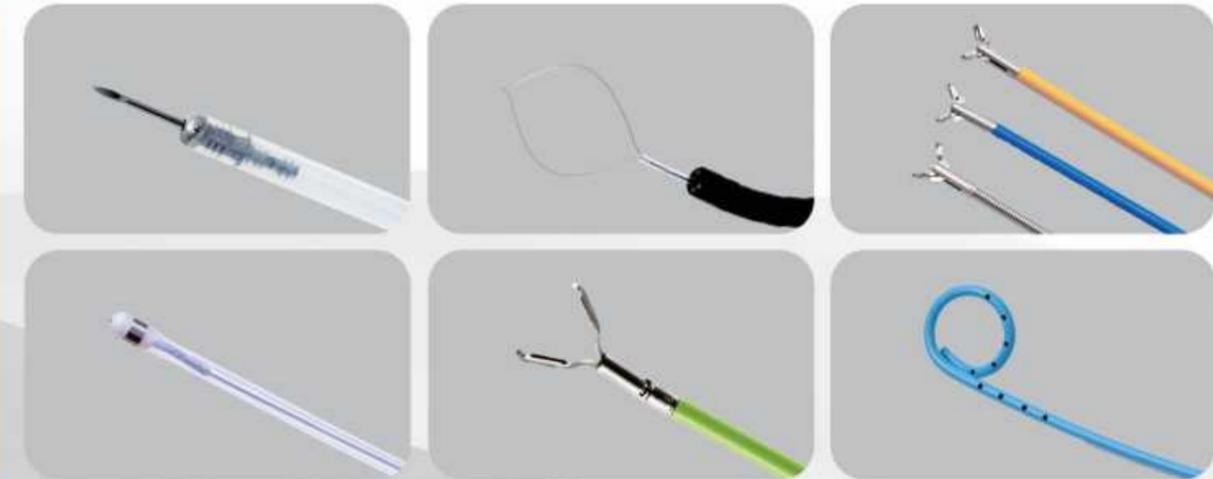


Professional manufacturer of endoscopic surgical instruments



ENDOSCOPIC MINIMALLY » INVASIVE INSTRUMENTS



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INTRODUCTION COMPANY

Jiangxi ZhuoRuiHua Medical Instrument Co., Ltd., established in 2018, is rooted in Xiajiang County, Ji'an City, Jiangxi Province. It is committed to the R&D, production, and sales of endoscopic minimally invasive surgical instruments, and is a modern enterprise that integrates innovation and efficiency.

The company adheres to the core concept of "serving the clinical practice with technology and innovation". Through years of unremitting efforts and innovative development, it has gradually built a rich and complete digestive diagnosis and treatment product line, which accurately meets the diversified clinical needs in the field of gastrointestinal endoscopy diagnosis and treatment. The company has launched a rich and diverse series of minimally invasive instruments for digestive endoscopy, including ES-D/EMR series: polypectomy snare, injection needle, hemostasis clip, hot biopsy forceps, spray catheter, sphincterotome and submucosal dissection Knife, etc. ERCP series: digestive guide wire, stone retrieval basket, digestive dilation balloon and nasal biliary drainage catheter. Basic diagnosis and treatment series: biopsy forceps and cytology brush, etc. In the urology field, the company has also launched products such as ureteral access sheaths, ureteral stent kits, non-vascular lumen guide wires (such as zebra guide wires, loach guide wires), urinary stone retrieval baskets and urinary dilation balloons.

As of now, the company has successfully obtained 5 invention patents and more than 20 utility model patents at domestic and abroad, and has been awarded the honorary title of National High-tech Enterprise. In the domestic market, the company has obtained 3 registration certificates for Class III medical devices and 12 registration certificates for Class II medical devices, and the products are popular in more than 500 hospitals nationwide, receiving high praise from users. At the same time, multiple products of the company have been approved by the US FDA and certified by the EU MDR CE. The products are exported to more than 20 countries and regions such as South Korea, Germany, Vietnam, and Russia.

With the concept of sustained focus and continuous innovation, ZhuoRuiHua (ZRH) will be committed to providing customers with more competitive and creative clinical surgical solutions and better services, striving to become the world's leading endoscopic diagnostic and treatment solutions supplier, and contributing more to human health.



CATALOG

01 ESD/EMR series:

- 01 Disposable Polypectomy Hot Snare
- 03 Disposable Injection Needle
- 05 Disposable Hemostatic Clip
- 07 Disposable Polypectomy Cold Snare
- 08 Disposable Hot Biopsy Forceps
- 09 Disposable Endoscopic Submucosal Dissection Knife
- 10 Disposable Spray Catheter

02 ERCP series:

- 11 Disposable Stone Retrieval Basket
- 12 Disposable Sphincterotome
- 13 Disposable Digestive Guide Wire
- 14 Disposable Nasal Biliary Drainage Catheter
- 15 Disposable Balloon Dilator Catheter
- 17 Disposable Stone Retrieval Balloon Catheter

03 Basic diagnosis and treatment:

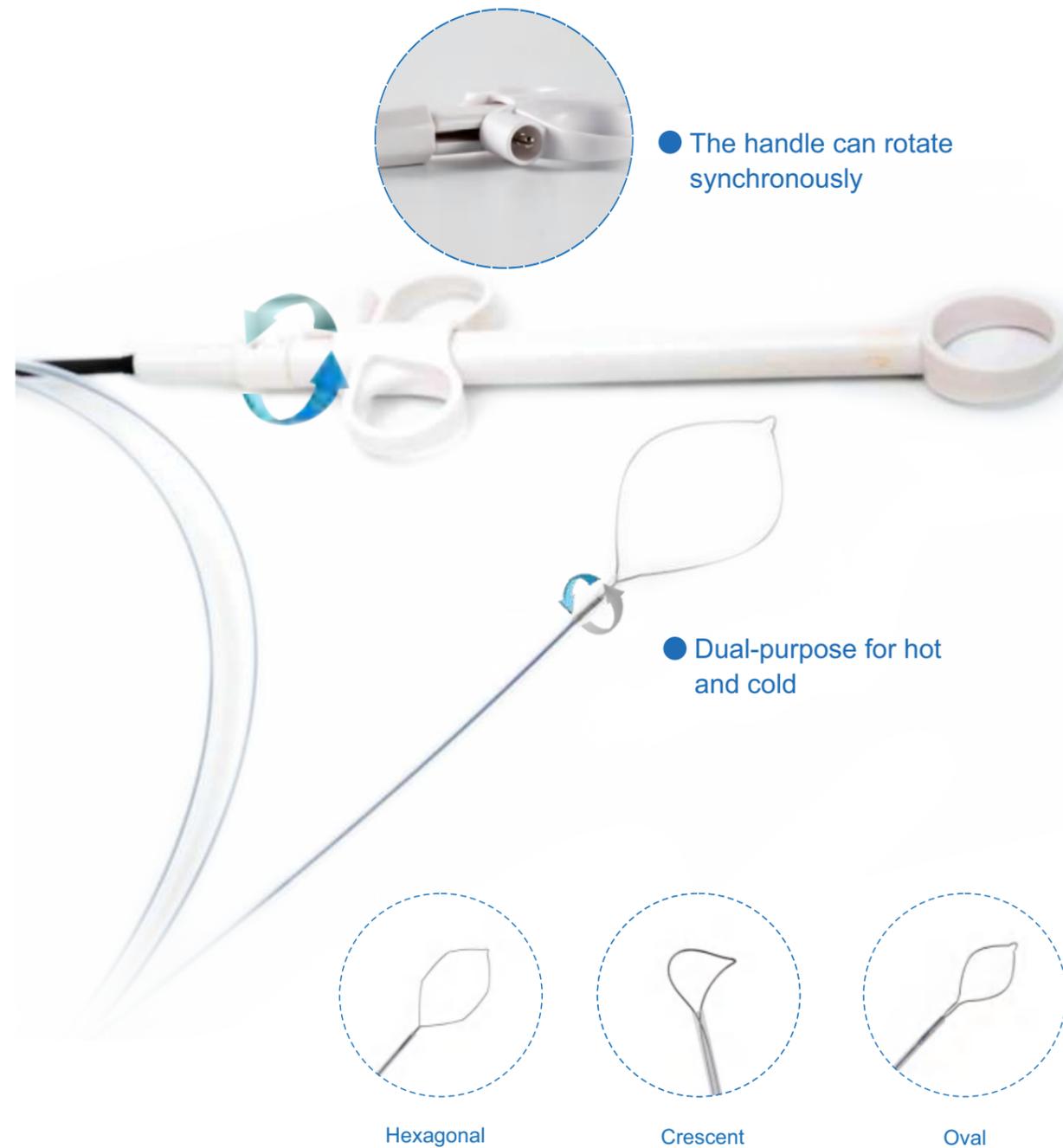
- 18 Disposable Cytology Brushes
- 19 Disposable Biopsy Forceps

- 21 Disposable Biopsy Forceps(Rotatable)
- 22 Disposable Cleaning Brushes
- 23 Disposable Grasping Forceps
- 24 Disposable Bite Block
- 25 Disposable Endoscopy valves
- 26 Reusable Endoscopy valves
- 27 Disposable Bougie Dilator Set
- 28 Inflation Devices
- 29 Disposable Endoscopic Ligator
- 30 Foley Catheter
- 31 Gastrostomy Tube
- 32 Intestinal Obstruction Catheter
- 33 Nasogastric Feeding Tubes

04 Urology series:

- 34 Disposable Ureteral Access Sheath With Suction
- 36 Disposable Ureteral Access Sheath
- 37 Disposable Non-Vascular Lumen Guide Wire
- 38 Disposable Urinary Stone Retrieval Basket
- 39 Disposable Ureteral Stent

Disposable Polypectomy Hot Snare



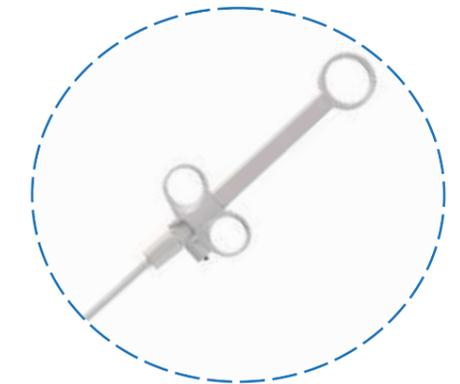
Usage: Used in conjunction with soft endoscope and high-frequency surgical equipment for the removal of polyps in the digestive tract

Features:



- Imported steel wire, not easy to deform, fast cutting, efficient electrocoagulation
- Large contact surface between wire and tissue for easy cutting

- Clear scale, achieving precise synchronization between handle sliding and coil amplitude changes
- Compatible with all major high-frequency surgical devices on the market
- A variety of shapes are available to meet the various clinical needs of physicians



Specification:

Model	Loop Width (mm)	Working Length(mm)	Tube Diameter	Snare Shape	Application	
ZRH-SA-1812-15-R	15	1200	Φ1.8	Oval	For Bronchoscopy	
ZRH-SA-1812-25-R	25	1200	Φ1.8		For Bronchoscopy	
ZRH-SA-2416-25-R	25	1600	Φ2.4		For Gastroscopy	
ZRH-SA-2416-35-R	35	1600	Φ2.4		For Gastroscopy	
★ ZRH-SA-2418-25-R	25	1800	Φ2.4		For Gastrointestinal	
★ ZRH-SA-2418-35-R	35	1800	Φ2.4		For Gastrointestinal	
★ ZRH-SA-2423-25-R	25	2300	Φ2.4		For Colonoscopy	
★ ZRH-SA-2423-35-R	35	2300	Φ2.4		For Colonoscopy	
ZRH-SB-2416-25-R	25	1600	Φ2.4		Hexagonal	For Gastroscopy
ZRH-SB-2418-25-R	25	2800	Φ2.4			For Gastrointestinal
ZRH-SB-2423-25-R	25	2300	Φ2.4	For Colonoscopy		
ZRH-SC-2423-15-R	15	2300	Φ2.4	Crescent	For Colonoscopy	
ZRH-SC-2423-25-R	25	2300	Φ2.4		For Colonoscopy	
ZRH-SC-2416-25-R	25	1600	Φ2.4		For Gastroscopy	
ZRH-SC-2418-25-R	25	1800	Φ2.4		For Gastrointestinal	

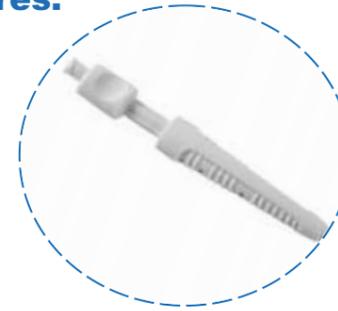
★ Commonly selected models

Disposable Injection Needle

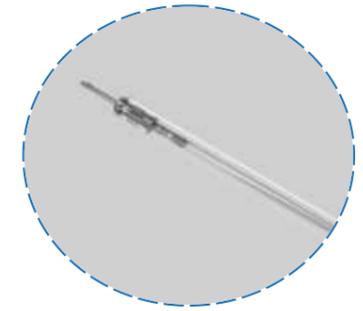


Usage: Used in conjunction with an endoscope for submucosal injection in the digestive tract

