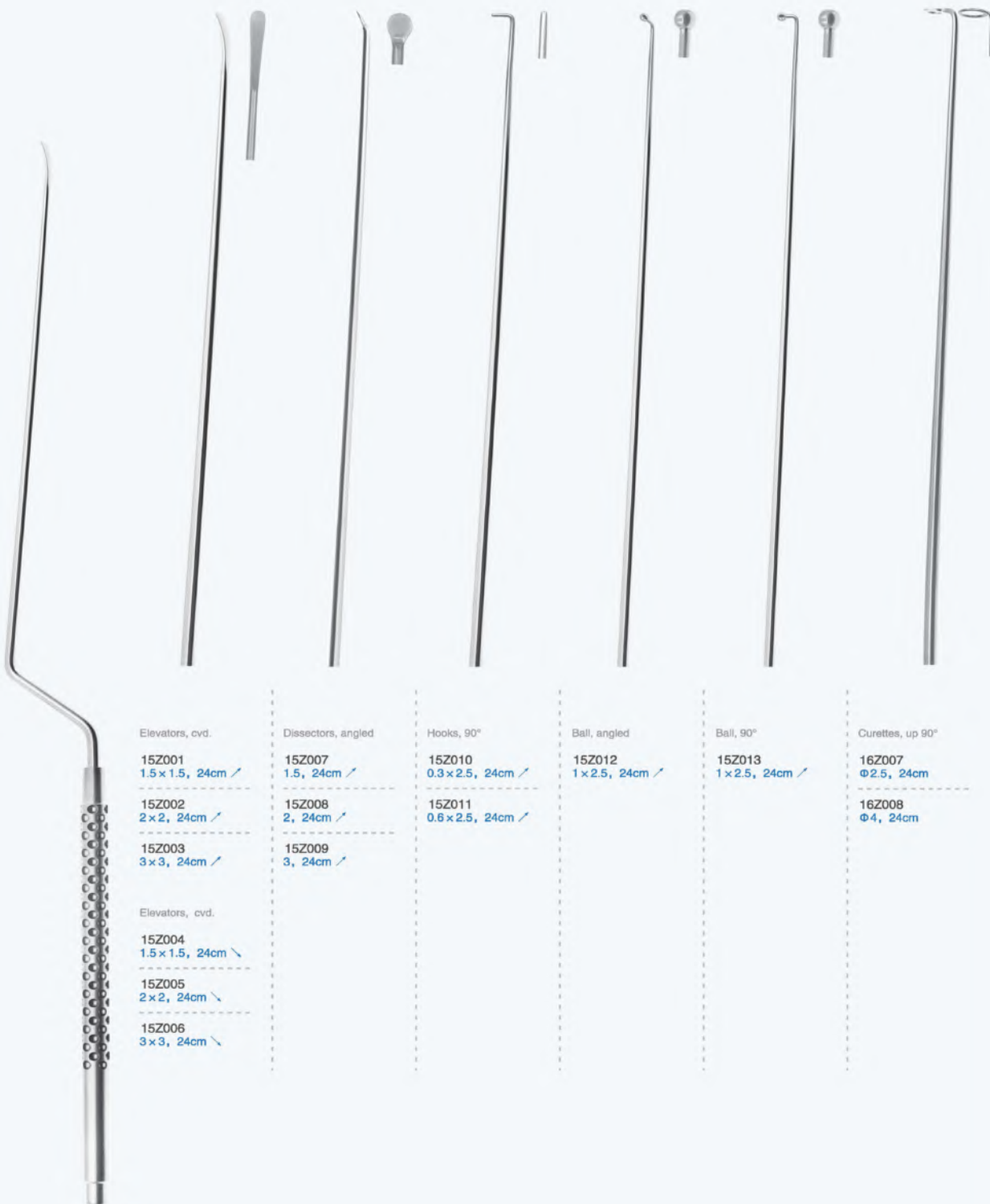


Elevators, cvd.

96B015
2 x 2.5, 25cm

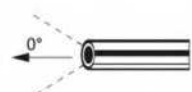


Micropituitary tumor instruments



Brain Micro Elevators / Pituitary Curettes

Ventriculoscopy Instruments



A. Connecting to TIANSONG light guide cable

Connecting to OLYMPUS light guide cable
Connecting to STORZ light guide cable



B. Connecting to WOLF light guide cable

C. Connecting to ACMI STRYKER light guide cable



N1101 Working cannula (21.9Fr)



Electrode 305mm

N3101 Hook
N3102 Blunt
N3103 Needle
N3104 Bipolar electric coagulator



N2101 Micro scissors, sharp

N2102 Micro scissors, blunt



N2103 Micro biopsy forceps



N2104 Micro grasping forceps

Endoscopy flexible forceps (Φ2×350mm)

HotryRoom Transsphenoidal Pituitary Tumor Instrument Set

Special Instrument Box

Description:
540mm×254mm×53mm, 316 stain-
less steel, with lit.



01

Microscopic Scrapping Spoon

Model: H - C0002R
Description: straight, rectangular curved ring, no edge, head end diameter 5mm, total length 24cm



02

Microscopic Scrapping Spoon

Model: H - C0001R
Description: straight, 50° annular, no edge, head end diameter 3mm, total length 24cm



03

Vertical Angle Nerve Hook

Model: H - H0001R
Description: straight, cylindrical head, upper right Angle bend, end 0.3mm x 2.5mm, length 24cm



04

Oblong Dissector

Model: H - D0002R
Description: straight, upper corner, diameter 2.3mm, length 24cm



05

Strip Dissector

Model: H - D0001R
Description: straight, bladed, 1.8mm wide, 14cm long, 24cm long

01



The Ring Grabs the Gun-like Nose Tissue in the Forceps

Model: 09A005
Description: wushuom



Ring gun Scissors

Model: 12E004
Description: upbend, working length 18cm, head end diameter 2.5mm



The Ring Grabs the Gun-like Nose Tissue in the Forceps

Model: 09 c003
Description: top curved pointed round head, working length 18cm, head end diameter 2.5mm



The Ring Grabs the Gun-like Nose Tissue in the Forceps

Model: 09 c005
Description: upper elbow, working length 18cm, head end diameter 2.5mm



02

Methods of Pliers
200mm / 130°
Description: head end width 1mm

03

HARDY Sella Vertebral Plate Rongeur

Model: 80-1340
Symmetry, original import. Length 178 mm, Angle 40 degrees upward, bite width 2 mm



Methods of pliers



80-1340



05

Plasticizer



绿色

Model: 06 a010
Specification: phi 2.5mm, working end length 18cm, total length 26cm, plastic type.



红色

Model: 06 a011
Phi 3.0mm, working end length of 18cm, total length of 26cm, plastic









黑色

Model: 06 a012
Specification: phi 3.5mm, working end length 18cm, total length 26cm,

Hotry Disposable Channel Tube



-  **Self-Locking Bootstrap And Expander**
 The product is connected to the expander by a spring lock, which is tight and reliable.
-  **Conical Overall Design**
 Provides binocular vision of the surgical site.
-  **Specification**
 Different specifications of products, can meet the needs of different operations.
-  **Specially Designed Guide Shape**
 Easy access to target organization and evenly distributed pressure.
 It can be done through the opening.
 Minimize tissue damage and rupture.
-  **Transparent Material**
 Improve the doctor's visibility into surrounding tissue
-  **Retractor Tube Oval Design**
 Distribute brain tissue evenly, avoiding retracting forces concentrated in one direction of brain tissue

COMPARATIVE ADVANTAGES

Surgery Using This Product

- The surgical site is fully exposed
- Evenly redistribute brain tissue and distribute pressure
- Visual effect, improve the doctor's field of vision
- Protect surrounding organizations

The Traditional Surgery

- Retraction is not sufficient, the surgical site is easy to block
- Stress concentration, with potential damage to the organization
- Surrounding tissues are covered by other surgical instruments or supplies
- There is a certain risk of surgical equipment directly contacting surrounding tissues during surgery



HOTRY New Shark Scissors Series

HOTRY New Shark Scissors Series

Combined with the concept of FUKUSHIMA and RHOTON, the new design selects seamless splicing of stainless steel + light titanium to ensure weight balance

Added "shark fin" bionic design, more stable grip and easy to deal with vascular disease and tumor surgery



Thin

High-grade steel can make the double-blade closed thickness of the scissors down to 0.3mm sharp and durable.



Stable

Shark fins provide subtle support for the index finger and thumb, making deep operation more comfortable and stable.



Tooth

The blades have different sized teeth. Guaranteed even cutting effect. The forcep tip is laser engraved with thin lines, which increases the grasping and tearing force under the premise of non-invasiveness.



Balance

The stainless steel and the titanium alloy are perfectly connected to balance the weight and ensure the strength and toughness of the working end, reducing the maintenance cost after the accidental damage of the head end.



HOTRY New Shark Scissors Series

Wide Mouth Powerful Shark Scissors

Model: HC-S-001/ST/180
Overall length 180mm, 6mm large opening, with 0.4mm fine teeth, blunt shape



