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Product Catalogue 2021



Innovation Defines Life ———
Zhejiang Haichuang Medical Device



Zhejiang Haichuang Medical Device Co., Ltd.

Zhejiang Haichuang Medical Device Co., Ltd. is founded in 2015 and located in Hangzhou, the capital city of Zhejiang province, also known as the host city of the G20 2017. We are specialized in medical disposable device manufacturing which combines R&D, Production and Sales. As for now, we have several series of products including **Bi-fix™ Surgical Incision Closure Set**, **Loopix™ Drainage Tube Securement Device**, **Wound Debridement Irrigator**, **Incision Protector** and **Tension Reduce Tape**. For the past five years, HC medical has already become one of the very few leading enterprises in the field of non-invasive surgical closure device in China, and now we are ready to serve your countries.

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Surgical Incision Closure Set

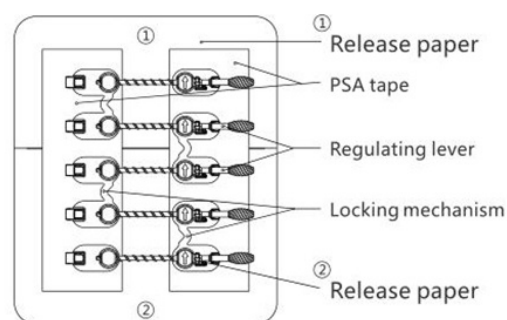
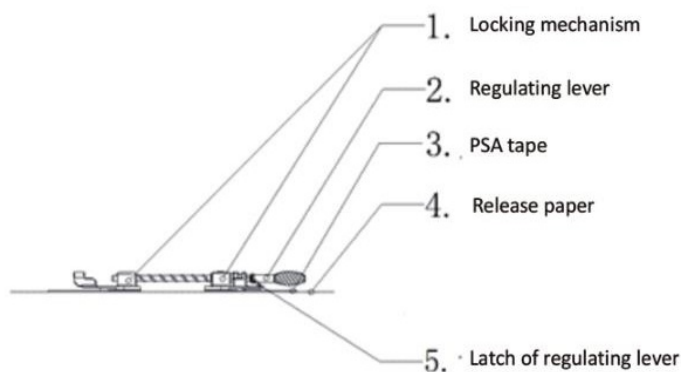
◇ Introduction ◇

A new surgical suture method. This method is suitable for the closure of the epidermis of surgical wounds without causing secondary damage to the skin. The skin's cutting edges are aligned by the proper external force of the product and remain until the wound heals naturally. The unique fastening structure design makes the operation simpler. The precise closing force adjustment improves the aesthetics of the wound after healing, and it can be peeled off easily by hand.



▲ 5HWH-8A

◇ Composition of product structure ◇



◇ Clinical case picture ◇



General surgery



Hip surgery



Humerus surgery



Thyroid surgery

▲ 4 cm



Model: 5HWH-4A

Intended use: Disposable non-invasive incision closing device for the epidermis

Materials: PSA, PA, PET, Hydrocolloid

Product components: PSA tape, regulating lever, locking mechanism, and release paper

Valid date: 30 months

Storage: product shall be stored indoors at 5~30 °C out of direct sunlight, and shall be free from corrosive gas and well ventilated.

Applicable wound length: 4cm

Sterilization method: Irradiation sterilization

Dimensions:

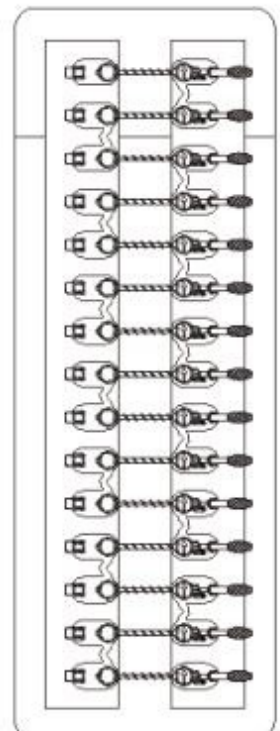
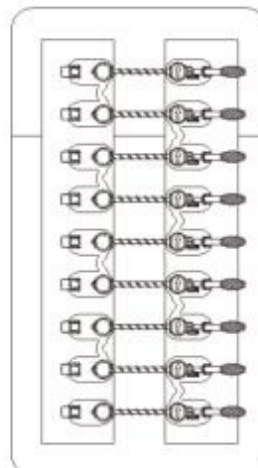
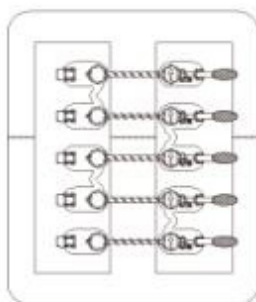
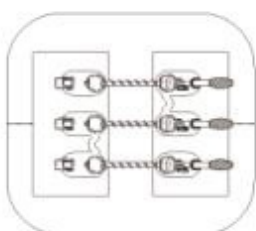
length of tape	width of tape	thickness	distance between tapes	length of lever
55mm	17mm	5mm	11mm	36mm

Packing details: 10sets per box, 20 boxes per carton

Total: 200 sets per carton

▲ Information of all models

Surgical Incision Closure set	Carton Dimension	Gross Weight	Volume
5HWH-4A(4cm)	316*291*230mm	2.9KG	0.022CBM
5HWH-6A(6cm)	451*316*251mm	4.4KG	0.036CBM
5HWH-8A(8cm)	530*370*220mm	5KG	0.044CBM
5HWH-10A(10cm)	451*316*251mm	5.5KG	0.036CBM
5HWH-14A(14cm)	530*376*280mm	6.25KG	0.057CBM
5HWH-16A(8cm x 2)	451*316*251mm	3.7KG	0.036CBM
5HWH-20A(10cm x 2)	451*316*251mm	4.2KG	0.036CBM

