

UROLOGY
COMPREHENSIVE UROLOGICAL
SURGERY SOLUTIONS
PRODUCTS

World-class surgical innovation for humanity.



WhatsApp



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SURGSCI MEDICAL LTD.

SurgSci focuses on core technologies and innovative applications in minimally invasive surgery. The company has established three major technology platforms: medical-grade metal materials, polymer materials, and artificial intelligence algorithms. These platforms support two primary product lines—surgical instruments and surgical consumables.

SurgSci has successfully overcome key technical challenges in high-performance medical titanium alloys, advanced piezoelectric ceramic materials, and AI-driven intelligent ultrasonic high-frequency surgical systems. As a result, the company has launched an intelligent ultrasonic high-frequency surgical system along with a range of innovative implantable and interventional surgical consumables.

Currently, SurgSci leads one national key R&D program under China’s Ministry of Science and Technology, one major project supported by the Ministry of Industry and Information Technology, and one key technical breakthrough initiative in Shenzhen. The company has published multiple high-impact academic papers internationally and filed over 160 domestic and international patent applications.

Guided by the mission of “improving human health and quality of life,” SurgSci remains committed to clinical needs, empowering physicians and benefiting patients. The company strives to become a globally accessible, world-class platform for surgical innovation.



Mission
Improving Human Health and Quality of Life



Vision
World-class surgical innovation for humanity.



