

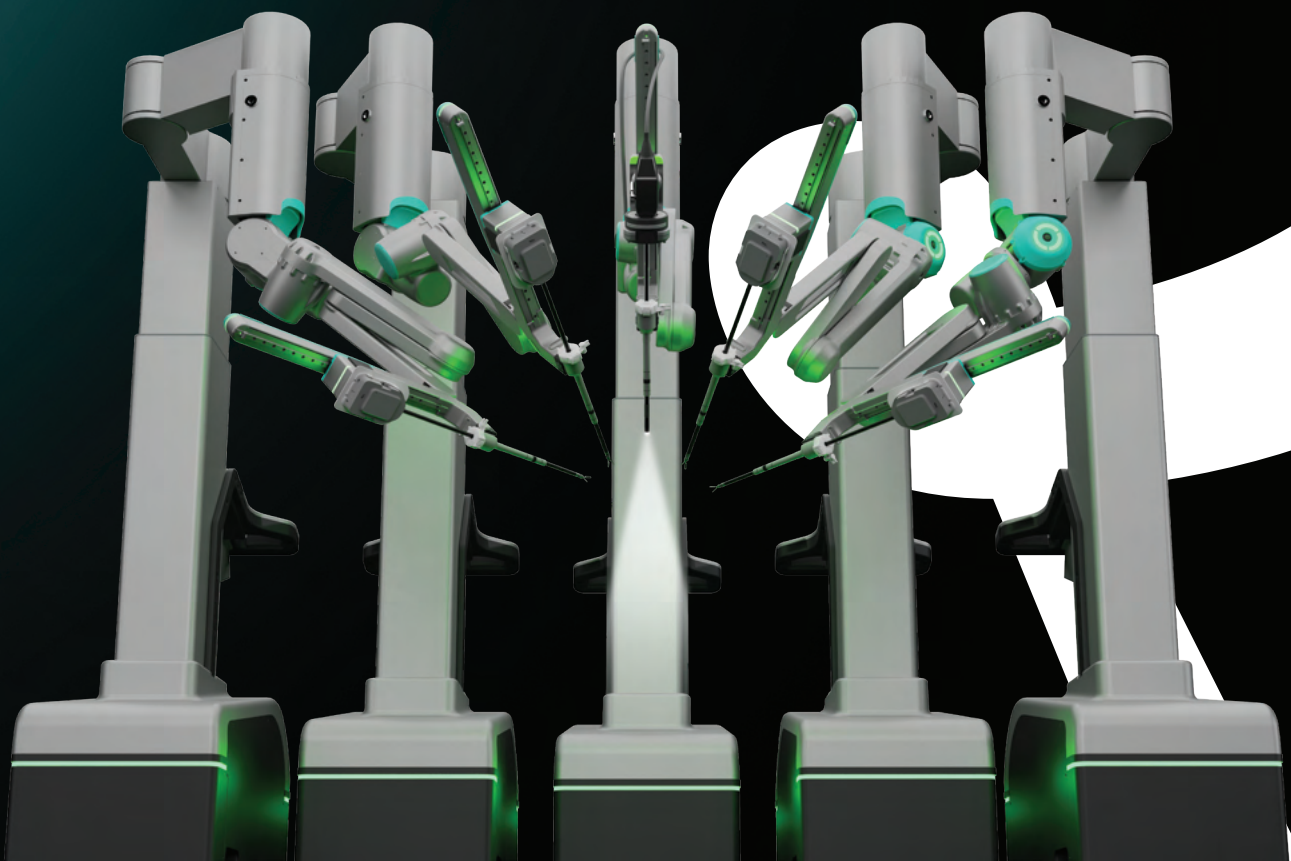


PROUDLY  
MADE IN INDIA  
FOR THE WORLD



Advanced . Affordable . Accessible

# ROBOTIC SURGERY



# About the Company

SS Innovations International Inc. is a leading medical technology company founded by Dr. Sudhir Srivastava, a globally acclaimed robotic cardiac surgeon. Dr. Srivastava, serving as the founder, chairman, and CEO, has revolutionized the field of cardiothoracic surgery through his pioneering work in robotic procedures. He holds the record for the most number of robotic Beating Heart Totally Endoscopic Coronary Artery Bypass (TECAB) surgeries. His visionary approach led to the development of the groundbreaking surgical robotic system, the SSi Mantra. This innovative technology aims to transform the landscape of robotic surgery by making advanced, affordable, and accessible surgical procedures available to underserved populations worldwide by decentralizing excellence.