Features:



The ergonomic design of the handle provides a comfortable operating experience, and the needle has clear upper and lower stop points



The hard and transparent outer tube can observe blood return and avoid distortion



Sharp needle tip, easy to puncture, smooth injection



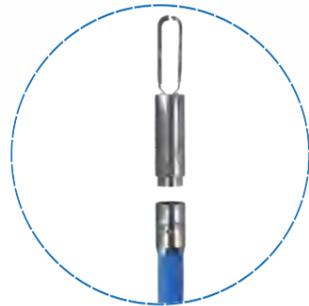
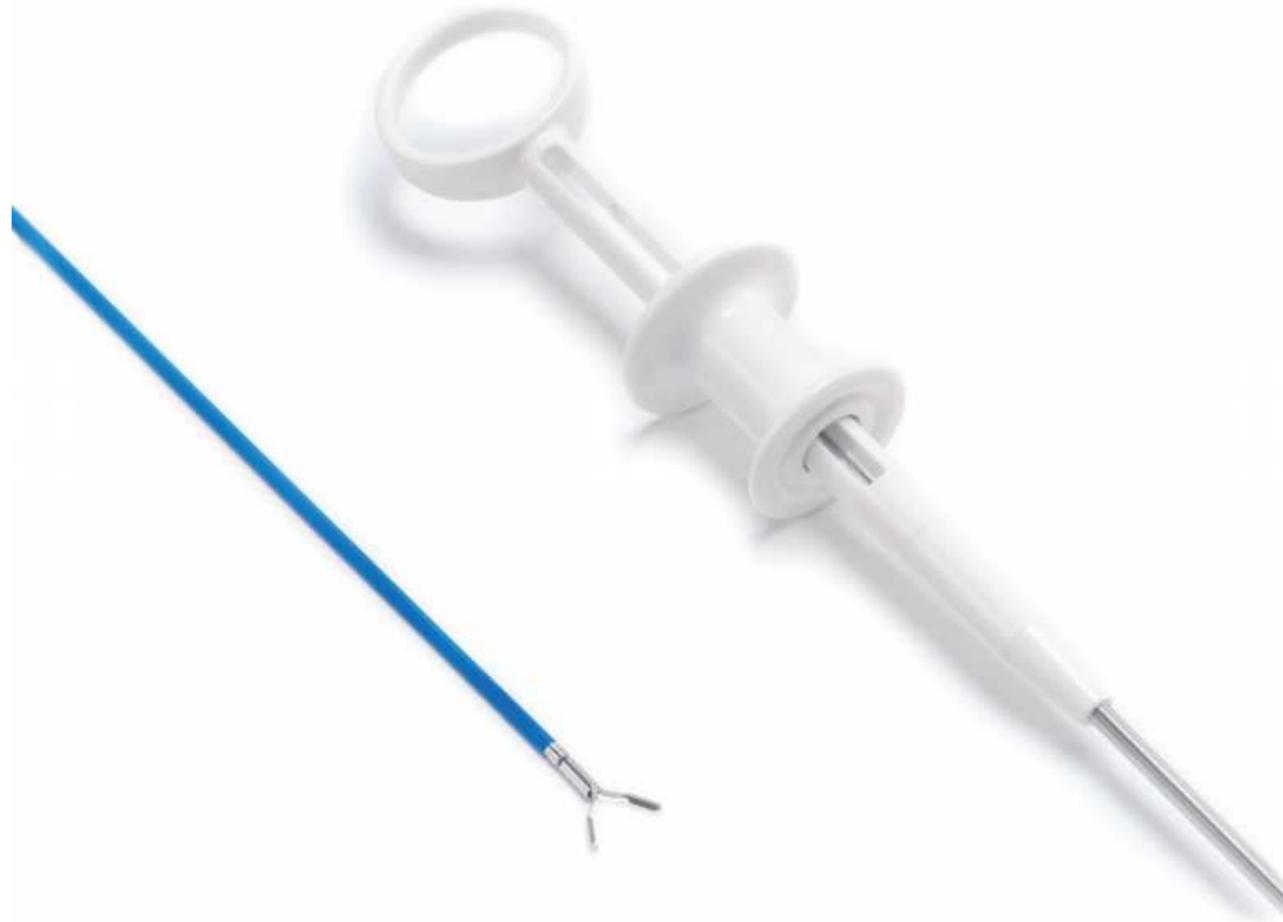
The hidden needle design effectively prevents damage to the forceps channel

Specification:

Model	Diameter D±0.1(mm)	Working Length L±50(mm)	Needle Size (diameter/length)	Working Channel
ZRH-PN-1812-254	Φ1.8	1200	25G,4mm	≥2.0
ZRH-PN-2418-214	Φ2.4	1800	21G,4mm	≥2.8
★ ZRH-PN-2418-234	Φ2.4	1800	23G,4mm	≥2.8
ZRH-PN-2418-254	Φ2.4	1800	25G,4mm	≥2.8
ZRH-PN-2418-216	Φ2.4	1800	21G,6mm	≥2.8
ZRH-PN-2418-236	Φ2.4	1800	23G,6mm	≥2.8
ZRH-PN-2418-256	Φ2.4	1800	25G,6mm	≥2.8
ZRH-PN-2423-214	Φ2.4	2300	21G,4mm	≥2.8
ZRH-PN-2423-234	Φ2.4	2300	23G,4mm	≥2.8
ZRH-PN-2423-254	Φ2.4	2300	25G,4mm	≥2.8
ZRH-PN-2423-216	Φ2.4	2300	21G,6mm	≥2.8
★ ZRH-PN-2423-236	Φ2.4	2300	23G,6mm	≥2.8
ZRH-PN-2423-256	Φ2.4	2300	25G,6mm	≥2.8

★ Commonly selected models

Disposable Hemostatic Clip



● Easy to release

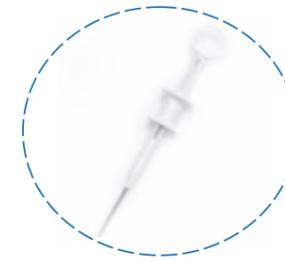


● Large opening design of clip

Usage:

Used in conjunction with an endoscope, to place clips in the upper and lower digestive tracts under endoscopic visualization, for mechanical hemostasis treatment of upper and lower gastrointestinal bleeding caused by non varicose veins, such as persistent bleeding, residual bleeding of blood vessels, and arterial bleeding.

Features:



- One handed release, effortless and comfortable
- The spring tube can also rotate when it is wound three times

- Strong clamping force to ensure the firmness of closure and effectiveness of hemostasis



- The clip can be repeatedly opened and closed, rotating 360° in both directions to achieve precise positioning and improve surgical efficiency

- Multiple opening sizes available



Specification:

Model	Clip Opening Size(mm)	Working Length (mm)	Working Channel(mm)	Application
ZRH-HCA-165-10	10	1650	≥2.8	For Gastroscopy
ZRH-HCA-165-12	12	1650	≥2.8	For Gastroscopy
ZRH-HCA-165-15	15	1650	≥2.8	For Gastroscopy
ZRH-HCA-165-17	17	1650	≥2.8	For Gastroscopy
ZRH-HCA-195-10	10	1950	≥2.8	For Gastrointestinal
★ ZRH-HCA-195-12	12	1950	≥2.8	For Gastrointestinal
★ ZRH-HCA-195-15	15	1950	≥2.8	For Gastrointestinal
ZRH-HCA-195-17	17	1950	≥2.8	For Gastrointestinal
★ ZRH-HCA-235-10	10	2350	≥2.8	For Colonoscopy
★ ZRH-HCA-235-12	12	2350	≥2.8	For Colonoscopy
ZRH-HCA-235-15	15	2350	≥2.8	For Colonoscopy
ZRH-HCA-235-17	17	2350	≥2.8	For Colonoscopy

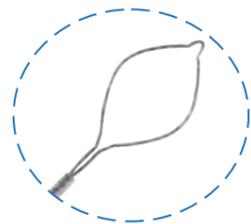
★ Commonly selected models

Disposable Polypectomy Cold Snare

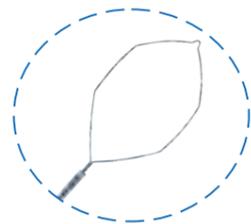
Features:



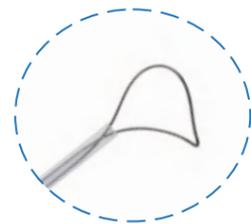
- The snare is made of nitinol wire and can be opened and closed repeatedly without deformation
- The ultra-fine wire has strong pressing and supporting capabilities, and can cut sharply without tearing
- The handle scale is clearly, which enables precise synchronization between handle sliding and coil amplitude change
- Various models customized services



Oval



Hexagon



Crescent

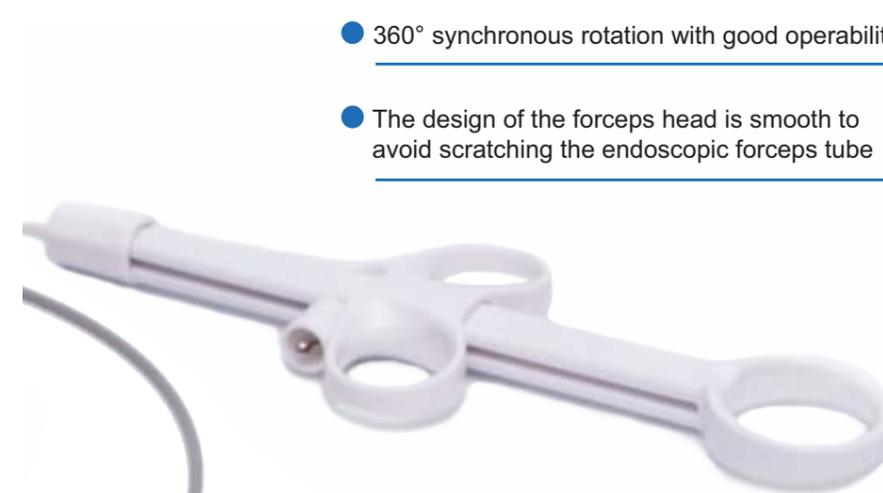
Usage: Used for the removal of digestive tract polyps

Specification:

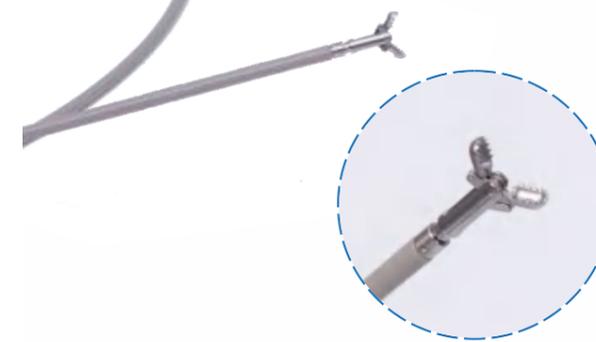
Model	Loop Width (mm)	Working Length (mm)	Tube Diameter (mm)	Snare Shape	Rotatable
ZRH-RA-2423-15-R	07/10/15	1200/1600/1800/2300	Φ1.8/Φ2.4	Oval	Yes
ZRH-RB-2423-15-R	07/10/15	1200/1600/1800/2300	Φ1.8/Φ2.4	Hexagonal	Yes
ZRH-RC-2423-15-R	07/10/15	1200/1600/1800/2300	Φ1.8/Φ2.4	Rhombic	Yes

Disposable Hot Biopsy Forceps

Features:



- 360° synchronous rotation with good operability
- The design of the forceps head is smooth to avoid scratching the endoscopic forceps tube



- The cup mouth of the forceps is large, sufficient tissue can be obtained, and pathological analysis is highly accurate
- It has sufficient contact area and can effectively coagulate and stop bleeding
- The outer spring tube is insulated and coated with plastic, which reduces the wear of the forceps channel and prevents the current from damaging the surrounding tissue

Usage: Through endoscopy, in combination with high-frequency surgical equipment, to remove and collect tissue samples in the digestive tract, as well as electrocoagulation for hemostasis

Specification:

Model	Max Insertion OD ΦD(±0.2)	Effective Length L*100(±10%)	Forceps Head Opening L1(±5%)	Forceps Head Length L2(±0.5)	Forceps Head Type
ZRH-HF-24180-A	2.4/1.8	090/095/120/125/160/165/180/185/225/230	≥4	3	A(Oval)
				4	B(Pointed)
				3	C(Serrated)
				4.5	D(V-shape)
				3.2	E(Alligator Jaw)