Quality Policy
Quality First, Talent-Led, Innovation-Powered, Excellence Pursued

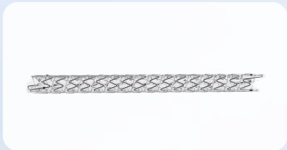
UROLOGICAL SURGICAL PRODUCT

URETERAL STENT SYSTEM



01

URETERAL COVERED STENT SYSTEM



03

ELECTRONIC ENDOSCOPE IMAGE PROCESSOR
SINGLE-USE DIGITAL FLEXIBLE URETEROSCOPE



05

DISPOSABLE URETERAL STENT KITS



DISPOSABLE MINIMALLY INVASIVE
DILATATION DRAINAGE KITS



DISPOSABLE UROLOGICAL GUIDEWIRE

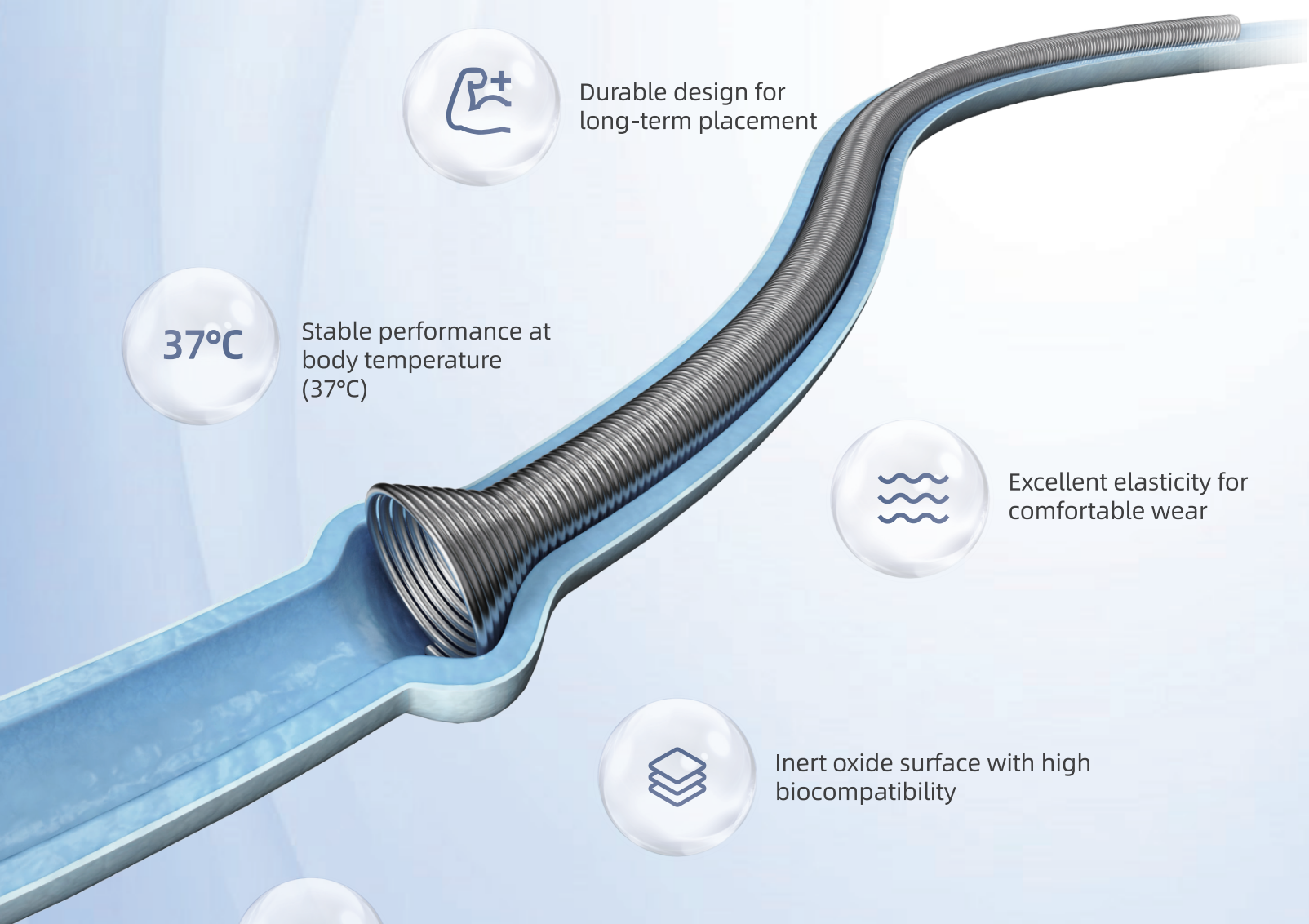


DISPOSABLE URETERAL ACCESS SHEATH



09

URETERAL STENT SYSTEM



Durable design for long-term placement



Stable performance at body temperature (37°C)



Excellent elasticity for comfortable wear



Inert oxide surface with high biocompatibility



Dense design to inhibit tissue ingrowth



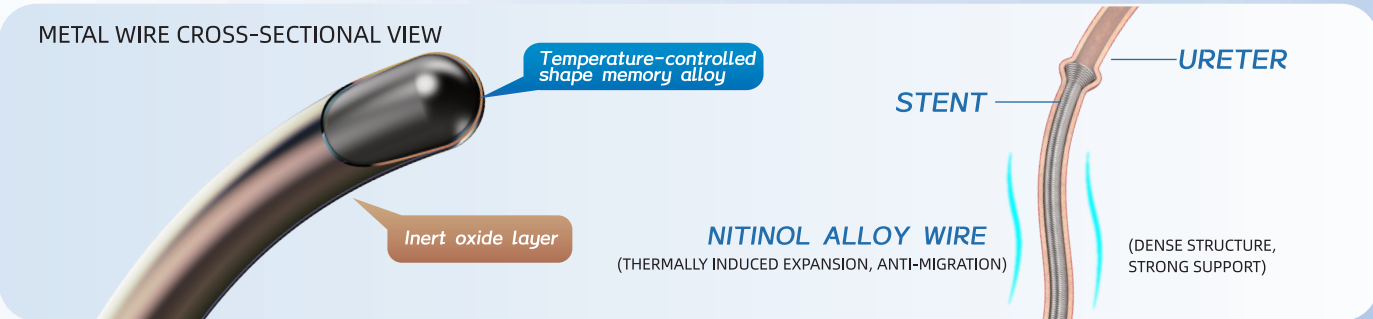
Temperature-responsive stent technology

Dense oxide layer supports multi-year indwelling

Product Highlights

The innovative nickel-titanium shape memory alloy ureteral stent exhibits temperature-responsive behavior:

- At 60-65°C, one end expands to ensure secure placement.
- At body temperature (37°C), the stent maintains a tightly coiled spiral for stable, long-term fixation.
- At 5°C, the spiral relaxes, facilitating easy and atraumatic removal.



