



Official website



WeChat public account



>> Holmium Laser Medical Device

TEL:+86-0552-7153592

FAX:+86-0552-7118970

Postcode:233000

Address: No.1319Shanxiang Road,High-tech Zone,Bengbu City, Anhui Province.

<http://en.bioaer.cn/>

E-mail:bioaer01@hotmail.com

Service Hotline: +86-552-7118907

安徽航天生物科技股份有限公司
ANHUI AEROSPACE BIOTECHNOLOGY CO.,LTD.

Product introduction

Operating Principle

Holmium Laser Medical Device is produced by a pulsed solid laser device made of laser crystals (Cr, Tm, Ho: YAG) with yttrium aluminum garnet (YAG) as the matrix material, doped with sensitized ion chromium (Cr3+), energy transfer ion thulium (Tm3+), and activated ion holmium (Ho3+),The output wavelength is 2.1 microns.

Product feature

- ①When the holmium (Ho: YAG) laser with a wavelength of 2.1 microns irradiates human tissues, it is rapidly absorbed by the water (about 70%~90%) in the tissue, has a certain and stable penetration depth (about 0.4 mm) to the tissue, and is not affected by the pigment, so as to ensure that high-precision surgery can be carried out in the rich introduction area of important organs, nerves and blood vessels, and can safely and effectively carry out lithotripsy.
- ②Holmium Laser Medical Device can use various surgical consumables and medical endoscope to conduct interventional surgery through the natural cavity of the human body, avoid open surgery, reduce the patient's pain, and reduce the risk and cost of surgery.
- ③Holmium (Ho: YAG) laser with wavelength of 2.1 um is located in the middle infrared region invisible to the human eye, and the surgical field of view is clear.
- ④The man-machine interface is used to set and select parameters, digital display of working status, automatic display of power, and safety self-inspection, self-locking and emergency laser termination devices, which are easy to operate, safe and reliable in performance.
- ⑤Internal self-test of functions. The control system automatically and intelligently judges the laser output power. When the machine is abnormal, the laser automatically stops the laser output.

Product parameters

Technical parameters

Model	HT-HO-65W	HT-HO-75W
Wavelength	2,100nm ± 100 nm	2,100nm ± 100 nm
Pulse Repetition Frequency	High frequency and low frequency, continuously adjustable	High frequency and low frequency, continuously adjustable
Laser Pulse Width	Long and short pulse width, adjustable at will	Long and short pulse width, adjustable at will
Indicator Light	Green light indication, clear vision	Green light indication, clear vision
Transmission System	Multiple models, the fiber can be reused	Multiple models, the fiber can be reused
Cooling System	Built-in water cooling, ready to use after startup	Built-in water cooling, ready to use after startup
Power Supply	220VAC/50Hz	220VAC/50Hz
After-sales Service	Lifelong maintenance	Lifelong maintenance

Product accessories

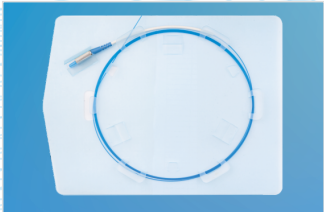
Order Number	Item Name
1	Instruction
2	Fiber
3	Fiber Stripper
4	Fiber Sutter
5	Foot Switch
6	Power Cord
7	Laser Protective Glasses
8	Dust Cover



