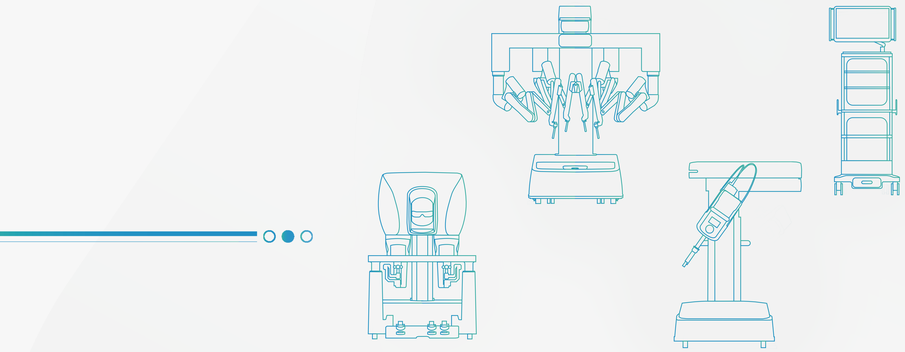
EDGE MEDICAL



The First in China, Second in the World

Integrating Both Multi-Port and Single-Port Technology

Shenzhen Edge Medical Co., Ltd.

- No. 76 Baohe Avenue, Longgang District, Shenzhe
- 400-860-9000
- Contact@edgemed.cn
- www.edgemed.cn

EDGE MEDICAL

Edge Single-Port Endoscopic Surgical Robotic System SP1000

Advancing Surgery, Elevating Care

Single-Arm, Single-Port Design

- **Flexible Surgical Instruments:**
  Bendable surgical instruments with a compact Y-shaped configuration of the instrument and endoscope, establishing an effective operating triangle.

Single Arm Design:
Integrated design with no interference or collision of the robotic arms outside the body.

Lighter

- Easily maneuverable with one hand, facilitating pre-operative deployment

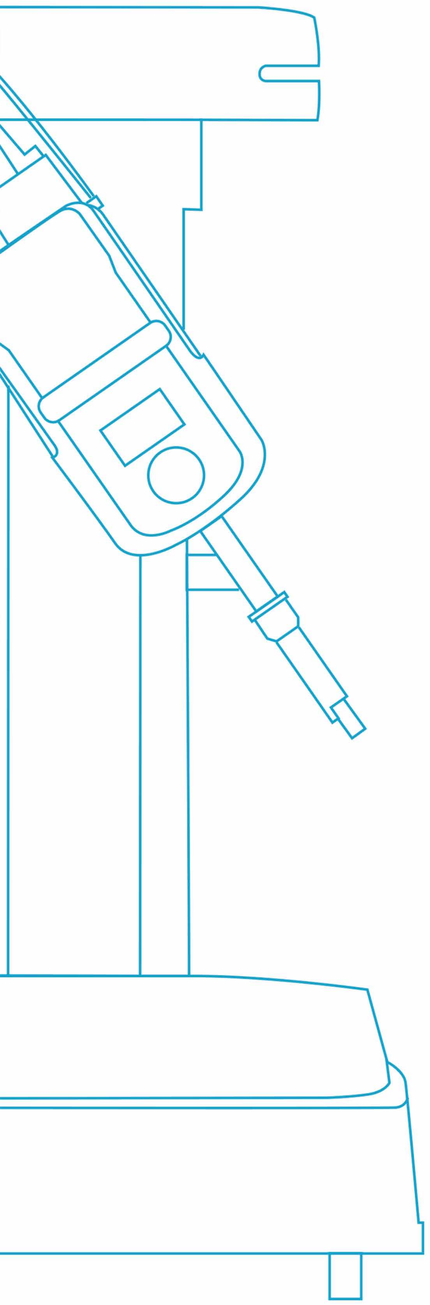
More Compact:

- When stowed, the patient cart is roughly the size of a refrigerator, reducing space limitations in the operating room.

More Efficient:

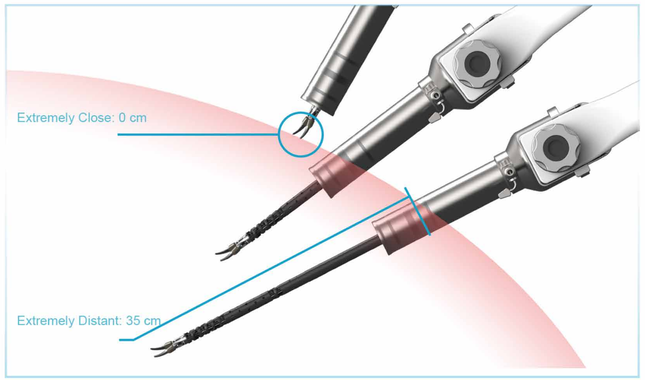
- Docking time is only 1/4 that of multi-port systems, and with guided setup, preparation time is significantly reduced.