- ✓ Stable physical properties for long-term performance. No risk of collapse; safe, non-traumatic removal
- ✓ Biocompatible inert oxide layer. Lower risk of infection and stone formation
- ✓ Preserves ureteral motion; conforms to natural anatomy; prevents distal stenosis
- ✓ No irritation, pain, reflux, or foreign body sensation; no need for repeat surgeries; improves patient comfort and mobility

Clinical indications:

Ureteral strictures due to pelvic or retroperitoneal tumors, or fibrosis
Benign strictures from iatrogenic ureteral injury
Long-term stent placement (>6 months)

Specifications

Product Model		Length	Expansion Segment OD	Support Segment OD
Antegrade Delivery	Retrograde Delivery			
SURSM-A-30	SURSM-R-30	30mm	7mm	3.45mm
SURSM-A-60	SURSM-R-60	60mm		
SURSM-A-100	SURSM-R-100	100mm		
SURSM-A-150	SURSM-R-150	150mm		
SURSM-A-200	SURSM-R-200	200mm		
SURSM-A-250	SURSM-R-250	250mm		

URETERAL COVERED STENT SYSTEM



Product Overview

The stent's middle segment provides high radial force for stricture dilation; both ends feature lower radial force to reduce friction and tissue hyperplasia; radiopaque markers at both ends enable precise X-ray localization.

Polymer membrane covering

Nitinol alloy wire

Radiopaque markers (Tantalum)

Three-segment design

Low radial force at both ends

Radial force (high in the middle)

Low radial force at both ends

Tear-away thread
(uncoiling for easy removal)

Torn removal state

Delivery system total length: approx. 110 cm; compatible with 0.035 inch x 180 cm hydrophilic guidewire

Large-angle tapered head design
Reduces traction risk after stent deployment

10Fr

Multiple equidistant visual markers (inner tube)
Assist with in-body positioning

Product Features

- ✓ **Nanocoating:** Reduces microbial and particle adhesion
- ✓ **Membrane:** Multi-layered, resists tissue ingrowth, easy removal
- ✓ **Structure:** Self-expanding, gentle radial support, prevents collapse
- ✓ **Monofilament:** Low impurity, uniform force, corrosion-resistant
- ✓ **Tantalum markers:** Radiopaque for precise positioning
- ✓ **Diameter:** 24-30 Fr, large lumen for smooth drainage
- ✓ **Uncoiling design:** Tear line for easy removal, no complex steps

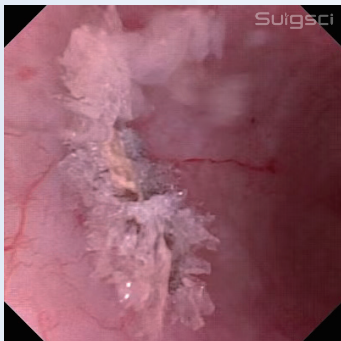
Clinical indications:

Upper urinary tract obstruction due to tumors or fibrosis | Early intervention for ureteral leakage
Benign ureteral stricture from iatrogenic injury | Long-term stent placement (>6 months)

Specifications

Model	SURS-8-100	SURS-8-120	SURS-9-200	SURS-10-100	SURS-10-120	SURS-10-160
Diameter (mm)	8	8	9	10	10	10
Length (mm)	100	120	200	100	120	160

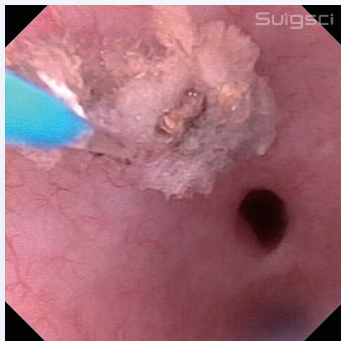
SINGLE-USE DIGITAL FLEXIBLE URETEROSCOPE



High-Resolution Imaging

Delivers accurate color reproduction to minimize misjudgment and operational errors.

Stable Signal with Anti-Interference Capability



Wide Field of View

Enhanced visualization 120° wide field of view, 3-50 mm depth of field, minimal repositioning required.

