



When you can work through a **KEYHOLE**, why open the door?

Tissue separating dual layered mesh with optimized design for strength and performance

# MERINEUM™

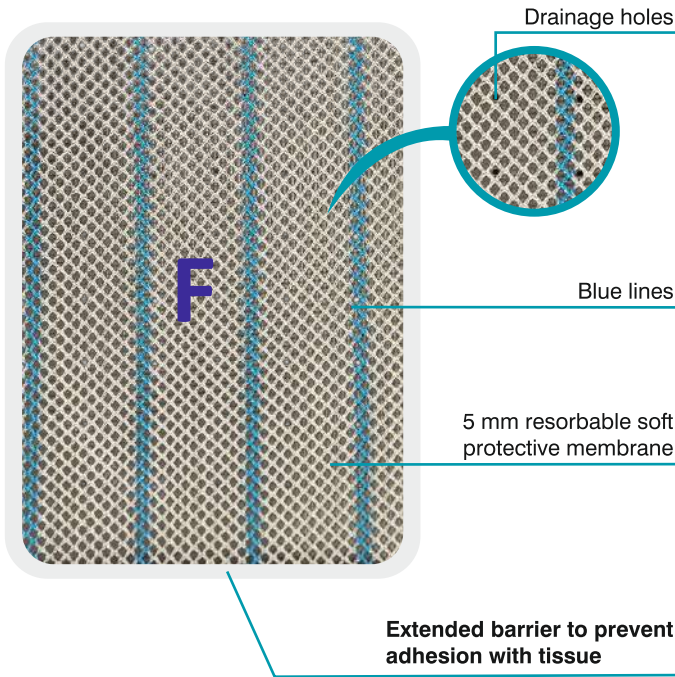
Polypropylene / Polylactide-Caprolactone Mesh



## Indications

- ◆ Laparoscopic Ventral Hernia Repair
- ◆ Incisional Hernia Repair
- ◆ Umbilical Hernia Repair

# 4 Unique Features Multiple Benefits



## Blue Lines

- Helps in distinguishing mesh during laparoscopic procedures
- Ease of mesh orientation

## Well Proportioned Drainage Hole

- Ensure seroma drainage in time
- Facilitates fibroblast growth
- Ease of taking transfascial suture

## Transparent Synthetic Absorbable Anti-adhesive Barrier

- Improved visibility for underlying defect
- Strong barrier - More resistant to damaged during deployment through trocar
- Protection against adhesion formation during critical period
- PLCL barrier resorbs between 90-120days



**Poly lactide-caprolactone composite mesh for ventral hernia repair: a prospective, randomized, single-blind controlled trial.**

Shen YM1, Li Q1, Chen J2, Sun L1, Chen Fq1.

## Comparison of a Caprolactone/Lactide Film to Two Poly lactide Film Products as a Barrier to Postoperative Peridural Adhesion in an Ovine Dorsal Laminectomy Model

Lisa S. Klopp, DVM, MS, Dipl. ACVIM (Neurology),\* Bruce J. Simon, PhD Jamie M. Bush, DVM,\* . Mark Enns, PhD,‡ and

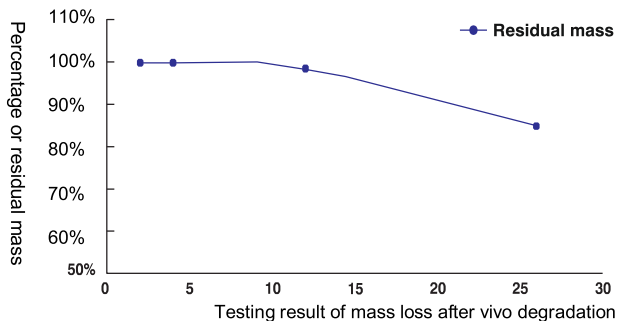
## PLCL Degradation Study - Swine Abdominal Cavity Implantation Study

### Objective of Study

- ◆ To estimate the complete absorption period for PLCL

### Observations

- ◆ The surface and structure of PLCL film is complete and without obvious degradation pore in a week after implantation of composite mesh.
- ◆ When implanted after a month, the PLCL film has been covered completely by the pseudo peritoneum, the film is still integrate but it became brittle and can be removed after stripping the tissue.
- ◆ PLCL film was completely degraded after 3 months of implantation.



### Conclusion

- ◆ Merineum Mesh residual content is more than 98% when 12 weeks Post-Op



Merineum 1<sup>st</sup> week Post OP



Merineum 1 month Post OP

## Technical Specifications

Pore Size	1.8 mm x 2.0 mm
Weight	185 gsm (Before Absorption) 40 gsm (After Absorption)
Thickness	0.5 mm - 0.6 mm
Tensile Strength	350 N (Initial)
Tensile Strength	330 N (After absorption)



Product Code	Shape	Description
TSM715RE		7.6 cm x 15 cm Rectangular
TSM1515SQ		15 cm x 15 cm Square
TSM1015OV		10 cm x 15 cm Oval
TSM1520RE		15 cm x 20 cm Rectangular
TSM1520OV		15 cm x 20 cm Oval
TSM2025OV		20 cm x 25 cm Oval