Sudhir Srivastava, MD  
Founder, Chairman and CEO



## SSI TEAM



## State of the Art Manufacturing Facility



# Vision

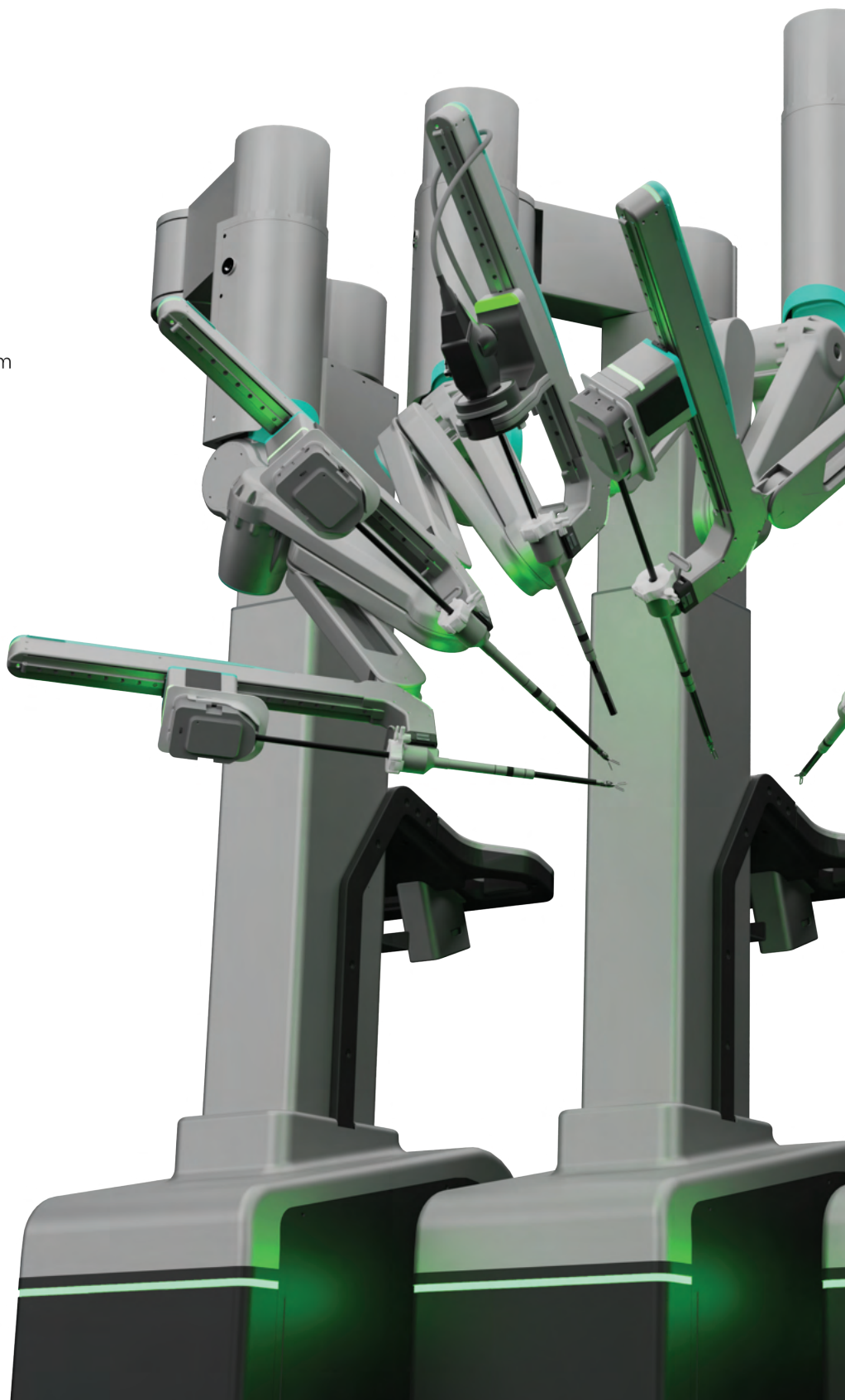
To create a new, technologically advanced system that would surpass the existing surgical robotic systems and be very cost effective to benefit many more patients around the world.