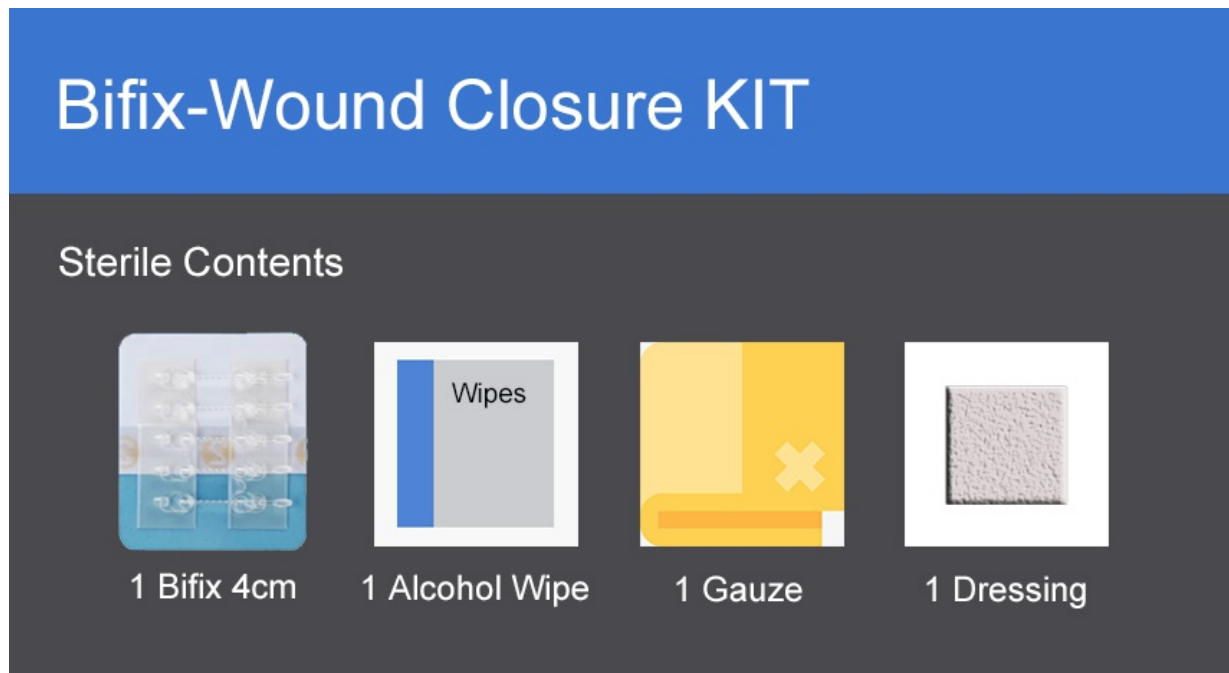


▲ Bifix-Wound Closure KIT

A superior way to close wound without stitches: effective and easy to use

Available without a prescription

Do it yourself for closing wounds whenever you are



Be prepared when accidents happened. Still willing to head for ER for stitches - a painful, invasive procedure? Our kit is perfect for you to face the trouble and saves your time and cost to the ER. It allows you to accomplish small wound closures at anywhere less than 3 minutes when emergency appears. It will not cause pain or secondary damage to the skin. And The accurate lever-adjusting system will constantly provide a proper force to reduce the tension of incision for longest 14 days due to its specially-designed adhesive in order to help ensure the wound heals properly and also leave better scar-looking.

- easy to use, time/cost saving
- no pain, no secondary damage
- no allergy, long lasting
- better scar-looking after healing
- proven in many clinical applications
- comfortable - conforms to body
- MEDICAL GRADE + CE



Wound Drainage Tube Securement Device

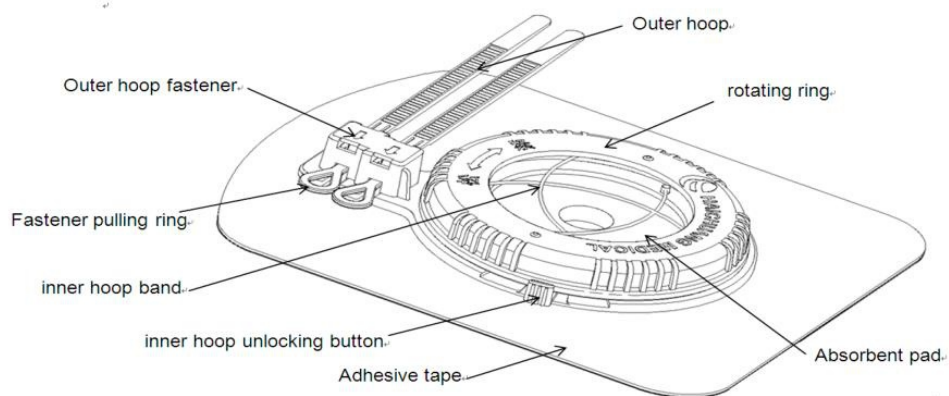
◇ Introduction ◇

Drainage Tube Securement Device is suitable for the fixation of all indwelling drainage tubes without any secondary damage to the skin, completely improved the traditional 'suture fixation' method and reducing the risk of drainage tube displacement and accidental extubation.

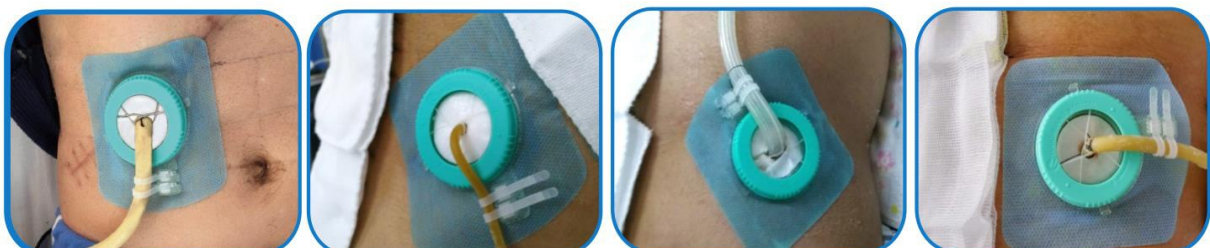


▲ GD8090-A

◇ Composition of product structure ◇



◇ Clinical case picture ◇



▲ GD8090-A



Product name: Drainage Tube Securement Device

Brand/Trade mark: LOOPIX

Model: GD8090-A

Materials: PSA, PET, Hydrocollod

Product components: The device is composed of adhesive tape, absorbent pad, rotating ring Outer hoop, Outer hoop fastener, fastener pulling ring, inner hoop band and inner hoop unlocking button.