Fiber Cutter



Fiber Stripper

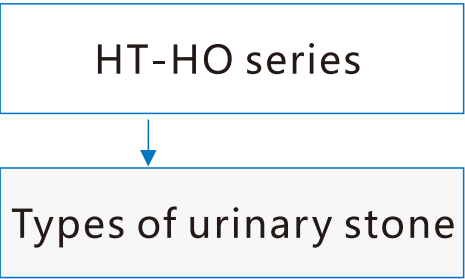


Fiber

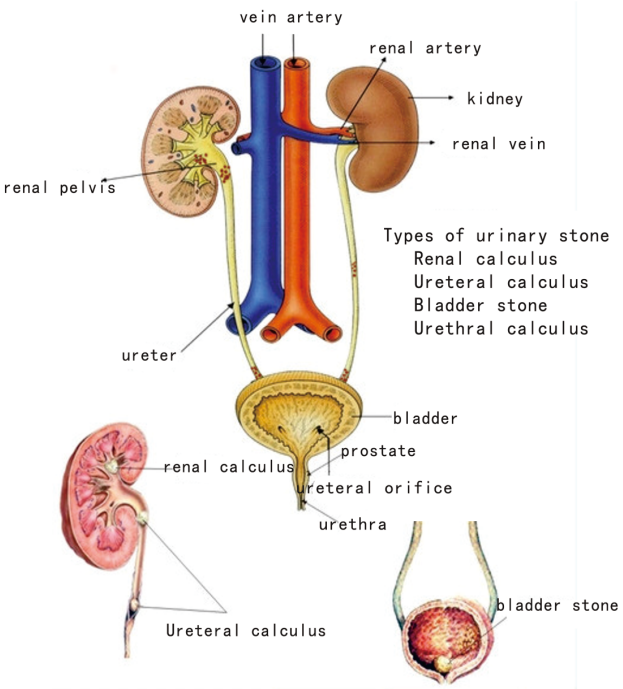


Man-machine Interface System

Clinical application



★ It is suitable for use in medical institutions and is used for lithotripsy of human urinary system



Performance and advantages

- **Strong technology** The R&D team of the enterprise has cooperated with Anhui Institute of Optics and Mechanics of the Chinese Academy of Sciences to establish an academician workstation.
- **Ultra-low mute** The working environment is comfortable to avoid machine noise interfering with doctors' operation.
- **System upgrade** Support continuous upgrading of subsequent machines.
- **Superior quality** The core components are imported with original packaging.
- **Conventional power supply** No special modification of the operating room, conventional power supply, easy to move.
- **After-sale service** 24-hour service hotline, regular maintenance for customers.
- **Long and short pulse width can be adjusted arbitrarily** Meet the clinical work mode under different pulse width
- **Laser coupling protection system** Protect the coupling lens from being damaged by the spatter caused by accidental damage of optical fiber.
- **Laser is more convergent and stable** The product has obtained national dual-soft certification and multiple patents, as well as the patent of solid-state laser fiber adaptive coupling device. Its performance is stable and conducive to the operation of surgery, while reducing the loss of endoscope.

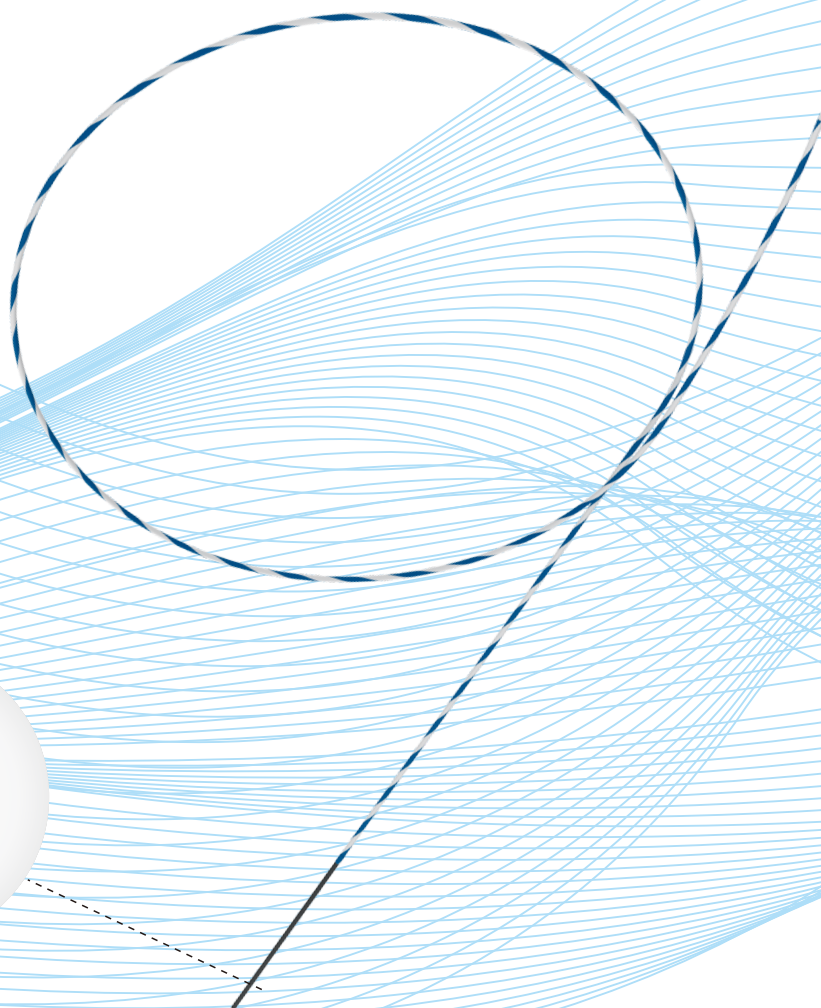
After-sale service

- “Basic after-sales service” of Bioaer
- With completely independent intellectual property rights, engineers have a hundred times confidence in each equipment produced and know it well. They can respond and solve any problem that may occur during the operation of the equipment in the shortest time to fully guarantee the reliability of the equipment, which is beyond the ability of the imported equipment agent.
- According to the individual needs of customers, we have launched exclusive after-sales service packages in various ways, such as "three years of continuous warranty" and "five years of continuous warranty", which will bring greater convenience and benefits to users.
- The service line is online 24 hours a day, 365 days. After-sales service engineers respond actively within 2 hours, and carry out routine maintenance twice a year; Consumables are only charged at cost.