# Mission

To make gold-standard healthcare affordable and accessible to every patient throughout the world



The SSI Mantra Surgical Robotic System offers an Advanced, Accessible, and Affordable solution for the healthcare community. Our cost-effective design enables a broader range of hospitals to adopt robotic surgery, while cutting-edge technology ensures precision, efficiency, and versatility across various surgical specialties. Our comprehensive robotic surgery solution is poised to revolutionize patient care and redefine surgical outcomes.







# PSAC

## Patient Side Arm carts

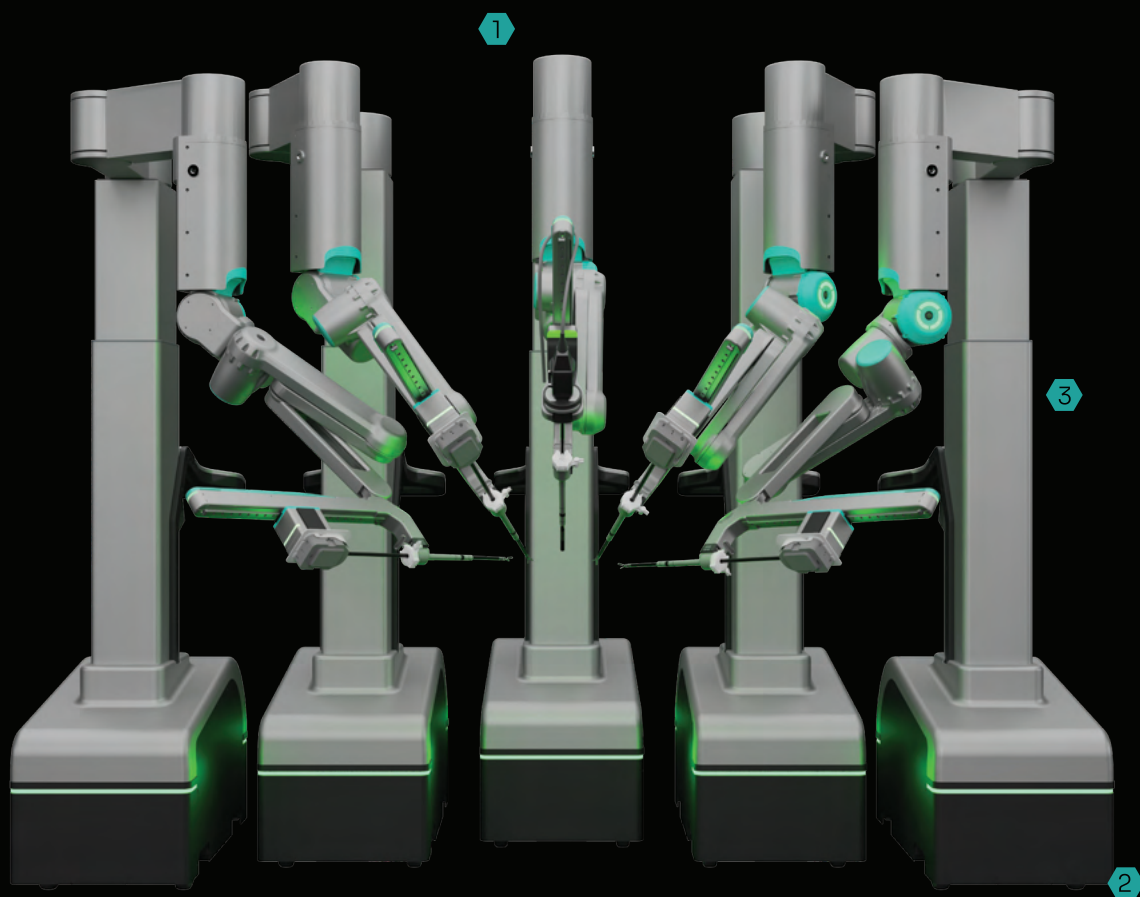
Modular Robotic Carts<sup>1</sup>

Freedom of Placement

3/4/5 Cart Connectivity

Absolute Stability Parking Locks<sup>2</sup>

Slimmer Individual Cart<sup>3</sup>



### Advanced Touch Controls

Effortless boom, docking, undocking control, cart registration, cart movement status check and troubleshooting.



# SCC

## Surgeon Command Center

- Ergonomic Open Faced Console <sup>1</sup>
- 24 Inch Touch Monitor for System Controls <sup>2</sup>
- Head tracking Safety Feature <sup>3</sup>
- 32 Inch 3D 4K Monitor for True Depth View <sup>4</sup>
- Surgeon-Friendly Hand Controls <sup>5</sup>



### Ergonomic Hand Controls

Offer precision, comfort, and seamless responsiveness for enhanced surgical accuracy



### Arm Rest Touch Screen Panel

Effortless height and track adjustments, memory save for multiple profiles



### Mobile Device Holder

Includes a dedicated mobile device holder, ensuring seamless connectivity and convenience for surgeons.