ELECTRONIC ENDOSCOPE IMAGE PROCESSOR



PHOTO



VIDEO



FREEZE



ZOOM



WB

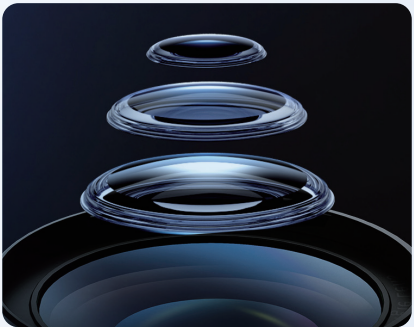


LIGHT

Supports photo capture, video recording, image freeze, auto focus, white balance, and brightness adjustment (+/-).

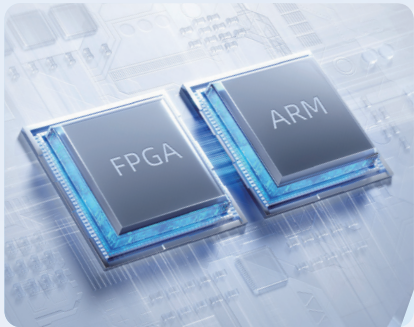
Compatibility

Broad compatibility Auto-detects various endoscope types; supports 160K/1MP/2MP cameras.



Performance

High-performance imaging FPGA + ARM architecture ensures stable, ultra-low-latency imaging.



Output & Support

Full HD output 1080P via HDMI/DVI; Dual USB ports and TF card for data storage.



HDMI/DVI



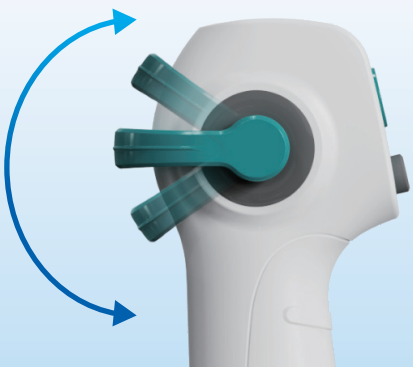
USB/TF

Joystick-controlled deflection hold

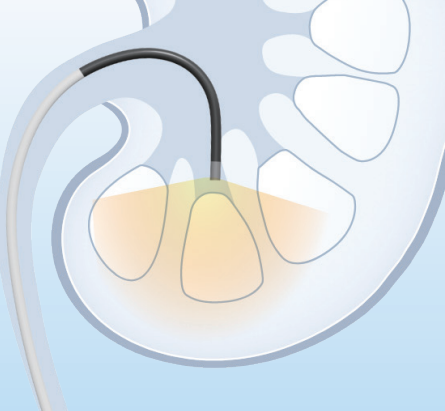


Navigation Sheath

Negative-pressure sheath allows bending $\geq 180^\circ$
Joystick-guided sheath deflection with stable positioning



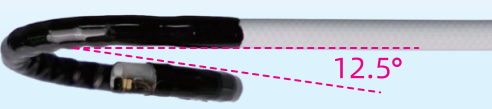
Bidirectional Maximum Deflection: $285^\circ \pm 15^\circ$
Ergonomic handling with precise, Minimum backlash positioning



Enhanced Safety and Reliability
1:1 torque transmission with excellent coaxial alignment



12.5° 3D Deflection Capability



Instrument Channel Inner Diameter: 3.6 Fr
Insertion Tube Outer Diameter: 7.5 Fr (2.5 mm)
Working Length: 670^{+0}_{-10} mm



285°

UP **DOWN**

Bidirectional Maximum Deflection: $285^\circ \pm 15^\circ$
Compatible with 200 μ m laser fiber and standard stone retrieval basket
Maintains bidirectional deflection up to 275° even when loaded
Minimum Bending Radius: 7.5 mm



160,000-pixel high-definition CMOS sensor
Smooth distal tip design for easy intraoperative insertion

2 LED Light **Dual LED**
Multi-level brightness optimization

Depth of Field: 3-50 mm
Field of View: 120°
Viewing Direction: 0° (straight ahead)



Adjustable locking and sealing three-way stopcock

Protective sheath safeguards the insertion tube.

