



# PRECISION IN EVERY MOTION



Advanced Surgical Robotic System





# GLOBAL MED-TECH HUB FOR HIGH QUALITY, NEXT GENERATION TECHNOLOGIES

#### **CORE OBJECTIVE**

To develop, manufacture & distribute clinically relevant, state-of-the-art & best-in-the class products to alleviate human suffering & improve quality of life.

Cardiovascular | Orthopedics | Endo-Surgery | In-Vitro Diagnostics ENT | Medical Robotics | Cell & Gene Therapy



### Our Vision: Transforming Surgery



Enhanced Patient Outcomes
Better surgical results for all



**Unparalleled Precision**State-of-the-art robotic control



Universal Accessibility

Quality care for everyone, everywhere





Welcome to Merai - Advancing Healthcare with Al and Robotics.

At Merai, we push the boundaries of technology to enhance patient care. Our expert team develops cutting-edge robotic systems and Aldriven diagnostics, improving outcomes and efficiency for medical professionals.

Join us on our journey as we shape the future of healthcare.

Merai - Technology. Innovation. Compassion.

## 35 Meril Subsidiaries

## 12 Academies Globally



13500+ EMPLOYEES 250+
PRODUCTS

158+
COUNTRIES

### MIZZO Endo 4000

#### Advanced Surgical Robotic System

Step into the future of robotic-assisted surgery with Mizzo Endo 4000 a cutting-edge system engineered for unmatched precision, progress, and possibilities. With its open console, versatile arm cart, and universal vision cart, it elevates surgeon control, OR integration, and patient outcomes.

- Open Console Design
- Pre-surgery Al Planning
- Intraoperative Training
- Essential and Advanced Instrumentation
- Universal Vision Cart



## Open-Multiple Screen 3D HD Surgeon Console



## Advantages

#### Extend the reach of surgeons



3D HD magnified view



User-friendly master-slave operation



Flexible surgical instruments



Extend the hand-eye limit of surgeons



#### Prolong The Professional Life of Surgeons



The ergonomic design is optimized to greatly enhance surgeon's comfort and minimize fatigue during procedures.



Intelligent identification and filtering of tremors to enhance the precision of operations.



#### Flexibility and Versatility



Complementary to minimally invasive surgery, Equipment is engineered for an integrated 3D-4K camera processing unit, with options for fluorescence-assisted systems and other energy platforms. intraoperative devices such as US, etc.



## Improve Surgical Accuracy and Comfort

#### Multi-modal Image Navigation

Advanced imaging with 3D reconstruction, ultrasound, Al fusion, and remote support for precise decisions.





## Accurate and Safe Operating System

The 1:1 to 10:1 motion ratio ensures precise wrist control in microsurgeries, with auto-locking for safety.

## User Friendly Open Console Design

The open console design reduces strain, enhancing comfort and ergonomics during prolonged procedures.



## Flexible and Efficient Collaboration and Teaching

## Intra Operative Teaching Real-time Interaction

The open console fosters seamless collaboration and real-time observation, enhancing training, skill development, and surgical efficiency.



## Surgeon Independence & Optimized Processes

The integrated ValleyLab FX8 ensures precise energy control and easy preset switching, enhancing surgeon autonomy and workflow.

#### Remote Surgery System\*

Remote surgery system facilitates real-time interactive teaching, expert guidance, and multidisciplinary collaboration, enhancing surgical precision and decision-making.



## Multi-platform Supporting System

#### Simulation Training System

Advanced training methods and a user-centric system drive rapid skill development, with tailored multi-stage courses enhancing learning efficiency.





#### Modular Endoscopic Imaging System and Energy System\*\*

3D HD displays fluorescence and surgical field images simultaneously, with automatic luminance adjustment. The endoscopic imaging system is capable of supporting various surgical procedures, thereby improving equipment utilization.

#### Digital Ecosystem\*

Intraoperative marking and cloudstored videos support review, data analysis, and skill development, enhancing surgical learning and outcomes.



## Arm Cart



Precision | Access | Efficiency

## **Precise**

Arm control screen is equipped with user-friendly interface enabling swift arm positioning and accurate set up.





## Seamless

Optimized arm cart positioning to ensure seamless maneuverability and prevent collisions during surgery.

## Accessibility

Extensive boom rotation range for enhanced access during complex surgical procedures.



## Simplicity

Simpler port placement and arm docking.

