

CAK 常安康™



ANKANG

Product brochure

CHANGZHOU ANKANG MEDICAL INSTRUMENTS CO., LTD.

CAK 常安康™

Address: A4 Standard Workshop, Hutang Science & Technology Industrial Park, Hutang Town,

Wujin District, Changzhou, Jiangsu, China

Tel: 0086-519-68021374

Fax: 0086-519-68021367

Email: marketing@cak-medical.com

www.cak-medical.com

CAK 常安康TM

● INTRODUCTION

Changzhou Ankang Medical Instruments Co., Ltd., founded in Changzhou City, Jiangsu Province, in 2010, is a Chinese national high-tech enterprise, integrating researching, manufacturing, and selling minimally invasive surgery and open surgery instruments.

The company's products mainly include a full range of surgical staplers, surgical consumables and medical macromolecular products named "CAK", having high competitiveness in the field.

The company's quality management system has got the ISO13485 certification, "CAK" products are widely approved by CFDA, CE, FSC and other certifications.

The head office is located in Hutang Science and Technology Industrial Park, Changzhou City, Jiangsu Province. The production site covers an area of 12,000 square meters with an 100,000-grade cleanroom of 3,000 square meters.



Chongqing subsidiary is a professional production enterprise, specializing in researching, manufacturing, selling and service of minimally invasive surgery, tumor resection and sutures, gastrointestinal, urinary, anorectal and other medical products, with a cleanroom of 1,500 square meters.

Huai'an subsidiary is committed to the researching, manufacturing, and selling of medical high-value macromolecular materials, medical sanitary materials and dressings, covering an area of 40,000 square meters, including 20,000 square meters for the office building and standard workshops and 2,000 square meters for 100,000-grade cleanroom.



● TABLE OF CONTENTS

Disposable Endo Cutter Stapler and Cartridge (KUN-type)	01	Disposable Curved Cutter Stapler and Cartridge	19
Disposable Endo Cutter Stapler and Cartridge (QIAN-type)	05	Disposable Laparoscopic Trocar	21
Disposable Prolapse Hemorrhoids Stapler and Accessories (PPH)	09	Disposable Wound Protector	23
Disposable Prolapse Hemorrhoids Stapler and Accessories (TST)	11	Disposable Endo Bag	25
Disposable Circular Stapler	13	Disposable Skin Stapler	27
Disposable Linear Cutter Stapler and Cartridge	15	Disposable Purse String Stapler	29
Disposable Linear Stapler and Cartridge	17	Disposable Circumcision Stapler	31



CAK 常安康



Disposable Endo Cutter Stapler and Cartridge-KUN Type

● APPLICATIONS

Be applicable for resection, transection and anastomosis in open surgery or laparoscopic surgery.
It's usually used in general surgery, thoracic surgery, urology surgery, gynecology and other surgeries.



● STAPLER

Type	Model	Main Application
Standard shaft	AKYWQA	Gastrointestinal surgery
Longer shaft	AKYWQB	Bariatric surgery
Short shaft	AKYWQC	Thoracoscopic surgery



● RELOAD

Model	Application	No. of Staples	Suture length(mm)	Staple Height Before Forming(mm)	Color of Cartridge
AKYQDB-30/2.5	Thin tissue	48	30	2.5	Brown
AKYQDB-45/2.5	Thin tissue	60	45	2.5	Brown
AKYQDB-45/3.5	Normal tissue			3.5	Purple
AKYQDB-45/4.8	Thick tissue			4.8	Black
AKYQDB-60/2.5	Thin tissue	90	60	2.5	Brown
AKYQDB-60/3.5	Normal tissue			3.5	Purple
AKYQDB-60/4.8	Thick tissue			4.8	Black

● CHARACTERS



Atraumatic grip

Reduces horizontal and vertical oscillations when staples are raised. It maintains the stability of stitching in the process of anastomosis and ensures the stitching accurately entering the groove.



Curved tip anvil

Makes it easier for operator to separate vessels, and safer to patients. Meanwhile the tips can also be used for blunt dissection.



Anti-skid cartridge

Less end overflow of tissue when firing to ensure a better grasp of tissue.



Progressive pressing technology

To make tissue more evenly stressed and achieve the perfect staple formation.



Intelligent waterdrop shaped anvil groove

To ensure the B-shape formation when staple legs were raised for a better anastomosis and hemostatic effect.



Stepped cartridge surface

The stepped cartridge surface facilitates the lateral diffusion of the tissue and minimizes the distal extrusion of the tissue.