# VC

## Vision Cart

- 32 Inch 3D 4K Monitor for OR Staff <sup>1</sup>
- UPS Battery Backup <sup>2</sup>
- Universal Safety Features
- SSI Yantra Multimedia Recording <sup>3</sup>







## SSI Yantra Multimedia Recording

Capture every detail of your endoscopic surgery with SSI Mantra, featuring capabilities for high-quality recording and seamless streaming assistance



## Articulating Endoscope and Camera Control System

Provides precise control with an articulating endoscope, enabling enhanced maneuverability and clear visualization during complex procedures



## Selicut

Selicut is an advanced ultrasonic surgical tool designed for precise dissection, vessel sealing, and tissue manipulation.



## SSI Mantra Pre-Op

Surgical planning into one platform, enhancing preoperative preparation. It offers 3D visualization, insights, ensuring precision, safety, and efficiency.

# Our Software & Technologies

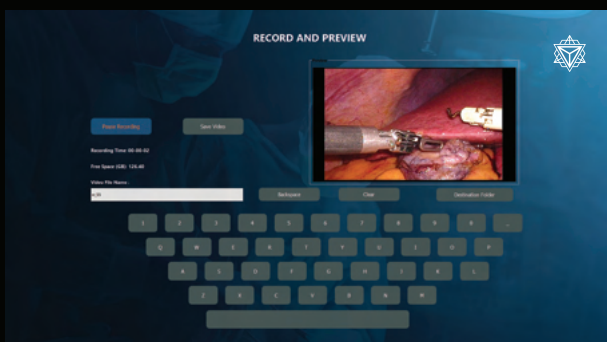
## SSI Viewer

The SSI Viewer acts as a control panel for the SSI Mantra 3 system, allowing users to easily enable or disable robotic arms during surgery. This precise interface gives surgeons full control over the robotic system, ensuring precise adjustments and safe, responsive operations throughout the procedure.



## SSI Yantra

The SSI Yantra is a powerful tool for recording and streaming endoscopic video. It allows for real-time streaming of critical surgical content, such as endoscopic visuals, while securely storing and managing patient records. This system ensures that all data, from imaging to vital signs, is readily available for review during and after the surgery.