Valid date: 30 months

Storage: -10°C-30°C, Keep dry.

Intended use: Intended to fix the drainage tube which can replace fixing with suture needles. And it can help minimize catheter movement and accidental removal to avoid secondary skin damage.

Applicable tube size: 6fr-36fr

Dimensions:

Area of Adhesive tape	Inner diameter of rotating ring	Outer diameter	Thickness of Rotating ring
90mm X 80mm	30mm	50mm	8mm

Packing details: 10sets per box, 20 boxes per carton

Total: 200 sets per carton

▲ Information of all models

Model	Carton Dimension	Gross Weight	Volume	pcs/CTN
GD8090-A	545*400*296mm	7.12kg	0.065CBM	200pcs/CTN

Neuromuscular electrical stimulator(DVT)

◇ Introduction ◇



Neuromuscular electrical stimulator is the 3rd generation technology to prevent and treat thrombosis. It uses neuromuscular electrical stimulation (NMES) technology to stimulate the common peroneal nerve, which stimulates the neuromuscular to contract continuously and rhythmically, promotes the flexion of the ankle joint, and enables the muscles to actively pump blood to improve the blood supply of the veins, arteries and microcirculation of the lower extremities. At the same time, NMES has a fibrinolytic effect and can have a synergistic effect with heparin. And it does not affect the user's blood pressure and heart rate.

◇ Product Function ◇

Prevent thrombosis

- ▲ Prevent venous thrombosis after lower extremity surgery
- ▲ Prevent thrombosis caused by long-time sitting and standing
- ▲ Prevent thrombosis caused by prolonged lying