**Offer overall plan
Hope for a win-win future**

**Super slippery coating, easy to push
Spherical end, damage prevention**



Urological Guidewire

► Product feature

- The surface of the Guidewire adopts (hydrophilic/hydrophobic) super slippery coating, which can significantly reduce the friction of the surface and is easy to push.
- The head end of the product is designed to be hemispherical and smooth to prevent damage to mucosal tissues during use.
- The mandrel adopts superelastic nickel-titanium alloy, which has excellent rigidity and anti-twisting performance.

Model	Maximum Diameter	Length	Coating Material
GW-A/032	0.032in	1500mm	The guidewire is coated with hydrophilic polymer .
GW-A/035	0.035in	1500mm	The guidewire is coated with hydrophilic polymer .
GW-B/028	0.028in	1500mm	The guidewire is coated with hydrophobic and special two-color alternating film.
GW-B/032	0.032in	1500mm	The guidewire is coated with hydrophobic and special two-color alternating film.
GW-B/035	0.035in	1500mm	The guidewire is coated with hydrophobic and special two-color alternating film.
GW-C/032	0.032in	1500mm	The guidewire is coated with hydrophobic and special two-color alternating film. The head end of the guidewire is coated with hydrophilic polymer .
GW-C/035	0.035in	1500mm	The guidewire (except the head end) is covered with hydrophobic and special two-color alternating film. The head end of the guidewire is coated with hydrophilic polymer .