## MESIC™ Technical Specifications

Technical data summary

Line frequency	50/60Hz
Mains voltage	100-240V--(± 10%)
Main fuse	T5AH 250 V(quantity:2)
Max.power consumption	150VA
Widthxheightxdepth	350x355x136mm
Weight	7.6kg
Display	LCD, 7"
Classification according to EC Directive 93/42/EEC	IIb
Protection class according to EN 60601-1	I
Type according to EN 60601-1	CF
Output frequency	55.5±0.5KHz
Output power	35watts Maximum

### Ambient conditions for storage and transport

Temperature	- 35°C to + 54°C
Relative humidity	10% to 80%
Atmospheric pressure	70 kPa to 106 kPa

### Ambient conditions for operation

Temperature	+ 15°C to + 27°C
Relative humidity	30% to 75%
Atmospheric pressure	70 kPa to 106 kPa

## MESIC™ Ordering Informations

Description	Code
14 cm disposable Shear	MUS14
23 cm disposable Shear	MUS23
36 cm disposable Shear	MUS36
45 cm disposable Shear	MUS45

## Handpiece

Description	Code
Handpiece/Transducer(reusable)	MUHP-01

## Generator

Description	Code
Generator	MUGEN-01

## Optional accessories

Description	Code
Footswitch	MUFS-02

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Endo-Surgery

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Ultrasonic Energy Solution with Quality,  
Durability and Versatility

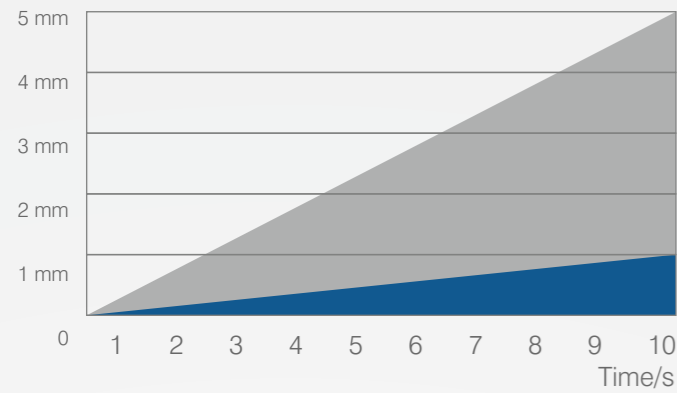


**Mesic™**  
Ultrasonic Shear System

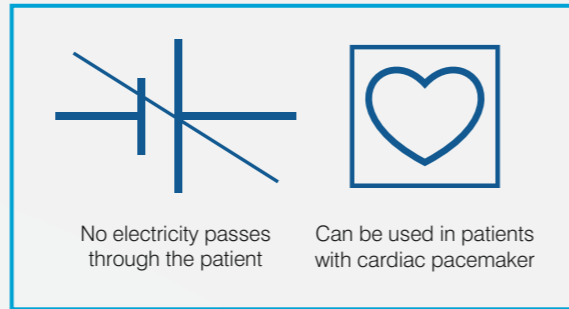


## Enhanced Safety

Lateral thermal damage



Minimal lateral thermal tissue damage, safe operation in important organs. Decrease probability of intraoperative ligation and reduce blood loss.



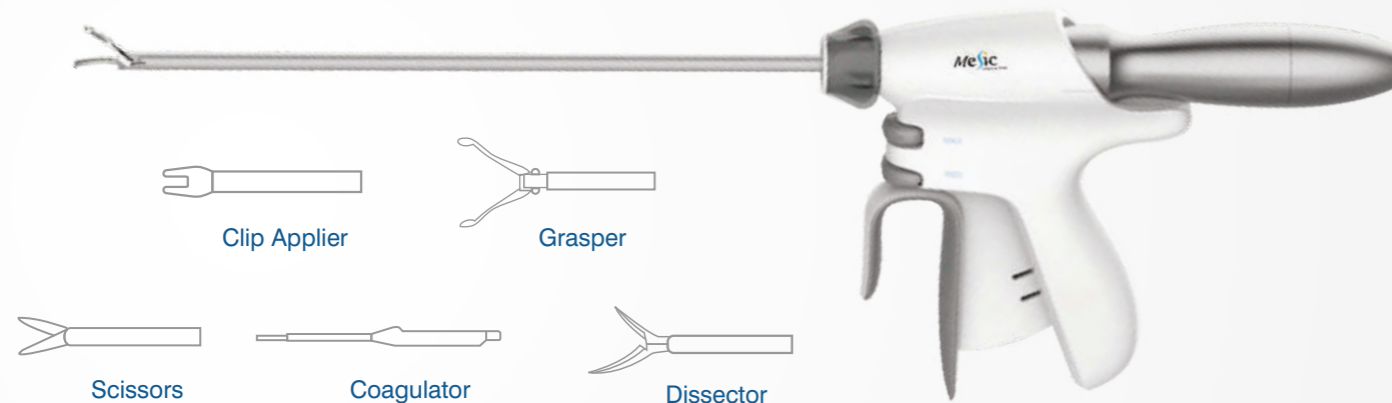
No electricity passes through the patient, avoiding neuromuscular stimulation and safe for use in patients with the cardiac pacemaker.

