

VICTOR MEDICAL

Product Manual



VICTOR MEDICAL INSTRUMENTS CO.,LTD.

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VICTOR MEDICAL INSTRUMENTS CO.,LTD.





VICTOR MEDICAL COMPANY PROFILE

Company Profile

Victor Medical Instruments Co., Ltd is a professional firm dedicated to developing, manufacturing and marketing for auto surgical staplers and Minimally Invasive Surgery related products. By providing surgeons with comprehensive surgical solutions, and offering our customers with advanced surgical devices, professional medical education, as well as superior customer service, Victor Medical has been constantly practicing the creed of being “professional, focused and concentrated.”

By strictly comply to the Quality System operational requirements of ISO13485, GMP and Brazil ANVISA , the Victor Medical products have been successively certified by CFDA, The US FDA, CE, The Korean FDA, India CDSCO, Saudi Arabia SFDA, Iran and relevant administrations from other nations. Our products have so far been marketed in 16 Countries around the globe and hundreds of Medical Institutions in China. The company has created a strong R&D team. As a result, we obtained 35 Chinese patents, including 14 invention patents, and 9 patents that are being evaluated. Victor Medical has been successively awarded as Jiangsu Province High-tech Enterprise, Small & Medium Sized Technology Enterprise in Jiangsu Province, Private Technological Enterprise in Jiangsu Province, Engineering Technology Research Center in Changzhou City. It also receives awards of National Creative Funds, Jiangsu Province Renowned Trademark and Technological Creation.

By upholding the principles of striving for perfection and continuous creations, Victor Medical is aspired to become the leader in the field of Chinese surgical devices.

- 2019**
 - Leded and drafted the national industry standard for Endoscopic Linear Cutter and Reload
 - To be recognized as Industrial Design and Research Center in Changzhou City
 - Established experimental base for post-doctoral innovation in Changzhou City
- 2018**
 - Established a postgraduate workstation in cooperation with Southeast University
 - Explored new way of industrial-academic-research cooperation and promoted patent transfer by cooperating with clinician
 - Got approval of the registration of India, Saudi Arabia and Iran markets
- 2017**
 - Merger and reorganization with Canopus, and had a successful IPO at China New Third Board Market with Trade No 834478
 - Obtained 2 national patents ● Annual sales outpaced 20 million US Dollars
- 2016**
 - The 3rd generation staplers for open surgery launched into market
 - Obtained US FDA approvals ● Obtained 6 national patents
- 2015**
 - To be awarded national innovation fund by new generation Endoscopic Linear Cutter
 - To be recognized as Engineering Technology Research Center in Changzhou City
 - Obtained 3 national patents
- 2014**
 - New generation Endoscopic Linear Cutter launched into market
 - Got the approval of Brazil ANVISA and KFDA GMP Inspection
 - Obtained 3 national patents
- 2013**
 - To be recognized as Small & Medium Sized Technology Enterprise in Jiangsu Province
 - To be awarded national innovation fund ● Obtained 1 national patent
- 2012**
 - To be recognized as Jiangsu Province High-tech Enterprise
 - Research & Develop the 1st generation Endoscopic Linear Cutter
 - Obtained 2 national patents
- 2011**
 - To be recognized as Science and Technology Enterprise in Jiangsu Province
 - Obtained 9 national patents
- 2010**
 - The 1st generation stapler for open surgery launched into market
 - Obtained 6 national patents
- 2009**
 - Foundation of Victor Medical ● Acquired CE and ISO 13485 certification

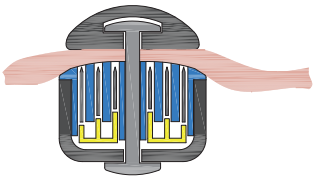


Single Use Endoscopic
Linear Cutter



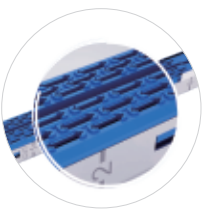
The staple height reaches up
to 5.0mm for green reload

The staple height reaches up to 5.0mm
for green reload
Ensure suturing extra-thick tissue
To effectively prevent the staples
opening by extra-thick tissue



