



PROUDLY
MADE IN INDIA
FOR THE WORLD



Advanced . Affordable . Accessible

ROBOTIC SURGERY

www.ssinnovations.com



BENEFITS OF SSI MANTRA ROBOTIC SURGERY



Benefits of Robotic Surgery: SSI Mantra Robotic Surgery facilitates smaller fingertip-sized incisions, resulting in less pain, minimal blood loss, reduced scarring, faster recovery times, and shorter hospital stays for patients, significantly enhancing overall patient experience and outcomes.



Economical Acquisition, Operation and Maintenance: SSI Mantra offers a cost-effective solution for robotic surgery, reducing consumable costs, making it more accessible for hospitals.



Higher Patient Volumes and Adoption Rates: SS Innovations' vision promotes the widespread adoption of robotic surgery, increasing patient volumes and positively impacting the healthcare industry.



Comprehensive Surgical Ecosystem: SSI Mantra, SSI Mudra and SSI Maya, are deployed under the SSI Sutra program to provide healthcare networks and professionals with an integrated surgical robotics ecosystem that enhances successful surgical programs.



Versatility of Technologies: SSI Mantra's compatibility with various technologies enhances the surgical experience, enabling surgeons to perform a wide range of procedures with precision and efficiency.



Rigorously Tested and Expert-backed Design: SSI Mantra is a meticulously tested system, developed with valuable input from world-renowned doctors and skilled engineers. Its ergonomic and future-forward design caters to the needs of surgeons, surgical staff, and patients, ensuring a seamless surgical experience.

IMPROVING LIVES THROUGH INNOVATION AND CARE



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.



SURGEON COMMAND CENTER

Head tracking
Safety Feature

32 Inch 3D 4K Monitor
for True Depth View

Ergonomic Open
Faced Console

Surgeon-Friendly
Hand Controls

24 Inch Touch Monitor
for System Controls



Surgeon Command Center developed with Tele-surgery Capabilities

Next Generation
Console with Ergonomic
Headset

18 Inch Touch Monitor
for System Controls

VISION CART

32 Inch 3D 4K Monitor
for OR Staff

Articulating
3D Endoscope

UPS
Battery Backup

Pre-Operative
Guidance Software

Universal
Safety Features

SSI Yantra
Multimedia Recording



PATIENT SIDE ROBOTIC ARM CART

Modular
Robotic Carts

Freedom of
Placement

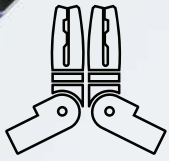
3 / 4 / 5
Cart Connectivity

Absolute Stability
Parking Locks

Slimmer Individual
Cart

Advanced
Touch Controls





SSI MUDRA

SSI Mudra endosurgical instruments, is designed to deliver precision and dexterity across multiple specialties. With over 40 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 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™

ACCESSORIES

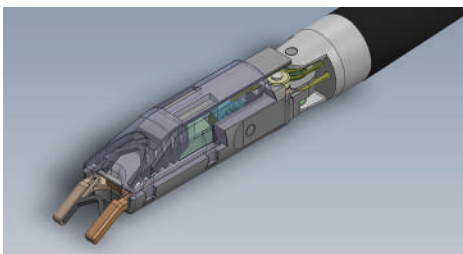
Drapes
Cannula (9mm, 10mm, 12mm)
Blunt Obturator (9mm, 10mm, 12mm)
Cannula Seal (5-10mm)
Reducer
Introducer
Micro Scalpel (15°, Paddle)

ADVANCED SURGICAL ROBOTIC INSTRUMENTS



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.



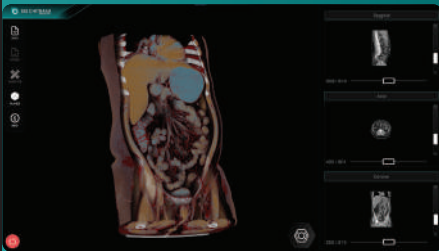
SSI MAYA

SSI MAYA's mixed reality platform leverages innovative web3 and metaverse technologies to offer immersive virtual and augmented reality experiences for pre- and intra-operative procedures. This pioneering solution supports the training and mentoring of surgeons and surgical staff, fostering skill enhancement and elevating surgical outcomes.