## High-performance compression energy



- Safe: controlled energy orientation at the instrument tip
- Time saving: cutting and coagulation with a single instrument
- Precise: effective dissection and haemostatic sealing with high tactile feedback

## Multi-functionality



Ultrasonic scalpel has multiple functions such as hemostasis, cutting, grasping, dissection, etc. So it can reduce the intraoperative replacement of instruments and shorten the operation time.

## Precise Operation, Easy Handling

Curved Shears With Ergonomic Handle--PR14/PR23/PR36/PR45



### Areas of application.

- General Surgery
- Upper Gastrointestinal
- Colorectal
- HPB
- Bariatric Surgery
- Gynaecology
- Urology
- Thoracic Surgery

### Steps to use

1. Close the Trigger and hold
2. Activate (by MIN/ MAX hand button/footswitch)

## Advantage



The process of shaft rotation wheel, control button and trigger are using soft rubber. The streamline ergonomic design of grip housing, holding operation is comfortable.

The instrument with gripping force cushion and auditory feedback to guarantee for the reliable working.

## Precise Assembly

Tactile & auditory feedback, easy to precise assembly.



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# MIRUS™

## Titanium Ligation Solutions

One Stop Solution for  
Open and Endoscopic Ligation



## Titanium Ligation Solutions

### One Stop for Open and Endoscopic Ligation

MIRUS™ Ligation Clips are implantable medical devices. They are widely used in surgery for hemostasis as well as for marking purpose. They are designed for use on tubular structure or blood vessel wherever indicated. Ligation clips are commonly used in Cardiothoracic, Vascular, Gastrointestinal, Plastic, Urological, Gynaecological, Bariatric and General procedures.

MIRUS™ ligation clips can be used in endoscopic as well as in open surgeries.

**Performance:** MIRUS™ applicator is designed to deliver efficient ligation and minimum vessel damage. Cartridge provides easy and smooth loading of clips to increase efficiency during procedure. Lateral and transverse groves on the clips are designed for secure fixation on vessel and increase resistance to dislodgement of formed clips.

**Quality:** MIRUS™ Ligation Clips are made up of pure medical grade Titanium TA1 and sterilized by GAMA radiation. Applicator is made up of high quality medical grade stainless steel.

**Value:** Flexibility to choose from wide range of clip sizes and applicator. Reusable and high quality medical grade stainless steel applicators for open and endoscopic procedure.



### U Shape Ligation Clips (Product code: MLT)



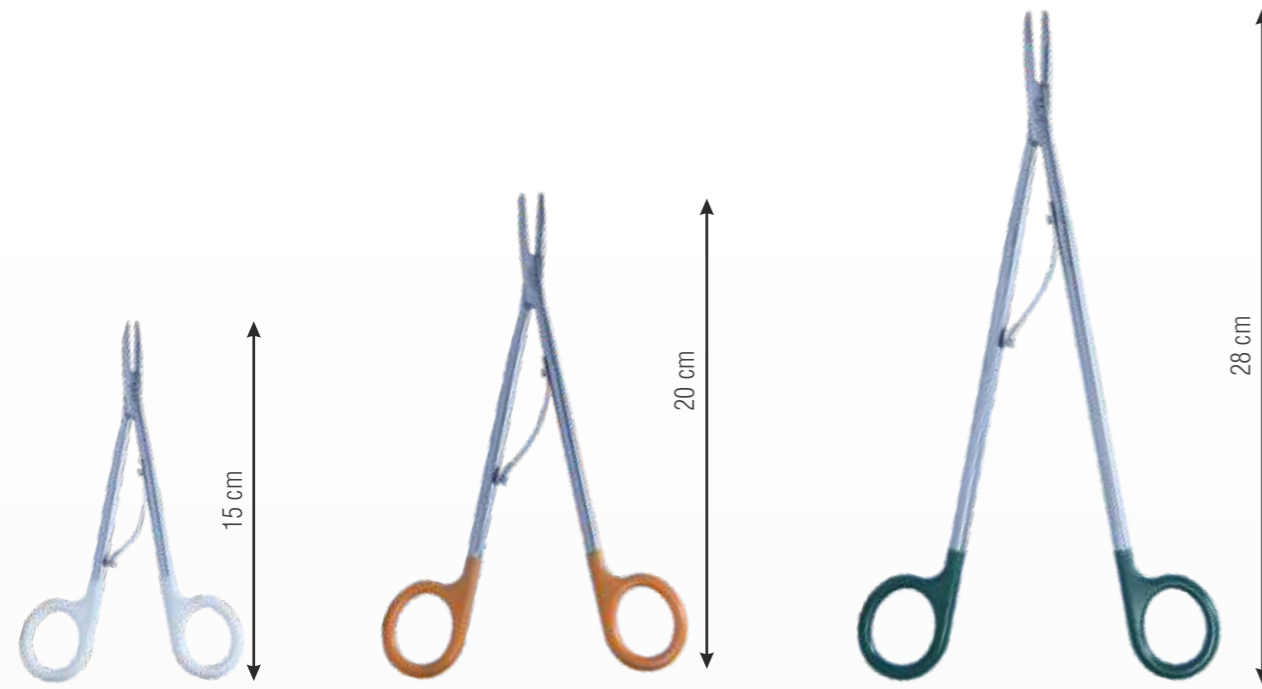
Product Code	Clip Size	Color	Clips / Cartridges	Cartridge / Box	Clip / Box
MLT-100	Small	Blue	6	20	120
MLT-200	Medium	White	6	20	120
MLT-300	Medium- Large	Green	6	20	120
MLT-400	Large	Yellow	6	20	120