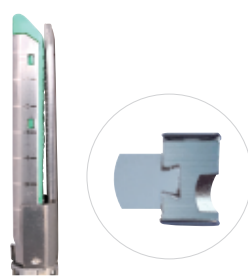
Different staple
heights from
inner to outer rows

Adapt to different tissue thickness
Excellent hemostatic effect
To provide optimal blood supply



Grasping surface
design

Providing the least
tissue slippage
during firing



Reinforced and
one-piece
I-beam design

Effectively control of the
space between reload
and anvil,consistently force
control of the parallel clamping,
reducing tissue damage in
second closure, ensure
optimal B-shape formation



Extra-thin reinforced
and one-piece anvil

Stable performance during
firing.Optimal staple formation.
To be easier passing the
narrow tissue gap with the
extra-thin anvil



oriented design normal design

Drop-shaped oriented
anvil design

Ensure consistent
B-shape formation,
excellent hemostasis



6 level angle adjustment
from left to right

The articulating angle could be
adjusted to 15 degrees, 30 degrees
and 45 degrees. 6 level angle
adjustment could easily reach into
the anastomosis position



One-handed
Operation

Easy and convenient to close
and reopen the jaw by
one-handed operation system



Single Use Endoscopic Linear Cutter



Articulating Reload

Figure	Item Code	Suture Length	Staple Height	Compressed Tissue Thickness of Application	Color	Color	Packaging
	PECFR30Y	30mm	2.3mm/2.3mm/2.3mm	0.70–1.20mm	Grey	●	6pcs/box
	PECFR30W	30mm	2.0mm/2.5mm/3.0mm	0.88–1.50mm	White	○	6pcs/box
	PECFR30B	30mm	3.0mm/3.5mm/4.0mm	1.50–2.25mm	Blue	●	6pcs/box
	PECFR45Y	45mm	2.3mm/2.3mm/2.3mm	0.70–1.20mm	Grey	●	6pcs/box
	PECFR45W	45mm	2.0mm/2.5mm/3.0mm	0.88–1.50mm	White	○	6pcs/box
	PECFR45B	45mm	3.0mm/3.5mm/4.0mm	1.50–2.25mm	Blue	●	6pcs/box
	PECFR45G	45mm	4.0mm/4.5mm/5.0mm	2.25–3.00mm	Green	●	6pcs/box
	PECFR60Y	60mm	2.3mm/2.3mm/2.3mm	0.70–1.20mm	Grey	●	6pcs/box
	PECFR60W	60mm	2.0mm/2.5mm/3.0mm	0.88–1.50mm	White	○	6pcs/box
	PECFR60B	60mm	3.0mm/3.5mm/4.0mm	1.50–2.25mm	Blue	●	6pcs/box
	PECFR60A	60mm	4.2mm/4.2mm/4.2mm	1.75–2.50mm	Gold	●	6pcs/box
	PECFR60G	60mm	4.0mm/4.5mm/5.0mm	2.25–3.00mm	Green	●	6pcs/box

Straight Reload

Figure	Item Code	Suture Length	Staple Height	Compressed Tissue Thickness of Application	Color	Color	Packaging
	PECR30Y	30mm	2.3mm/2.3mm/2.3mm	0.70–1.20mm	Grey	●	6pcs/box
	PECR30W	30mm	2.0mm/2.5mm/3.0mm	0.88–1.50mm	White	○	6pcs/box
	PECR30B	30mm	3.0mm/3.5mm/4.0mm	1.50–2.25mm	Blue	●	6pcs/box
	PECR45Y	45mm	2.3mm/2.3mm/2.3mm	0.70–1.20mm	Grey	●	6pcs/box
	PECR45W	45mm	2.0mm/2.5mm/3.0mm	0.88–1.50mm	White	○	6pcs/box
	PECR45B	45mm	3.0mm/3.5mm/4.0mm	1.50–2.25mm	Blue	●	6pcs/box
	PECR45G	45mm	4.0mm/4.5mm/5.0mm	2.25–3.00mm	Green	●	6pcs/box
	PECR60Y	60mm	2.3mm/2.3mm/2.3mm	0.70–1.20mm	Grey	●	6pcs/box
	PECR60W	60mm	2.0mm/2.5mm/3.0mm	0.88–1.50mm	White	○	6pcs/box
	PECR60B	60mm	3.0mm/3.5mm/4.0mm	1.50–2.25mm	Blue	●	6pcs/box
	PECR60A	60mm	4.2mm/4.2mm/4.2mm	1.75–2.50mm	Gold	●	6pcs/box
	PECR60G	60mm	4.0mm/4.5mm/5.0mm	2.25–3.00mm	Green	●	6pcs/box