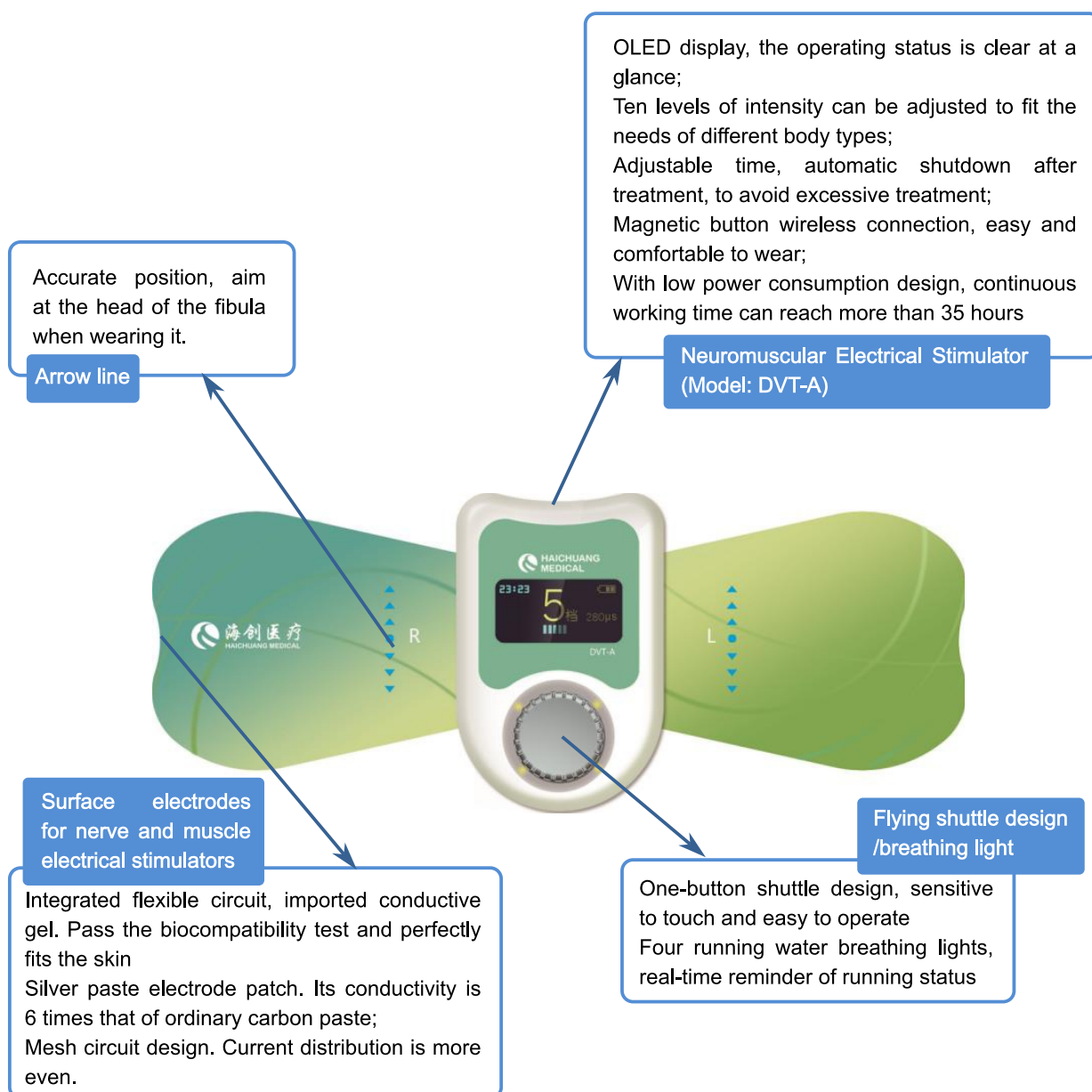
Reducing edema

- ▲ Remission of post-operative edema
- ▲ Remission and prevention of pathological lower extremity edema
- ▲ Reducing and preventing sports sprain and edema

Promote healing

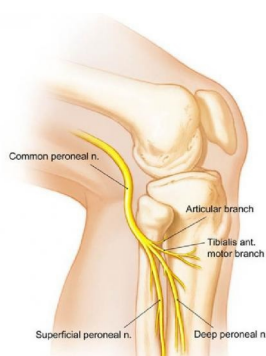
- ▲ Promote the healing of diabetic foot ulcers
- ▲ Promote healing of venous ulcers
- ▲ Promote wound healing

◇ Composition of product structure ◇



◇ Site of action ◇

Stimulate the common peroneal nerve.



◇ Applicable Department ◇

- | | |
|-------------------|--------------------|
| ✈ Orthopedics | ✈ ICU |
| ✈ Obstetrics | ✈ Endocrinology |
| ✈ General Surgery | ✈ Thoracic Surgery |
| ✈ Respiratory | ✈ Oncology |
| ✈ Neurosurgery | ✈ Urology |

◇ Effect ◇



Before use: Red blood cells superimposed into large particles

After wearing: Speed up blood flow to disperse superimposed red blood cells

Conclusion: It can effectively increase the blood flow rate of the user's lower limbs to 60% of the walking level, and can increase the venous volume flow by about 101%, the arterial flow by about 75%, and the microcirculation flow by about 400%.

◇ Product advantages ◇

	Stimulator	Pressure pump	Gradient elastic stockings
Maximum blood flow velocity	230 ~ 240 cm / s	35 ~ 60 cm / s	---The effect is weak if the person is inactive
Treatment time	Use 3 hours to reach the peak blood flow, 2 hours each time. Use 3-12 hours,	Use more than 12 hours to be effective. Use 6-24 hours.	After the operation, and the premise of being able to walk on the ground, as a supplement to treatment, it is generally used around the clock.
Advantages	Lightweight to wear, no noise, simple operation, multi-level adjustable, can be individually adjusted according to the patient's tolerance. The electrode pads can be used for one time to prevent cross-infection. Does not affect blood pressure and heart rate.	The pressure can be adjusted and can be used for pregnant women and patients with electronic device implantation.	Low cost, light and easy to wear, no noise.
Disadvantages	It cannot be used for patients with mental, psychological disorders, epilepsy and other neurological diseases. It is not available for malignant tumors and patients with pacemakers.	The main unit has a large volume and is only suitable for bedside use. It is noisy and is not suitable for patients with external fixation brackets on their lower limbs. It has a certain impact on heart rate and blood pressure.	Have a weak effect on patients with limbs incapable of movement, and its prolonged use has the risk of ischemia.