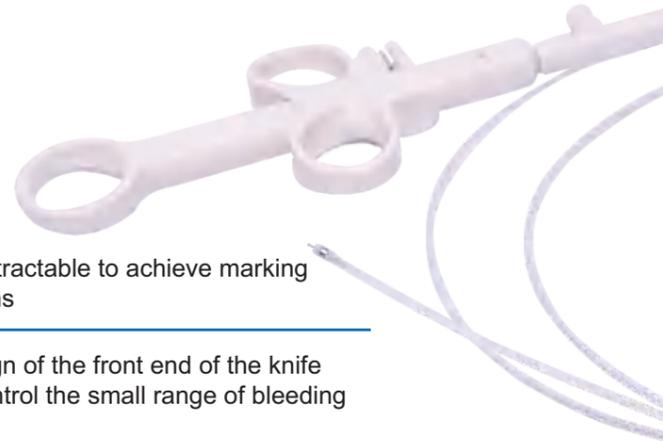
Disposable Endoscopic Submucosal Dissection Knife

Features:



D Type

- The knife wire is retractable to achieve marking and cutting functions
- The round tip design of the front end of the knife head is easy to control the small range of bleeding in ESD surgery



- The hook-shaped design can hook and cut tissue, and it cooperates with the endoscope to control the incision more freely and safer
- The conical ceramic head design at the tip of the sheath ensures safer contact with the mucosa



J Type

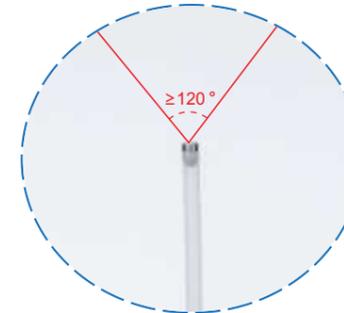
Usage: Used in conjunction with an endoscope, for high-frequency current electrocoagulation and tissue incision in the digestive tract

Specification:

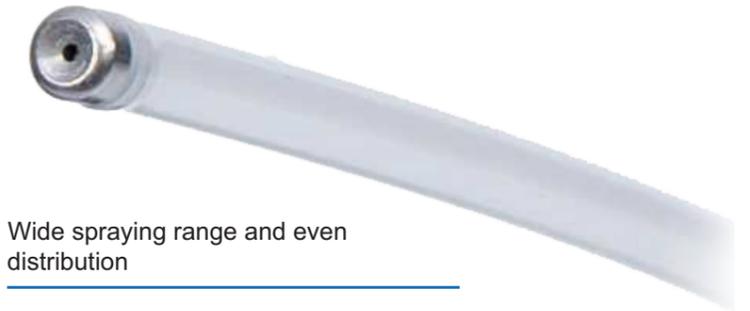
Blade Type	Model	Blade Length I (mm)	Working Length L ±10%L(mm)	Max Insertion Width D(mm)	Application
T Type	ZRH-ESD-40 (35) T-1600 (1650/1900/1950/2250/2300)	4/3.5 (±0.5)	1600/1650	Φ2.6	For Gastric
			1900/1950/2250/2300		For esophagus, intestine
D Type	ZRH-ESD-20 (15) D-1600 (1650/1900/1950/2250/2300)	2.0/1.5 (±0.5)	1600/1650	Φ2.6	For Gastric
			1900/1950/2250/2300		For esophagus, intestine
J Type	ZRH-ESD-45J-1600 (1650/1900/1950/2250/2300)	4.5 ±1	1600/1650	Φ2.6	For Gastric
			1900/1950/2250/2300		For esophagus, intestine

Disposable Spray Catheter

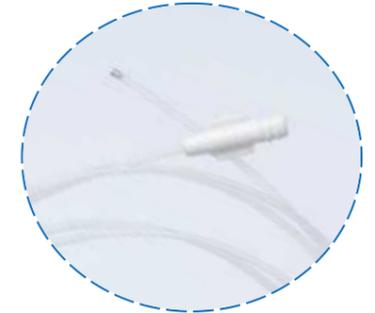
Features:



- Wide spraying range and even distribution
- Disposable design, effectively prevents cross-infection



- The surface of the outer tube is smooth and can pass smoothly
- The sheath material with moderate hardness has bending resistance and smooth liquid injection



Usage: Used in conjunction with an endoscope for operations such as lavage, spraying liquid medicine and imaging

Specification:

Model	Sheath OD D±0.1(mm)	Working Length L ±50 (mm)	Spray Type	Application
★ ZRH-PW-1810	Φ1.8	1000	Mist Injection	For Bronchoscopy
ZRH-PW-1818	Φ1.8	1800		For Gastrointestinal
★ ZRH-PW-2418	Φ2.4	1800		For Gastrointestinal
★ ZRH-PW-2423	Φ2.4	2300		For Colonoscopy
ZRH-PZ-2418-214	Φ2.4	1800	Direct Injection	For Gastrointestinal
ZRH-PZ-2423-214	Φ2.4	2300		For Colonoscopy
ZRH-PZ-2418-234	Φ2.4	1800		For Gastrointestinal
ZRH-PZ-2423-234	Φ2.4	2300		For Colonoscopy
ZRH-PZ-2423-236	Φ2.4	2300		For Colonoscopy
ZRH-PZ-2418-254	Φ2.4	1800		For Gastrointestinal
ZRH-PZ-2423-254	Φ2.4	2300	For Colonoscopy	

★ Commonly selected models

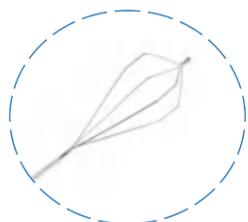
Disposable Stone Retrieval Basket

Features:

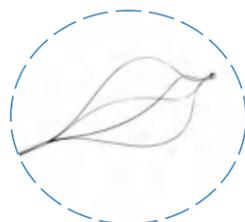


● Handle with filling port

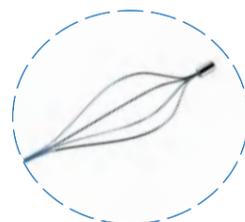
- The clamp of the basket has an excellent structure and can be easily lifted by the clamp lifter
- Personalized handle design with push-pull and rotation functions for easy grabbing of stone
- Diamond-shaped stainless steel basket enables easy removal and release of stones
- Nickel titanium memory alloy basket material ensures that the original shape is maintained even after difficult stone removal
- Moderate hardness to avoid damaging the duodenal wall
- Multiple model customization services



Diamond Shape



Spiral Shape



Oval Shape

● **Usage:** Used under endoscope during surgery to remove tissues, foreign bodies, and crush stones

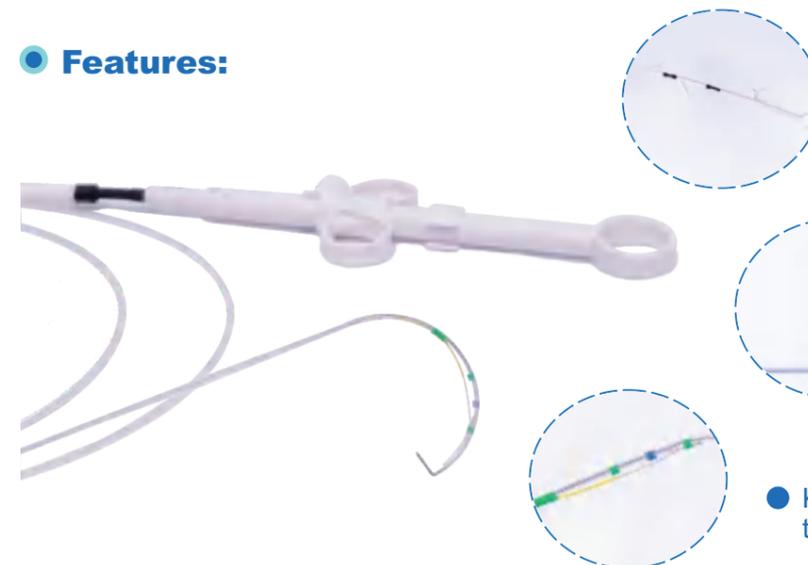
Specification:

Model	Max Insertion WidthD(mm)	Working Length L±3%L(mm)	Basket Opening Size E.2E(mm)	Material	Shape Type	
★ ZRH-BA-1807-15	Φ1.9	700	15	Stainless Steel	For choledochoscopy	Diamond Shape
ZRH-BA-2419-20	Φ2.5	1900	20	Stainless Steel	ERCP Series	Diamond Shape
ZRH-BA-2419-30	Φ2.5	1900	30	Stainless Steel	ERCP Series	Diamond Shape
ZRH-BB-1807-20	Φ1.9	700	20	Nickel titanium alloy	For choledochoscopy	Oval Shape
ZRH-BB-1807-30	Φ1.9	700	30	Nickel titanium alloy	For choledochoscopy	Oval Shape
ZRH-BB-2419-20	Φ2.5	1900	20	Nickel titanium alloy	ERCP Series	Oval Shape
ZRH-BB-2419-30	Φ2.5	1900	30	Nickel titanium alloy	ERCP Series	Oval Shape
★ ZRH-BC-1807-15	Φ1.9	700	15	Nickel titanium alloy	For choledochoscopy	Spiral Shape
ZRH-BC-1807-20	Φ1.9	700	20	Nickel titanium alloy	For choledochoscopy	Spiral Shape
ZRH-BC-2419-20	Φ2.5	1900	20	Nickel titanium alloy	ERCP Series	Spiral Shape
★ ZRH-BC-2419-30	Φ2.5	1900	30	Nickel titanium alloy	ERCP Series	Spiral Shape

★ Commonly selected models

Disposable Sphincterotome

Features:



● Multifunctional handle

● Accurate positioning at 11 o'clock

● Knife wire insulation protection to avoid over-cutting

● The knife head is pre-bent and shaped to facilitate intubation, allowing the operating doctor to control the direction of the incision knife to the predetermined 11 o'clock

● Knife wire biased traction design, bowed curvature to make up for the lack of side view mirror angle and field of vision, making the surgery safer

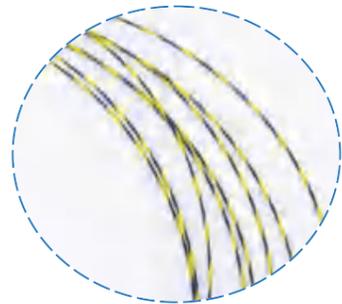
● **Usage:** Used in conjunction with an endoscope and high-frequency equipment in medical institutions for the incision of the duodenal papillary sphincter

Specification:

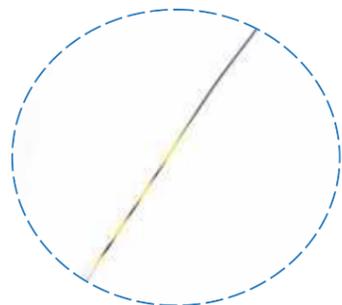
Model	Wire Length I(mm)	Head Length T±2(mm)	Lumen Number	Working Length L(mm)±10%	Working Length D(mm)	Type
ZRH-EK-2G-20 (25/30) 03 (07/15)	(20/25/30) ±5	3/7/15	2	2000	Φ2.5	Arch-shaped (G)
ZRH-EK-3G-20 (25/30) 03 (07/15)	(20/25/30) ±5	3/7/15	3	2000	Φ2.5	
ZRH-EK-2Z-05 (10)	(5/10) ±2	/	2	2000	Φ2.5	
ZRH-EK-3Z-05 (10)	(5/10) ±2	/	3	2000	Φ2.5	Needle-shaped (Z)

Disposable Digestive Guide Wire

Features:

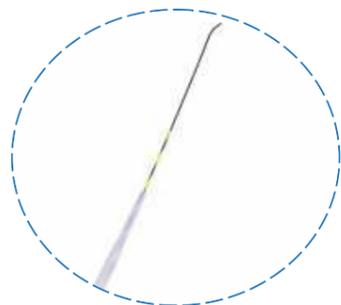


- Nickel-titanium alloy inner core rotates synchronously and is not easy to kink, providing excellent torsion and pushing force
- The hydrophilic coating on the tip of the guide wire has good self-lubricating function
- Can be visualized under X-ray, zebra stripes can clearly identify the movement of the guide wire



Straight Tip

- Triple protection design of hydrophilic tip and inner core of guide wire, no possibility of turning around



Angled Tip

- Straight and "J" tip designs provide doctors with more control options

Usage:

Used for endoscopic intervention diagnosis and treatment surgery, guide catheters or other endoscopic interventional diagnostic and therapeutic instruments are inserted into or positioned in the digestive tract