Single Use Endoscopic Linear Cutter Parameter Chart

Item Code	Description	Shaft Length	Packaging
PSECBS	Single Use Endoscopic Linear Cutter–Short Shaft	70mm	1pc/box



Item Code	Description	Shaft Length	Packaging
PSECB	Single Use Endoscopic Linear Cutter–Standard Shaft	160mm	1pc/box



Item Code	Description	Shaft Length	Packaging
PSECBL	Single Use Endoscopic Linear Cutter–Extra long Shaft	260mm	1pc/box



Solution for Bariatric Procedure +



The green reload, which is applied to extra-thick tissue of pylorus



Single Use Endoscopic Linear Cutter--Extra Long



Single Use Bladeless Trocar--Extra Long

Solution for Thoracic Procedure +



The green reload, which is applied to extra thick and hard tissue of lung



Single Use Endoscopic Linear Cutter--Short



The grey reload, which provides excellent hemostatic effect



Single Use Endoscopic Linear Cutter



Single Use Endoscopic Linear Cutter Parameter Chart

Description	Item Code	Shaft Length	Item Code	Shaft Length	Item Code	Shaft Length
Short	SEC30S/SEFC30S	250mm	SEC45S/SEFC45S	265mm	SEC60S/SEFC60S	280mm
Standard	SEC30/SEFC30	310mm	SEC45/SEFC45	325mm	SEC60/SEFC60	340mm
Extra long	SEC30L/SEFC30L	410mm	SEC45L/SEFC45L	425mm	SEC60L/SEFC60L	440mm

Single Use Endoscopic Linear Cutter Reload Parameter Chart

Item Code	Suture Length	Staple Height	Staple Formation Height
ECR30Y	30mm	2.0mm/2.0mm/2.0mm	0.75mm
ECR30W		2.5mm/2.5mm/2.5mm	1.0mm
ECR30B(H)		3.5mm/3.5mm/3.5mm	1.5mm
ECR30G(H)		4.2mm/4.2mm/4.2mm	2.3mm
ECR30A(H)		3.8mm/3.8mm/3.8mm	1.8mm
ECR45Y	47mm	2.0mm/2.0mm/2.0mm	0.75mm
ECR45W		2.5mm/2.5mm/2.5mm	1.0mm
ECR45B(H)		3.5mm/3.5mm/3.5mm	1.5mm
ECR45G(H)		4.2mm/4.2mm/4.2mm	2.3mm
ECR45A(H)		3.8mm/3.8mm/3.8mm	1.8mm
ECR60Y	59mm	2.0mm/2.0mm/2.0mm	0.75mm
ECR60W		2.5mm/2.5mm/2.5mm	1.0mm
ECR60B(H)		3.5mm/3.5mm/3.5mm	1.5mm
ECR60G(H)		4.2mm/4.2mm/4.2mm	2.3mm
ECR60A(H)		3.8mm/3.8mm/3.8mm	1.8mm



Enhanced compression space control system

Ensure space between anvil and reload keeping the same from proximal to distal side. During firing, to provide consistent B-sharp formation



Real one-handed operation

Easy and convenient to open and close the jaw by one-handed operation



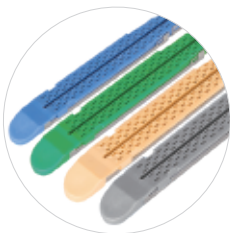
Auxiliary grasping force of reload surface

Avoid the tissue slipping out during firing



Safety block mechanism

Ensure the knife can be returned to the original position anytime in case of emergency



Multiple reload options meet for different requirement of tissue thickness

Provide more options to suit for different tissues



Adaptive angle adjustment

Adjust the reload angle freely



Single Use Bladeless Trocar & Veress Needle



Wide product range
Standard trocar, pediatric trocar, extra-long trocar, thyroid trocar