## SSI Guru

Developed by SSI Maya, SSI Guru is a revolutionary tele-proctoring app designed to improve surgical training and support. The app features tele-illustration, offering a live 3D endoscopic view and real-time voice communication between surgeons and proctors. In addition, SSI Guru supports modules for patient reports, DICOM images, and more, facilitating enhanced remote proctoring and guidance for complex procedures.

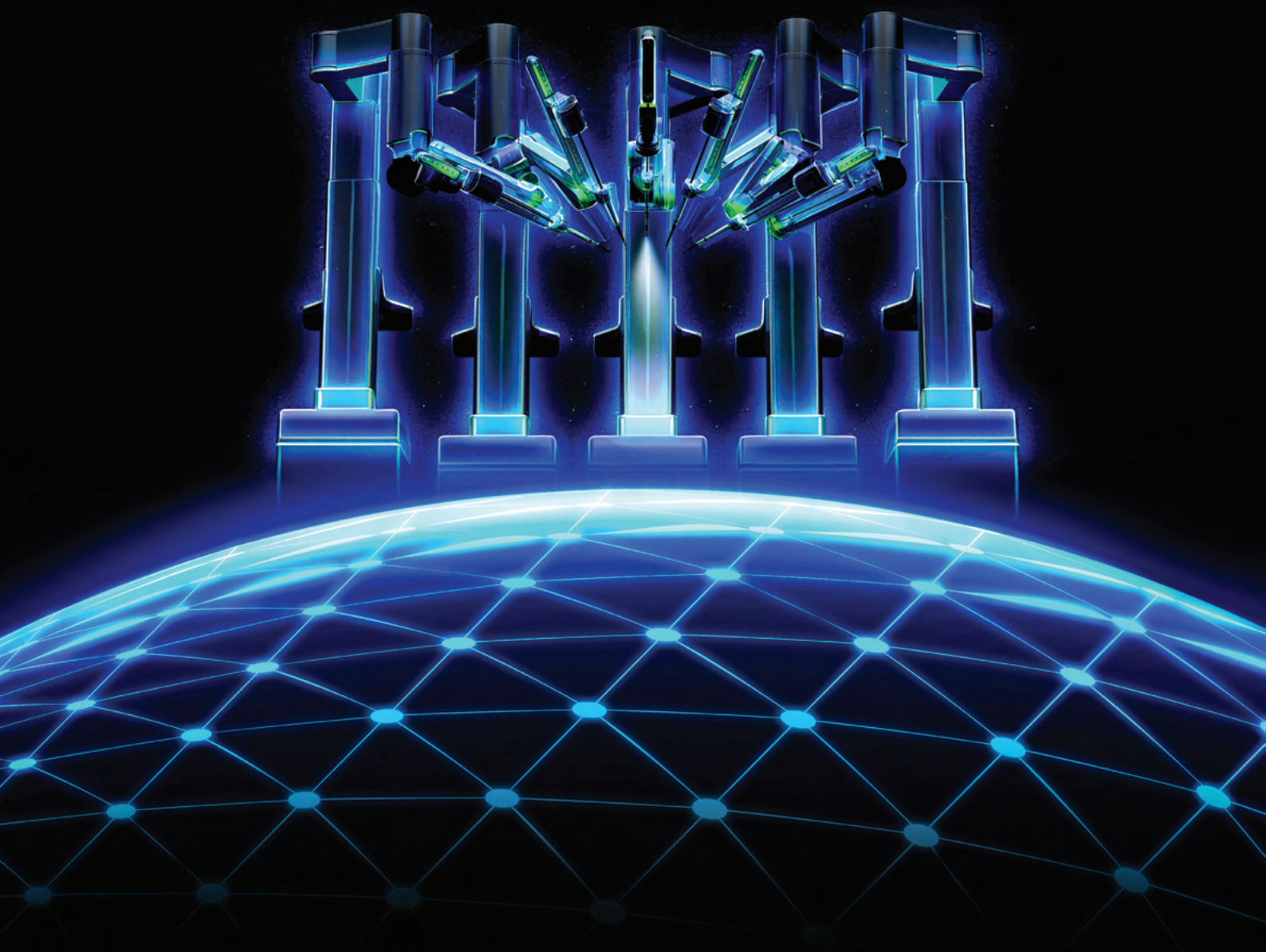


An advanced extended reality platform that revolutionizes surgical training and procedure optimization by harnessing the power of Mixed Reality and AI. Designed to offer immersive virtual and augmented reality experiences for peri-operative procedures.