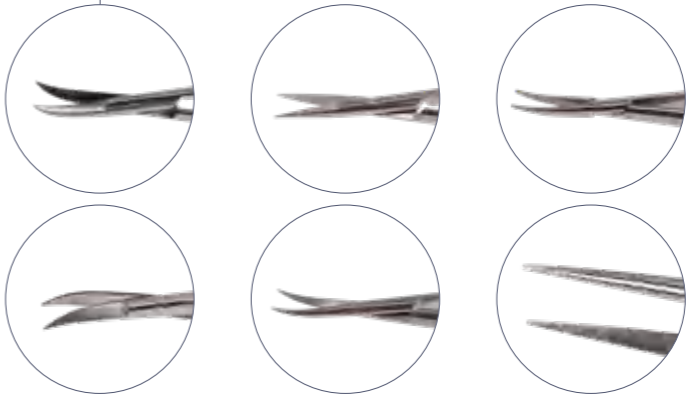
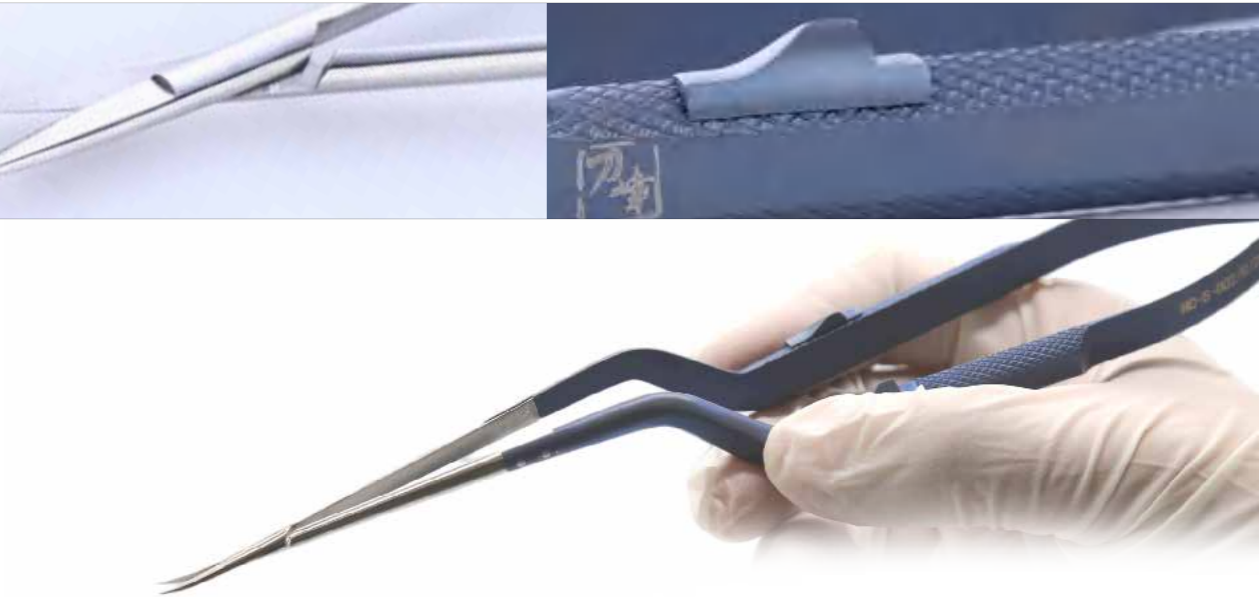
Specially designed for cutting hard tumors, blunt cutting is not easy to damage surrounding blood vessels and nerves

Shallow Shark Scissors (Right Curved)

Model: HC-S-002/SS/180
The total length is 180mm, the working distance is 16mm, the cutting edge has fine teeth at 2-4mm, it is not easy to hob when cutting, and the blade is thin 0.1-1mm



Bionic edge curved upwards/Can quickly divide the lateral fissure and anastomose the vascular orifice



HOTRY New Shark Scissors Series

Deep Shark Instrument



Deep Bayonet Shark Scissors (Left Curved)	Deep Bayonet Shark Scissors (Right Curved)	Deep Bayonet Shark Scissors (Straight)	Deep Bayonet Shark Scissors (Upward Bend)
HC-S-002/L/225	HC-S-002/R/225	HC-S-001/S/225	HC-S-001/U/225
HC-S-002/L/238	HC-S-002/R/238	HC-S-001/S/238	HC-S-001/U/238



Deep Bayonet Forcep

Model: HC-T-001/S/220
The total length is 220mm, the width of the head end is 0.6mm, the head is straight, with fine teeth, which is convenient for holding sutures, tissues and blood vessels.



Deep Bayonet Needle Holder

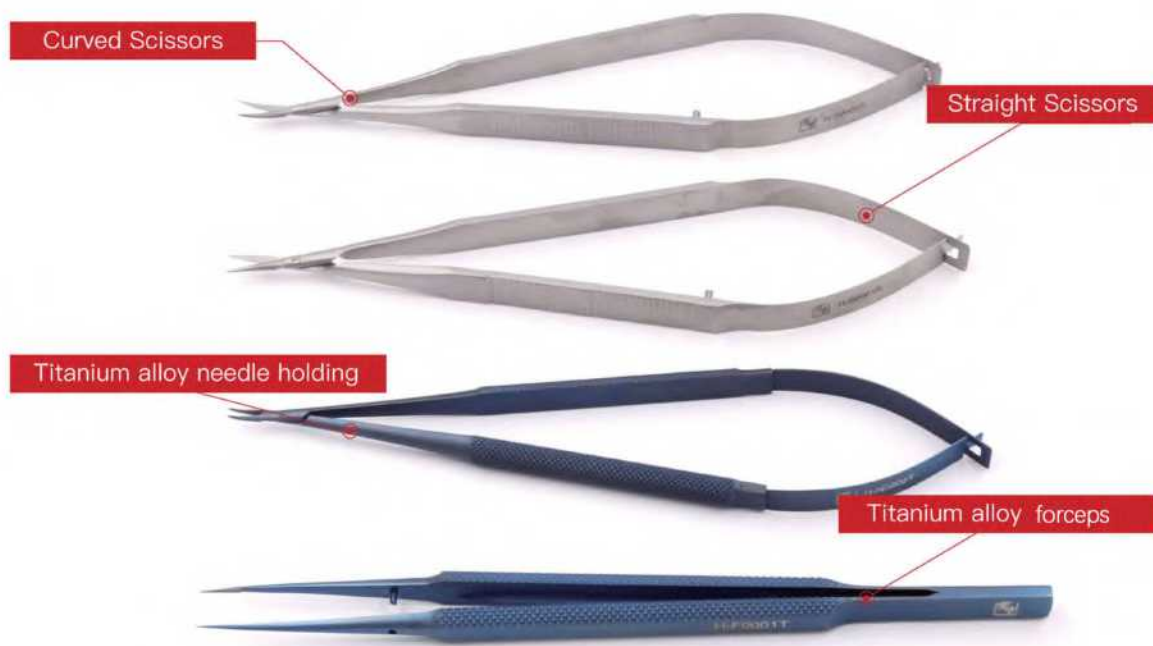
Model: HC-N-001/S/225
The total length is 225mm, the length of the tip is 12mm, and the needle is stable and firm.



Made of titanium alloy, precise and delicate choice.

INSTRUMENTS FOR MICRO-ANASTOMOSIS

03



Four-piece Anastomosis Instruments (shallow)

- » The four-piece set is 160mm long, two titanium alloys and two stainless steels.
- » The elastic pressure of all instruments is maintained at 75GMS, and the head end is accurate and not displaced.
- » Same as the actual surgical configuration, to meet the trimming and anastomosis of all shallow bypass vessels

Micro Instruments For Deep Using (Bayonet)



H-S0010T



H-S0011T

Micro bayonet Scissors (straight / curved)

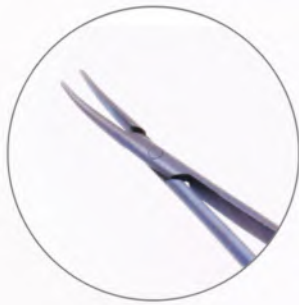
- » Titanium alloy full length 216mm, 75–85GMS constant pressure
- » Rhoton parallel design style, head opening 4mm
- » Perform a flat cut on the round handle. Ensure that the fingertip rotates the instrument while improving the tip pointing
- » Straight curved two deep scissors are non-magnetic, lightweight, never rust



H-N0010T

Micro Needle Holder (Bayonet)

- » Titanium alloy full length 216mm, 75–85GMS constant pressure
- » Rhoton parallel design style, unobstructed line of sight
- » Perform a flat cut on the round handle. Ensure that the fingertip rotates the instrument while improving the tip pointing



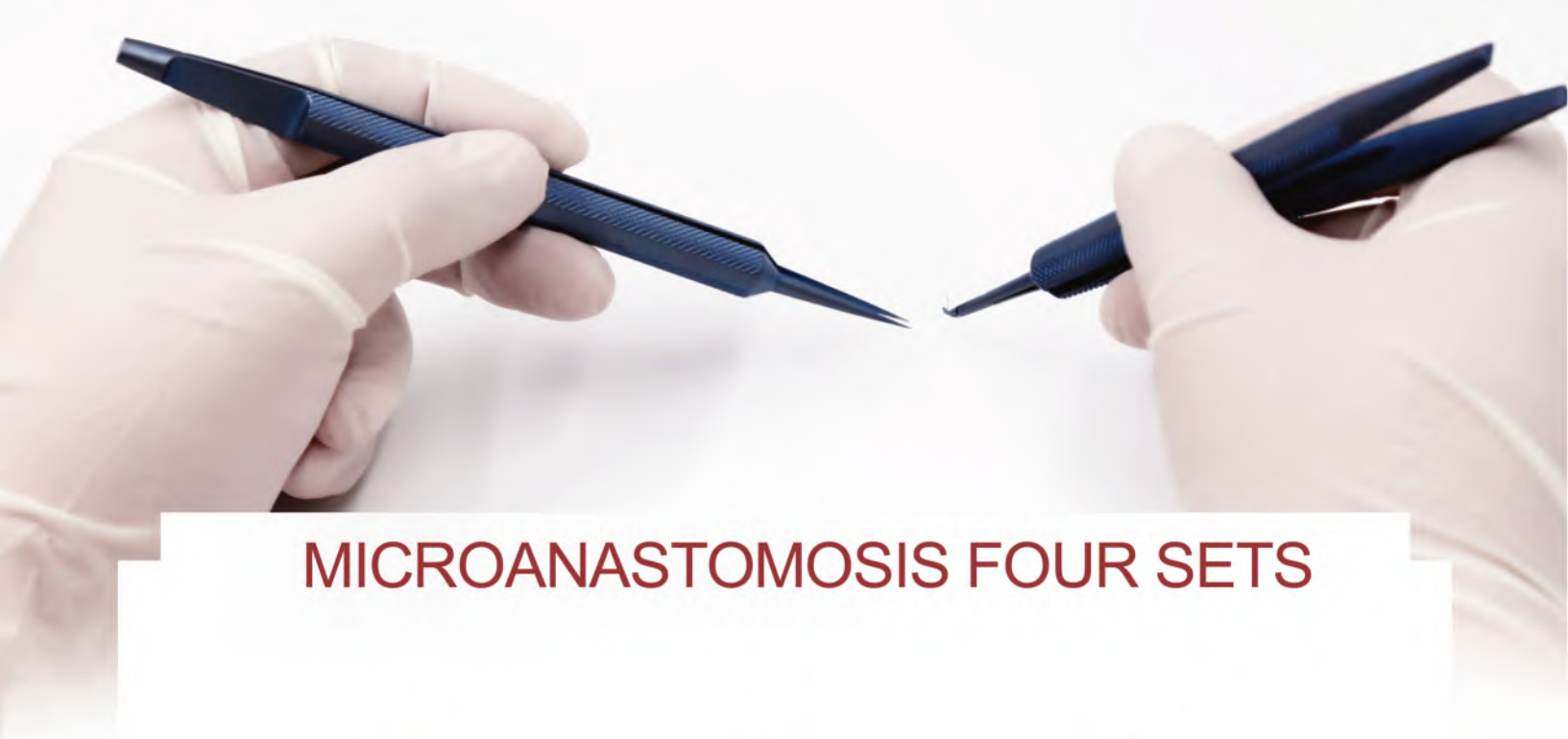
H-F001T



H-F002T

Micro forceps (straight/bent)