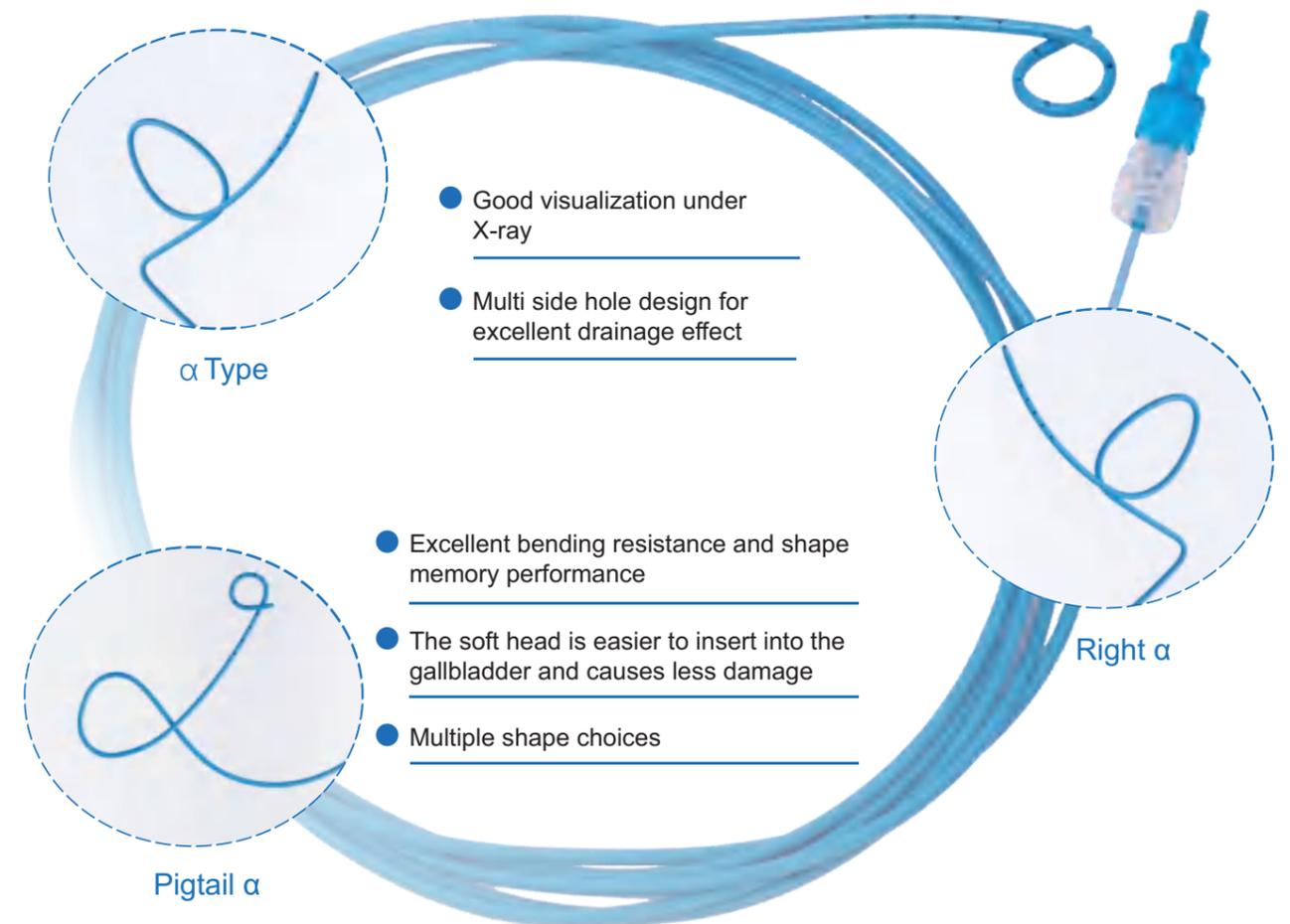
Specification:

Model	Max Diameter ±10%(inch)	Working Length ±10%(mm)	Tip Length (cm)	Tip Type
ZRH-XBM-W-2526	0.025	2600	5	Angled Tip
ZRH-XBM-W-2545	0.025	4500	5	Angled Tip
ZRH-XBM-Z-2526	0.025	2600	5	Straight Tip
ZRH-XBM-Z-2545	0.025	4500	5	Straight Tip
ZRH-XBM-W-3526	0.035	2600	5	Angled Tip
★ ZRH-XBM-W-3545	0.035	4500	5	Angled Tip
ZRH-XBM-Z-3526	0.035	2600	5	Straight Tip
ZRH-XBM-Z-3545	0.035	4500	5	Straight Tip

★ Commonly selected models

Disposable Nasal Biliary Drainage Catheter

Features:



- Good visualization under X-ray
- Multi side hole design for excellent drainage effect

- Excellent bending resistance and shape memory performance
- The soft head is easier to insert into the gallbladder and causes less damage
- Multiple shape choices

Usage:

Used in conjunction with an endoscope to drain patient fluid, exudate, or gas out of the body

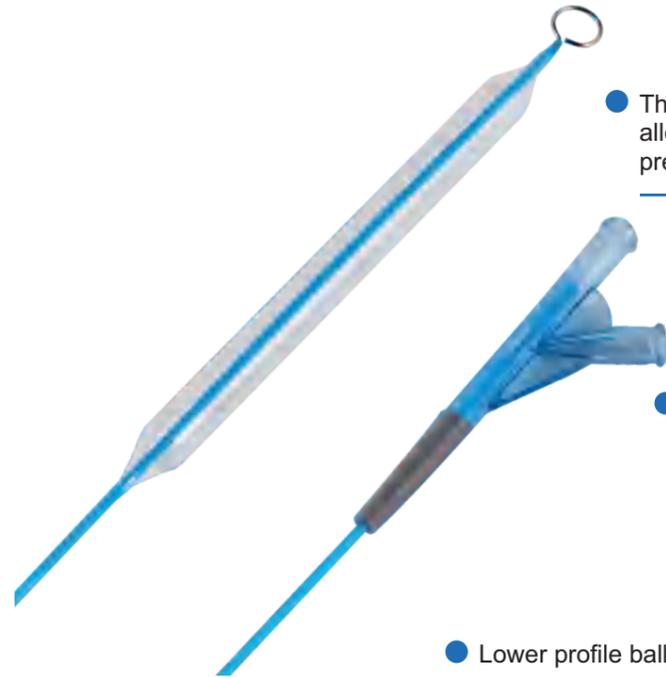
Specification:

Model	Working Length L±10%(mm)	External Diameter E±10%		Working Channel (mm)	Type
		Fr	mm		
ZRH-PTN-F-7/17(26)	1700(2600)	7	2.31	≥2.8	Short α
ZRH-PTN-B-7/17(26)	1700(2600)	7	2.31	≥2.8	Right α
★ ZRH-PTN-D-7/17(26)	1700(2600)	7	2.31	≥2.8	Pigtail α
ZRH-PTN-A-7/17(26)	1700(2600)	7	2.31	≥2.8	α Type
ZRH-PTN-E-7/17(26)	1700(2600)	7	2.31	≥2.8	Pigtail Rightα
ZRH-PTN-C-7/17(26)	1700(2600)	7	2.31	≥2.8	Pigtail Type

★ Commonly selected models

Disposable Balloon Dilator Catheter

Features:



The markings inside the balloon make it clearly visible, allowing for better control of the balloon's position and preventing it from slipping in or out.

Multi-size dilation balloon for esophageal, pyloric, colonic and biliary applications.

Lower profile balloon folding process optimize its passability.

Usage: Used for endoscopic dilation of biliary strictures.

Specification:

Model	Balloon O.D. (mm)	Balloon Length (mm)	Catheter Length (mm)	Rapid Exchange	Intended Use
ZRH-UB-0630-2219	6	30	1900	Y	ERCP, Biliary
ZRH-UB-1030-2219	10	30	1900	Y	Esophageal, Pyloric, Colonic
ZRH-UB-1230-2219	12	30	1900	Y	Esophageal, Pyloric, Colonic
ZRH-UB-0840-2219	8	40	1900	Y	ERCP, Biliary
ZRH-UB-0630-2219-B	6	30	1900	N	ERCP, Biliary
ZRH-UB-1030-2219-B	10	30	1900	N	Esophageal, Pyloric, Colonic
ZRH-UB-0840-2219-B	8	40	1900	N	ERCP, Biliary

Specification:

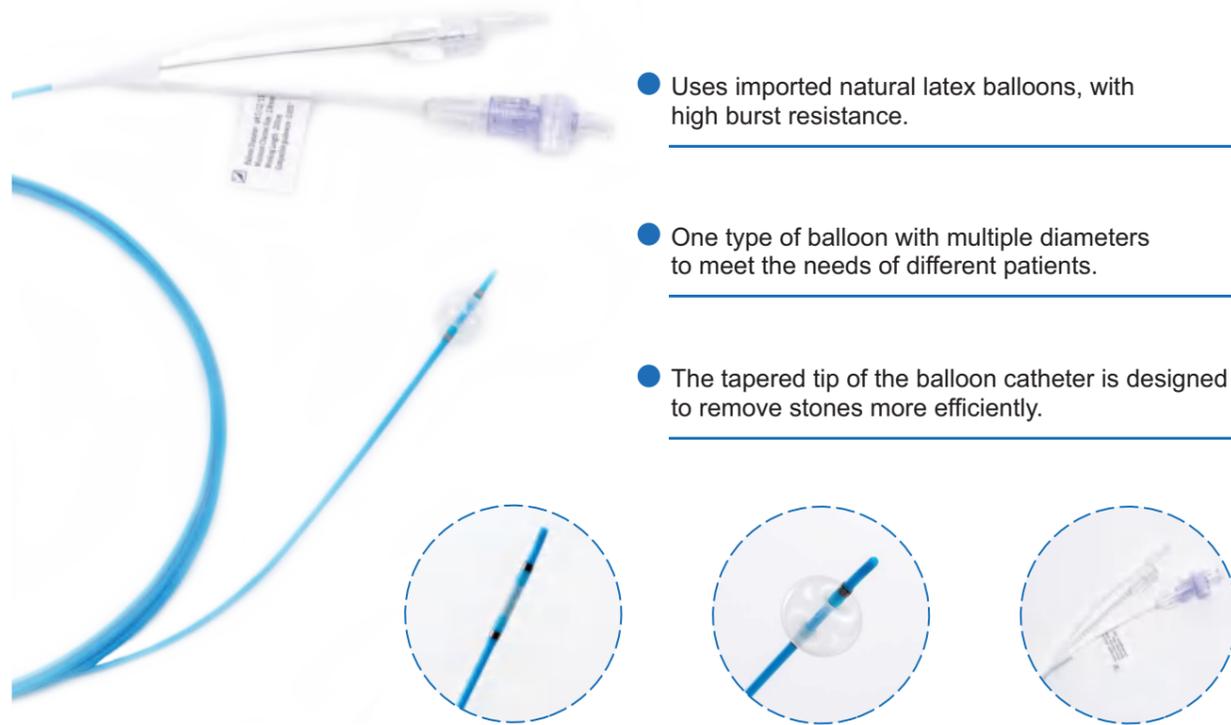
Model	Balloon Diameter (mm)	Balloon Length (mm)	Features	Rapid Exchange	Intended Use
ZRH-UB-0630-2219-A	6-7-8	30	Min. Channel (mm) 3.7mm, Guidewire inch 0.035"	N	Biliary
ZRH-UB-0655-2219-A		55		N	Biliary
ZRH-UB-0680-2219-A		80		N	Biliary
ZRH-UB-0830-2219-A	8-9-10	30		N	Biliary
ZRH-UB-0855-2219-A		55		N	Biliary
ZRH-UB-0880-2219-A		80		N	Biliary
ZRH-UB-1030-2219-A	10-11-12	30		N	Esophageal, Pyloric, Colonic
ZRH-UB-1055-2219-A		55		N	Esophageal, Pyloric, Colonic
ZRH-UB-1080-2219-A		80		N	Esophageal, Pyloric, Colonic
ZRH-UB-1530-2219-A	15-16.5-18	30		N	Esophageal, Pyloric, Colonic
ZRH-UB-1555-2219-A		55		N	Esophageal, Pyloric, Colonic
ZRH-UB-1880-2219-A		80		N	Esophageal, Pyloric, Colonic
ZRH-UB-1855-2219-A	18-19-20	55		N	Esophageal, Pyloric, Colonic

Specification:

		Balloon Length (mm)	Features	Rapid Exchange	Intended Use
ZRH-UB-0630-2219-AB	6-7-8	30	Min. Channel (mm) 3.7mm, Guidewire inch 0.035"	Y	Biliary
ZRH-UB-0655-2219-AB		55		Y	Biliary
ZRH-UB-0680-2219-AB		80		Y	Biliary
ZRH-UB-0830-2219-AB	8-9-10	30		Y	Biliary
ZRH-UB-0855-2219-AB		55		Y	Biliary
ZRH-UB-0880-2219-AB		80		Y	Biliary
ZRH-UB-1030-2219-AB	10-11-12	30		Y	Esophageal, Pyloric, Colonic
ZRH-UB-1055-2219-AB		55		Y	Esophageal, Pyloric, Colonic
ZRH-UB-1080-2219-AB		80		Y	Esophageal, Pyloric, Colonic
ZRH-UB-1530-2219-AB	15-16.5-18	30		Y	Esophageal, Pyloric, Colonic
ZRH-UB-1555-2219-AB		55		Y	Esophageal, Pyloric, Colonic
ZRH-UB-1880-2219-AB		80		Y	Esophageal, Pyloric, Colonic
ZRH-UB-1855-2219-AB	18-19-20	55		Y	Esophageal, Pyloric, Colonic

Disposable Stone Retrieval Balloon Catheter

Features:



- Uses imported natural latex balloons, with high burst resistance.
- One type of balloon with multiple diameters to meet the needs of different patients.
- The tapered tip of the balloon catheter is designed to remove stones more efficiently.