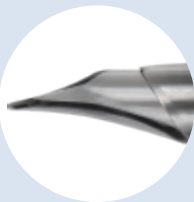
One-way thread design
Smooth insertion and provide sufficient abdominal wall fixation during penetration



High quality medical grade PC material
Solid and flexible obturator to ensure safe insertion



Abundant kit models
Multiple combinations, multiple options
Applicable for different departments and surgical procedure



Patented bladeless olecranon design

Avoid risk of injury to internal organs, fascia suture is not required



Bivalved elastic sealing

Excellent leakage prevention
Wear-resistance to support frequent instrument exchanges



Universal seal design

Perfect wrapping instrument rod to provide better prevention of leakage. Three-layers structure and special materials to ensure gas proofness performance. Accommodate instruments from 5mm to 12mm, no need converter



12mm optical trocar

Visual access to ensure the insertion control

Extra-long trocar



Applicable for bariatric surgery and obese patients



Extra-long trocar models
5mm, 10mm, 12mm, 15mm



Simplified valve body upper cover design
Provide sufficient operation space

Standard Trocar & Extra-long Trocar & Veress Needle Parameter Chart

Item Code	Description	Specification
VT05	5mm Small head	5*92mm
VTB05	5mm	5*96mm
VTB10	10mm	10*96mm
VTB12	12mm	12*96mm
VTB15	15mm	15*110mm
VT05L	5mm extra-long	5*137mm
VTB10L	10mm extra-long	10*147mm
VTB12L	12mm extra-long	12*147mm
VTB15L	15mm extra-long	15*147mm
VTN12	12mm veress needle	120mm
VTN15	15mm veress needle	150mm

Trocar Kit Specification Chart

Item Code	Qty for Kit	3mm	5mm	10mm	12mm	15mm	VTN12
VTK01	4		2 pcs (Extra-long)	1 pc (Extra-long)	1 pc (Extra-long)		
VTK02	3	2 pcs	1 pc (Small head)				
VTK04	3		2 pcs (Extra-long)	1 pc (Extra-long)			
VTBK10-1	3		1 pc	2 pcs			1 pc
VTBK10-2	4		2 pcs	2 pcs			1 pc
VTBK10-2-1	4		2 pcs (Small head)	2 pcs			1 pc
VTBK10-3	2		1 pc	1 pc			
VTBK10-4	3		2 pcs	1 pc			1 pc
VTBK10-4-1	3		2 pcs (Small head)	1 pc			1 pc
VTBK10-5	2			1 pc			1 pc
VTBK10-6-1	2		1 pc	1 pc			1 pc
VTBK12-1	2				2 pcs		1 pc
VTBK12-2	4		2 pcs	1 pc	1 pc		
VTBK12-3	4		2 pcs		2 pcs		1 pc
VTBK12-3-1	4		2 pcs (Small head)		2 pcs		1 pc
VTBK12-4-1	3		1 pc (Small head)		2 pcs		1 pc
VTBK12-5	3		2 pcs		1 pc		1 pc
VTBK12-5-1	3		2 pcs (Small head)		1 pc		1 pc
VTBK15-1	5		2 pcs	2 pcs		1 pc	1 pc
VTBK15-1-1	5		2 pcs (Small head)	2 pcs		1 pc	1 pc

Note: For all kits, if 2pcs of same code included in one box, one of them is sleeve.



Single Use Pediatric Trocar & Retractable Hook



Patented small head design
Provide sufficient operation space



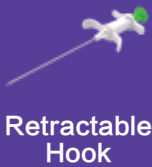
Cupped oriented design
Easy for instruments to insert and prevent from being bent and deformed



Thread design
Strengthen abdominal wall fixation, no need suture fixation



Stainless steel obturator
Provide reliable insertion



Retractable Hook

Minimally Invasive Surgery

The diameter of crochet is 1.2mm, can reduce one incision and one sleeve to lower operating expense.

Save Operation Time

Unique double crochet design, no need to completely withdraw from the body to insert again, reducing trauma and effectively saving time.