- » Length:190mm Matte titanium alloy
- » Headend:0.3mm Stable control suture
- » Flat cut on the round handle to ensure that the fingertip rotates the surgical instrument while improving the pointed direction



MICROANASTOMOSIS FOUR SETS



Avoid excess pressure

Reduce fatigue



Stable control

Fine control



Tip pressure increases

Eliminate line slip



150mm



0.3-0.4mm

Needle holder

model : 80-6621C

length : 150mm upward

Headend : 0.4mm

Round handle + control platform



Straight blade scissors

model : 80-6640C

length : 150mm Headend: 0.4mm

Round handle + control platform

Scissors (upward)

model : 80-6641C

length : 150mm Headend: 0.4mm

Round handle + control platform

Micro forceps

model : 80-6631C

length : 150mm

Headend: 0.3mm

Round handle + control platform



HOTRY QUICK RETRACTOR + HAND REST KIT

A QUICK SETTING UP RETRACTOR + HAND REST
FULFILLS MULTIPLE DEMANDS IN THE OPERATION OF THE NEUROSURGERY

Why do you need a hand rest ?

It can support your wrist anytime while providing stability and relaxation to your movements from back, shoulder, neck, hands to fingers. Keeping your hands and fingers flexible and stability to ensure the precision of operation. Prevent muscle tension and body stiffness while avoiding periartthritis of shoulder.





Simple & Versatile



Posture of simple hand rest



Pure exposure condition



Hand rest + retractor, versatile functions!

★ European flexible shaft converter is equipped in the package, and plug-in flexible shaft retractor is also compatible with.



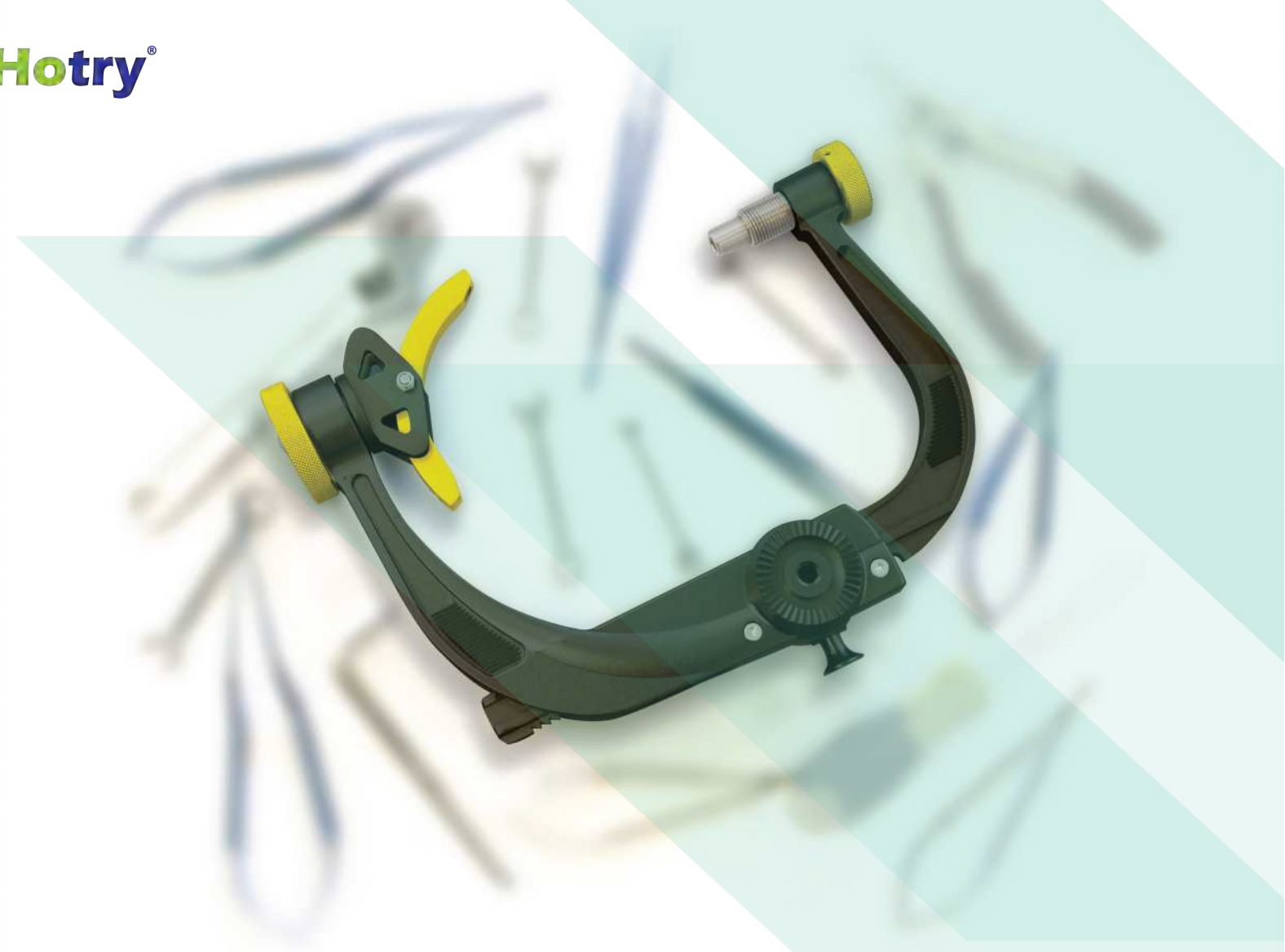
The golden partner of your operation

Hotry quick retractor • Hand rest kit

- ✓ Simplify, lightweight design deny complexity
- ✓ Universal c-arm interface is compatible with all head frames
- ✓ Operation random during the surgery being made in Hotry



Hotry®



Texture speaks for everything

Hotry Surgical head frame

HOTRY NEW PRODUCTS SERIES

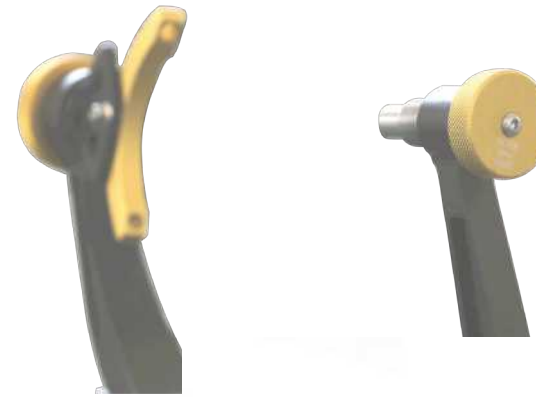
The basis of neurosurgery

Cardan shaft design

Brand new build

Controllabl e pressure

In a complex neurosurgery operation, the production device of fixed bone is available for selection and the operation is carried out smoothly. While fixing, this protects the position of the surgical body, which is the meaning of the surgical head frame.



Cardan shaft design

The cardan shaft design replaces the traditional universal ball design, which can make the overall support more stable while ensuring the original range of motion.

Brand new build

The high-performance aviation aluminum material is made intelligently, and its durability and overall strength are far beyond the traditional similar products made by the die-casting process.

Controllable pressure

The visualized operation of head nail compression can make the compression within a controllable range when the brain is fixed during the operation, reducing unnecessary risks.



Head nail compression handwheel
Head nail compression hand wheel with pressure scale, visual operation during the compression process, to ensure the safety of the operation



Head clip
The head nail clamping distance is from 12cm-24cm to adapt to the different needs of children and adults



Double nail seat fixed handwheel
Swivel at 60°, flexibly lock and release the sides of the two nails, and easily adjust the clamping angle



Universal regulator
Horizontal adjustment range: 360°
Good stability, suitable for intraoperative fine-tuning, durable, good corrosion resistance

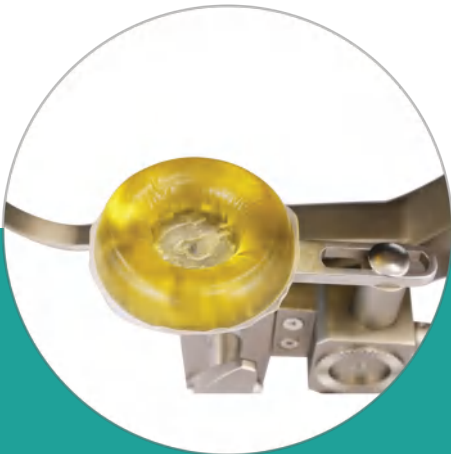
Explain everything with materials and textures



- Direct mining of German steel resources
- Made by famous factories
- Compatible with Doro

>>>>>>>>>>

Children's head frame



According to the different bone hardness of children, the head nail clip is changed to a gel head rest. Stable head support can still be provided in the prone or prone position. At the same time, the angle of the headrest can also be adjusted at multiple angles. The density of the gel and the human tissue are close to effectively reduce the pressure sore of the patient.

名称	数量	描述	图例
Surgical head frame	1	Imported high-performance aviation aluminum alloy material, ultra-lightweight, total weight ≤5.5kg. The outer surface is treated with anodic oxidation, matt and non-reflective, hard coating, corrosion-resistant and wear-resistant. The shaft length of the headstock base is 500mm, the maximum adjustable width of the plunger is 560mm, the forward and backward movement is 400mm, the left and right movement is 450mm, and the up and down movement is 850mm. Rotary universal joint shaft is standard, which can be adjusted by 360°rotation. Three-top fixed. A set of adult head nails, a set of children's head nails, and a set of polymer gel head holders are standard. CE certification, EU EN ISO certification.	
Connect the base	1	The standard diameter of the bed plunger is 14mm. In addition, 12mm, 16mm, 18mm, 20mm and other sizes are available, which are suitable for different styles of operating beds. The maximum distance between the two pins is 56cm. Connect the base to quickly tighten the wrench, and easily lock the base and the connecting shaft joint.	
Rotary cardan shaft	1	Adjustment range: 360°. Good stability, suitable for intraoperative fine-tuning. Durable coating, good corrosion resistance.	
U-shaped arm	1	With pressure scale, maximum pressure value: 360N/80LBS. Adjust the pressure through the jacking handwheel. The head nail clamping distance is 12-24cm, suitable for adults and children. The screwing range of the quick lock handwheel is 60°, with a quick lock function.	
Adult nail	1	A set of three. reusable. Stainless steel material.	
Children nails	1	A set of three. reusable. Stainless steel material.	
Head rest	1	Blue polymer material. The left and right head pads can be adjusted for exercises, suitable for adults and children.	