## Ergonomics

Surgeons can effortlessly navigate multiple quadrants, enabling them to perform a diverse range of minimally invasive procedures with enhanced precision and freedom.

#### Details Un-veiled

Engineered to support procedures across a wide range of specialties with more anatomical access.



## Vision Cart



Universal

Advanced

Clarity

## Energy

ValleyLab FX8 Generator delivers precise monopolar and bipolar energy. Integrated with ultrasonic system for hemostatic dissection and/or tissue coagulation.





#### Universal Use

Suitable for open/lap and RAS maximizing the system's utilization within the hospital.

## Real-time Monitoring

The system information display screen shows the surgical field and guidance, synced with the surgeon's console.





## Instrumentation and Accessories



## Essential and Advanced Instrumentation

Robotic instruments offer enhanced flexibility and a wider range of motion than natural movements, enabling precise, hand-like control in minimally invasive surgery.

#### Essentia



Monopolar Curved Scissors Urology | Gynaecology | Oncology



Large Permanent Cautery Hook
Thoracic surgery | general surgery



Monopolar Straighten Scissors Urology | Hepatobiliary | Oncology



Small Permanent Cautery Hook Thoracic surgery | Hepatobiliary



Maryland Bipolar Forceps
General Surgery | Gynaecology | Oncology



Fenestrated Bipolar Forceps

Urology | Gynaecology | Thoracic Surgery General surgery



Mini Non-invasive Tip Round Fenestrated Bipolar Graspers

Urology | Gynaecology | Thoracic Surgery General surgery



Cadiere Forceps

Urology | Gynaecology | Thoracic surgery General surgery



Fenestrated Forceps

Urology | Gynaecology



Tip Up Double Fenestrated Grasper

General surgery | Gynecology



Double Fenestrated Grasper General Surgery | Gynaecology

\*Feature Under Development

## Teneculum Forceps\* General Surgery | Gynaecology

General Surgery | Gynaecology Oncology | Urology



Large Needle Driver

Urology | Gynaecology | Thoracic Surgery General surgery | Oncology



#### Small Needle Driver

Urology | Gynaecology | Thoracic Surgery General surgery | Oncology



#### Disposable Ultrasound Soft Tissue Scalpel

Urology | Gynaecology | Thoracic Surgery General surgery



#### Curved Dissector

Urology | General Surgery

\*Feature Under Development

#### Vessel Sealer\*

General Surgery | Gynecology | Urology Colorectal | Bariatric Surgery

\*Feature Under Development

#### Clip Applicators\*

General Surgery | Gynecology Urologic Surgery | Hepatobiliary

\*Feature Under Development

#### Stapling\*

General Surgery | Gynecology | Colorectal Bariatric Surgery

#### Meril Hernia Repair Solutions

Superior Barrier Maximum Protection



An Intraperitoneal Mesh MERINEUM

Tissue Separating Dual Laver Mesh Polylactide-caprolactone / Polypropylene Mesh





FILAPROP™3D MESH



#### MERIGROW"

Polypropylene Macroporous Light Weight Mesh



FILAPROP™ MESH Polypropylene



FILAPROP™ MESH Soft

Empower Your Fixation with Precision: Unleash the Potential of Mesh fixation Technology



Poly (Lactide-co-glycolide) Powered Absorbable Mesh Fixation Device

5mm For Laparoscopic Hernia Repair



Absorbable Mesh Fixation Device **PROFOUND™A** Poly(lactide-co-glycolide)



Powered Non Absorbable Mesh Fixation Device 5mm For Laparoscopic Hernia Repair



Non-Absorbable Mesh Fixation Device PROFOUND™N

Titanium

#### Mechanical Closure Devices





#### **RELOADS WITH OPEN STAPLE LEG LENGTH**





























#### A Comprehensive Range of Sutures.

(Customized Solutions for Laparoscopic and Robotic Assisted Surgeries)