Item Code	Descripton	Specification
VT03	3mm	3*52mm
VT05	Small head 5mm	5*92mm
VTK02	VTK02 Trocar Kit	Trocar 3mm*1、small head trocar 5mm*1、trocar sleeve 3mm*1



Single Use Thyroid Trocar



Independent visual stripper
Ergonomic handle, easier to peel
Visible peeling under lens guidance to ensure safe operation



Widened thread
Meet the special requirement of thyroid surgery
Provide better fixation and reduce the damage

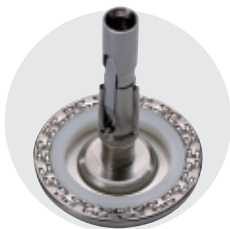


Small head design
More suitable for approaching from areola and underarm
Easy to operate

Item Code	Descripton	Specification
VTK01	VTK01 Trocar Kit	Trocar 5mm*1, trocar 10mm*1, trocar sleeve 5mm*1, obturator 12mm*1
VTK04	VTK04 Trocar Kit	Trocar extra-long 5mm*1, trocar extra-long 10mm*1,trocar extra-long sleeve 5mm*1



Single Use Circular Stapler



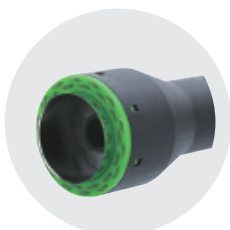
One-piece anvil provide strong support
Ensure the “B” shape formation



5.8mm extra-thin anvil
Easy to be placed into purse-string



Variable speed tail
Protect stomas while removing stapler,
uniformly squeeze tissue when closing



Single edged circular knife
ensure sharper cutting



**Indicated window design
Tissue compression scale**
Fire until the indicators within the green zone,
ensure the safe suture



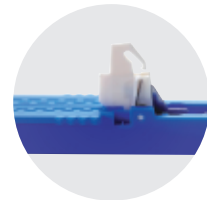
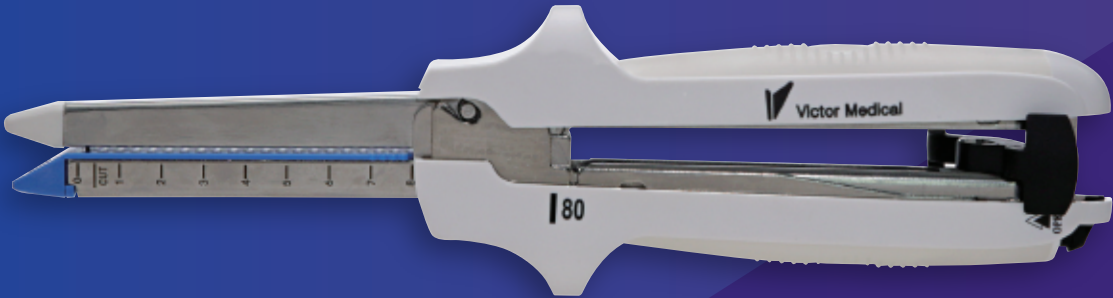
Patented clamping slot design
Ensure better connection and smooth
placement, reduces the damage
when placing into the tissue

Single Use Circular Stapler Parameter Chart

Figure	Item Code	Outer Dia	Inner Dia	Staple Qty	Staple Height	Staple Formation Height
	(E)SCS21	21mm	13mm	18	4.5mm	1.9mm
	SCSA21	21mm	13mm	18	4.5mm	1.9mm
	(E)SCS23	23mm	15mm	20	4.5mm	1.9mm
	SCSA23	23mm	15mm	20	4.5mm	1.9mm
	(E)SCS25	25mm	17mm	22	4.8mm	2.0mm
	SCSA25	25mm	17mm	22	4.8mm	2.0mm
	(E)SCS27	27mm	19mm	24	4.8mm	2.0mm
	SCSA27	27mm	19mm	24	4.8mm	2.0mm
	(E)SCS29	29mm	21mm	26	4.8mm	2.0mm
	SCSA29	29mm	21mm	26	4.8mm	2.0mm
	(E)SCS31	31mm	23mm	28	5.0mm	2.2mm
	SCSA31	31mm	23mm	28	5.0mm	2.2mm
	(E)SCS33	33mm	25mm	32	5.2mm	2.2mm
	SCSA33	33mm	25mm	32	5.2mm	2.2mm