Hotry®

Hotry®
4 life in surgery



More stable retractor system ►

Hotry new quick retractor & Hand rest Kit



One lock three structure, the new four-link universal arm system can help the surgeon quickly find the best surgical position. And can quickly change the form according to the needs of different body positions



Rich and flexible combination, you can match the required configuration in different forms according to your own needs.



The hotry retractor is combined with the hotry headgear system, a perfect combination to assist in microsurgery.



“ A set of surgical retraction system that can meet the rapid changes in surgery. ”



Multi-directional adjustable support arm

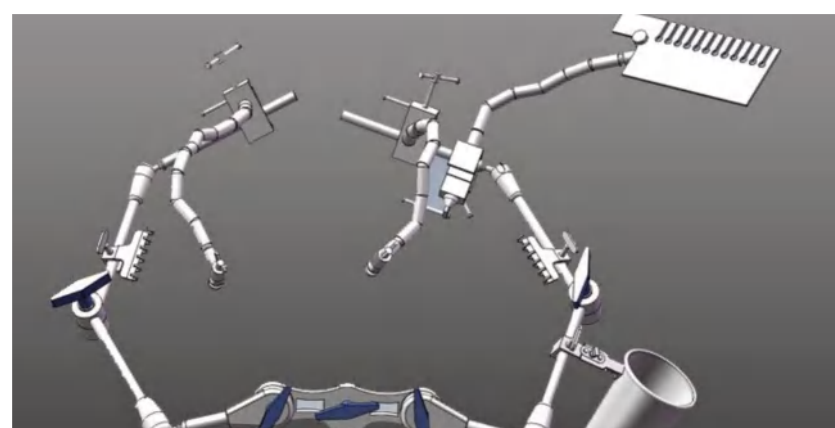


Flexible shaft retractor



Fixed expansion connector

- Stable surrounding structure with both arms to construct hotry headstock retracting system
- One control and three lock design, easy and fast control
- Rich module configuration



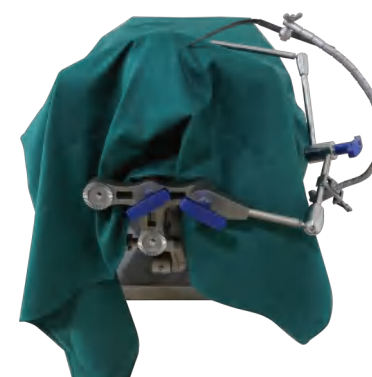
Multiple combinations:

It can be applied to different postures of neurosurgery microsurgery, and the shape of the flexible shaft retractor can be adjusted according to the surgical posture.

Recommended package A: Single support arm hand rest form.



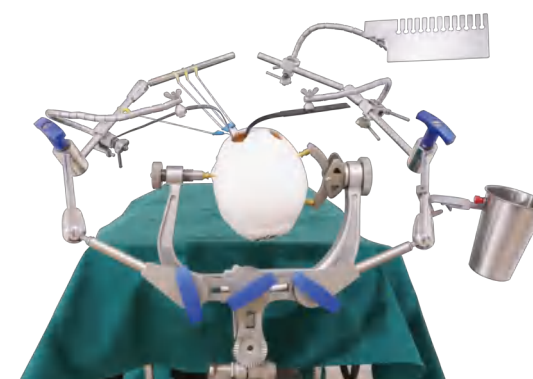
Recommended package B: single support arm + retracted form



Recommended package B: single support arm + retracted form



Recommended package C: double support arms on the same side + retracted form



Recommended package B: single support arm + retracted form



Recommended package D: double support arm opposite side retraction + hand rest form

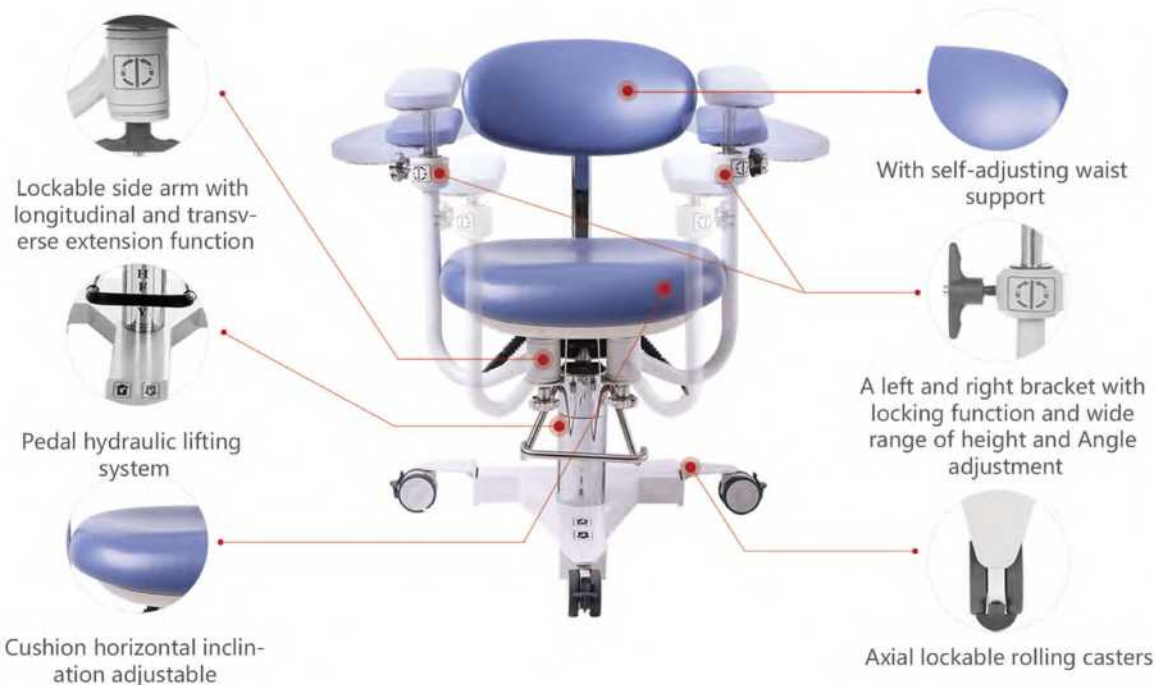


MICROSURGICAL CHAIR



Microsurgical requirements
Endoscopic surgery is exclusive

- ✓ The need of operation under microscope in all departments
- ✓ Relieve the neck and shoulder pain caused by the long operation, eliminate the shaking of the arms and so on
- ✓ Adverse effects on surgery
- ✓ Improve the control ability of the surgeon for precise operation



Product Standard

Back of a chair diameter: 180×330mm
Sit face diameter: 380×450mm
Chassis diameter: 520×590mm
Side arm bracket: 80×320mm
Stroke height: 480~620mm
Lift way: Pedal hydraulic
maximum load bearing: 200Kg
Seat the net weight: 20Kg

ANEURYSM

ANEURYSM
Classic aneurysm set
Hottry®



Standard configuration



Deep gun shark tweezers (straight), total length 220mm, working length 90mm. The handle is made of titanium alloy and the working end is made of stainless steel.



Deep gun shark scissors (standard, straight), total length 225mm, working length 90mm. The handle is made of titanium alloy and the working end is made of stainless steel.



Deep gun shark scissors (up bend), total length 225mm, working length 90mm. The handle is made of titanium alloy and the working end is made of stainless steel.



Shallow shark scissors (right bend), total length 180mm, working length 75mm.



Aspirator, straight down bending, diameter 1.5mm, working end length 150mm, total length 230mm. With Fukushima drip port, integrated flushing and suction



Aspirator, straight down bending, diameter 2mm, working end length 150mm, total length 230mm. With the Fukushima drip port, the flushing and suction are integrated.



RHOTON Micro Peeler, teardrop tip, 40°, tip length 8mm, overall length 19cm, made of titanium alloy, knurled handle with flush cut



RHOTON micro-peeler, disc-shaped tip, tip diameter 2.3mm, total length 19cm, made of titanium alloy, knurled handle with flat cut



RHOTON micro-peeler, blade-shaped tip, tip width 1.1mm, length 19cm, made of titanium alloy, knurled handle with flat cut



RHOTON Micro Peeler, Teardrop Tip, Straight, Overall Length 19cm, Titanium Alloy, Knurled Handle With Flat Cut