SSI CHITRASA

ADVANCED AI 3D MEDICAL IMAGING ENGINE



SSi Chitrasa revolutionizes surgical visualization with AI-powered 3D DICOM viewing, seamlessly interfacing with hospital PACS networks for CT and MRI segmentation, enhancing precision and confidence in robotic surgeries.



SSI GURU

NEXT-GEN MIXED REALITY TELEPROCTORING



SSi Guru introduces a pioneering solution, "Teleproctor," designed to revolutionize remote surgical proctoring. This software seamlessly integrates mixed reality with the SSI Mantra surgical robotic system, offering healthcare professionals and surgeons unprecedented access to real-time guidance over long distances.



SSI VED

VIRTUAL EDUCATION & SIMULATION



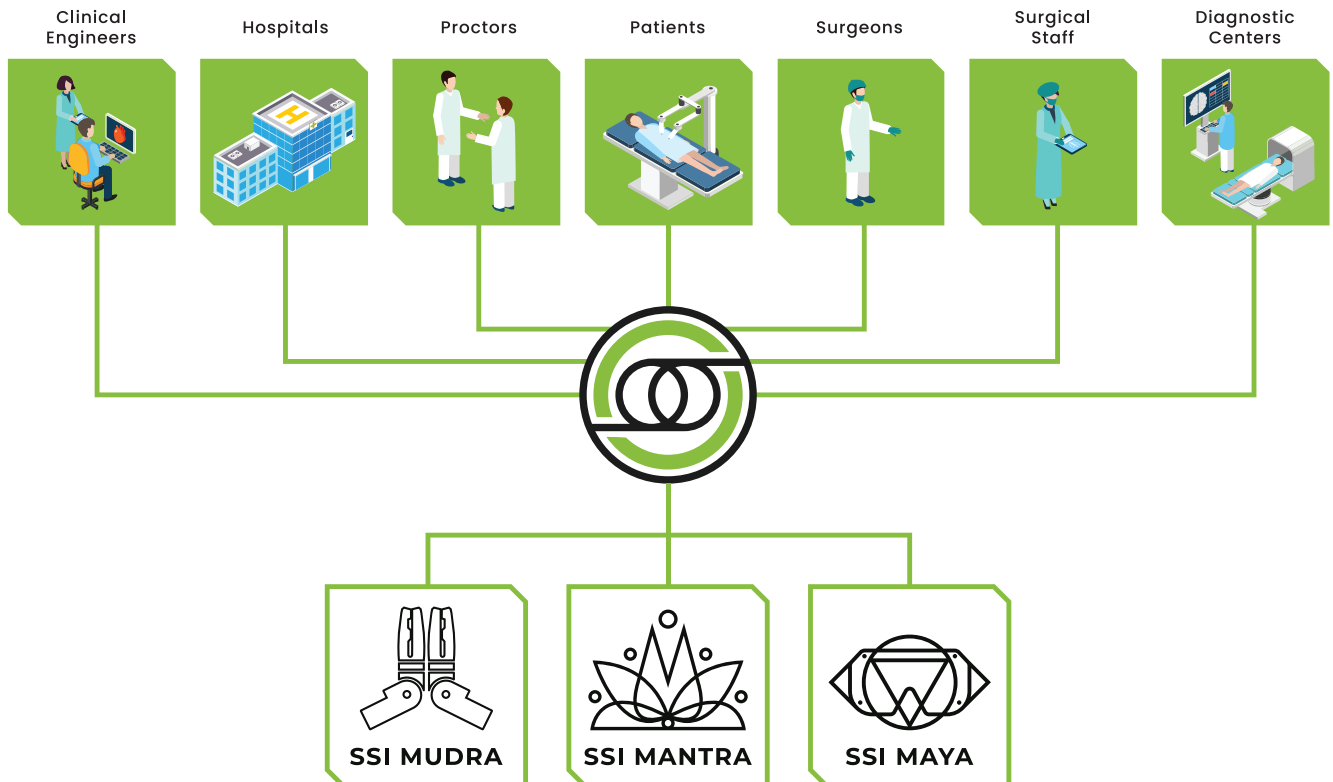
SSi VED is meticulously crafted to transform the educational paradigm for surgeons and surgical assistants. Specifically designed to train and educate users on the intricacies of the SSI Mantra Surgical Robotic System, SSI Maya stands at the forefront of immersive and innovative pre-operative training.