SINGLE-USE DIGITAL FLEXIBLE URETEROSCOPE

DISPOSABLE URETERAL STENT KITS

- ✓ Material: Imported medical-grade polymer for optimal flexibility, kink resistance, and biocompatibility
- ✓ Excellent X-ray visibility for precise positioning; Single-end and double-end options to suit varied clinical scenarios
- ✓ Compatible with multiple guidewires for broad surgical applicability
- ✓ Optional fixation clip enables rapid and flexible stent occlusion.



Model	Tip Type	Stent Sizes	Guidewire Clip
USJ 01 05	Single-ended	4.7 Fr	Not included
USJ 01 06	Single-ended	6.0 Fr	Not included
USJ 01 07	Single-ended	7.0 Fr	Not included
USJ 01 08	Single-ended	8.0 Fr	Not included
USJ 02 05	Double-ended	4.7 Fr	Not included
USJ 02 06	Double-ended	6.0 Fr	Not included
USJ 02 07	Double-ended	7.0 Fr	Not included
USJ 02 08	Double-ended	8.0 Fr	Not included

Model	Tip Type	Stent Sizes	Guidewire Clip
USJ 01 05 T	Single-ended	4.7 Fr	Included
USJ 01 06 T	Single-ended	6.0 Fr	Included
USJ 01 07 T	Single-ended	7.0 Fr	Included
USJ 01 08 T	Single-ended	8.0 Fr	Included
USJ 02 05 T	Double-ended	4.7 Fr	Included
USJ 02 06 T	Double-ended	6.0 Fr	Included
USJ 02 07 T	Double-ended	7.0 Fr	Included
USI 02 08 T	Double-ended	8.0 Fr	Included

DISPOSABLE MINIMALLY INVASIVE DILATATION DRAINAGE KITS

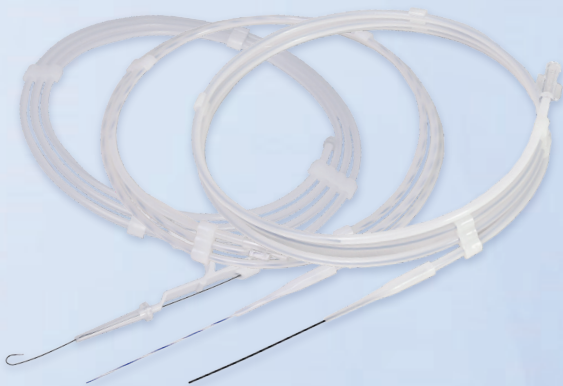
- ✓ Dilators: High hardness and elasticity. 2 Fr stepwise expansion lowers insertion resistance and reduces renal injury.
- ✓ Sheath: Tear-away design with clean edges; short tapered tip reduces access complications.
- ✓ Puncture Needle: Polished tip for clear radiopacity. Sharp, straight puncture with scale markings for precise positioning.
- ✓ Guidewire: Soft front, ultra-stiff back for strong support. Smooth insertion with low risk of dislodgement.



Model	Sheath Size (Fr) (Outer diameter)	Dilator Size (Fr): (Outer diameter)	Puncture Needle Size (Ga): (Outer diameter)	Guidewire Size (inch) (Outer diameter)
UEDA18	18	8, 10, 12, 14, 16, 18	Not included	Not included
UEDA20	20	10, 12, 14, 16, 18, 20	Not included	Not included
UEDA22	22	12, 14, 16, 18, 20, 22	Not included	Not included
UEDB18	18	8, 10, 12, 14, 16, 18	18	0.035
UEDB20	20	10, 12, 14, 16, 18, 20	18	0.035
UEDB22	22	12, 14, 16, 18, 20, 22	18	0.035

DISPOSABLE UROLOGICAL GUIDEWIRE

- ✓ Facilitates smooth ureteral access across diverse clinical scenarios.
- ✓ Hydrophilic coating: PVP-coated surface reduces friction and enhances trackability.
- ✓ Atraumatic tip: Soft, rounded design minimizes urethral and tissue trauma.
- ✓ Constructed from Nitinol memory alloy for strong support, enhanced trackability, and precise control