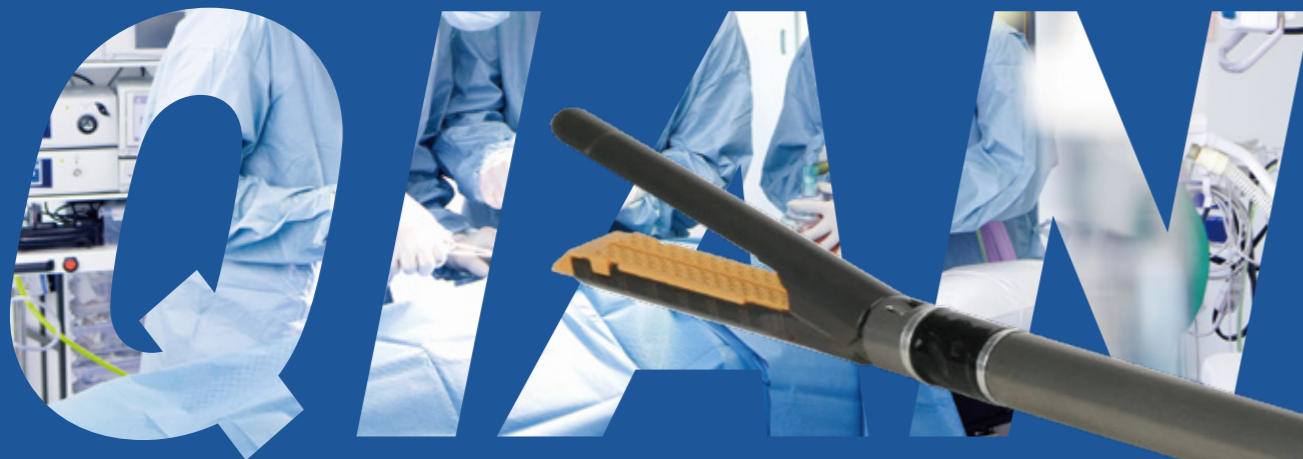
High strength anvil

The strength of anvil raised 5 times after being processed with CNC technic. It avoids deformation when thick tissue is to be anastomosed. Meanwhile, the strength of internal transmission mechanical structure is also enhanced to make the occlusion power up to 20N.



Rotation head assembly

The rotation head can be easily operated with fingers, and the jaws can rotate 360 degree freely.



Disposable Endo Cutter Stapler and Cartridge-QIAN type

● APPLICATIONS

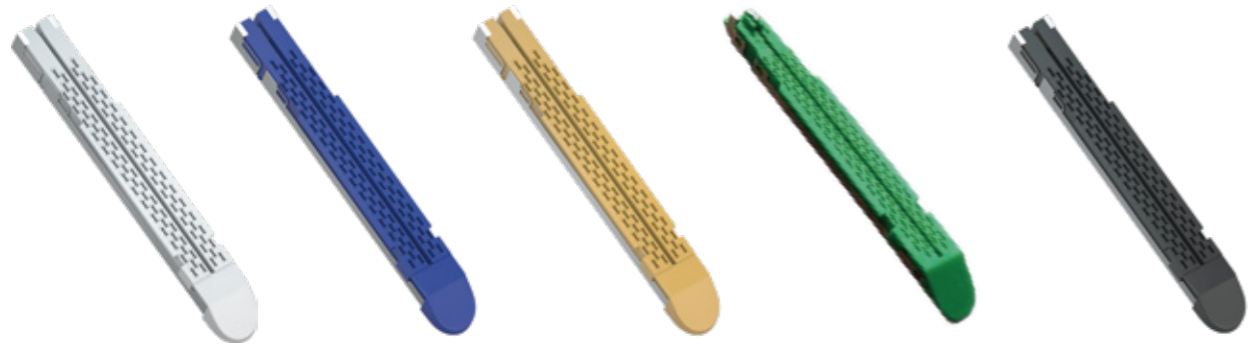
Be applicable for resection, transection and anastomosis in open surgery or laparoscopic surgery.
It's usually used in general surgery, thoracic surgery, urology surgery, gynecology and other surgeries.