- Available in 4 sizes
- Cartridges provide easy and smooth loading of clips to increase efficiency
- Transverse and lateral grooves on the clip allow secure fixation on vessel and increase resistance to dislodgement



Internal Grooves

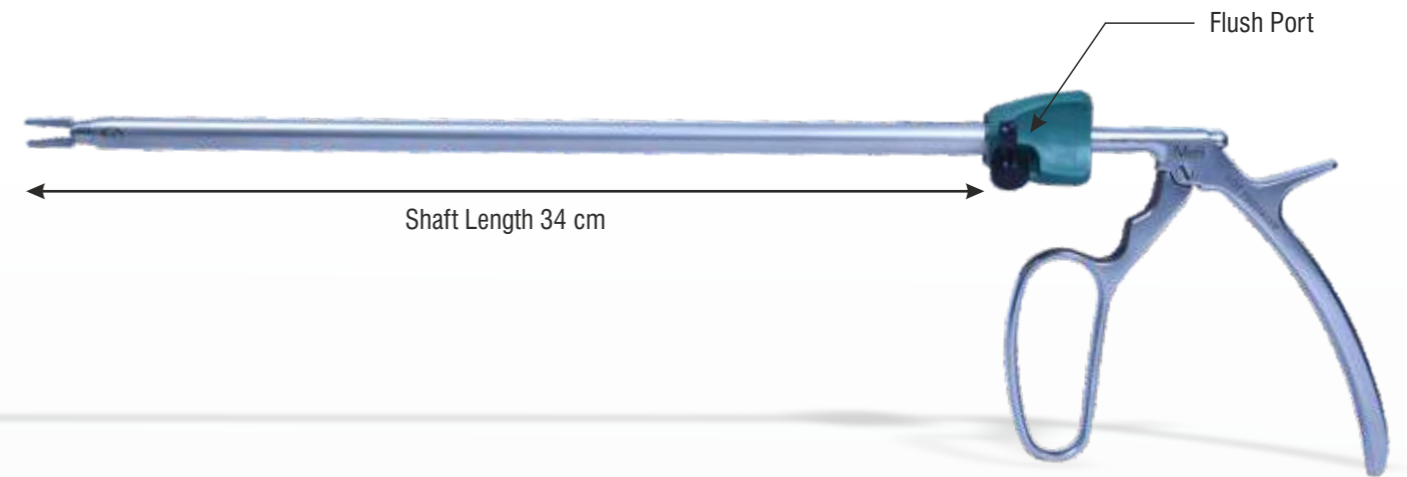
## U Shape Ligation Open Surgery Applicator (Product code: FTOA)



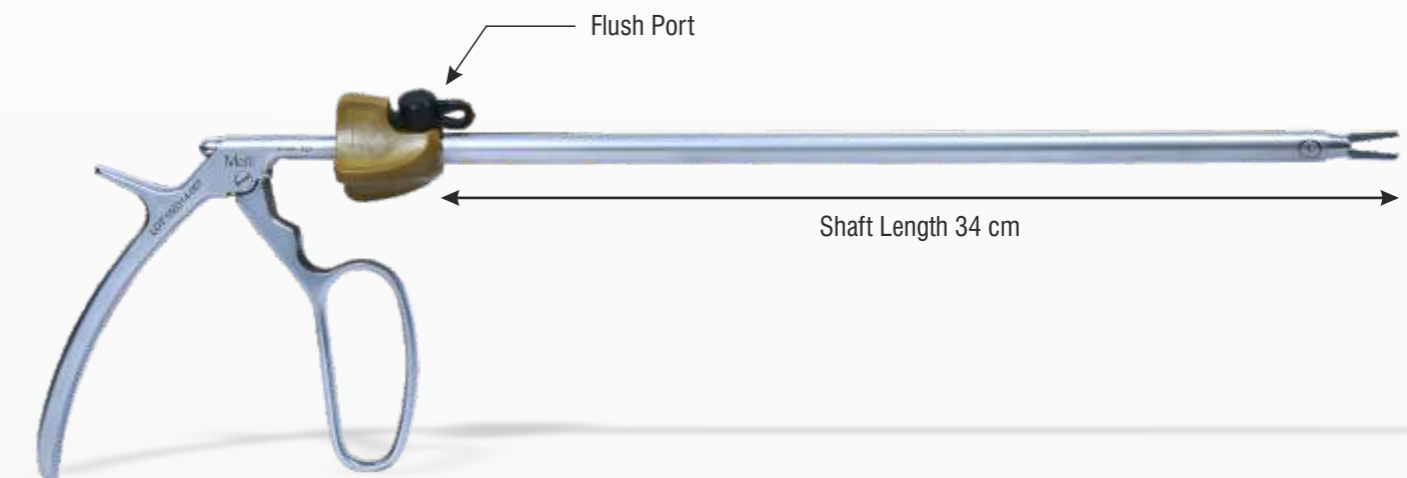
- Applicator are available in 15cm, 20cm and 28cm length
- Applicator are colour coded to match with cartridges
- Designed for durability and consistent performance
- Made up of high quality medical grade stainless steel