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Offer overall plan

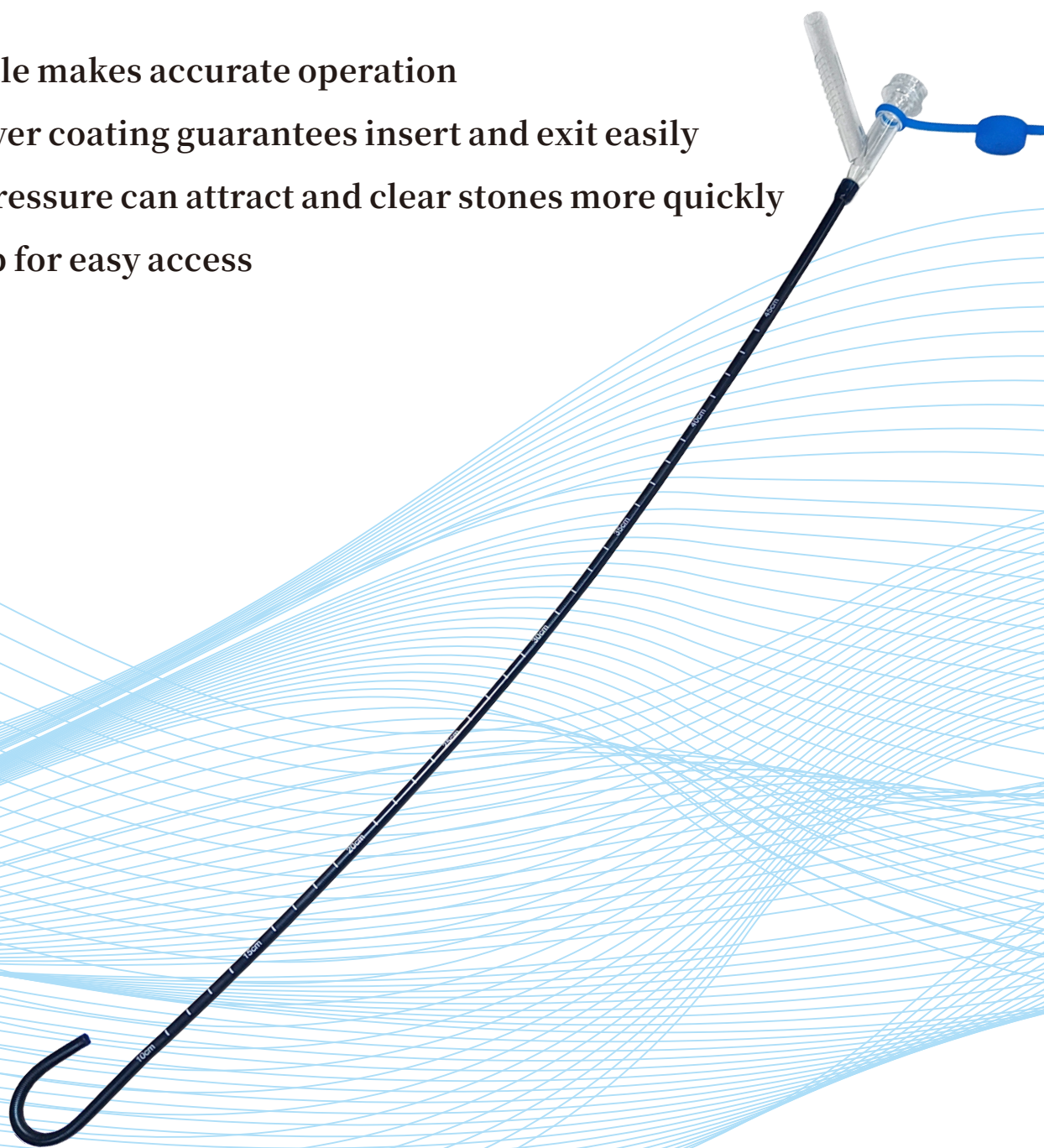
Hope for a win-win future

Double scale makes accurate operation

Double -layer coating guarantees insert and exit easily

Negative pressure can attract and clear stones more quickly

Flexible tip for easy access

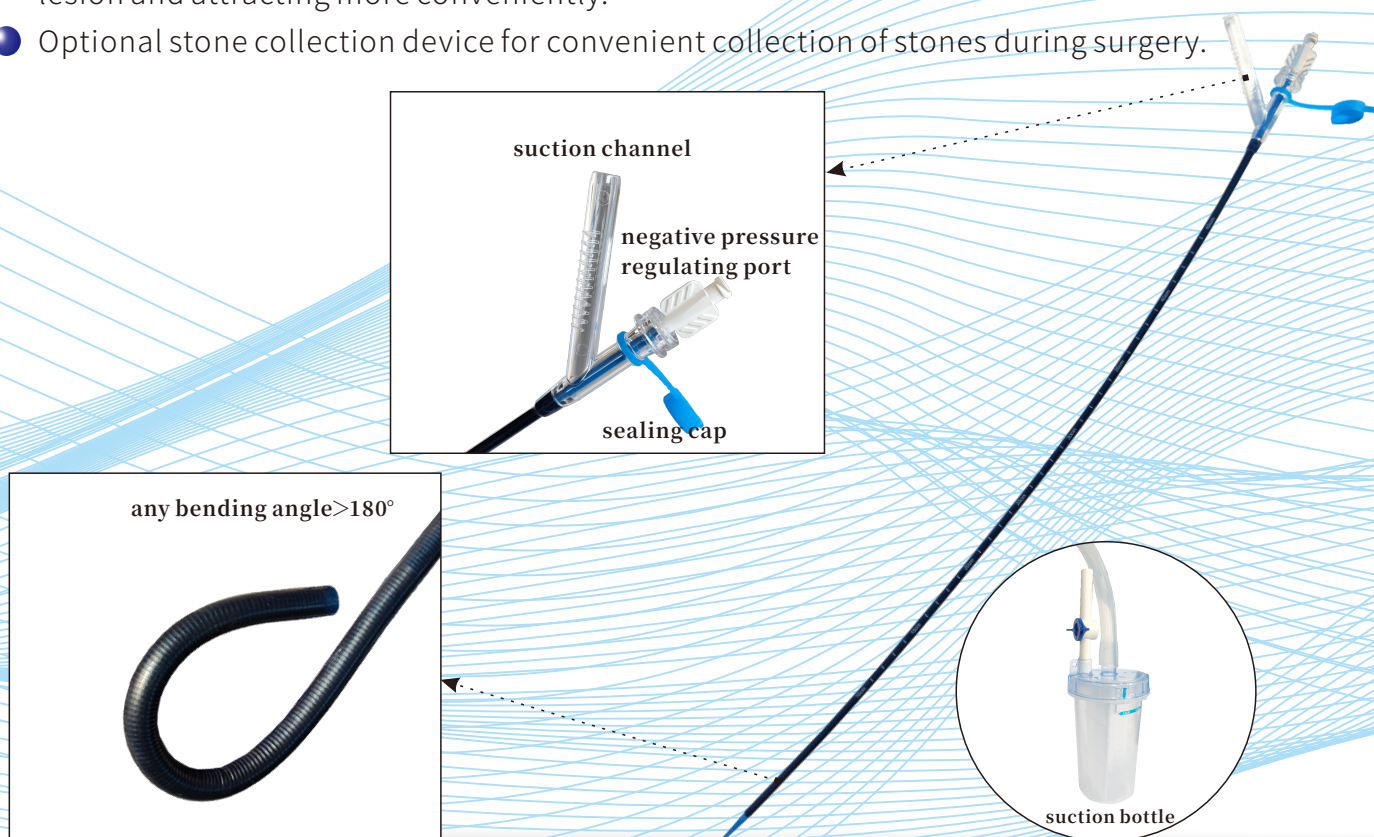


Flexible Negative Pressure Suction Sheath



► Product feature

- The scale marking and coating process of the expansion tube, which can effectively solve the operation safety of the pre-expansion for ureter stricture.
- Both internal and external hydrophilic coatings are coated with double-layer coating and UV curing process to ensure the lubrication and firmness of the coating.
- The inner wall of the sheath tube is made of PTFE, which can protect the Flexible Ureteroscope instrument effectively.
- A Y-shaped negative pressure suction channel is designed with a negative pressure regulating port, which allows for simultaneous stone removal and lithotripsy, effectively balancing renal pressure, improving stone removal rate, and reducing surgical complications.
- The tip adopts extended and flexible design, bending angle $>180^\circ$, which can be combined with the Flexible Ureteroscope bending part to bend at any angle, directly reaching the lesion and attracting more conveniently.