● STAPLER

Model	Length of stapler(mm)
AKYWQD/45	530
AKYWQD/60	545



● RELOAD



Model	NO. of staples	Suture length (mm)	Staple Height Before Forming (mm)	Closed Height	Color of Cartridge
AKYQDD-45/2.5	70	45	2.5	1.0	White
AKYQDD-45/3.5			3.5	1.5	Blue
AKYQDD-45/3.8			3.8	1.8	Golden
AKYQDD-45/4.1			4.1	2.0	Green
AKYQDD-45/4.3			4.3	2.2	Black
AKYQDD-60/2.5	88	60	2.5	1.0	White
AKYQDD-60/3.5			3.5	1.5	Blue
AKYQDD-60/3.8			3.8	1.8	Golden
AKYQDD-60/4.1			4.1	2.0	Green
AKYQDD-60/4.3			4.3	2.2	Black

● CHARACTERS



Atraumatic grip

Reduces horizontal and vertical oscillations when staples are raised. It maintains the stability of stitching in the process of anastomosis and ensures the stitching accurately entering the groove.



Intelligent waterdrop shaped anvil groove

To ensure the B-shape formation when staple legs were raised for a better anastomosis and hemostatic effect.



High strength anvil

Integrated anvil with CNC technic has higher strength, which avoids deformation. The stapler provides the occlusion power up to 50N, which has special advantage in stapling thick tissue for better staple formation.



Roller steering system

Larger articulating angle of 45°, adaptive stepless angle adjustment.



Easy one-handed operation

Easy and convenient to open and close the jaw by one-handed operation, which allows the surgeon to focus on the transection position and accurately place the anvil in the desired location.



360° revolutions

The rotation head can be easily operated with fingers, and the jaw can rotate 360 degrees freely.

Disposable Prolapse Hemorrhoids Stapler and Accessories (PPH)

● APPLICATIONS

Be applicable for Grade 2~4 internal hemorrhoids and mixed hemorrhoids dominated by internal hemorrhoids, especially circular hemorrhoids and mild rectal mucosal prolapse.



● CHARACTERS

- Marking indicates the distance of anastomotic stoma from the anal verge and show correct depth of insertion.
- Minimum gap between anvil and cartridge to avoid the damage to tissue caused by over pressure.
- Larger volume of cartridge to contain more tissue.
- Allows user to precisely adjust the staple formation height according to the thickness of tissue, to control the amount of compression applied to tissue.
- Integral shaping anvil to ensure the shape of staples.
- Double staggered row of staples, for secure staple line formation.
- Reasonable number of staples conduce to provide better hemostasis while maintaining compression.
- High quality gasket provides obvious audible and tactile feedback.

● TECHNOLOGICAL PARAMETERS

Model	External Diam.(mm)	Internal Diam.(mm)	No. of Staples	Height of Staples (mm)
AKYGCA-32	32	24	32	4.1
AKYGCA-33	33	24	32	4.1
AKYGCA-34	34	26	34	4.1
AKYGCB-32	32	24	32	4.1
AKYGCB-33	33	24	32	4.1
AKYGCB-34	34	26	34	4.1



Disposable Prolapse Hemorrhoids Stapler and Accessories (TST)

● APPLICATIONS

Be applicable for Grade 3 and Grade 4 internal hemorrhoids dominated by non annular prolapse, partial or total excision of mucosa on mixed hemorrhoids, rectal mucosal prolapse, outlet obstruction constipation and other diseases.



Anal dilator obturator Anorectal transfixation tool Anorectal introducer Suture threader Suture threader