## SSI Sutra

SSI Sutra is a centralized application designed to streamline hospital and surgical workflows. It supports inventory management, patient management, and integrates with hospital systems to handle various aspects such as field service, clinical support, ticket generation, and more. This software ensures that all aspects of the surgical process, from patient care to system maintenance, are tracked and managed efficiently in one unified platform.





Scan the QR to check our  
telesurgery videos



# Telesurgery Enabled

With SSI Mantra, A state-of-the-art robotic surgical system that pioneers the future of telesurgery. This innovative platform allows surgeons to perform complex procedures from remote locations, ensuring that expert care is accessible regardless of geographical barriers. With telesurgery, surgeons can operate with high precision from anywhere, utilizing advanced robotic arms for intricate maneuvers that enhance patient safety. Additionally, telesurgery facilitates remote training opportunities, allowing less experienced surgeons to learn from experts, enhancing their skills without the need for physical presence.

**MantraSync** Additional hardware dedicated for seamless network connectivity.



## **SSI MUDRA**

SSI Mudra endosurgical instruments, is designed to deliver precision and dexterity across multiple specialties. With over 45 different types of instruments, SSI Mudra enables surgeons to perform various procedures with enhanced control and accuracy. This versatile range of instruments ensures seamless integration with the SSI MUDRA SSI Mantra system, contributing to superior surgical performance and improved patient outcomes.

## MONOPOLAR CAUTERY INSTRUMENTS

Monopolar Curved Scissors

Cautery Hook

Cautery Spatula

## BIPOLAR CAUTERY INSTRUMENTS

Maryland Bipolar Forceps

Fenestrated Bipolar Forceps

## CLIP APPLIERS

Small Titanium Clip Applier

Medium Titanium Clip Applier

NasLock™ Medium Clip Applier

NasLock™ Large Clip Applier

## NEEDLE DRIVERS

Large Needle Driver

Super Needle Driver

SeVana™ - Cut Needle Driver

## GRASPERS

Grasping Forceps

Tenaculum Forceps

Grasping Retractor

Long Tip Forceps

## CARDIAC SPECIALTY INSTRUMENTS

DeBakey Forceps

Black Diamond Forceps

Fine Tip Scissors

Resano Forceps

Valve Retractor - Long

Valve Retractor - Short

Small Bipolar Forceps

Cadiere Forceps

Round Tip Scissors

Cardiac Stabilizer

NADI - Coronary Anastomotic Connector

## HARMONIC INSTRUMENTS

SeliCut™

## STAPLERS

Anastoflex™

## ACCESSORIES

Drapes

Cannula (9mm, 10mm, 12mm)

Blunt Obturator (9mm, 10mm, 12mm)

Cannula Seal (5-10mm)

Reducer

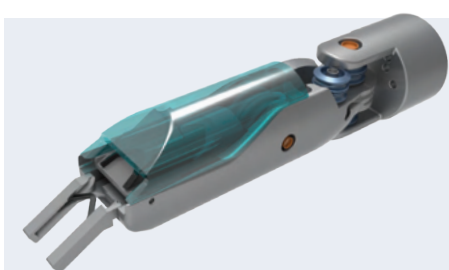
Introducer

Micro Scalpel (15o, Paddle)



## NADI - AUTOMATED ANASTOMOTIC CONNECTOR

A miniaturized automated anastomotic connector, activated by a vascular surgeon or table-side team facilitates Coronary Anastomosis in a very efficient and reproducible way.



## MULTI-FIRE CLIP APPLIER

A unique clip applier that eliminates the need to remove and reload the clip applying instrument, making clip application more efficient. Different sizes of clips shall be available based on the specific application.