- Optional stone collection device for convenient collection of stones during surgery.



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Disposable Ureterorenoscopes Catheter

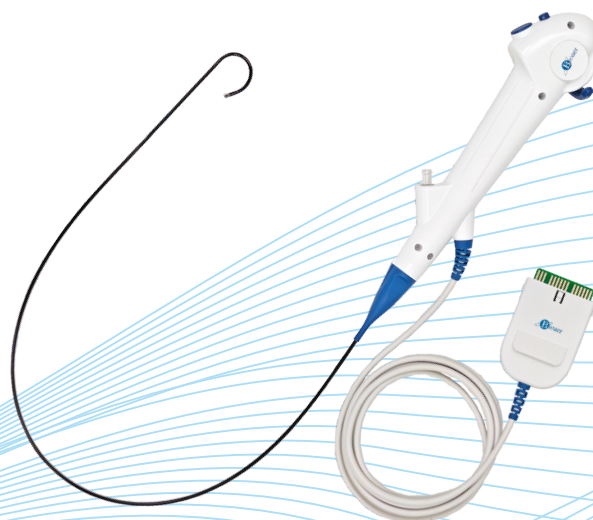
SU series

Focus on clinical needs
Guard the health of life

Disposable Ureterorenoscopes Catheter

Product Feature

- ☐ Extra large instrument channel
- ☐ Bidirectional bending
- ☐ Extremely large bending angle
- ☐ 7.5Fr ultra-fine outer diameter (SU-II)



SU series

Product parameters

Models	Working Length	Depth of field	Outer diameter of insertion tube	Field of view	Instrument channel diameter
SU-I (Standard)	670 mm	2~50mm	8.4Fr	110°	3.6Fr
SU-II (Ultra-fine)	670 mm	2~50mm	7.5Fr	110°	3.6Fr

Electronic Endoscope Imaging Processor

BV-I series

Product Feature

- ☐ Image effect personalized Settings
- ☐ 1080P HD image output
- ☐ Support endoscope with electric plug,easy to use
- ☐ Capture and video recording functions(USB disk is suitable for use)
- ☐ The system supports offline upgrades
- ☐ HDMI



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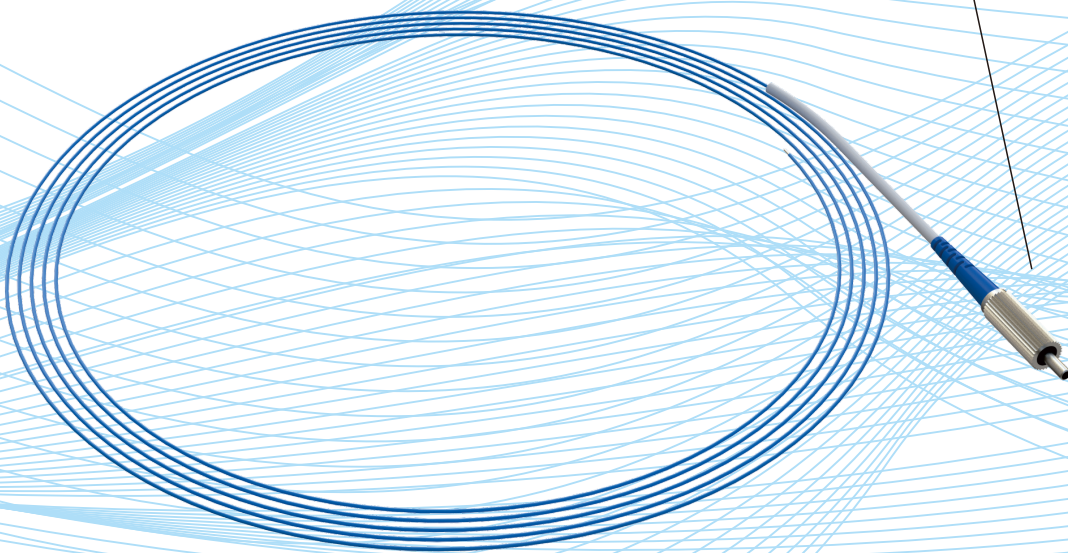
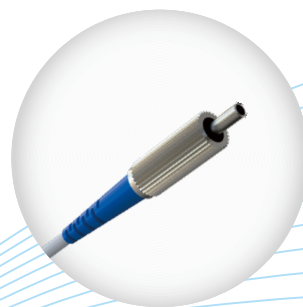