Available in J-tip, Zebra, and Loach types to suit varied clinical needs

Model	Model	Model	Model
UGWA01815	UGWA03215	UGWB02815	UGWC03215
UGWA01815J	UGWA03215J	UGWB03215	UGWC03215J
UGWA02515	UGWA03515	UGWB03515	UGWC03515
UGWA02515J	UGWA03515J	UGWB03815	UGWC03515J
UGWA02815	UGWA03815	UGWC02815	UGWC03815
UGWA02815J	UGWA03815J	UGWC02815J	UGWC03815J

DISPOSABLE URETERAL ACCESS SHEATH

- ✓ Hydrophilic coating reduces insertion friction and enhances patient comfort.
- ✓ Stainless steel reinforcement offers flexibility and resistance to kinking and compression.
- ✓ Smooth sheath-dilator transition improves insertion and access success.
- ✓ Integrated spring coil enhances pushability and handling.



Model	Sheath Inner Diameter (Fr)	Sheath Inner Diameter (mm)	Sheath Working Length	Model	Sheath Inner Diameter (Fr)	Sheath Inner Diameter (mm)	Sheath Working Length
UASA1035	10	3.3	350	UASB1035	10	3.3	350
UASA1045	10	3.3	450	UASB1045	10	3.3	450
UASA1055	10	3.3	550	UASB1055	10	3.3	550
UASA1235	12	4.09	350	UASB1235	12	4.09	350
UASA1245	12	4.09	450	UASB1245	12	4.09	450
UASA1255	12	4.09	550	UASB1255	12	4.09	350
UASA1435	14	4.63	350	UASB1435	14	4.63	550
UASA1445	14	4.63	450	UASB1445	14	4.63	450
UASA1455	14	4.63	550	UASB1455	14	4.63	550

Indications for Use

Establishes a secure working channel for uretero-
scopic renal/ureteral stone management.

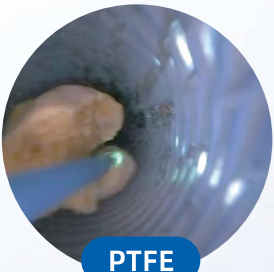


Flexible Tip

Atraumatic entry: Tapered transition between dilator and sheath ensures smooth, gradual dilation.



Vacuum Connection Port



PTFE

Low-friction lumen; smooth bendable segment; efficient stone extraction under suction.



Negative Pressure Port with Sliding Cap

Integrated suction port for continuous irrigation and debris removal. Manual pressure control for optimized visibility and flow regulation



Bendable Tip

Precise sheath placement
Efficient pre-dilation
Improved access accuracy
Enhanced procedural flow



Rigid outer sheath

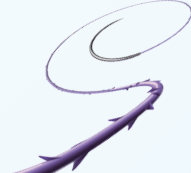
Wire-reinforced for flexibility and kink resistance
Compression-resistant for stable trackability
Hydrophilic coating to reduce friction

MORE PRODUCT...

Minimally Invasive Surgical Consumables



Disposable Laparoscopic Trocar Kits



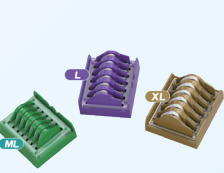
Absorbable Surgical Suture



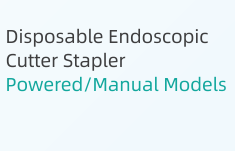
Disposable Laparoscopic Specimen Retrieval Bag



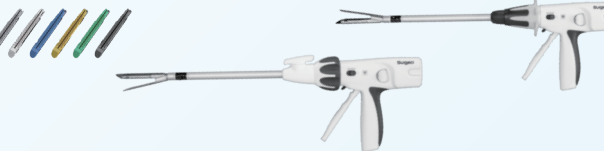
Disposable Suction Irrigator



Disposable Ligating Clip



Disposable Endoscopic Cutter Stapler
Powered/Manual Models

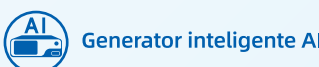




Surgical Energy Platform



2IN1 GENERATOR



Generator intelligente AI



Bipolar Vessel Sealing Device



Ultrasonic Shears: Gun-Type & Scissor-Type

For more product information, please contact us.
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