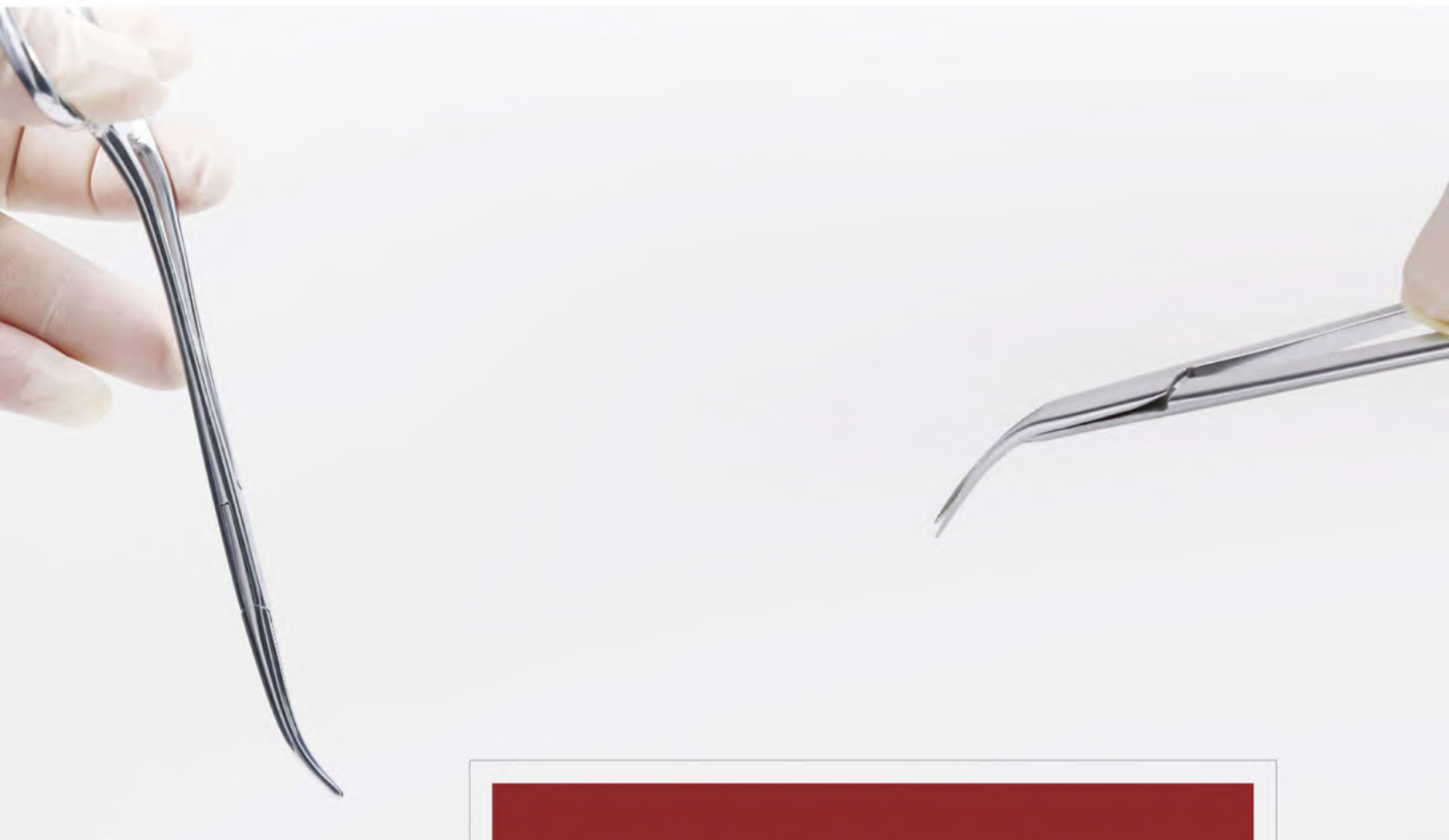
Option configuration



Universal aneurysm clip applier (Standard & Mini)



Fine deep bipolar tweezers, 0.3mm short tip, used for fine manipulation of deep, peripheral brainstem and other important areas



HOTRY CEA

HOTRY(Carotid Endarterectomy) KIT

www.hotryneuro.com

HOTRY CEA KIT

//

The special design exposes the carotid completely.

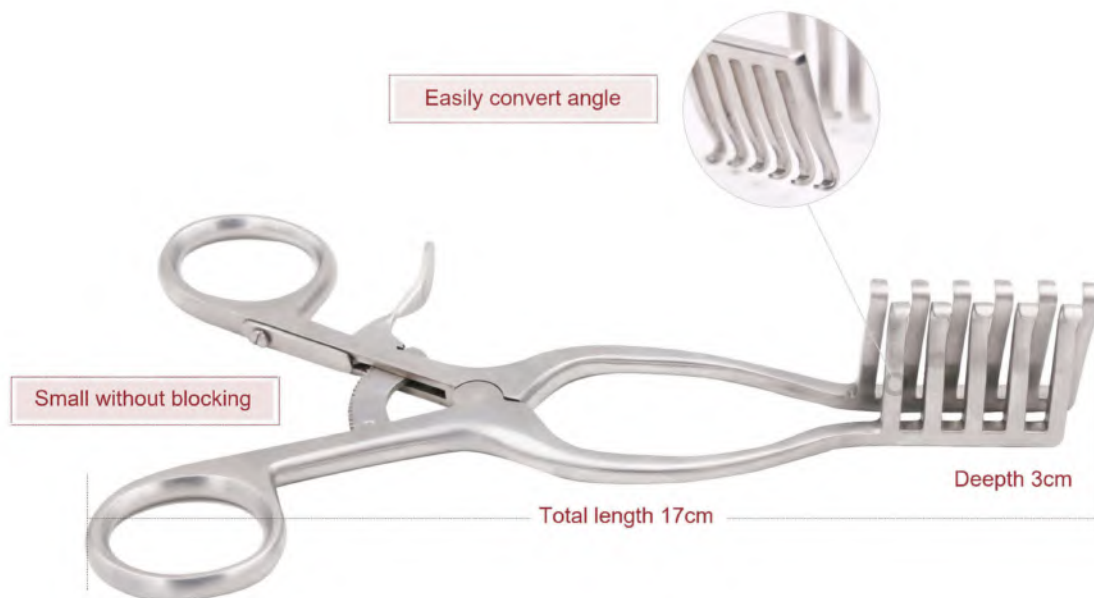
Be fit for all various CEA surgical exposure, makes the CEA faster, easier, refined and reliable, reducing the dependence on assistants.

High efficiency and refine CEA from now begin.

01 One

CEA Special Wide Retractor

Description: Length:17cm, WL:10cm, open:8.5cm, 5X6teeth, width:3.3cm/4.1cm, depth:3cm, blunt



02 Two

Dissecting Knot Clamp

Description: length:16cm, curved, 5mm tip serrated, knot platform joined.



Total length 16cm

Tip 5mm

Knot platform next to the teeth



///

Detach, pull up the tissue, wear halter belt, suture knot in multi-purpose.

The separation of neck muscles such as digastric muscle is more labor-saving and stable than conventional spring forceps

CEA up-down angle Scissors (Tissue Scissors)

Description : special for CEA, length:18cm, angle 50°, blade 15mm.

Function: vascular side cut, tangent and plaque detachment.



///

Ergonomics design, the surgeons sit by the microscope, more naturely and fluently without wrist over rotation.



04 Four

CEA secure curette

Description: length:19cm, leaf tip, tip:2.7mmX4.6mm, half sharpness



///

Handle combined within flat and round,
both good at directivity and rotation.
Special tip design of back arc, avoiding
hurt of vascular wall.

Sharp Mayo Dissecting Scissors/Sharp Dissecting Scissors

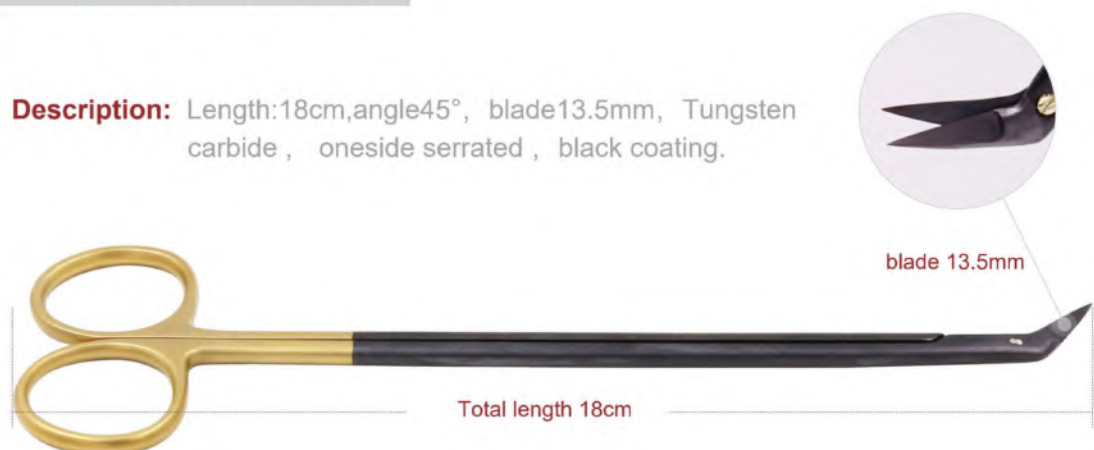
Sharp Mayo dissecting Scissors

Description: Length:18cm, curved, Tungsten carbide , oneside serrated , black coating.



Sharp dissecting Scissors

Description: Length:18cm, angle 45°, blade 13.5mm, Tungsten carbide , oneside serrated , black coating.



06 Six

Debakey Micro Forceps/Sharp Micro Scissors

Debakey Micro forceps

Description: Length:18cm, curved, Tungsten carbide, oneside serrated, black coating.



Sharp Micro Scissors

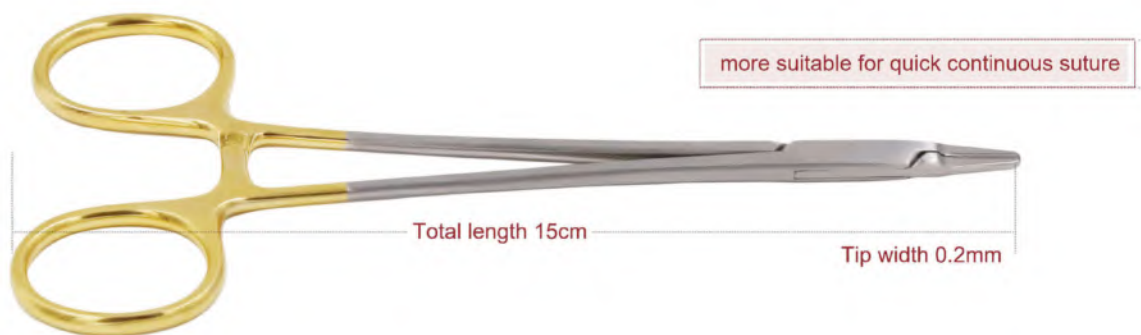
Description: length:18cm,straight, blade10mm, open 4mm, black coating.



Needle Holder with Ring Handle /Double-end Curette

needle holder with ring handle

Description: Length:15cm, tip width 0.2mm, Tungsten carbide , for5-0, 6-0, 7-0 suture



Double-end curette

Description: length:19cm, double-end curved, ovale, tip width:4mm/2.5mm, half sharp.



08 Eight

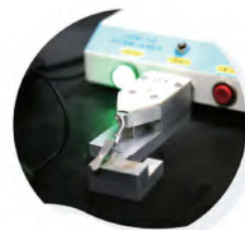
Cervical Aortic Clamp

Description: length:16cm, Debakey serrated, 1X2teeth, angle60°, tip depth: 3.5cm curved.



Hemostatic Clips

* This set consists of 22 pieces



Strict quality control

The strict clamping force test ensure the quality of product



Brand New DEBAKEY tooth design

1×2 tooth can be used to effectively close the vessels without damage and block bleeding



Exclusive set package

New design package, hold the new microscopic hemostatic clip completely



①. Close the handle and keep pressing



②. Press the detach button with the thumb and keep pressing





③. Loosen the handle and the detach button at same time to make the positioning pin return within the spring power



④. Remove the upper cover plate by lifting it to the outside, then finish detaching.