MITSU AB Antibacterial with Triclosan



Distinguished strength for life long support

**FILAPROP** Polypropylene Suture



Enduring Strength for long-term wound support

FILAXYN

Polydioxanone Suture



**MERICRON XL** Polyester Suture



Polyglactin 910 Suture



**PINION** Knotless Suture



Excellent handling characterisitics with secured wound closure

**FILASILK** Silk Suture



A Reliable choice for scarless Sub-cuticular suturing

**FILAPRON** Polyglecaprone 25 Suture



Polyamide (Nylon) Suture



MITSU FST Polyglactin 910 Fast Suture

#### Ligating Clips

#### MIRUS<sup>™</sup> Ligating Clip | Titanium



#### MIRUS™ Ligating Clip | Polymer



#### Meril Biosurgical Solutions \_\_\_\_\_

Absorbable Hemostat

### MERIZELLE<sup>TO</sup>



STANDARD Fine Weave of ORC 12 Units



FIBER
Tufts of Soft, Light Weight ORC
12 Units



WOVEN
Denser Weave of ORC for Heavier Bleeding
12 Units

## Topical Skin Adhesive MERIGLU High Viscosity Tissue Adhesive N-Butyl Cyanoacrylate









WE GOT YOU GLUED to the best outcomes.

## Comprehensive Training Pathway

#### **Hands-On Lab Training**

To ensure seamless adoption of Mizzo Endo 4000, we offer a dedicated 2-day lab training program:

- **Day 1:** Surgeon console training on a high-fidelity simulator and bedside team training on the system.
- Day 2: Wet lab training on animal tissue to build practical expertise.



#### **KOL-Supported Cases**

Gain valuable insights and guidance from Key Opinion Leaders during supported cases, designed to boost team confidence and mastery.



#### **Extended Clinical Support**

We provide a comprehensive clinical support program, ensuring ongoing assistance and continuous knowledge enhancement for optimal outcomes with Mizzo Endo 4000.





## Training and Education

## Transforming Patient Care Through CLINICAL EDUCATION

Dedicated live case transmissions for Cardio, Ortho, Surgery on regular basis

Targeted 10,000 HCP for educational programs

10,000+ doctors participated

Large auditorium, 750+ seating capacity

3000+ employees trained



### Service Support

We are committed to ensuring your surgical robotic system operates seamlessly, allowing you to focus on delivering exceptional patient care.

#### Preventive Maintenance

Scheduled maintenance ensures your system remains in optimal condition, minimizing downtime and maintaining consistent, reliable performance.

#### **Training & Education**

We offer comprehensive training programs to ensure your surgical and technical teams are fully proficient in operating the system with confidence and efficiency.

#### **Extended Clinical Support**

An on-site clinical application specialist, backed by a comprehensive support program, delivers continuous assistance and ongoing knowledge development to maximize outcomes with the Mizzo Endo 4000.



### Multiple Surgical Applications



#### **Urology Surgery**

- 1. Prostatectomy
- 2. Nephrectomy 3. Cystectomy
- 4. Adrenalectomy
- Ureteric reimplantation and countless others



#### Gynaecology Surgery

- 1. Hysterectomy
- Vesicovaginal Fistula
- 3. Sacrocolpopexy
- 4. Vaginoplasty with bowel reposition
- 5. Myomectomy and countless others



#### **General Surgery**

- 1. Bariatric surgery
- 2 Hernias
- 3. Gastrectomy
- 4. Nissen Fundopilcation
- Pancreatic duodenectomy (Whipple) and countless others



#### **Thoracic Surgery**

- 1. Thymectomy
- 2. Lobectomy
- 3. Esophagectomy 4. Pneumonectomy
- Mediastinal Cyst and countless others



#### **GI Surgery**

- 1. Gastrojejunostomy
- 2. Lower Anterior Resection
- 3. Gastric Bypass
- 4. Abdominoperineal Resection & countless others



#### **Onco Surgery**

All radical procedures of the above anatomies



#### **Head Neck Surgery**

- 1 TORS
- 2. Neck resection
- 3. Thyroidectomy and countless others

100 + Types of Robotic







#### Disclaimer

Meril reserves the right to update design, packaging, specifications and options without prior notice. For the latest details, please contact your local Meril sales representative.

Note: Technical data may vary within defined tolerances, and reproduced images may lose some detail. Product availability differs by country, and future availability cannot be guaranteed.

Patient outcomes vary based on factors like patient condition, disease and surgeon experience.

The owner of the Merit's Mizzo Endo 4000 must ensure proper training, supervision and adherence to cleaning, disinfection, and sterilization guidelines per the User's Manual. Use in clinical settings requires verification of proper processing.

The ValleyLab™ FX8 energy platform, powered by intelligent TissueFect™ technology, is a trademarked product of Medtronic. All trademarks, product names, and logos are the property of Medtronic and its affiliates.

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