**Offer overall plan
Hope for a win-win future**

Double products with multiple specifications to meet different needs

High quality fiber core ensures transmission efficiency

Universal interface, suitable for different scenarios



Medical Laser Fiber

► Medical Laser Fiber

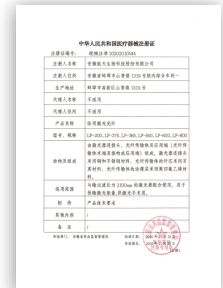
Models: LF-200、LF-275、LF-365、LF-550、LF-600、LF-800

Parameters

- Fiber length: 3m
- Maximum transmission power: 30W/35W/60W

Product feature

- Resistance to repeated disinfection, reusable, effectively reducing the use cost.
- Double-layer composite protective outer layer, tensile and durable, not easy to fold.
- The optical fiber adopts high-purity quartz transmission body, with transmission efficiency up to 1.3 times of the general standard.
- Equipped with SMA905 standard optical fiber connector, with high versatility.
- Ultra-small working radius, after ultimate bending, the transmission efficiency is still not less than 90%.



► Medical Laser Fiber

Models: DMLF-2001、DMLF-2751、DMLF-3651、DMLF-5501、DMLF-8001、DMLF-200、DMLF-275、DMLF-365、DMLF-550、DMLF-800、DMLF-2002、DMLF-2752

Parameters

- Fiber length: 2.5m、3m、4m
- Maximum transmission power: 30W/35W/60W

Product feature

- Double-layer composite protective outer layer, tensile and durable, not easy to fold.
- Pre-sterilization of optical fiber, ready to use, can effectively improve the operation efficiency and reduce the sense of hospital.
- The optical fiber adopts high-purity quartz transmission body, with transmission efficiency up to 1.3 times of the general standard.
- Equipped with SMA905 standard optical fiber connector, with high versatility.
- Ultra-small working radius, after ultimate bending, the transmission efficiency is still not less than 90%.