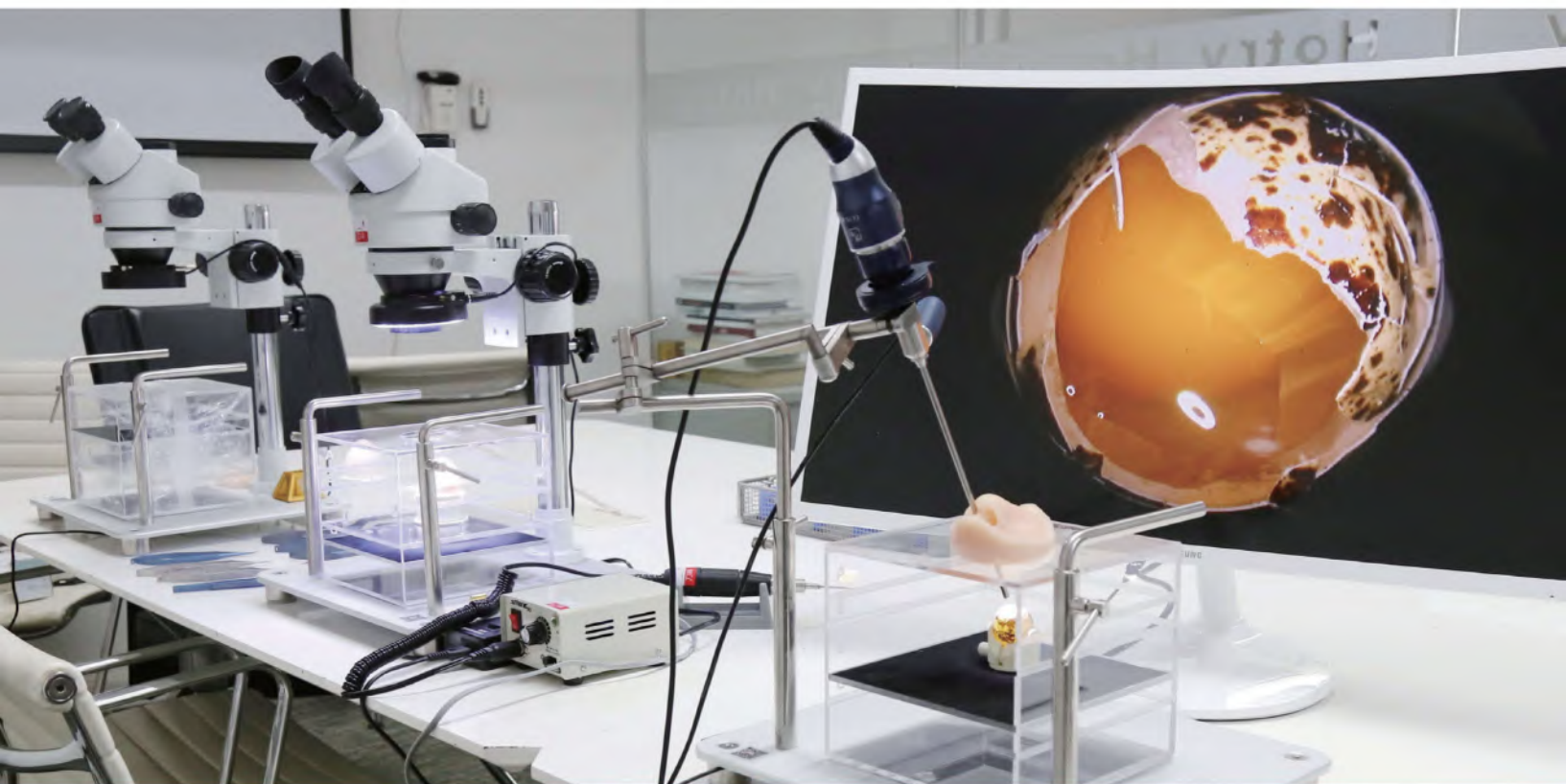
[diagram of disassembly operation]

	△ h 1	△ h 2	△ h 2.5	△ h 3	△ h 4
200mm / 90°	34A028	34A030	/	34A032	34A034
230mm / 90°	34A055	34A057	34A058	34A059	34A061

	△ h 1	△ h 2	△ h 2.5	△ h 3	△ h 4
180mm / 130°	34A019	34A021	/	34A023	34A025
200mm / 130°	34A046	34A048	/	34A050	34A052
230mm / 130°	34A073	34A075	34A076	34A077	34A079

* this mark indicates that extra orders are required for non-reserve specifications, and another automatic product is available for purchase

Laminectomy Punch



Beijing · China

Hotry Microdissection Laboratory Program

www.hotryneuro.com

Hotry Makes it Easy And Quick to Set Up A Personalized Microscopy Laboratory

Flexible Space, Rich Feature Configuration



Anastomosis



Endoscopic
Operation



Specimen
Anatomy



Electric
Power

Meet the construction needs of your micro-laboratory with high-quality training packages and ultra-high performance.

Satisfactory microscopic experimental training space can be customized from the office area to the professional micro-laboratory.

MICROSCOPIC ANASTOMOSIS TRAINER

01



Integrated design, ultra-small space



7-45x trinocular stereo microscope



16 million high-definition screen output supports photo recording



Different depth training simulation space



360 degree hand rest system with bacteria-free base



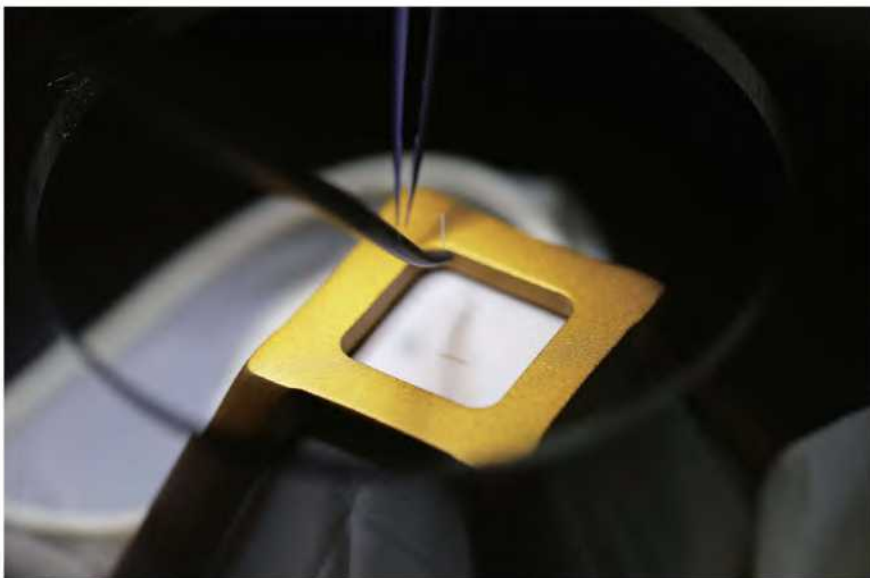
Support all training modules and mouse hens

MICROSCOPIC ANASTOMOSIS TRAINER Module

02

Gauze Glove Fixing Ring

Quickly fix with gauze and perform fast gauze knotting and untie training under the microscope.



Anastomosis Training Pyramid

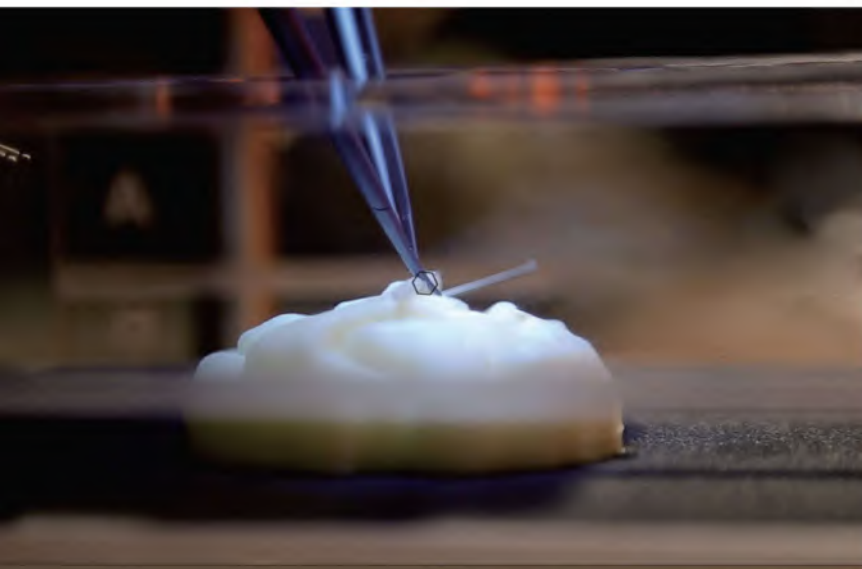
Using the planes of the five different slopes with the pyramid to carry out the training of the glove skin, master the advanced microscopic anastomosis training at different depths.

Microscopic Simulated Vascular Anastomosis Training

Simulated Blood Vessels Tray

Directly simulate the vascular anastomosis by placing the microscopic simulated vascular card in the simulated space of the HOTRY trainer.

A card can be reused multiple times while performing end-to-end, end-side, and side-to-side anastomosis training.