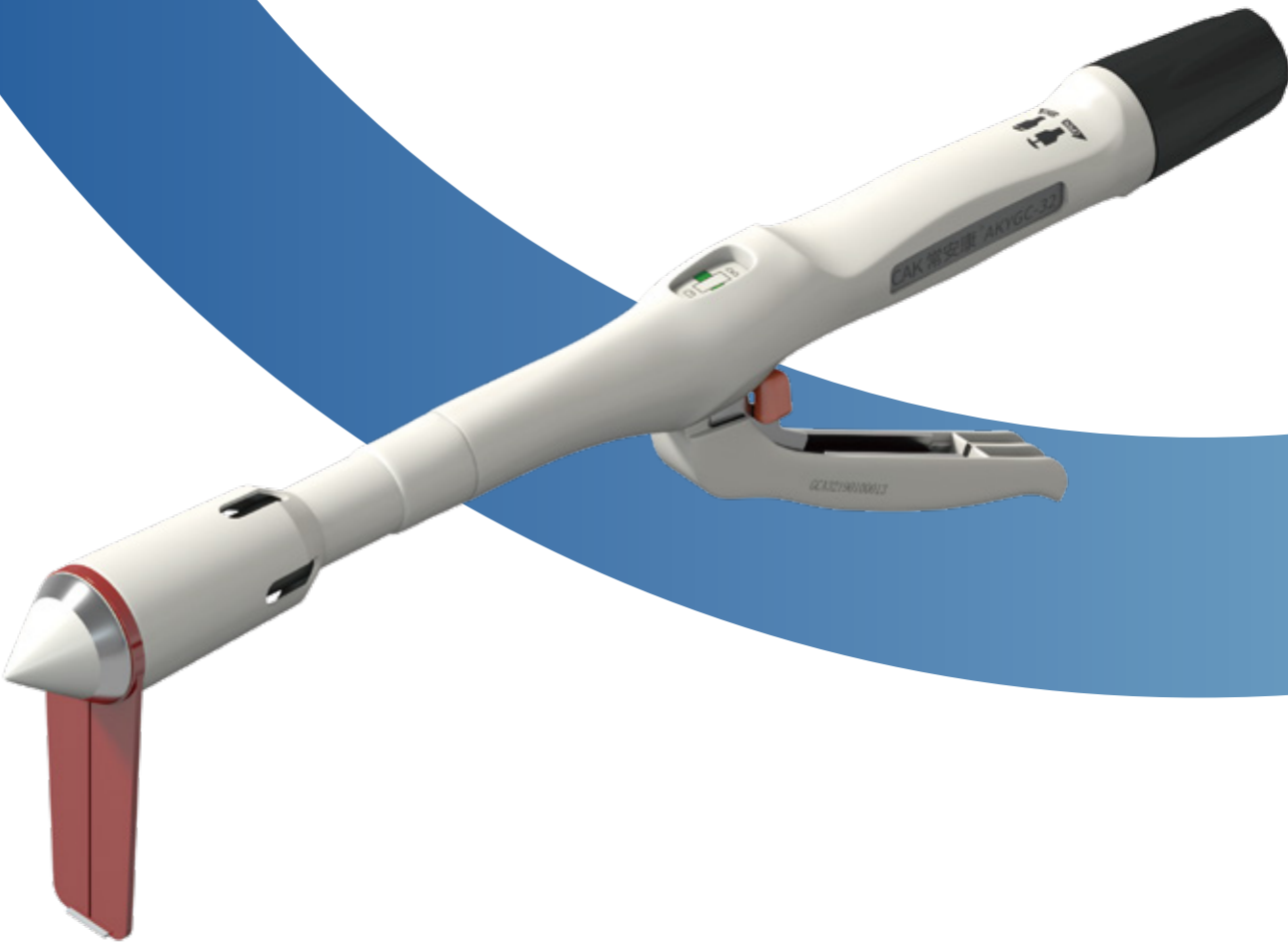
single-window anoscope double-window anoscope triple-window anoscope Anal dilator obturator

● CHARACTERS

- Using special anoscope to present different surgery windows, which only makes the mucosa in the hemorrhoid area exposed.
- It can retain the normal anal cushion and mucosal bridge, maximally maintain the fine sense and contraction function of the anus, and effectively prevent postoperative anastomotic stricture and reduce the incidence of anal incontinence.
- All the accessories required for PPH and TST surgery are included to facilitate the selection of an appropriate surgical method during surgery.

● TECHNOLOGICAL PARAMETERS

Model	External Diam.(mm)	Internal Diam.(mm)	No. of Staples	Height of Staples (mm)
AKYGCA-32	32	24	32	4.1
AKYGCA-33	33	24	32	4.1
AKYGCA-34	34	26	34	4.1
AKYGCB-32	32	24	32	4.1
AKYGCB-33	33	24	32	4.1
AKYGCB-34	34	26	34	4.1



Disposable Circular Stapler

● APPLICATIONS

Be applicable for gastric, intestinal and organ reconstruction of digestive tract, such as creation of anastomosis or incision closure in the resection surgeries.



● CHARACTERS

- Minimum gap between anvil and cartridge to avoid the damage to tissue caused by over pressure.
- Allows user to precisely adjust the staple formation height according to the thickness of tissue, to control the amount of compression applied to tissue.
- Reasonable number of staples conduce to reduce the postoperative bleeding.
- Large diameter ratio avoids anastomotic stenosis effectively.
- Integral shaping anvil provides strong support to ensure the “B” shape formation.
- High quality gasket provides good audible and tactile responses while firing, indicating when to remove the stapler.