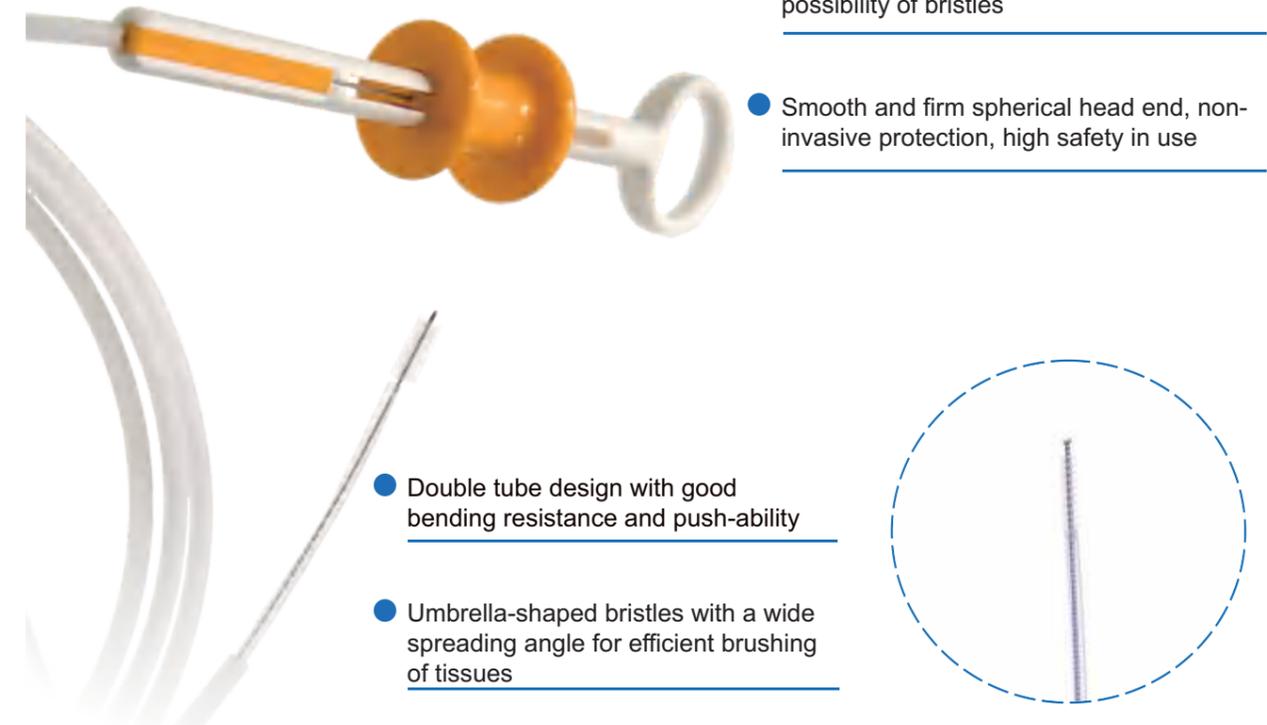
Usage: Used in conjunction with an endoscope for endoscopic bile duct stone removal.

Specification:

Model	Balloon O.D.(mm)	Catheter Length (mm)	Remark
ZRH-FQ-23200-10-N	10	2000	3 Lumen
ZRH-FQ-23200-12-N	12	2000	
ZRH-FQ-23200-15-N	15	2000	
ZRH-FQ-23200-18-N	18	2000	
ZRH-FQ-20/20/20-200-N	20	2000	
ZRH-FQ-10/12/15-200-N	10-12-15	2000	Rapid Change
ZRH-FQ-12/15/18-200-N	12-15-18	2000	
ZRH-FQ-15/18/20-200-N	15-18-20	2000	

Disposable Cytology Brushes

Features:



- Integrated brush head design, no shedding possibility of bristles
- Smooth and firm spherical head end, non-invasive protection, high safety in use

- Double tube design with good bending resistance and push-ability
- Umbrella-shaped bristles with a wide spreading angle for efficient brushing of tissues

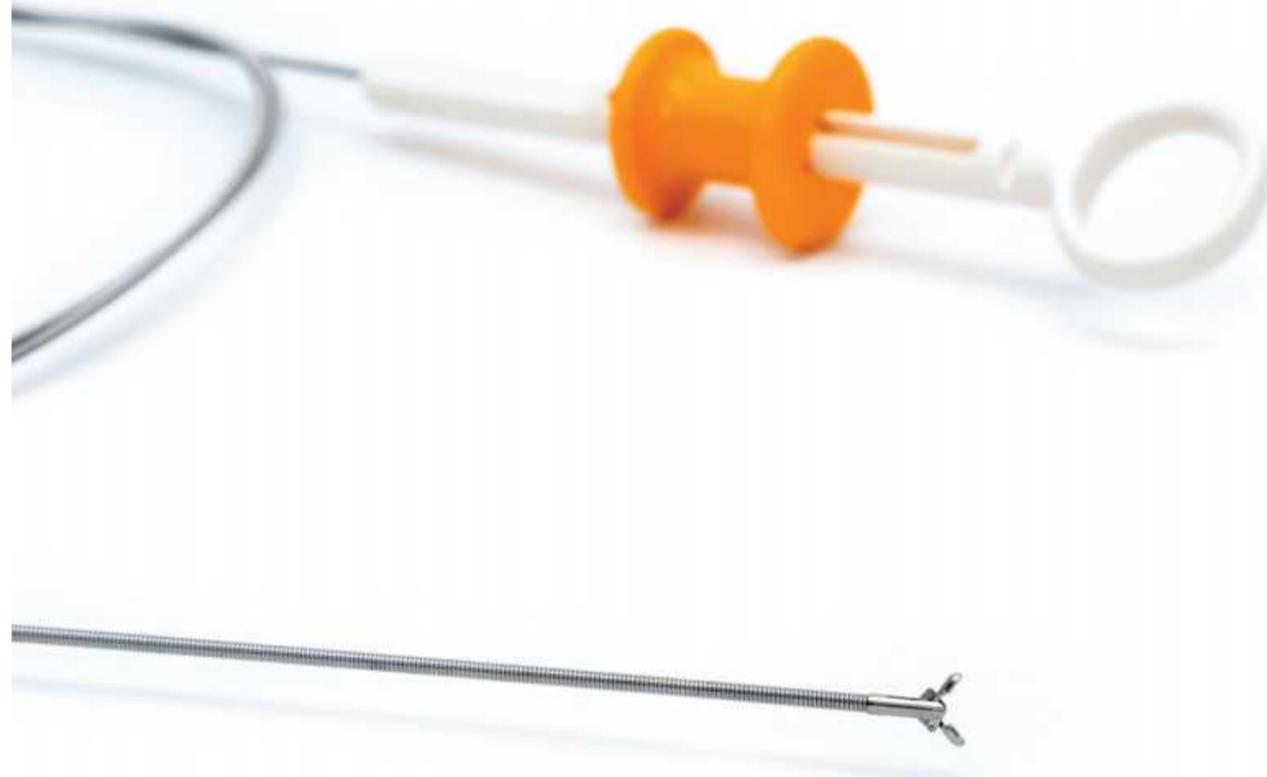
Usage: Operated under an endoscope during surgery, used to clamp tissue samples from the gastrointestinal tract and respiratory tract

Specification:

Model	Brush Diameter (mm)	Brush Length (mm)	Working Length (mm)	Max Insertion Width(mm)
ZRH-CB-1012-2	Φ2.0	12	1200	Φ1.2
★ ZRH-CB-1812-2	Φ2.0	10	1200	Φ1.9
ZRH-CB-1812-3	Φ3.0	10	1200	Φ1.9
ZRH-CB-1816-2	Φ2.0	10	1600	Φ1.9
ZRH-CB-1816-3	Φ3.0	10	1600	Φ1.9
ZRH-CB-2416-3	Φ3.0	10	1600	Φ2.5
ZRH-CB-2416-4	Φ4.0	10	1600	Φ2.5
ZRH-CB-2423-3	Φ3.0	10	2300	Φ2.5
★ ZRH-CB-2423-4	Φ4.0	10	2300	Φ2.5

★ Commonly selected models

Disposable Biopsy Forceps



● Excellent fit



● Sharp jaws

Usage: Operated under an endoscope during surgery, used to clamp tissue samples from the gastrointestinal tract and respiratory tract

Features:



Alligator Jaw With Spike



Alligator Jaw Without Spike



Oval Jaw Without Spike



Oval Jaw With Spike

- Standard cup mouth design for obtaining appropriate tissue volume
- Sharp jaws, strong biting force, good fit, safer and more effective sampling
- Smooth clamp and catheter to protect the gastrointestinal tract
- The outer spring tube is coated with a special material with ultra-smooth coating, so that it can be inserted smoothly in the forceps channel
- The rigid four connected structure provides accurate guidance
- Complete range of clamp styles to meet various clinical needs

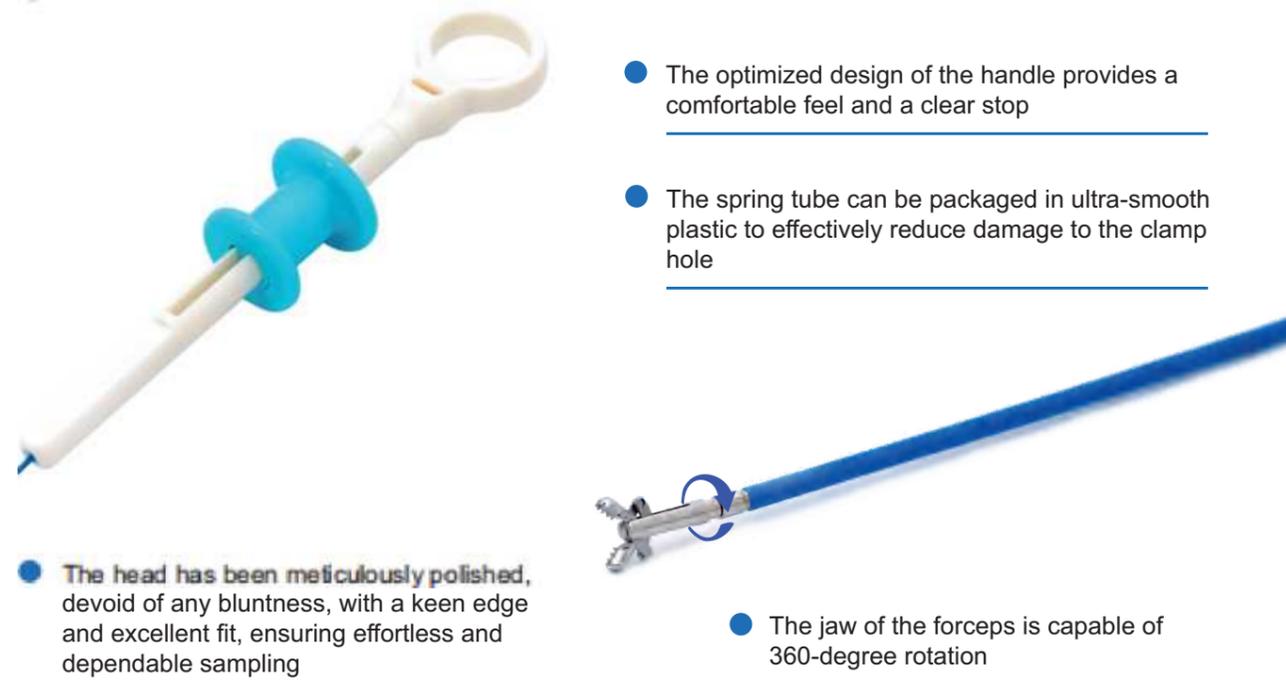
Specification:

Model	Working Channel(mm)	Diameter (mm)	Length (mm)	Clamp Type	Spring Tube Type	Application
ZRH-BFA-1012-CWL	≥1.2	1.0	1200	Alligator Jaw Without Spike	Without Coated	For bronchoscope
ZRH-BFA-2416-PWL	≥2.8	2.4	1600	Oval Jaw Without Spike		For gastroscopy
ZRH-BFA-2418-PWL	≥2.8	2.4	1800			For gastrointestinal
ZRH-BFA-2423-PWL	≥2.8	2.4	2300		For colonoscopy	
ZRH-BFA-1812-PWS	≥2.0	1.8	1200	Oval Jaw Without Spike	Coated	For bronchoscope
ZRH-BFA-1816-PWS	≥2.0	1.8	1600			For ultra-fine gastroscopy
★ ZRH-BFA-2418-PWS	≥2.8	2.4	1800			For gastrointestinal
★ ZRH-BFA-2423-PWS	≥2.8	2.4	2300	Oval Jaw With Spike	Coated	For colonoscopy
ZRH-BFA-3018-PWS	≥3.2	3.0	1800			For gastrointestinal
ZRH-BFA-2416-PZS	≥2.8	2.4	1600			For gastroscopy
ZRH-BFA-2418-PZS	≥2.8	2.4	1800	Oval Jaw With Spike	Coated	For gastrointestinal
ZRH-BFA-2423-PZS	≥2.8	2.4	2300			For colonoscopy
ZRH-BFA-1812-CZS	≥2.0	1.8	1200			For bronchoscope
ZRH-BFA-2416-CZS	≥2.8	2.4	1600	Alligator Jaw With Spike	Coated	For gastroscopy
ZRH-BFA-2418-CZS	≥2.8	2.4	1800			For gastrointestinal
ZRH-BFA-2423-CZS	≥2.8	2.4	2300			For colonoscopy
ZRH-BFA-2416-CWS	≥2.8	2.4	1600	Alligator Jaw Without Spike	Coated	For gastroscopy
ZRH-BFA-2418-CWS	≥2.8	2.4	1800			For gastrointestinal
ZRH-BFA-2423-CWS	≥2.8	2.4	2300			For colonoscopy

★ Commonly selected models

Disposable Biopsy Forceps(Rotatable)

Features:



- The optimized design of the handle provides a comfortable feel and a clear stop
- The spring tube can be packaged in ultra-smooth plastic to effectively reduce damage to the clamp hole
- The head has been meticulously polished, devoid of any bluntness, with a keen edge and excellent fit, ensuring effortless and dependable sampling
- The jaw of the forceps is capable of 360-degree rotation

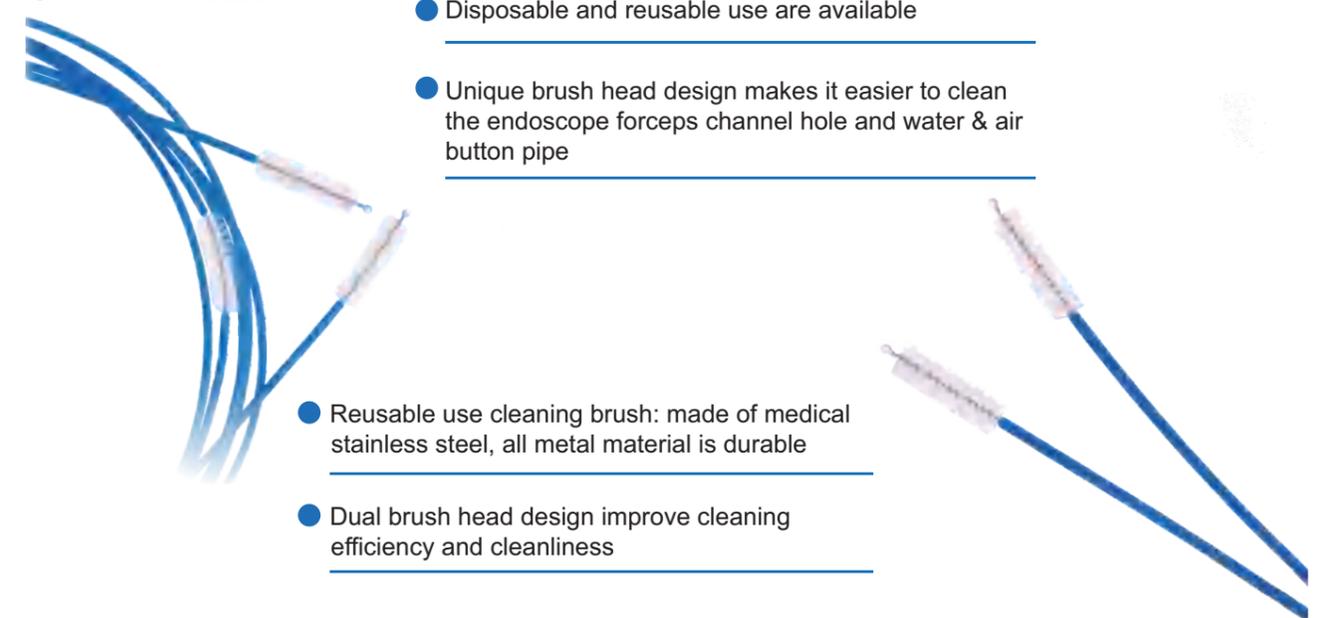
Usage: Used for biopsy sampling of digestive tract and respiratory tract under endoscope or forceps and removal of foreign bodies

Specification:

Model	Forceps Head Edge	Max Insertion (mm)	Working Length (mm)	Spike Or Without Spike	Coated Or Without Coated	Rotation	Mini Channel (mm)	Opening Angle Of Pliers
ZRH-BFA-1512-PWS-R	P/C	1.5	600/1000/1200/1600/1800/2300	W	S/L	Yes	1.7	≥90°
ZRH-BFA-1818-PWS-R	P/C	1.8	600/1000/1200/1600/1800/2300	Z/W	S/L	Yes	2.0	≥90°
ZRH-BFA-2318-PWS-R	P/C	2.3	600/1000/1200/1600/1800/2300	Z/W	S/L	Yes	2.8	≥90°

Disposable Cleaning Brushes

Features:



- Disposable and reusable use are available
- Unique brush head design makes it easier to clean the endoscope forceps channel hole and water & air button pipe
- Reusable use cleaning brush: made of medical stainless steel, all metal material is durable
- Dual brush head design improve cleaning efficiency and cleanliness

Usage: For cleaning the endoscopic forceps channel

Specification:

Model	Sheath Dia (mm)	Effective Handle Length L (mm)	Brush Diameter (A)D (mm)	Brush Head Type
★ZRH - BRA - 0702	1.5/1.7/1.8/2.0/2.3	700±50	2 / 3 / 4 / 5 / 6 / 7	Single Brush Head
ZRH - BRA - 1202		1200±50		
ZRH - BRA - 1602		1600±50		
ZRH - BRA - 2302		2300±50		
ZRH - BRB - 0702		700±50		Dual Brush Head
ZRH - BRB - 1202		1200±50		
ZRH - BRB - 1602		1600±50		
ZRH - BRB - 2306		2300±50		Triple Brush Head
ZRH - BRC - 0702		700±50		
ZRH - BRC - 1202		1200±50		
ZRH - BRC - 1602	1600±50			
ZRH - BRC - 2302	2300±50	Short Brush Head With Handle		
ZRH - BRD - 0510	50±5		Φ10.0	

Disposable Grasping Forceps

Features:



Rat Teeth Type

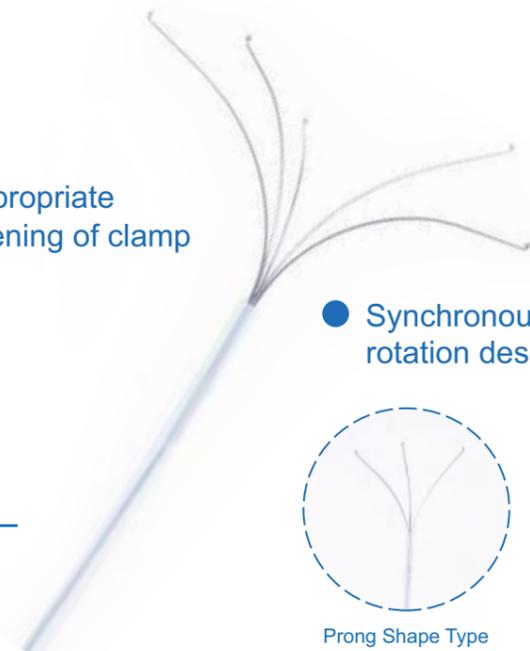
- Appropriate opening of clamp

- Rigid four-bar structure, accurate and firm foreign body grasping



Net Type

- Tough nylon material, not easy to be punctured by sharp foreign bodies, high safety in use



- Synchronous rotation design



Prong Shape Type

- The clamp is made of imported medical stainless steel, which has good biological safety
- Prong shape and net type clasps can rotate synchronously with the handle

Usage:

Used in conjunction with the soft endoscopes, entering into the human body cavity such as respiratory tract, esophagus, stomach, intestine and so forth through the endoscope channel, to grasp tissues, stones and foreign matters as well as to take the stents out

Specification:

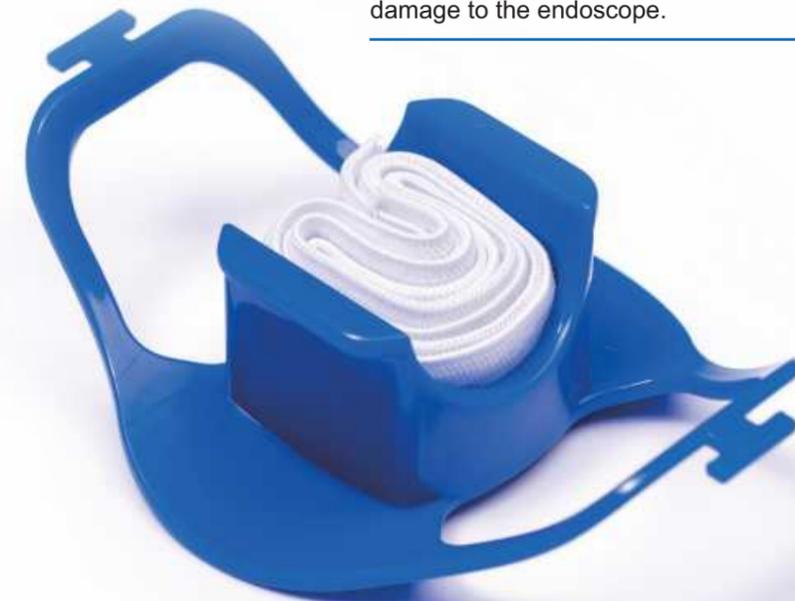
Model	Tube Diameter (mm)	Working Length (mm)	Working Channel Diameter(mm)	Opening (mm)	Clamp Type
ZRH-GFA-1810-10	Φ1.9/2.5	400, 600, 800, 1000, 1200, 1600, 1800, 2000, 2300	≥Φ2.0/2.8	10/15/20	Rat Teeth with Alligator Teeth Jaws
ZRH-GFB-1810-15	Φ1.9/2.5		≥Φ2.0/2.8	10/15/20	Rat Teeth
ZRH-GFC-1810-50	Φ1.9/2.5		≥Φ2.0/2.8	50	3 Prongs Shape
ZRH-GFD-1810-50	Φ1.9/2.5		≥Φ2.0/2.8	50	4 Prongs Shape
ZRH-GFE-1810-50	Φ1.9/2.5		≥Φ2.0/2.8	50	5 Prongs Shape
ZRH-GFF-1810-20	Φ1.9/2.5		≥Φ2.0/2.8	15/20/25/30/35	Net type
ZRH-GFG-1810-15	Φ1.9/2.5		≥Φ2.0/2.8	15/20/25/30/35	Basket type

Disposable Bite Block

Features:

- **Latex-free:** Reduces the risk of allergic reactions.

- **Smooth edges:** A unique molding process creates a smooth surface, avoiding sharp edges and preventing irritation to oral tissues and damage to the endoscope.



- **Stable oral cavity:** Maintains a continuously open mouth, replacing the patient's own opening of the mouth, providing a stable passage for medical instruments during endoscopic surgery.

- **Equipped with straps:** Secures the bite block, improving safety and ease of use.

Usage:

Maintaining an open mouth while protecting instruments and airway during endoscopic surgery.

Specification:

Model	Adult / child	With strap	Sterile
ZRH-KD-02	Adult	Yes	Yes

Disposable Endoscopy valves

Features:

- Offers compatibility with single-use replacement accessories for Olympus, Fujifilm and Pentax endoscopes.

- The single-use valves contribute to the patient safety and ensure an optimized infection prevention.



Biopsy valve is used in the endoscope channel to protect the biopsy passage, prevent leakage of biological materials during surgery, and maintain the endoscope's inflation status, ensuring operational safety and sterility.

Usage:

Air/water valve is used for gas and liquid control. Suction valve is used to control the intake and exhaust of fluids, maintaining pressure and suction within the endoscope's working channel.