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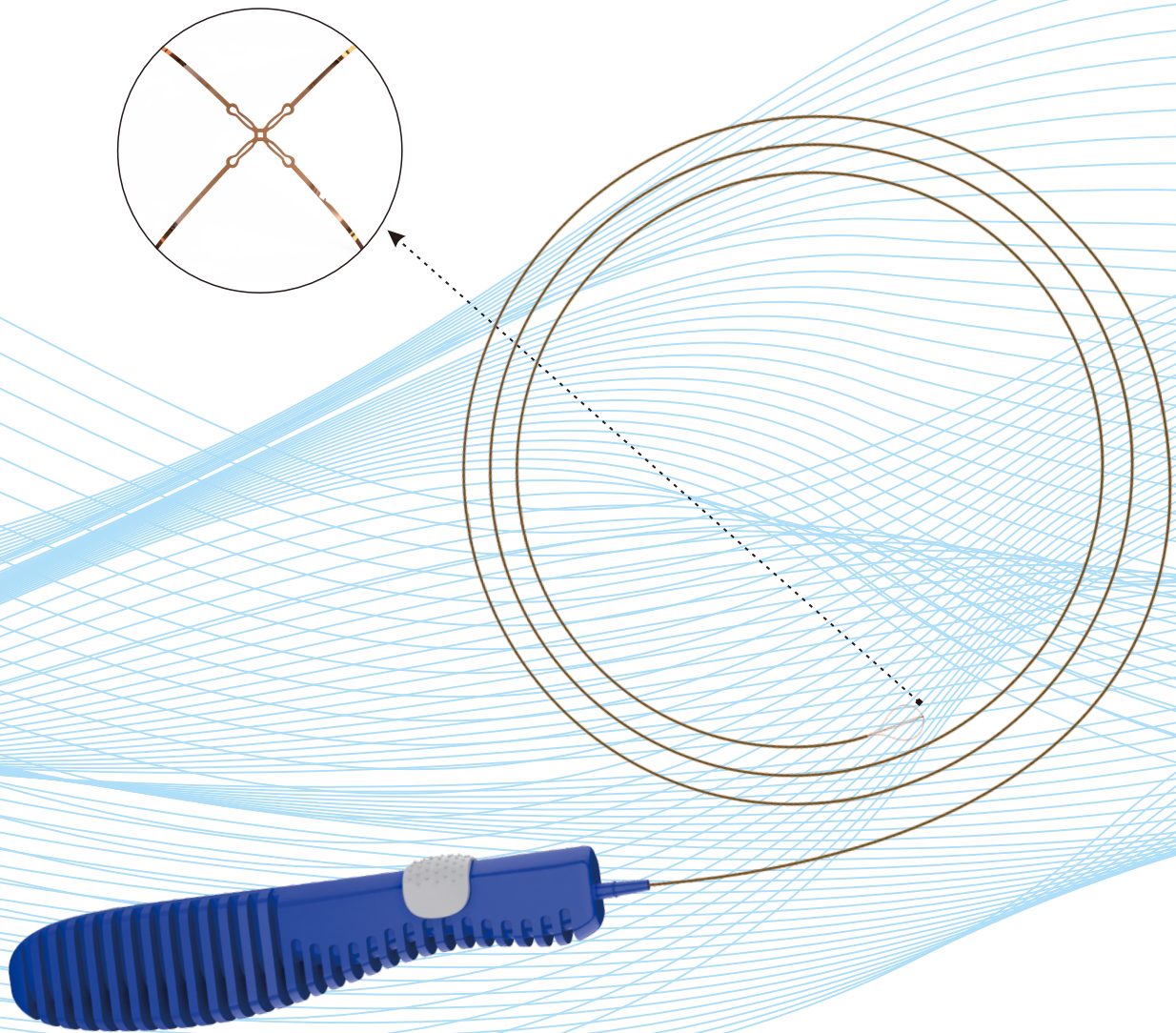
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Offer overall plan

Hope for a win-win future

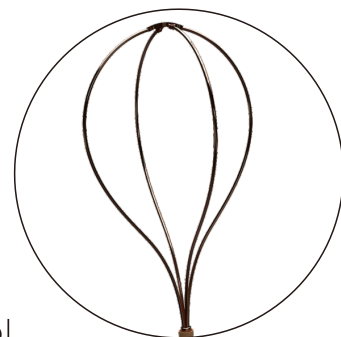
**German Nitinol, super memory, easy to operate
Laser cutting technology and headless
structure to prevent damage**



Disposable Endoscope Stone Basket

► Product feature

- It is made from nickel-titanium memory metal from Germany, which is easy to operate.
- Laser cutting technology is adopted to form a headless structure and avoid mucosal trauma to the greatest extent.
- The head of the basket can rotate freely with the handle for easy control.
- The appearance adopts special material, which has a balance with strength and softness.



Model	Number of basket wire	Diameter of Sheath pipe	Work Length	Basket size
SRF-418-07	4	1.8Fr	700mm	10mm
SRF-422-07	4	2.2Fr	700mm	11mm
SRF-430-07	4	3.0Fr	700mm	11mm
SRF-440-07	4	4.0Fr	700mm	13mm
SRF-418-12	4	1.8Fr	1200mm	10mm
SRF-422-12	4	2.2Fr	1200mm	11mm
SRF-430-12	4	3.0Fr	1200mm	11mm
SRF-440-12	4	4.0Fr	1200mm	13mm