# Multi-specialty surgical applications

The SSI Mantra Surgical Robotic System is designed to derive excellence in multispecialty clinical applications

## Urology

Radical Prostatectomy with B/L PLND  
Right Radical Nephrectomy  
Right Partial Nephrectomy  
Radical Cysto-Prostatectomy with neo bladder  
Radical Cysto-prostatectomy with ileal conduit  
Vesicovaginal Fistula  
Left Radical Nephrectomy/ Left Nephrectomy  
Left Partial Nephrectomy  
Partial Cystectomy / Radical Cystectomy  
Radical Adrenalectomy  
Right/Left Nephroureterectomy  
Ureteric reimplantation  
Uretero-ureterostomy  
Pyeloplasty  
Pyelolithotomy  
Urachal cyst  
Right/ Left Renal Cyst Excision  
Hepatico Jejunostomy  
Urethrotomy  
Simple Prostatectomy  
Orchiopexy  
Augmentation Cystoplasty  
Right/left Adrenal Tumor Excision  
Right External Iliac Lymph node Biopsy  
Right/Left Groin Node Dissection  
Donor Nephrectomy  
Robotic bladder neck reconstruction

## General Surgery

Cholecystectomy  
B/L / LT/ RT Inguinal hernia  
Ventral hernia/Epigastric Hernia Repair  
Gastric Bypass  
Umbilical hernioplasty  
Fundoplication  
Umbilical Hernia / With Divarication Of Rectus  
Incisional hernia repair  
Bilateral VEIL  
Appendectomy  
Robotic Rectopexy  
Robotic Lumbar Hernia  
Diaphragmatic hernia  
Hydatid Cyst Excision  
Paravertebral Cyst Excision  
Cardiomyotomy  
Median arcuate ligament and celiac trunk decompression  
Hiatus Hernia  
Omentectomy& Retroperitoneal lymph node dissection  
Splenic Cyst Excision/ Splenectomy  
Cystic Mass Excision

# Cardiac

LIMA take down  
Mitral Valve Replacement  
BIMA Takedown  
Robotic TECAB  
ASD

# Thoracic

Thymectomy  
Left/ Right Lobectomy  
Left /Right Pneumonectomy  
Robotic Bullectomy  
Mediastinal Cyst  
Robotic Esophageal Leiomyoma Excision  
Left/ Right VATS metastasectomy  
Left/Right Segmentectomy+LND  
Paraaortic pelvic in Dissection  
Thoracoscopy/pericardial window

# Colorectal

Anterior Exenteration with Ileal conduit  
Intersphincteric resection  
Abdominoperineal resection (APR)  
Lower Anterior Resection  
Right Hemicolectomy  
Subtotal Colectomy/Total colectomy  
Sigmoidectomy  
Mesocolic Cystic Mass Excision

# Gastroenterology

Pancreatic Whipple  
Gastrectomy and gastrojejunostomy  
Robotic Intestinal Mass Excision  
Pancreatico/Feeding Jejunostomy  
Robotic Choledochal cyst Excision  
Choledochojejunostomy  
Feeding Jejunostomy  
Radical Antegrade Pancreatico - splenectomy (RAMPS)  
Choledochoduodenostomy (CDD)

# Gynecology

Radical Hysterectomy/Hysterectomy  
Sacro Colopexy  
Vaginoplasty with bowel reposition  
Ovarian Mass Excision  
Bilateral Salphingo Oophorectomy(BSO)  
Myomectomy  
Left/right Adnexectomy(saphingectomy)