Single Use Linear Cutter



Auto bumped knife protector

Avoid misfiring from empty cartridge and protect the surgeons and nurse in operation



Floating reload

Cannot be fired if the instrument don't close properly



Adjustable bidirectional firing knob for easy control of firing

Applicable for different operating habits



Reinforced instrument body

Ensure good staple formation after multiple firings

Figure	Item Code	Suture Length	Staple Qty	Staple Height	Formation Height
	SLC60B	63mm	64	3.8mm	1.5mm
	SLC80B	83mm	84	3.8mm	1.5mm
	SLC100B	103mm	104	3.8mm	1.5mm
	SLC60G	63mm	64	4.8mm	2.0mm
	SLC80G	83mm	84	4.8mm	2.0mm
	SLC100G	103mm	104	4.8mm	2.0mm
	LCR60B	63mm	64	3.8mm	1.5mm
	LCR80B	83mm	84	3.8mm	1.5mm
	LCR100B	103mm	104	3.8mm	1.5mm
	LCR60G	63mm	64	4.8mm	2.0mm
	LCR80G	83mm	84	4.8mm	2.0mm
	LCR100G	103mm	104	4.8mm	2.0mm



Single Use Linear Stapler



Patented 3 rows of staple line design

Excellent hemostatic effect, better blood supply



Alignment pin design

Accurate fixation, ensure good staple formation



Segmental firing

More safe in second close

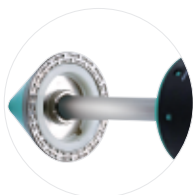
Item Code	Suture Length	Staple Line	Staple Qty	Staple Height	Formation Height	Color	Color
PSLS30B2/G2	30mm	2	13	3.8/4.5mm	1.5/2.0mm	Blue/Green	
PSLS45B2/G2	45mm	2	17	3.8/4.5mm	1.5/2.0mm	Blue/Green	
PSLS60B2/G2	60mm	2	23	3.8/4.5mm	1.5/2.0mm	Blue/Green	
PSLS100B2/G2	100mm	2	41	3.8/4.5mm	1.5/2.0mm	Blue/Green	
PSLS30W3/B3/G3	30mm	3	20	2.5/3.8/4.5mm	1.0/1.5/2.0mm	White/Blue/Green	
PSLS45B3/G3	45mm	3	26	3.8/4.5mm	1.5/2.0mm	Blue/Green	
PSLS60B3/G3	60mm	3	35	3.8/4.5mm	1.5/2.0mm	Blue/Green	



Single Use Hemorrhoidal Stapler & Accessories



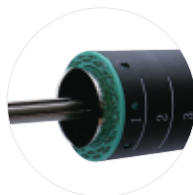
24.1ml ultra-large capacity
Accommodate more tissue



One-piece central rod design
Ensure excellent concentricity and verticality.Ensure consistent of the staple formation



53mm central rod design
Providing better operation view



Single edged circular knife
Ensure sharper cutting



Obvious feedback when firing
High quality gasket provide obvious audible and tactile feedback



Variable speed tail
Protect stomas while removing stapler,uniformly squeeze tissue when closing stapler



More staples
Providing excellent hemostatic effect



Indicate window design
Tissue compression scale
Fire until the indicators within the green zone,ensure the safe suture

Item Code	Outer Dia	Inner Dia	Staple Qty	Staple Height	Formation Height	Color	Color
SHS32	32mm	24mm	32	4.0mm	2.0mm	Green	
SHS34	34mm	26mm	34	4.0mm	2.0mm	White	



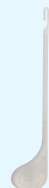
Purse-string Suture Anoscope



Obturator



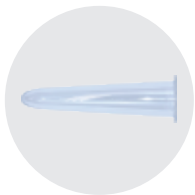
Circular Anal Dilator



Suture Threader



Single Use Anal Hemorrhoid Ligator Device & Accessories



Barrel



Anoscope



Ligation Loop Subassembly

Characteristics

- Disposable device, prevent cross infection.
- Mild pain, barely bleeding.
- No scar after operation, no stricture of anus or any other complications, convenient for the follow-up treatment.
- Just short stay or even no hospitalization, faster recovery, cost-effective, little impact on patients' life.
- Simple operation, 5-10 minutes, saving the cost.