Specification:

For Olympus 140/ 160/ 180/ 190/ 240/ 260/290 Series GI Endoscopes		For Fujifilm 700 Series GI Endoscopes		For Pentax 90/i10 Series GI Endoscopes	
Model	Description	Model	Description	Model	Description
ZRH-EV-02-LP03	Suction, Air/Water, Biopsy Valves	ZRH-EV-03-FJ03	Suction, Air/Water, Biopsy Valves	ZRH-EV-01-PT04	1st Generation (Hard Button)withSuction, Air/Water, Biopsy Valves
ZRH-EV-02-LP05	Suction,Air/ Water Valves	ZRH-EV-03-FJ05	Suction,Air/ Water Valves	ZRH-EV-01-PT07	1st Generation (Hard Button)withSuction, Air/Water Valves
ZRH-EV-02-LP07	Biopsy Valve	ZRH-EV-03-FJ07	Biopsy Valve	ZRH-EV-01-PT10	Biopsy Valve

Reusable Endoscopy valves

Features:

- Ensures a constant and regulated flow of air and water



- Enhanced safety thanks to validated reprocessing and sterilisation protocols



- Exceptional durability and reliability

Biopsy valve is used in the endoscope channel to protect the biopsy passage, prevent leakage of biological materials during surgery, and maintain the endoscope's inflation status, ensuring operational safety and sterility.

Usage:

Air/water valve is used for gas and liquid control. Suction valve is used to control the intake and exhaust of fluids, maintaining pressure and suction within the endoscope's working channel.

Specification:

For Olympus 140/ 160/ 180/ 190/ 240/ 260/290 Series GI Endoscopes		For Fujifilm 700 Series GI Endoscopes		For Pentax 90/i10 Series GI Endoscopes	
Model	Description	Model	Description	Model	Description
ZRH-EV-04-4302	Suction,Air/ WaterValves	ZRH-EV-05-FJ05	Suction, Air/ Water Valves	ZRH-EV-01-PT04	Suction, Air/ Water Valves
ZRH-EV-04-4310	Suction Valve	ZRH-EV-05-FJ605	Suction Valve	ZRH-EV-01-PT07	Suction Valve
ZRH-EV-04-4309	Air/Water Valve	ZRH-EV-05-FJ603	Air/Water Valve	ZRH-EV-01-PT10	Air/Water Valve

Disposable Bougie Dilator Set

Features:



- Made of medical-grade polymer material with moderate hardness.
- The smooth terminal cone facilitates expansion and minimizes trauma.
- The head end features a developing ring for more precise positioning under X-ray.

Usage: Dilators are used at the narrowed area via gastroscopy to treat esophageal stricture and dysphagia.

Specification:

Model	Working length (mm)	Maximum outer diameter D(mm)	Model	Working length (mm)	Maximum outer diameter D(mm)
5	850	5	13	850	13
6	850	6	14	850	14
7	850	7	15	850	15
8	850	8	16	850	16
9	850	9	17	850	17
10	850	10	18	850	18
11	850	11	19	850	19
12	850	12	20	850	20

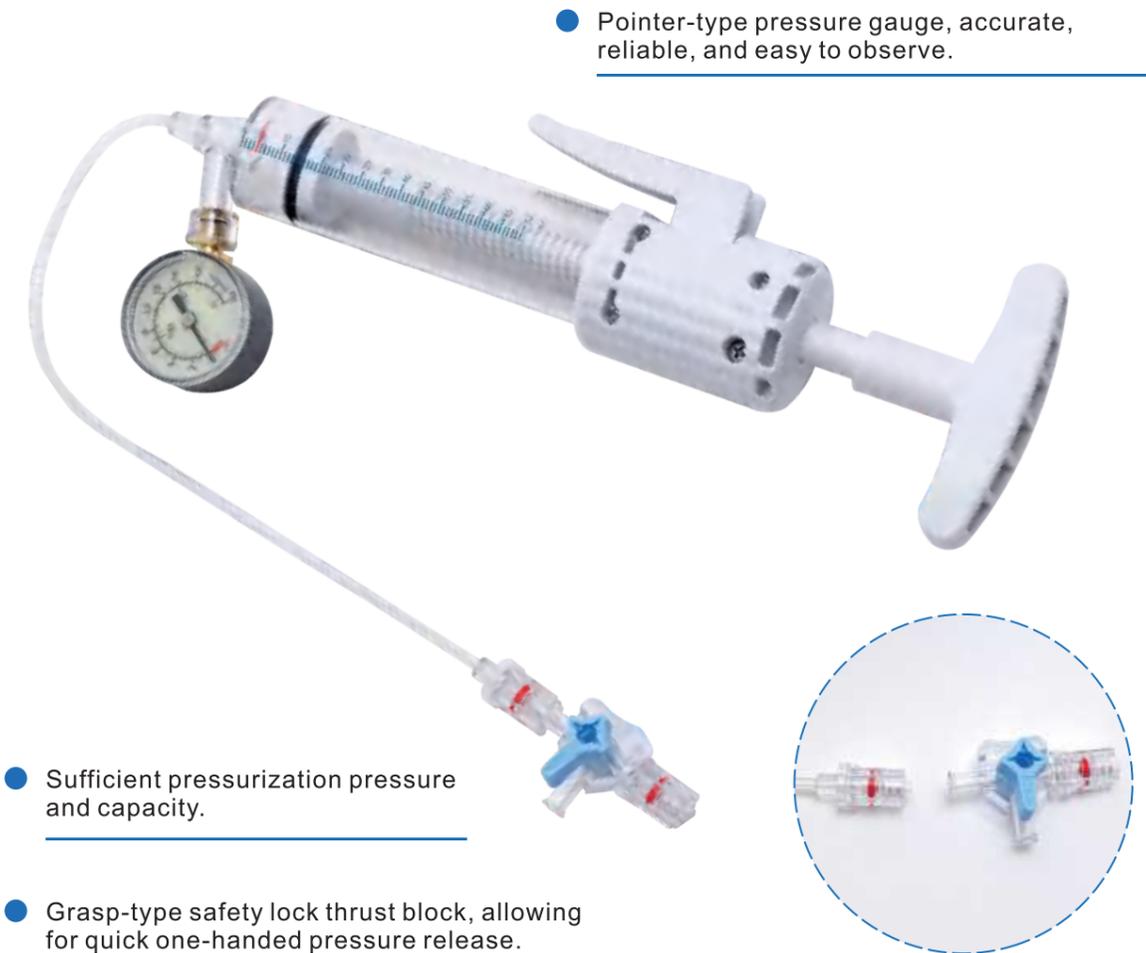
Guide wire specification $\phi 1.0 \times 2200\text{mm}$

Specification of syringe 20ml

Bite Block adult use

Inflation Devices

Features:



- Pointer-type pressure gauge, accurate, reliable, and easy to observe.

- Sufficient pressurization pressure and capacity.
- Grasp-type safety lock thrust block, allowing for quick one-handed pressure release.

Usage: Precise control of balloon expansion and contraction achieves therapeutic goals.

Specification:

Model	Capacity (mL)	Maximum Pressure (atm)
ZRH-SB-70-20A	70	20atm/bar

Disposable Endoscopic Ligator

Features:

- Transparent cap with clear ligation view for optimal tissue capture.
- Allows continuous firing of multiple bands.
- Compatible with endoscopes of 9.5-12mm diameter.



Usage: Used in conjunction with an endoscope for endoscopic lesion ligation and hemostasis.

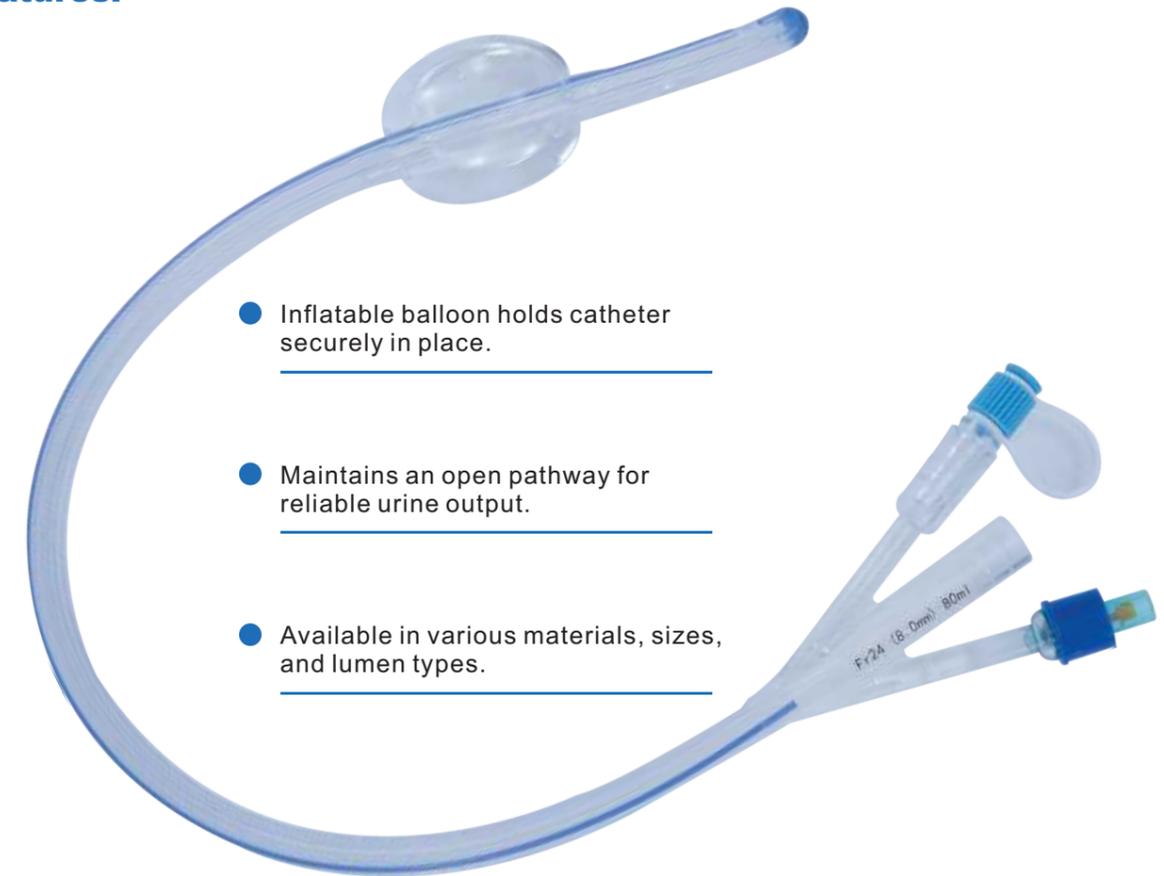
Specification:

Model	Number of Bands	O.D.of Endoscope (mm)
ZRH-EL-4	4	9.5-12
ZRH-EL-6	6	9.5-12
ZRH-EL-8	8	9.5-12
ZRH-EL-10	10	9.5-12
ZRH-EL-12	12	9.5-12

Foley Catheter

Features:

- Inflatable balloon holds catheter securely in place.
- Maintains an open pathway for reliable urine output.
- Available in various materials, sizes, and lumen types.



Usage: Used for indwelling urinary drainage to maintain bladder decompression during surgery or intensive care.

Specification:

Type	Size (Fr)	Balloon Volume (ml)
1-way	16-24	/
2-way	8-24	3-5,5-10,20-30
3-way	16-24	20-30

Gastrostomy Tube

Features:



- Biocompatible medical silicone for safe long-term use and patient comfort.
- Graduated depth markings for easy insertion tracking.
- External retention ring for secure placement on the body.



Usage: Used for patients with feeding difficulties or dysphagia to ensure adequate nutrition.

Specification:

Type	Size (Fr)
3-way	12-24

Intestinal Obstruction Catheter

Features:

- Made with advanced biocompatible materials.



- Radiation-proof markers enable precise positioning.
- Multiple side holes maximize drainage capacity and reduce the risk of blockage.

Usage: Used to relieve bowel obstructions caused by conditions such as tumors, strictures, or adhesions.

Specification:

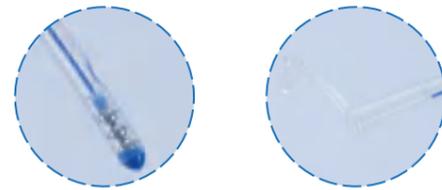
Type	Size (Fr)
3-way	18, 20, 22, 24
4-way	18, 20, 22, 24

Nasogastric Feeding Tubes

Features:



- Made of 100% silicone.
- With a length of 1200mm, length also can be customized.
- With plug, depth marking, X-rayopaque line.



Usage:

It is used to feed the patient, relieve pressure on, administer medicine to, and wash the stomach intestine.

Specification:

Type	Size (Fr)	Description
1-way	6-20	For Child (Fr6-10) For Adult(Fr12-24)
2-way	6-16	
3-way	16-24	
Single Balloon	8-24	
Double Balloon	8-24	

Disposable Ureteral Access Sheath With Suction



Usage:

Negative pressure suction sheath is mainly used in urological surgery. It maintains a negative pressure environment in the kidney by connecting to a negative pressure pump, prevents the return of flushing fluid, removes stones efficiently, and reduces the operation time.