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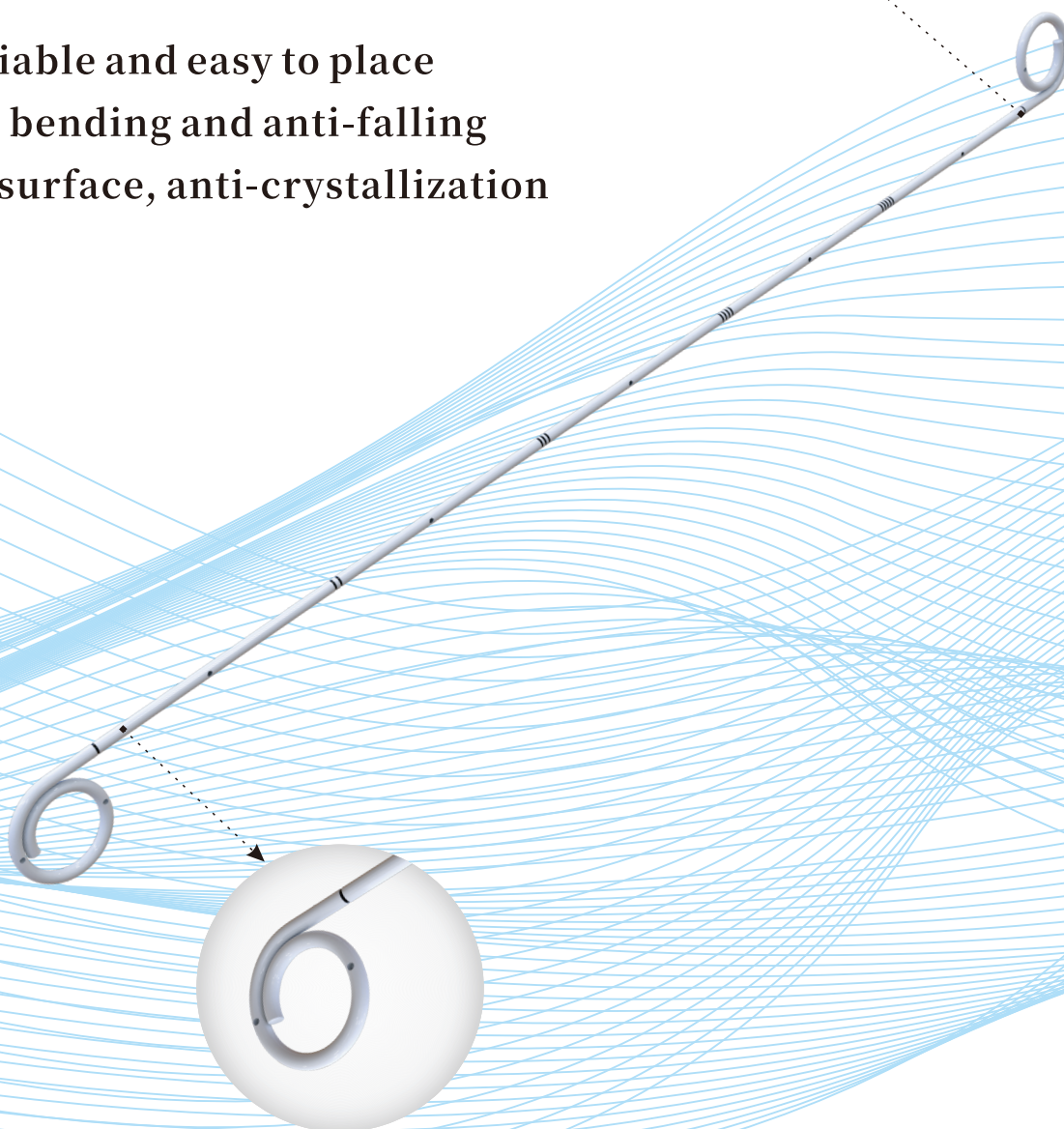
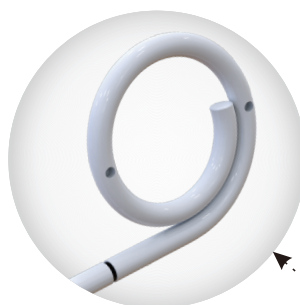
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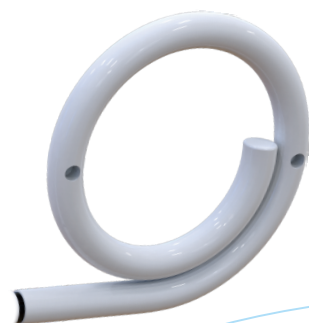
**Safe, reliable and easy to place
Suitable bending and anti-falling
Smooth surface, anti-crystallization**



Ureteral Stent

► Product feature

- Imported temperature-sensitive materials are used to ensure reliable biocompatibility.
- Smooth, hard to crystallization; slightly hard external texture, which is convenient for doctors to operate.
- The material has good memory and suitable fixation strength to prevent falling off.
- The curved part adopts kidney coil design, which is easy to take out.



Model	Size	Quantity	Head end
US-4.8F-1	4.8Fr x 260mm	5 sets/box	Single opening
US-6F-1	6Fr x 260mm	5 sets/box	Single opening
US-7F-1	7Fr x 260mm	5 sets/box	Single opening
US-4.8F-2	4.8Fr x 260mm	5 sets/box	Double opening
US-6F-2	6Fr x 260mm	5 sets/box	Double opening
US-7F-2	7Fr x 260mm	5 sets/box	Double opening



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