2 Directions Access



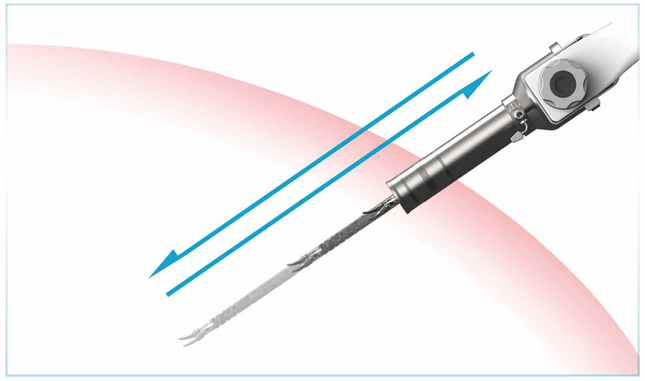
Lesion Handling in Extreme Positions:

The SP1000 offers a significant range of lesion handling, covering lesions at depths ranging from 0 to 35 cm from the surface.



Proximal to Distal Maneuverability:

The SP1000 utilizes a exclusive Retractable Sleeve Technology to operate from the extreme proximal end to the extreme distal end within a narrow and long channel.



4 Quadrants Coverage

Innovative AgileArm Technology:

The SP1000 features innovative agile arm technology, allowing the surgeon to independently adjust the surgical area across four quadrants without changing the patient's position, enabling cross-quadrant surgical operations.

Wide Range Translation of Instrument Arm:

The surgeon can independently control the instrument and endoscope to move across adjacent quadrants, facilitating large-area surgeries.

Instrument Arm Vertical Flipping:

The instrument arm can perform an integral flip to complete diagonal quadrant surgery.

6 Disciplines Exploration

Gynecology

· Total Hysterectomy and Bilateral Salpingectomy via Natural Body Cavities*
· Total Hysterectomy and Bilateral Salpingectomy via Umbilical Incision
· Retroperitoneal Lymph Node Biopsy
· Ovarian Cyst Removal
· Myomectomy
· Total Hysterectomy and Bilateral Adnexectomy via Natural Body Cavities*
· Total Hysterectomy and Bilateral Adnexectomy via Umbilical Incision
· Endometriosis Lesion Resection
· Pelvic Sentinel Lymph Node Dissection
· Ovarian Teratoma Removal

Urology

· Retroperitoneal Adrenal Tumor Resection*
· Radical Prostatectomy via Bladder Incision*
· Extraperitoneal Radical Prostatectomy
· Adrenal Tumor Resection via Abdominal Incision*
· Adrenal Tumor Resection via Flank Incision*
· Radical Prostatectomy via Abdominal Incision*
· Partial Nephrectomy via Abdominal Incision
· Partial Nephrectomy via Flank Incision
· Pyeloplasty
· Ureteral Reimplantation

Thoracic Surgery

· Intercostal Lobectomy*
· Wedge Resection of the Lung Lobe
· Intercostal Anterior Mediastinal Tumor Resection*
· Subcostal Posterior Mediastinal Tumor Resection
· Intercostal Posterior Mediastinal Tumor Resection*

General Surgery

· Distal Gastrectomy with Pyloric Preservation for Gastric Cancer
· Radical Surgery for Rectal Cancer via Anal Approach*
· Radical Surgery for Sigmoid Colon Cancer
· Radical Surgery for Distal Gastric Cancer
· Gastrointestinal Stromal Tumor Resection
· Left Hemicolectomy
· Right Hemicolectomy
· Radical Surgery for Descending Colon Cancer
· Partial Hepatectomy
· Radical Surgery for Rectal Cancer
· Total Gastrectomy
· Cholecystectomy

Head and Neck Surgery

· Parathyroid Gland Transplantation
· Neck Lymph Node Dissection
· Total Thyroidectomy for Thyroid Cancer
· Parotid Tumor Resection*
· Oropharyngeal Tumor Resection*
· Radical Thyroidectomy via Axillary Approach*
· Extended Tonsil Cancer Resection*
· Subtotal Thyroidectomy via Sternotomy*

Breast Surgery

· Axillary Breast Gland Resection with Implant Placement*

with Implant Placement*

Innovative Procedures

Innovative Disciplines

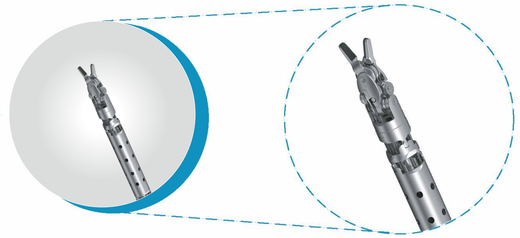
Innovative Approaches

NOTES Exploration:

The SP1000 instruments feature high flexibility and minimal expansion, making them especially advantageous for Natural Orifice Transluminal Endoscopic Surgery (NOTES).

The More Powerful SuperArm Series Instruments:

The More Powerful SuperArm Series Instruments: The SP1000 is equipped with the next generation of SuperArm series instruments, specially designed for working in confined spaces. They provide greater flexibility and load-bearing capacity, excellently completing tasks under conventional and NOTES approaches.



20% Reduced Turning Radius

50% Increased Load-Bearing Capacity

20% Expanded Operational Range

30% Enhanced Precision