Wound Debridement Irrigator

◇ Introduction ◇

The single-use debridement irrigator is a jet cleaning system consisting of a droplet nozzle, splash cap, catheter, external medical oxygen and physiological saline. In wards, outpatient clinics or operating rooms, oxygen can be used as power to convert saline into microdrops and deliver them to the wound. The aerobic debridement of various types of wounds under the impact of microdrops is convenient, safe and effective.



◇ Features ◇



Aerobic micro-spray flushing



Precise and painless debridement and cleansing



Effective removal of bacterial biofilm

◇ Product characteristics ◇

- (1) The diameter of the microdrops is 5-100 microns, and the maximum speed can reach up to 200 m/s;
- (2) According to different wound situations, the pressure can be adjusted (oxygen flow: 4-15L/min), without damaging the healthy tissues;
- (3) 5ml of normal saline consumed per minute;
- (4) Micro-spraying aerobic debridement can effectively relieve the pain of patients;
- (5) Small and exquisite, no need for power supply, can be used beside the bed.

◇ Applicable Department ◇



Burns Department



Wound Repair Department



Orthopedics



Geriatrics



Refractory Wound Center



Wound Care Center

◇Application Illustration◇



◇Clinical effect◇

- √ Thoroughly remove bacterial, necrotic, cellular load, wound debris, and exudate;
- √ Effectively remove senescent cells at the wound edge, which is conducive to neonatal epithelial crawling;
- √ Meet the requirements and conditions of wet healing and promote the formation of epithelial cells;
- √ Reduce the pain of debridement with remarkable clinical effect.




◇Comparison of debridement methods◇

Debridement Method	Debridement Effect	Convenience	Pain
Micro spray aerobic debridement	++++	+++++	-
Surgical debridement	+++++	+++	+++++
Ultrasound debridement	++++	++	+++
Autolytic debridement	+	++++	-
Biological debridement	++	++	+

◇Clinical case picture◇



Incision Protector

-  Protect the incision
-  Prevent the infection
-  Easy to operate



◇ Composition of product structure ◇



Outer ring

Labor-saving shape design, using TPU material with good toughness and resilience, providing strong support while being easy to turn over. Good biocompatibility, environmentally friendly and degradable.

Membrane channel (super high strength)

The ultra-high toughness film can wrap the incision well, buffer bleeding, and protect the incision opening from contamination. Keep the incision moisture and provide a good surgical field of vision.

Insert ring

The lower ring is integrally injection molded, with good toughness and resilience, small incisions can be easily inserted, good biocompatibility, environmentally friendly and degradable.

◇ Features ◇

360° undamaged expansion

Achieve maximum exposure with the smallest incision size
Wrap the wound effectively reduce incision bleeding
The incision is evenly stressed, which minimizes the risk of potential trauma and pain

360° protected incision

Prevent wound contamination and infection
The edge of the wound is visible
Keep the wound moist
Prevent the incision from being burned by the electric knife

Convenient and widely used

Can be used quickly and easily by single person
Used for all types of operations
Maximize surgical efficiency and reduce the need for hand-held retractors
Can be used for single port laparoscopic surgery

Five models can cover all types of surgery, reducing the accumulation of department inventory.

▲ Information of all models

Model	Outer ring's outer diameter	Insert ring's outer diameter	Applicable length	Clinical application (for reference only)
XS	63mm	63mm	2-4cm	Appendicitis; Thoracic and Laparoscopic Surgery; Pediatric Surgery
S	97mm	97mm	2.5-6cm	Single port endoscopy; small incision surgery for cardiac, thyroid breast, and chest surgery
M	125mm	125mm	5-9cm	Endoscopic gastrointestinal assisted small incision surgery
L	190mm	190mm	9-14cm	Open surgery
XL	240mm	240mm	11-17cm	Gastrointestinal, liver and gallbladder, chest, gynecology surgery

Note:

1. Because all components can be deformed, dimensional tolerances of $\pm 5\text{mm}$ are allowed;
2. The length of the incision must be less than the outer diameter of the pipe (about 5 mm) to prevent the product from moving and affecting the operation.

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浙江海创医疗器械有限公司

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