Product Code	Applier length	Clip size	Clip code
FTOA-10015	15 cm	Small	MLT-100
FTOA-10020	20 cm		
FTOA-10028	28 cm		
FTOA-20015	15 cm	Medium	MLT-200
FTOA-20020	20 cm		
FTOA-20028	28 cm		
FTOA-30015	15 cm	Medium-Large	MLT-300
FTOA-30020	20 cm		
FTOA-30028	28 cm		
FTOA-40015	15 cm	Large	MLT-400
FTOA-40020	20 cm		
FTOA-40028	28 cm		

## U Shape Ligation Laparoscopic Applicator (Product code: FTEA)



Code: FTEA-00300



Code: FTEA-00400

- Applicator available for Medium –Large (MLT-300) and Large (MLT-400)
- Flushing port facilitates easy cleaning, thus eliminating potential contamination
- Non-detachable design for easier maintenance and durability
- 360 degree shaft rotation by index finger allows one-hand operation
- Applicator rotating knob is colour coded to match with cartridge
- Made up of high quality medical grade stainless steel

Product Code	Clip code	Shaft Diameter
FTEA-00300	MLT-300	10 mm
FTEA-00400	MLT-400	10 mm

## V Shape Ligation Clips (Product code: VMLT)

The pre-formed chevron shape of the MIRUS™ Ligation Clips aids in engulfing tissue with precise tip to tip closure. The wire is designed in a heart shape to give each clip a firm grip on vessel. Cartridge is designed for easy and smooth loading of clip thus increasing efficiency during surgical procedure and adhesive backing provide convenient placement of cartridge in aseptic area during surgery.



Product Code	Clip Size	Color	Clips / Cartridges	Cartridge / Box	Clip / Box
VMLT-060	Micro	White	6	20	120
VMLT-080	Small	Red	6	20	120
VMLT-100	Small-Medium	Yellow	6	20	120
VMLT-200	Medium	Blue	6	20	120
VMLT-300	Medium-Large	Green	6	20	120
VMLT-400	Large	Orange	6	20	120

## V Shape Ligation Open Surgery Applicator (Product Code: VTOA)

- Applicator available in 20cm length and colour coded to match with cartridge
- Designed for durability and consistent performance
- Made up of high quality medical grade stainless steel



Product Code	Applier length	Clip size	Clip code
VTOA-6020	20 cm	Micro	VMLT-060
VTOA-8020	20 cm	Small	VMLT-080
VTOA-10020	20 cm	Small-Medium	VMLT-100
VTOA-20020	20 cm	Medium	VMLT-200
VTOA-30020	20 cm	Medium-Large	VMLT-300
VTOA-40020	20 cm	Large	VMLT-400





## Technical Specification

Stapler	Description	Open length	Close length	Cutting Diameter	Head Diameter	Rows of staples	Staple Quantity
MCS-21R3	Mirus Disp. Circular Stapler 3Row 21	4.5 mm	1.0-2.5 mm	12	21	3	21
MCS-24R3	Mirus Disp. Circular Stapler 3Row 24	4.5 mm	1.0-2.5 mm	15	24	3	24
MCS-25R3	Mirus Disp. Circular Stapler 3Row 25	4.5 mm	1.0-2.5 mm	16	25	3	33
MCS-26R3	Mirus Disp. Circular Stapler 3Row 26	4.5 mm	1.0-2.5 mm	17	26	3	33
MCS-29R3	Mirus Disp. Circular Stapler 3Row 29	4.5 mm	1.0-2.5 mm	20	29	3	36
MCS-32R3	Mirus Disp. Circular Stapler 3Row 32	4.5 mm	1.0-2.5 mm	22	32	3	42
MCS-24	Mirus Disp. Circular Stapler 24	4.5 mm	1.0-2.5 mm	15	24	2	18
MCS-25	Mirus Disp. Circular Stapler 25	4.5 mm	1.0-2.5 mm	16	25	2	20
MCS-26	Mirus Disp. Circular Stapler 26	4.5 mm	1.0-2.5 mm	17	26	2	20
MCS-29	Mirus Disp. Circular Stapler 29	4.5 mm	1.0-2.5 mm	20	29	2	24
MCS-32	Mirus Disp. Circular Stapler 32	4.5 mm	1.0-2.5 mm	22	32	2	30