# Head and Neck

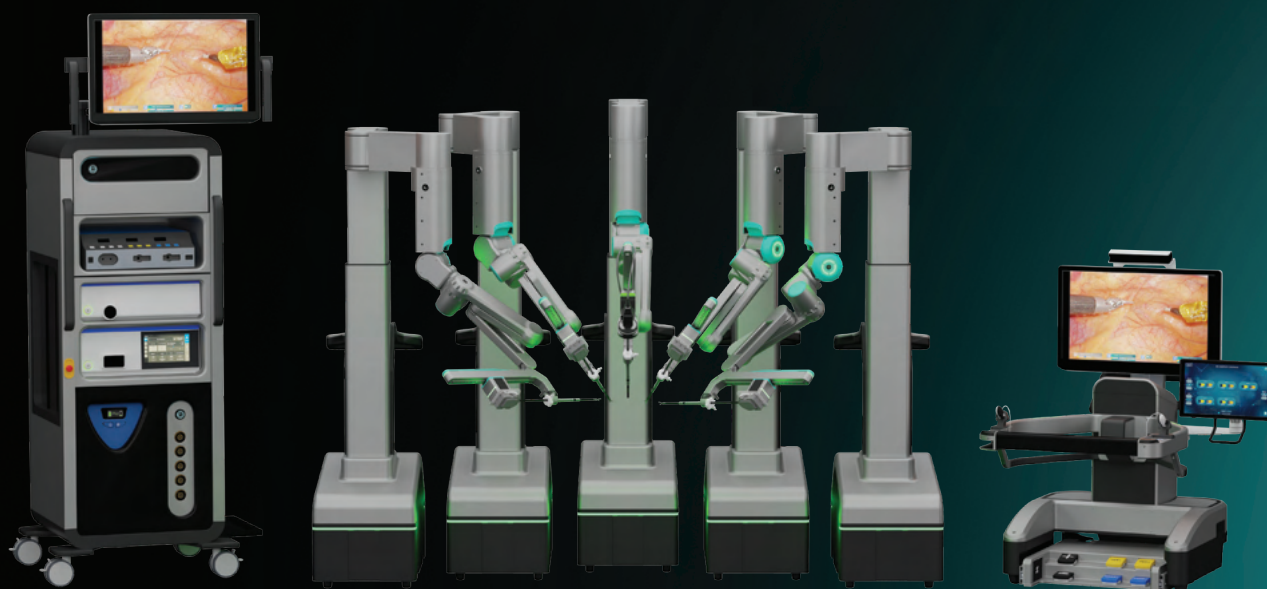
TORS  
Robotic Omohyoid Neck Dissection  
Robotic Thyroidectomy

# Breast and Plastic Surgery

Mastectomy



Scan the QR to check our youtube channel



[info@ssinnovations.org](mailto:info@ssinnovations.org) | [www.ssinnovations.com](http://www.ssinnovations.com) | +91 73375 53469

**SS Innovations International Inc.**

1600 SE 15th Street, #512 Fort Lauderdale, Florida - 33316, United States of America

**Sudhir Srivastava Innovations Pvt. Ltd. (R&D HQ - India)**

404-405, Ground floor & 3rd Floor, iLabs Center, Udyog Vihar, Phasea III, Gurugram, Haryana, India - 122016



Disclaimer: Robotic Surgery is a type of medical procedure that incorporates robotic systems controlled by surgeons to operate on qualified patients. Not every patient may be eligible for robotic surgery. Selection of patients for robotic surgery is based on the patient's anatomy, physical and physiological characteristics, and ailment histories and under the consultation of the patient's attending physician SS Innovations is not involved in any patient selection process. Surgical complications are common in every type of surgery, including robotic surgery. The complication may include but is not limited to injury to tissues and organs, conversion of minimally invasive surgery to open or laparoscopic procedures, or even death. Patients must consult with their doctors and research information on the risks and benefits associated with robotic surgery.

Disclaimer: The SSI MANTRA™ Surgical Robotic System is intended to be used by qualified and trained physicians in an operating room environment according to the specifications set forth by experienced professionals and representatives for the procedure. The SSI MANTRA™ Surgical Robotic System should be used only by surgeons trained and qualified by SS Innovations to demonstrate adequate robotic surgery skills to perform tasks associated with each procedure with this device. Training provided by SS Innovations is limited to using the SSI MANTRA Surgical Robotic System only and does not replace the necessary medical training and experience required to perform robotic surgery.

All pictures shown here are for illustration purposes only, the actual product may vary due to product enhancements.