ADDING DIMENSIONS TO SURGICAL REALITY



SSI SUTRA

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



Comprehensive Ecosystem

Connecting stakeholders results in positive impact on the entire healthcare system.

Robotic Surgery Focus

Built around the state-of-the-art SSI Mantra surgical robotic system.

Optimizing Surgery

Aims to enhance robotic surgery in India and globally.

Collaboration

Creating advance technology with the help of experts in medicine and engineering.

Improved Patient Education

Patient centric focus for higher robotic surgery adoptions and clinical success.

MULTI-SPECIALTY SURGICAL APPLICATIONS

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

CARDIAC

Beating Heart TECAB
(Single vessel, Multiple vessel)
IMA Harvesting
Coronary Anastomosis
Congenital Defects
Valve Repair and Replacement
Tumors
Ablation for Arrhythmias
Pericardial pathologies
LV Lead Implantation

THORACIC

Thymectomy
Esophagectomy
Pneumonectomy
Lobectomy
Mediastinal Resection
Pulmonary Wedge Resection

GENERAL SURGERY

Cholecystectomy
Nissen Fundoplication
Gastric Bypass
Gastrectomy
Colorectal
Hemicolectomy
Sigmoidectomy
Appendectomy
Bowel Resection
Inguinal Hernia Repair
Epigastric Hernia Repair
Umbilical Hernia Repair
Incisional Hernia Repair
Lumbar Hernia Repair
Diaphragmatic Hernia Repair
Hiatus Hernia Repair

UROLOGY

Prostatectomy
Nephrectomy
Partial-Nephrectomy
Cystectomy
Pelvic Lymphadenectomy
Pyeloplasty
Ureterectomy
Ureterolithotomy
Ureteral Implantation
Adrenalectomy

GYNAECOLOGY

Hysterectomy
Myomectomy
Endometriosis Resection
Pelvic Lymphadenectomy
Sacrocolpopexy
Salpingo-Oophorectomy
Tubal Reanastomosis
Tubal Ligation
Vaginal Prolapse Repair

HEAD AND NECK

Radical Tonsillectomy
Tounge Base Resection
Hemi-Thyroidectomy
Total-Thyroidectomy
Supraglottic Laryngectomy
Neck Dissection

HOLISTIC TRAINING APPROACH

SS Innovations' training approach includes didactic sessions, on-site and off-site training system, on-site proctoring and virtual lab training. Our technology allows for tele-mentoring using the latest high speed internet connectivity for increased efficiency and cost-effectiveness.



“THE VISIONARY, THE VISION AND THE BENEFICIARY”

The visionary, Sudhir Srivastava, MD, is a globally renowned Robotic Cardiac Surgeon leading a team of highly talented engineers and support staff in the development of the SSI Mantra system. The SSI team is aided by acclaimed robotic surgeons and highly experienced consultants from around the world. The committed and focused efforts have resulted in the affordable multi-arm SSI Mantra Surgical Robotic System that would benefit many more patients around the world to decentralize access and excellence.



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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.

Sudhir Srivastava Innovations Pvt. Ltd. and The SSI Mantra Surgical Robotic System are certified in ISO 13485:2016 medical device quality management and is authorized for sale by the The Central Drugs Standard Control Organisation (CDSCO) under Directorate General of Health Services, Ministry of Health & Family Welfare, Government of India.