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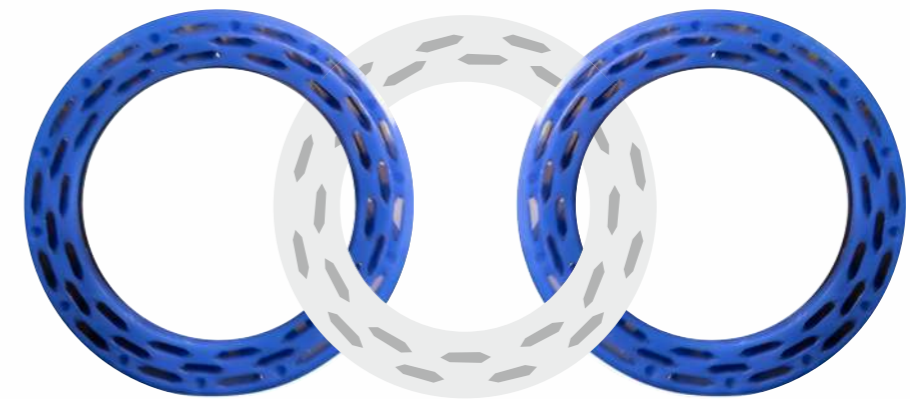
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Meril

**MIRUS**<sup>TM</sup>  
Circular Stapler



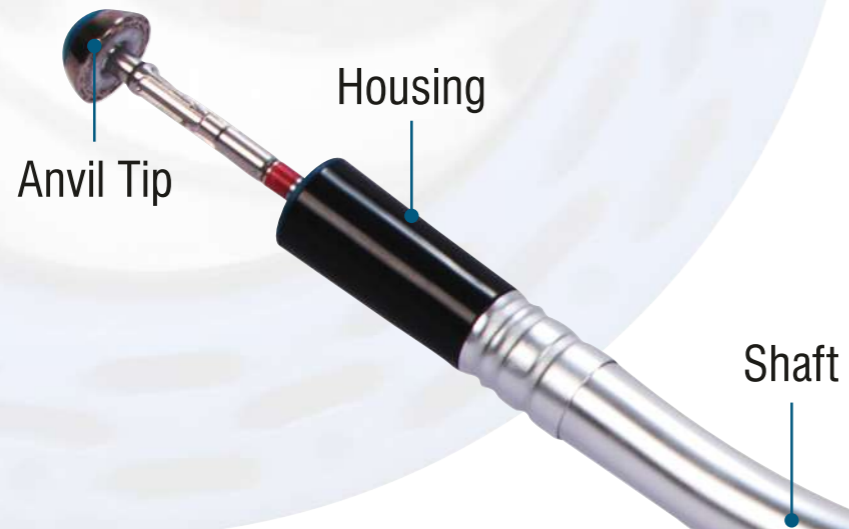
# MIRUS™

## Circular Stapler

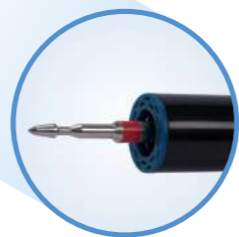


MIRUS™ Circular Stapler is engineered for anastomosis in Gastrointestinal (GI) procedures. The design offers adequate lumen with a series of cutting diameters from 12mm to 22mm. With an adjustable staple height technology, it assures minimal tissue tension & controlled compression besides a reliable tactile & audible feedback while firing.

Meril is a global pioneer in 3 row stapling technology in endomechanical devices. MIRUS™ Circular Stapler comes from the same platform deploying an additional row of titanium staples thus creating better wound security & superior hemostasis. MIRUS™ Circular Stapler is also available in conventional 2 row model.



Ergonomic detachable anvil



Atraumatic dilating trocar tip



2 Row & 3 Row titanium staple lines ensuring superior hemostasis



White teflon cutting washer for audible feedback



Safety Lock prevents inadvertent firing of stapler



Wing Nut knob for controlled compression & tactile feedback



Optimal housing capacity to accommodate double doughnut



Tissue compression scale for adjustable staple height



## Technical Specification

Stapler	Description	Open leg length	Close leg length	Knife Diameter	Number of Staples	Rows of staples
MPPH34R3	Mirus Disp. PPH 3Row 34	3.5 mm	0.75 - 1.5 mm	23	48	3
MPPH32	Mirus Disp. PPH 32	3.5 mm	0.75 - 1.5 mm	24.1	32	2
MPPH34	Mirus Disp. PPH 34	3.5 mm	0.75 - 1.5 mm	25.6	32	2

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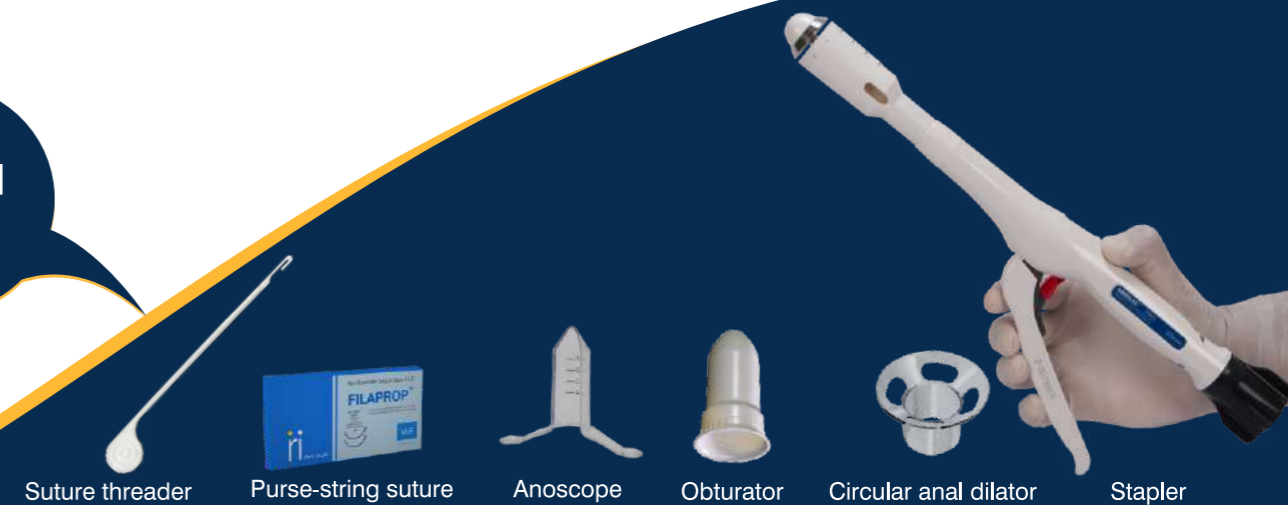
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# MIRUS™