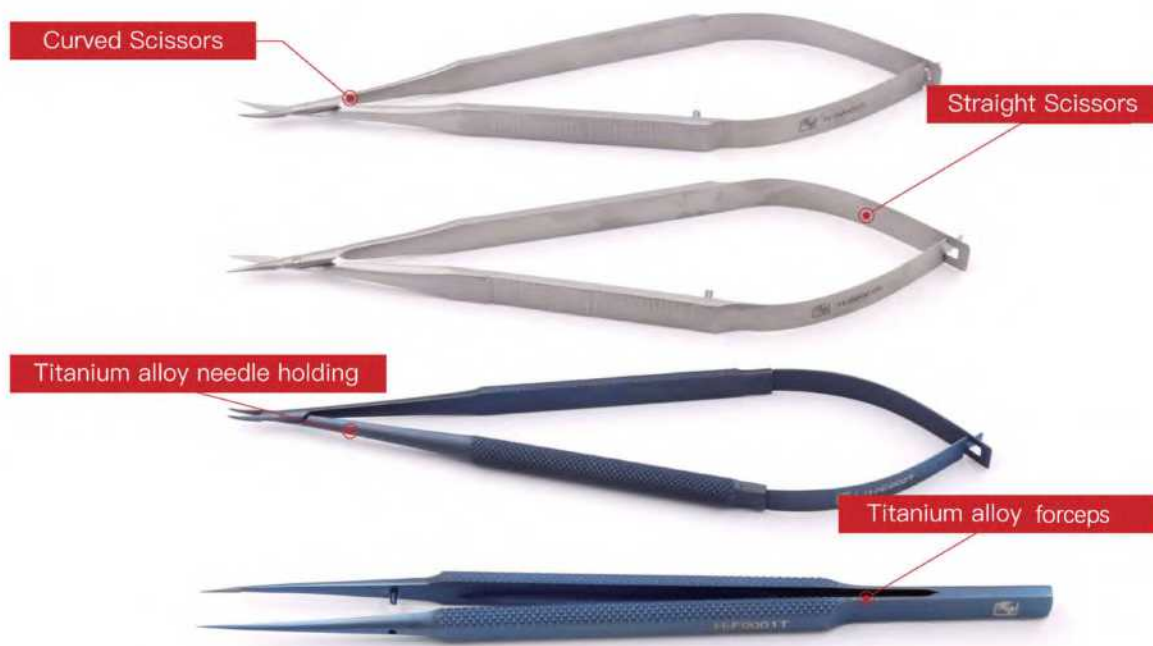
Simulated Vascular Anastomosis Training Pedestal

The simulated blood vessel is taken out in the base of the brain parenchyma, and after placing the blood vessel clip, a more realistic microscopic experience begins.

Made of titanium alloy, precise and delicate choice.

INSTRUMENTS FOR MICRO-ANASTOMOSIS

03



Four-piece Anastomosis Instruments (shallow)

- » The four-piece set is 160mm long, two titanium alloys and two stainless steels.
- » The elastic pressure of all instruments is maintained at 75GMS, and the head end is accurate and not displaced.
- » Same as the actual surgical configuration, to meet the trimming and anastomosis of all shallow bypass vessels

Micro Instruments For Deep Using (Bayonet)



H-S0010T



H-S0011T

Micro bayonet Scissors (straight / curved)

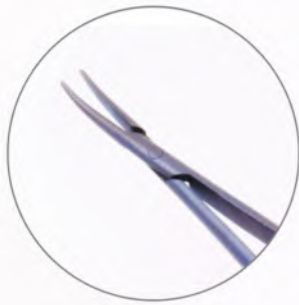
- » Titanium alloy full length 216mm, 75–85GMS constant pressure
- » Rhoton parallel design style, head opening 4mm
- » Perform a flat cut on the round handle. Ensure that the fingertip rotates the instrument while improving the tip pointing
- » Straight curved two deep scissors are non-magnetic, lightweight, never rust



H-N0010T

Micro Needle Holder (Bayonet)

- » Titanium alloy full length 216mm, 75–85GMS constant pressure
- » Rhoton parallel design style, unobstructed line of sight
- » Perform a flat cut on the round handle. Ensure that the fingertip rotates the instrument while improving the tip pointing



H-F001T



H-F002T

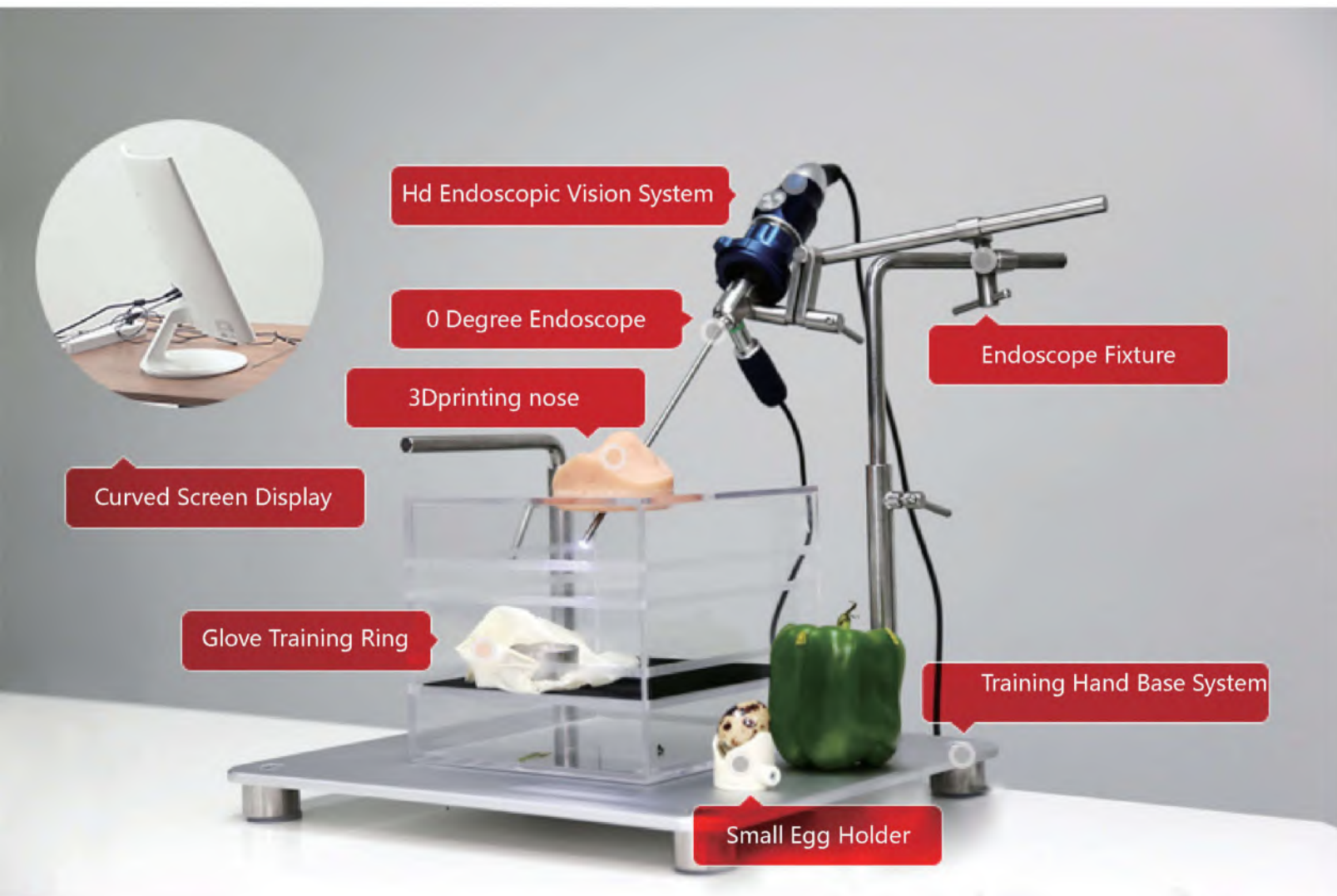
Micro forceps (straight/bent)

- » Length:190mm Matte titanium alloy
- » Headend:0.3mm Stable control suture
- » Flat cut on the round handle to ensure that the fingertip rotates the surgical instrument while improving the pointed direction



Through the methods of exploration, grasping, cutting, anatomy, etc., the spatial sense of the trainer under the butterfly surgery can be established. In the high simulation state, the hand-eye coordination ability and the instrument control skill under the digital vision can be quickly grasped. The flagship version will cooperate with the KEYHOLE lock. The training significance of hole surgery.

Neuronendoscope Trainer Instruments



Endoscopic transsphenoidal training recommendation method

Green Pepper Catching Seed Training

Recommended Reason:

Training consumables are easily available, and the natural environment and green pepper seeds do not need to be prepared.

Practice the direction and manipulation of the instrument in space. Master the endoscope field of view and the visual field of the instrument.



Small Egg Scraping Training

Recommended Reason:

Quail eggs are easy to obtain and mimic the internal environment of the tumor.

Instrument manipulation in fine tumor treatment, spatial sense and fine surgical mind control.



Endoscopic Chicken Wing Anatomy

Recommended Reason:

Can be polished under the microscope, specimen anatomy operation and other training.



Keyhole Training (with two hands)