Parameter Item Code	Outer Dia of Air Suction Pipe	Tolerance	Inner Dia of Loop	Outer Dia of Loop	Tolerance	Inner Dia of Anoscope	Outer Dia of Barrel	Tolerance
VMTZQ-12x1	12mm	± 1.5mm	1.5mm	6mm	± 0.5mm	20mm	19.5mm	± 1.5mm
VMTZQ-12x2								
VMTZQ-12x3								
VMTZQ-12x4								
VMTQ-12x1						/	/	/
VMTQ-12x2								
VMTQ-12x3								
VMTQ-12x4								

● 1-2 pcs of ligation loop subassembly will be included in each ligator device package.



Single Use Circumcision Stapler



Indication

- Clinical operation for foreskin cutting and suturing.

Product Characteristics

- Humanized design of balanus cover, protect the prepuce bridle effective, Prevent excessive excision of the prepuce bridle.
- Accurate control of the scope of excision, regular cutting edge, beautiful, small scar, fast recovery.
- Orange safety block makes it safer, prevent mistaken firing, more convenient operation.
- Different types of rings are available according to individual differences.
- Disposable sterilizing product. Prevent various infections, no complications after operation.

Single Use Circumcision Stapler Parameter Chart

Item Code	Outer Dia of Blade	Staple Height	Staple Qty
VMBQA-11	11mm	2.5mm	9
VMBQA-13	13mm		10
VMBQA-15	15mm		11
VMBQA-17	16.5mm		12
VMBQA-19	18mm		13
VMBQA-22	22mm		16
VMBQA-25	25mm		18
VMBQA-29	29mm		20
VMBQA-34	34mm		24



Single Use Endoscopic Retriever



6 sizes provide more options for different sizes specimen



Medical grade nontoxic TPU material



Retriever bag could open automatically and smoothly easy to operation



Excellent performance of elasticity and intensity to ensure reliable and convenient operation

Figure	Item Code	Bag Height	Bag Diameter	Bag Capacity
	VER09	150mm	90mm	150ml
	VER12	200mm	120mm	500ml
	VERB60	175mm	60mm	100ml
	VERB80	175mm	80mm	300ml
	VERB100	175mm	100mm	550ml
	VERB130	175mm	130mm	750ml



Single Use Suction & Irrigation Cannula



Suction & Irrigation Cannula

Item Code
VESI05
Description
Suction & Irrigation Cannula
Details
φ 5mm × 320mm

- Visualized suction and irrigating button.
- Ergonomic design handle, easy to operate.



Single Use Skin Stapler

Item Code	Staple Qty	Width
DSS15G/DSS15B	15	Wide/Regular
DSS25G/DSS25B	25	Wide/Regular
DSS35G/DSS35B	35	Wide/Regular
PDSS15G/PDSS15B	15	Wide/Regular
PDSS25G/PDSS25B	25	Wide/Regular
PDSS35G/PDSS35B	35	Wide/Regular
DSSC		Remover



- Rapid and convenient operation to benefit for wound healing
- Single Use device, prevent cross infection
- Regular/wide staple options, applicable for different wounds

Single Use Wound Protector and Retractor



- Open incision without damage
- Uniform tension , reduce tissue damage
- Maximally open incision to provide better operation view
- Squeeze cutting edge to prevent leakage
- Protect incision
- Prevent tumour implantation metastasis in incision
- Prevent infection of incision
- Prevent incision from burn due to misoperation

Item Code	Sizes	Channel Diameter	Applicative Incision Size
VIPA	60/70-60/150	6cm	2-4cm
	80/90-80/150	8cm	2.5-6cm
	120/130-120/250	12cm	5-9cm
	150/160-150/250	15cm	7-12cm
	180/190-180/250	18cm	9-14cm
	220/230-220/250	22cm	11-17cm
	270/280-270/250	27cm	20-22cm
	320/330-320/250	32cm	22-27cm
VIPB	40/30-15/20	1.5cm	2cm
	50/40-25/25	2.5cm	3cm
	70/70-35/25	3.5cm	4cm
	120/100-60/40	6.0cm	6cm



CERTIFICATES



VICTOR'S FOOTMARKS