## Hemorrhoids Stapler - MPPH

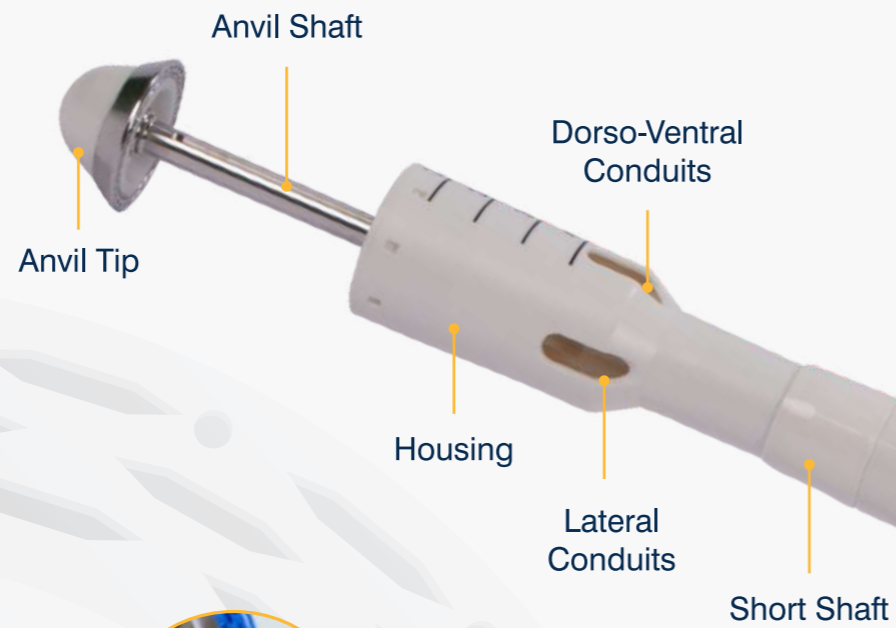


MPPH  
Set



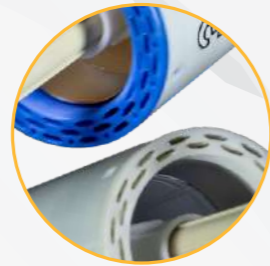
# MIRUS™ Hemorrhoids Stapler

MPPH is abbreviated for Mirus - Procedure set for Prolapsed Hemorrhoids. MPPH set includes circular anal dilator, anoscope, suture threader, obturator & purse string suture. It furnishes two staggered rows (in 32mm & 34mm) & three staggered rows (in 34mm) of titanium staples.



### Markers

Indicates the depth of insertion



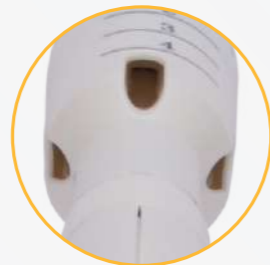
### Staple Lines

2 Row & 3 Row titanium staple lines ensuring better hemostasis



### Anvil Tip & Shaft

Fix stainless steel anvil shaft enhances mechanical stability



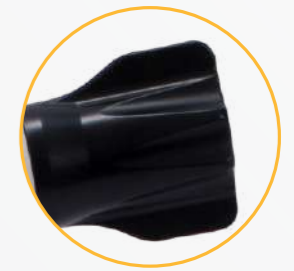
### 4 Conduits

Controlled traction & even doughnut excision



### Safety Lock

Prevents inadvertent firing



### Wing Nut

Offers control & dexterity



### Stapler Housing

Accommodates optimum prolapsed pile mass



### Tissue Compression Indicator

Adjustable Staple Height (0.75mm to 1.5mm)