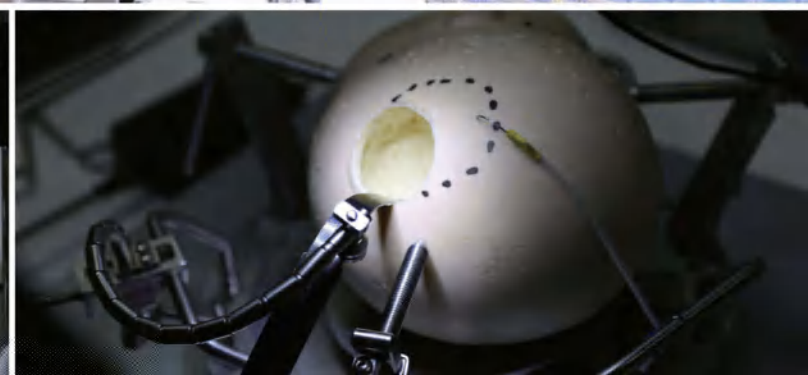
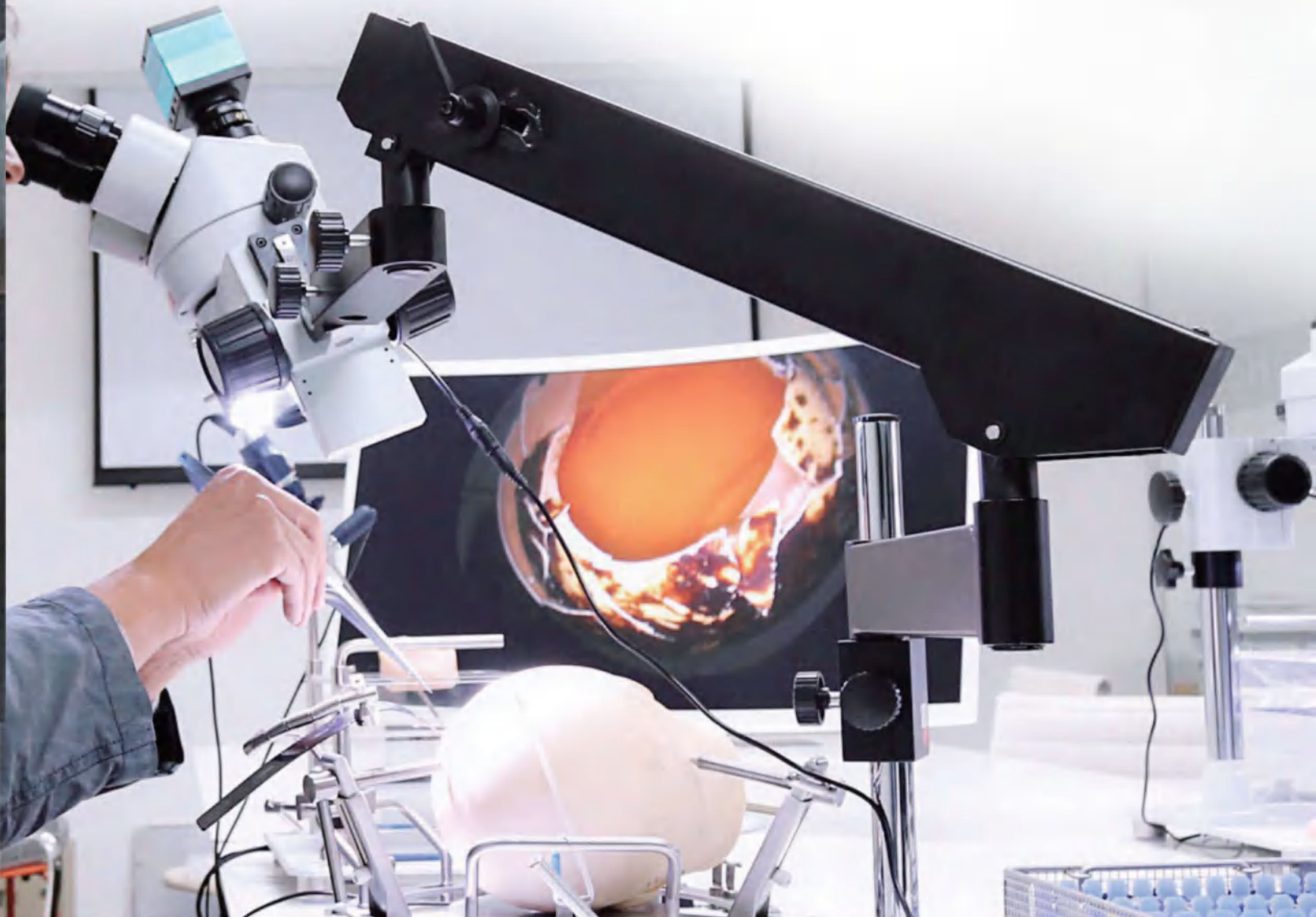


On the basis of the classic version, the endoscope fixing device and the hand-holding system are added. The trainer can not only perform the training of the butterfly technique, but also can perform the double-device operation training (matching) through the fixed endoscope to improve the difficulty and training effect. Great help in mastering keyhole surgery techniques.

Hotry Specimen Anatomical Console

Integrated specimen control + rocker training microscope system for rapid microscopic specimen anatomy

- » Easily fix and freely control specimen rotation & tilt angle
- » Can be combined with the hotry rocker microscope integrated specimen micromanipulation
- » The supporting bottom plate can be used for biological anatomy such as laboratory rats
- » The specimen console is equipped with a full set of fixtures and components for easy access to the hook and the flexible shaft.



Power Training Module



HOTRY Training Power System

- » 35,000 rpm
- » Power 65W Maximum torque 280gf-cm
- » Handle weight: 200g
- » Pedal & manual dual mode
- » Ultra low noise mini motor

The eggs will be fixed on the matching Holder, and the eggshell training will be carried out and the micro-dynamic training of the egg yolk will be obtained after grinding with the equipment.

PartTwo

HOTRY RECOMMENDED SUPPORTING GUIDE

MINI SET 01

Micro-laboratory training programs are easily carried out without being bound by the environment.

Ultra-small space, microscopic anastomosis training, endoscopic training, and dynamic training are simultaneously turned on!



Microscopic Training Anastomosis Module

Name	Quantity
Microscopic Anastomosis Trainer	2
Four-piece Anastomosis Instruments (shallow)	2
Microscopic Instruments For Deep Using	1
Gauze, Glove Fixing Ring	1
Anastomosis Training Pyramid	1
Simulated Blood Vessels Tray	10
Microscopic Training Suture (10-packs)	30
Simulated Vascular Anastomosis Training Pedestal	2

Endoscopic Training Module

Name	Quantity
Endoscope Products	1
Five-piece Endoscope Training Instruments	1
Super clear Samsung original curved screen	1
Independent Trainer	1
Training egg holder	1

Small Power Training Module

Name	Quantity
Training Small Power Set	1

The above is the recommended package, which can be customized according to the needs of the department.

Recommended number of people: 3-5 people

STANDARD MICROSCOPE LABORATORY SET

02

Long-term training and use of laboratory training classes and other requirements, micro-anastomosis, endoscopic training, power-rich training configuration

Microscopic Training Anastomosis Module

Name	Quantity
Microscopic Anastomosis Trainer	4
Four-piece Anastomosis Instruments (shallow)	4
Microscopic Instruments For Deep Using	2
Gauze, Glove Fixing Ring	2
Anastomosis Training Pyramid	2
Simulated Blood Vessels Tray	20
Microscopic Training Suture (10-packs)	60
Simulated Vascular Anastomosis Training Pedestal	2



Endoscopic Training Module

Name	Quantity
Endoscope Products	2
Five-piece Endoscope Training Instruments	2
Super clear Samsung original curved screen	2
Independent Trainer	2

Small Power Training Module

Name	Quantity
Training Small Power Set	2

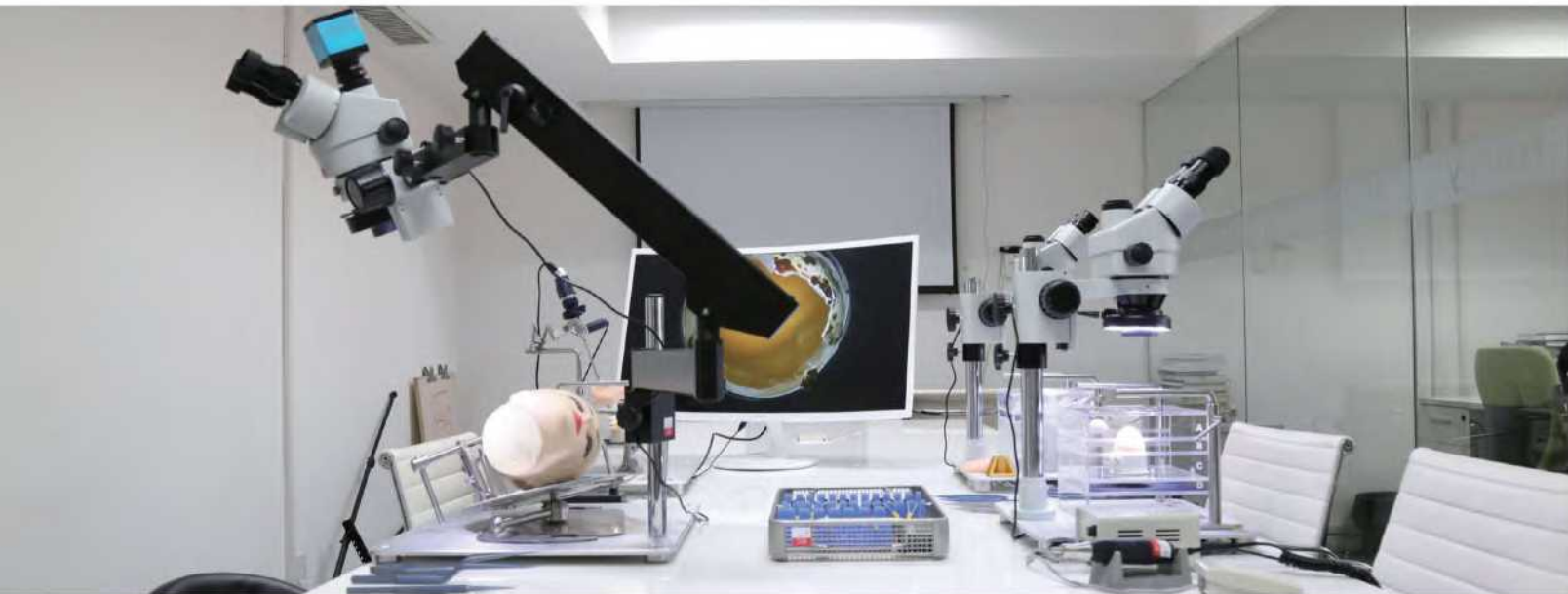
The above is the recommended package, which can be customized according to the needs of the department.

Recommended number of people: about 10 people

MICRO + ANATOMY LAB PACKAGE

03

Strong and strong combination: micro-laboratory complete product portfolio + specimen anatomy laboratory support. The most comprehensive HOTRY microdissection laboratory



Microscopic Training Anastomosis Module

Name	Quantity
Microscopic Anastomosis Trainer	4
Four-piece Anastomosis Instruments (shallow)	4
Microscopic Instruments For Deep Using	2
Gauze, Glove Fixing Ring	2
Anastomosis Training Pyramid	2
Simulated Blood Vessels Tray	20
Microscopic Training Suture (10-packs)	60
Simulated Vascular Anastomosis Training Pedestal	4

Anatomy Laboratory Module

Name	Quantity
Microscope version of the specimen console (mirror + frame + unit integrated)	2

Small Power Training Module

Name	Quantity
Training Small Power Set	2

Endoscopic Training Module

Name	Quantity
Endoscope Products	2
Five-piece Endoscope Training Instruments	2
Super clear Samsung original curved screen	2
Independent Trainer	2

The above is the recommended package, which can be customized according to the needs of the department.

Recommended number of people: about 10 people

Part**Three**

HOTRY TRAINING MODULE SUP- PORTING CASE

Hotry Training Module Supporting Case Show



01

Beijing Salon





02

Xuanwu Hospital Laboratory



03

Tiantan Peking University International Training Course









Hotry Personalized Micro Laboratory Customized Service

Contact hotry Lab Manager, we will design the hotry Lab product configuration that your department/labor needs to be compatible with the space environment.

And help you build the ideal rich training capabilities in any environment.

Hotry Experiment Housekeeper

Mobile: +86 15600753360

E-mail: hotrypeak@gmail.com

www.hotryneuro.com

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