● **Features:**



- Remove fluid or blood from the cavity through negative pressure function to ensure clear vision and avoid stone residue
- Reduces the risk of infection and complications during the procedure by maintaining a negative pressure environment in the kidney

- Negative pressure function can help guide and position, improve the stability and safety of surgery
- Suitable for the treatment of complex and multiple stones



● **Specification:**

S.N.	Model	Tube ID		Working Length L±10 (mm)
		Fr	mm	
1	ZRH-NQG-9-40-Y	9	3.0	400
2	★ ZRH-NQG-9-50-Y	9	3.0	500
3	ZRH-NQG-10-40-Y	10	3.33	400
4	ZRH-NQG-10-50-Y	10	3.33	500
5	★ ZRH-NQG-11-40-Y	11	3.67	400
6	★ ZRH-NQG-11-50-Y	11	3.67	500
7	★ ZRH-NQG-12-40-Y	12	4.0	400
8	★ ZRH-NQG-12-50-Y	12	4.0	500
9	ZRH-NQG-13-40-Y	13	4.33	400
10	ZRH-NQG-13-50-Y	13	4.33	500
11	★ ZRH-NQG-14-40-Y	14	4.67	400
12	★ ZRH-NQG-14-50-Y	14	4.67	500
13	ZRH-NQG-16-40-Y	16	5.33	400
14	ZRH-NQG-16-50-Y	16	5.33	500

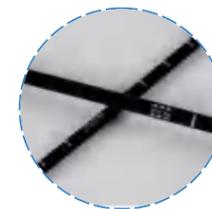
★ Commonly selected models

Disposable Ureteral Access Sheath

● **Features:**



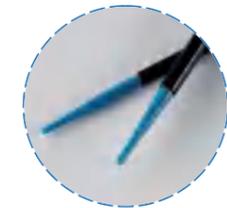
- Metal reinforcement wire prevents bending and knotting



- Scale precise control distance, hydrophilic coating accurate and smooth in and out of the urinary tract



- The base is firmly locked and pushed forward synchronously



- The long tapered tip is smooth and can be gradually expanded to reduce trauma.
- Smooth and seamless connection, smooth insertion

○ **Usage:** Used in urological surgery to establish the passage of endoscope and other instruments into urinary tract

● **Specification:**

S.N.	Model	Tube ID		Working Length L±10 (mm)
		Fr	mm	
1	ZRH-NQG-9.5-35	9.5	3.17	350
2	★ ZRH-NQG-9.5-45	9.5	3.17	450
3	ZRH-NQG-10-35	10	3.33	350
4	ZRH-NQG-10-45	10	3.33	450
5	★ ZRH-NQG-11-35	11	3.67	350
6	★ ZRH-NQG-11-45	11	3.67	450
7	★ ZRH-NQG-12-35	12	4.0	350
8	★ ZRH-NQG-12-45	12	4.0	450
9	ZRH-NQG-13-35	13	4.33	350
10	ZRH-NQG-13-45	13	4.33	450
11	★ ZRH-NQG-14-35	14	4.67	350
12	★ ZRH-NQG-14-45	14	4.67	450
13	ZRH-NQG-16-35	16	5.33	350
14	ZRH-NQG-16-45	16	5.33	450

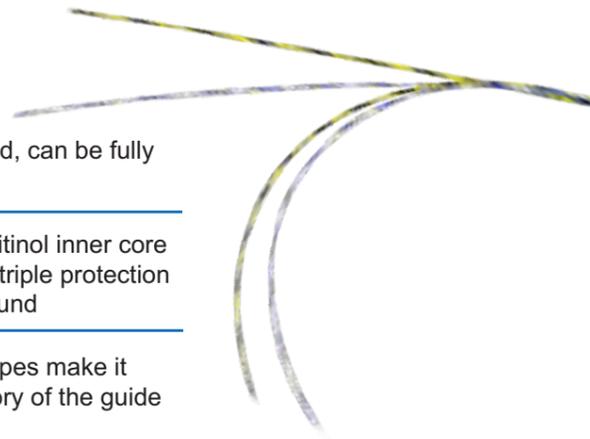
★ Commonly selected models

Disposable Non-Vascular Lumen Guide Wire

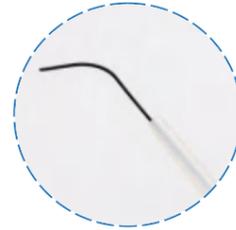
Features:



- Non transparent x-ray soft TPU head, can be fully developed under X-ray
- The hydrophilic head end and the nitinol inner core of the guide wire are designed with triple protection without the possibility of turning around
- The yellow black and blue white stripes make it easier to see the movement trajectory of the guide wire



- The medical grade hydrophilic coating guide wire is exceptionally smooth, with better passage properties and no irritation to tissues
- Anti twisting nitinol inner core material provides excellent twisting and pushing force
- The head end of the product is rounded and smooth to prevent damage to mucosal tissue during use



Usage: Under endoscope or X-ray surveillance, enter the natural non-vascular lumens of the human body for guidance purposes

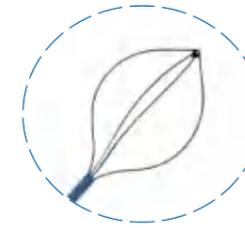
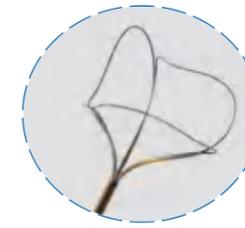
Specification:

Model	Max Diameter ±10%(inch)	Working Length ±10%(mm)	Type	Tip Shape
ZRH-NBM-W-3215	0.032	1500	Zebra Guide Wire	Angled Tip
★ ZRH-NBM-Z-3215	0.032	1500		Straight Tip
ZRH-NBM-W-3515	0.035	1500		Angled Tip
★ ZRH-NBM-Z-3515	0.035	1500		Straight Tip
ZRH-NBM-W-1812	0.018	1200		Angled Tip
ZRH-NBM-Z-1812	0.018	1200		Straight Tip
ZRH-NNQ-W-3215	0.032	1500	Loach Guide Wire	Angled Tip
★ ZRH-NNQ-Z-3215	0.032	1500		Straight Tip
ZRH-NNQ-W-3515	0.035	1500		Angled Tip
★ ZRH-NNQ-Z-3515	0.035	1500		Straight Tip
ZRH-NNQ-W-1812	0.018	1200		Angled Tip
ZRH-NNQ-Z-1812	0.018	1200		Straight Tip

★ Commonly selected models

Disposable Urinary Stone Retrieval Basket

Features:



- High quality outer sheath, smooth and soft, ensures unobstructed and compliant bending of the endoscope, making it easy to reach the lower calyceal calculi
- Personalized handle design with push-pull and rotary functions, making stone grasping operation easier and more effective

- Advanced nickel titanium memory alloy basket material ensures that the basket maintains its original shape even after repeated opening and closing
- The four-wire tip-less design facilitates positioning, makes it easier to get close to and capture stones, and ensures a clear surgical field of vision



Usage: Used in conjunction with an endoscope to remove foreign bodies, stones or excised tissue samples from the urinary tract

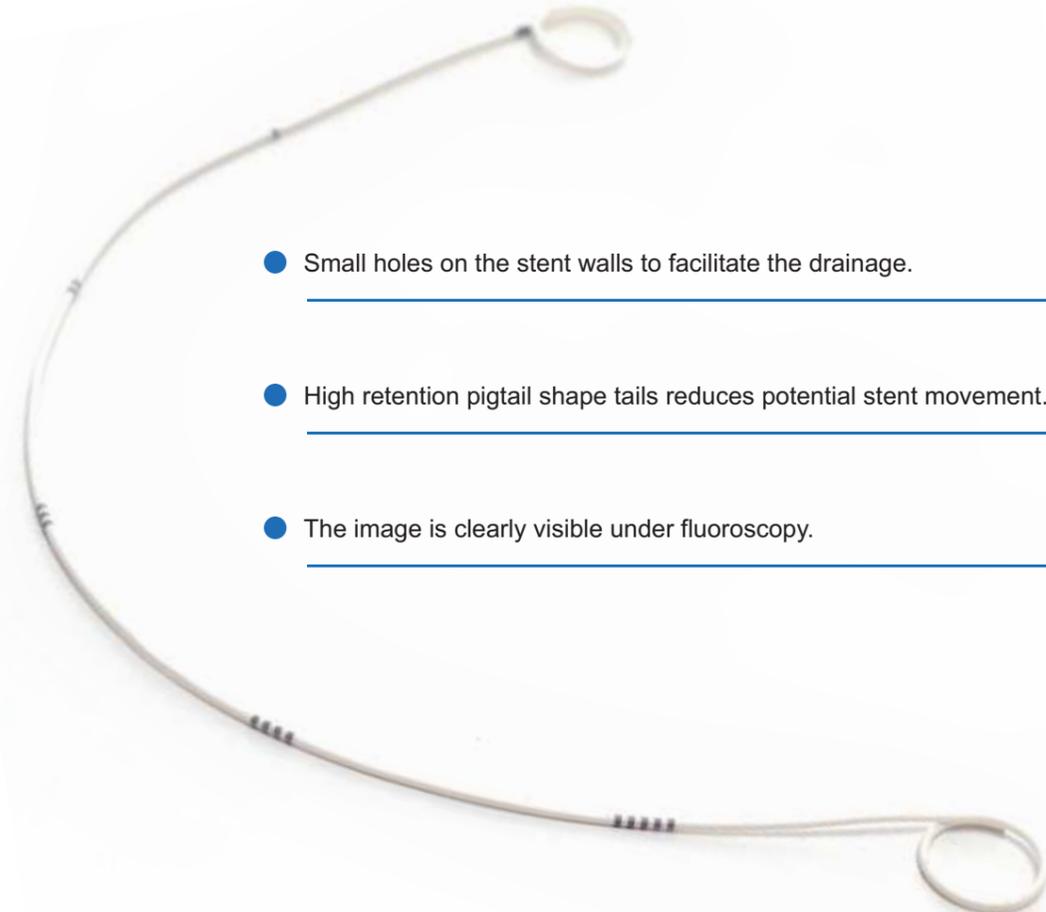
Specification:

Model	Outer Sheath OD±0.1		Working Length ±10%(mm)	Basket Opening SizeE.2E(mm)	Wire Type
	Fr	mm			
★ ZRH-WA-F1.7-1208	1.7	0.56	1200	8	Three Wires
ZRH-WA-F1.7-1215			1200	15	
★ ZRH-WA-F2.2-1208	2.2	0.73	1200	8	
ZRH-WA-F2.2-1215			1200	15	
ZRH-WA-F3-1208	3	1	1200	8	
ZRH-WA-F3-1215			1200	15	
★ ZRH-WB-F1.7-1210	1.7	0.56	1200	10	Four Wires
ZRH-WB-F1.7-1215			1200	15	
★ ZRH-WB-F2.2-1210	2.2	0.73	1200	10	
ZRH-WB-F2.2-1215			1200	15	
ZRH-WB-F3-1210	3	1	1200	10	
ZRH-WB-F3-1215			1200	15	
ZRH-WB-F4.5-0710	4.5	1.5	700	10	
ZRH-WB-F4.5-0715			700	15	

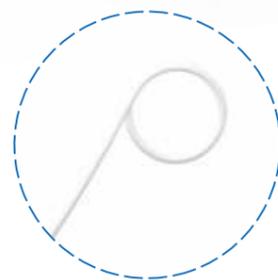
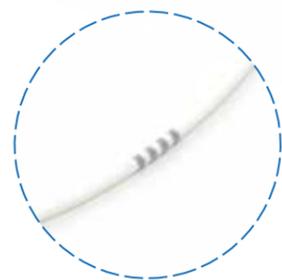
★ Commonly selected models

Disposable Ureteral Stent

Features:



- Small holes on the stent walls to facilitate the drainage.
- High retention pigtail shape tails reduces potential stent movement.
- The image is clearly visible under fluoroscopy.



Usage: It is placed between the kidney and the bladder. Its main functions are to support the ureter, maintain its patency, and promote postoperative recovery.

Specification:

Model	Outer diameter (±0.1mm)		Effective length (mm) ±10%
	Fr	mm	
ZRH-US-4-220	4	1,33	220
ZRH-US-4-240	4	1,33	240
ZRH-US-4-260	4	1,33	260
ZRH-US-4-280	4	1,33	280
ZRH-US-4.5-220	4.5	1,50	220
ZRH-US-4.5-240	4.5	1,50	240
ZRH-US-4.5-260	4.5	1,50	260
ZRH-US-4.5-280	4.5	1,50	280
ZRH-US-5-220	5	1,67	220
ZRH-US-5-240	5	1,67	240
ZRH-US-5-260	5	1,67	260
ZRH-US-5-280	5	1,67	280
ZRH-US-6-220	6	2,00	220
ZRH-US-6-240	6	2,00	240
ZRH-US-6-260	6	2,00	260
ZRH-US-6-280	6	2,00	280
ZRH-US-7-220	7	2,33	220
ZRH-US-7-240	7	2,33	240
ZRH-US-7-260	7	2,33	260
ZRH-US-7-280	7	2,33	280
ZRH-US-8-220	8	2,67	220
ZRH-US-8-240	8	2,67	240
ZRH-US-8-260	8	2,67	260
ZRH-US-8-280	8	2,67	280