### Tissue Compression Indicator

### Safety Lock

### Firing Handle

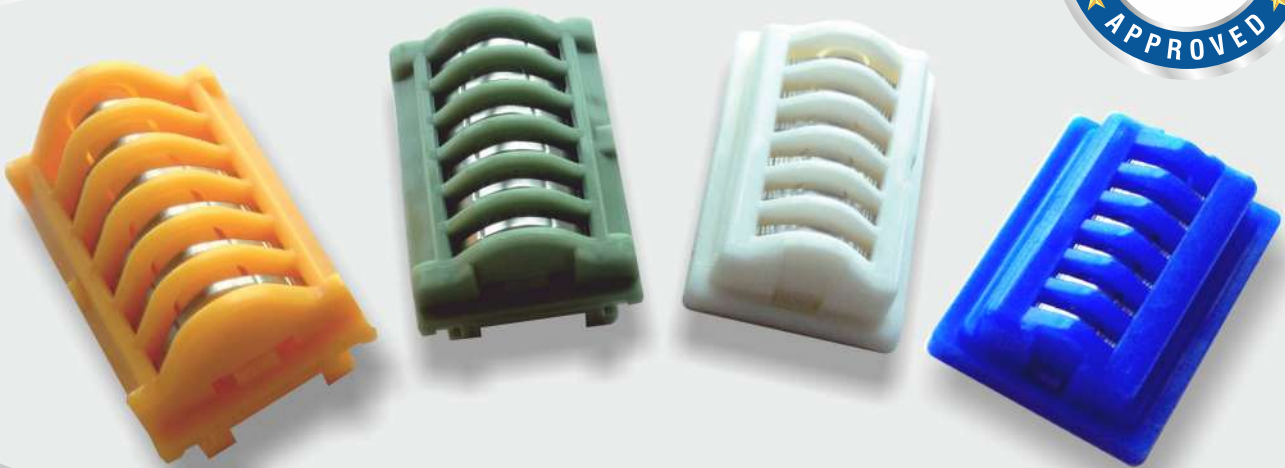
### Wing Nut

**MIRUS™** Ligating Clip is a sterile, medical grade titanium, non-absorbable, implantable device for general surgical procedures that require vessel or tissue ligation. **MIRUS™** Ligating Clip is intended to securely grip the vessel or tissue to provide complete occlusion, atraumatically.

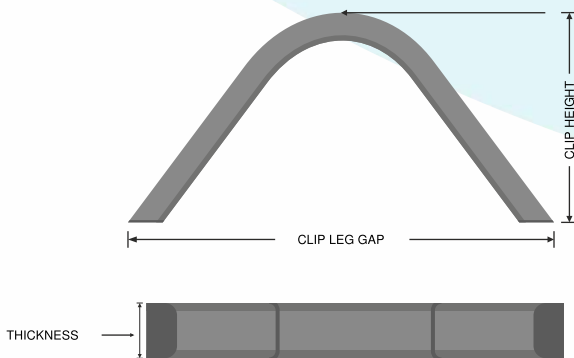
**MIRUS™** Ligating Clip are compatible with **MIRUS™** Ligating clip applicators, allowing the end user to ligate wide range of vessels and tissue structures.

**Available as:**

- Clip Size : Small, Medium, Medium-Large, Large
- Clips/Cartridges : 6
- Cartridges/Box : 20
- Clips/Box : 120
- Product Code : MLT100, MLT200, MLT300, MLT400



**Meril Titanium Clips:**



- Lateral & Transverse grooves allow secure fixation on the structure and increase resistance to dislodgement.
- Triangulated cross section maximises surface contact between clip & jaw.
- Precise tip to tip closure with firm vessel grip.

Ligation Clips

Titanium

Procedure Application

Blood vessel ligation for hemostasis

## Appliers for Open Surgery:



## Technical Specifications

Product	Product code	Specification	Length	Applicator size	Clips compatibility
Applicator-Open	FTOA-10015	OPEN APPLICATOR 100-15CM	15 cm	Small	MLT100
Applicator-Open	FTOA-10020	OPEN APPLICATOR 100-20CM	20 cm	Small	MLT100
Applicator-Open	FTOA-10028	OPEN APPLICATOR 100-28CM	28 cm	Small	MLT100
Applicator-Open	FTOA-20015	OPEN APPLICATOR 200-15CM	15 cm	Medium	MLT200
Applicator-Open	FTOA-20020	OPEN APPLICATOR 200-20CM	20 cm	Medium	MLT200
Applicator-Open	FTOA-20028	OPEN APPLICATOR 200-28CM	28 cm	Medium	MLT200
Applicator-Open	FTOA-30015	OPEN APPLICATOR 300-15CM	15 cm	Medium-Large	MLT300
Applicator-Open	FTOA-30020	OPEN APPLICATOR 300-20CM	20 cm	Medium-Large	MLT300
Applicator-Open	FTOA-30028	OPEN APPLICATOR 300-28CM	28 cm	Medium-Large	MLT300
Applicator-Open	FTOA-40015	OPEN APPLICATOR 400-15CM	15 cm	Large	MLT400
Applicator-Open	FTOA-40020	OPEN APPLICATOR 400-20CM	20 cm	Large	MLT400
Applicator-Open	FTOA-40028	OPEN APPLICATOR 400-28CM	28 cm	Large	MLT400

## Appliers for Laparoscopic Surgery:



## Technical Specifications

Product	Product code	Specification	Length	Applicator size	Compatible Clips	Shaft Diameter	Compatible Trocar
Applicator-Endo	FTEA-00300	LAPAROSCOPIC APPLICATOR 300	34 cm	Medium-Large	MLT300	10 mm	10 mm & above
Applicator-Endo	FTEA-00400	LAPAROSCOPIC APPLICATOR 400	34 cm	Large	MLT400	10 mm	10 mm & above