● TECHNOLOGICAL PARAMETERS

Model	External Diam. (mm)	Blade Diam. (mm)	Color of Cartridge	No. of Staples	Staple Height Before Forming (mm)
AKYGXA-21	21	13	Dark blue	18	4.5
AKYGXA-23	23	15	Black	18	4.5
AKYGXA-26	26	16	Blue	20	4.5
AKYGXA-29	29	19	Green	24	5.0
AKYGXA-31	31	22	White	30	5.0
AKYGXA-33	33	24	Gray	32	5.0

Disposable Linear Cutter Stapler and Cartridge

● APPLICATIONS

Be applicable for reconstruction of digestive tract such as stomach, intestine, and creation of anastomosis or incision closure of other organs.



● CHARACTERS

- Integral shaping anvil to ensure the shape of staples.
- Large jaw opening facilitates adjusting position.
- Tissue retaining pin prevents tissue slippage from the distal end, to ensure even force placed on the tissue, effective cutting and stapling length.
- Parallel closure to provide even compression on tissue, and uniform closed stapler height to have effective stapling & hemostasis.
- Clear graduations and indication of "cutting zone" on both sides of staple housing.
- Unique firing "safety lock" to prevent inadvertent pre-firing during preparation and positioning.
- Quick release button for easy unclamping and removal of forks.

● TECHNOLOGICAL PARAMETERS

Model	Cutting Length (mm)	Suture Length (mm)	Suture Thickness (mm)	No. of Staples	Height of Staples (mm)	Color of Cartridges
AKYQGB-55L/H	51	55	1.5/2.0	56	3.8/4.5	Blue/Green
AKYQGB-60L/H	56	60	1.5/2.0	60	3.8/4.5	Blue/Green
AKYQGB-75L/H	71	75	1.5/2.0	76	3.8/4.5	Blue/Green
AKYQGB-80L/H	76	80	1.5/2.0	80	3.8/4.5	Blue/Green
AKYQGB-100L/H	96	100	1.5/2.0	100	3.8/4.5	Blue/Green

Cartridge					
Model	AKYQGBD-55L/H	AKYQGBD-60L/H	AKYQGBD-75L/H	AKYQGBD-80L/H	AKYQGBD-100L/H

● CHARACTERS

- Integral shaping anvil to ensure the shape of staples.
- Large jaw opening facilitates adjusting position.
- Tissue retaining pin prevents tissue slippage from the distal end, to ensure even force placed on the tissue, effective cutting and stapling length.
- Parallel closure to provide even compression on tissue, and uniform closed stapler height to have effective stapling & hemostasis.
- Clear graduations and indication of “cutting zone” on both sides of staple housing.
- Unique firing “safety lock” to prevent inadvertent pre-firing during preparation and positioning.
- Special firing button, conduces to operate by left or right hand.

● TECHNOLOGICAL PARAMETERS

Model	Cutting Length (mm)	Suture Length (mm)	Suture Thickness (mm)	No. of Staples	Height of Staples(mm)	Color of Cartridges
AKYQGA-55L/H	55	57	1.5/2.0	56	3.8/4.5	Blue/Green
AKYQGA-60L/H	62	64	1.5/2.0	64	3.8/4.5	Blue/Green
AKYQGA-75L/H	75	77	1.5/2.0	76	3.8/4.5	Blue/Green
AKYQGA-80L/H	82	84	1.5/2.0	84	3.8/4.5	Blue/Green
AKYQGA-100L/H	102	104	1.5/2.0	104	3.8/4.5	Blue/Green

Cartridge

Model	AKYQGAD-55L/H	AKYQGAD-60L/H	AKYQGAD-75L/H	AKYQGAD-80L/H	AKYQGAD-100L/H
-------	---------------	---------------	---------------	---------------	----------------

Disposable Linear Stapler and Cartridge

● APPLICATIONS

Be applicable to anastomosing the remaining end and closing the incision in surgical operations.



● CHARACTERS

- Integral shaping anvil to ensure the shape of staples.
- Parallel jaw closure helps to compress tissue evenly within the jaws of the instrument for consistent staple formation.
- The thin and firm anvil is easy to pass through the narrow tissue gap.
- Tissue retaining pin allows reposition of the tissue to avoid slippage of clamped tissue and assist parallel closure, accurate fixation to ensure good staple formation.
- Safety design of cartridge to prevent fault operations.
- Provide obvious audible and tactile feedback during operation.

● TECHNOLOGICAL PARAMETERS

Model	Suture Length (mm)	Suture Thickness (mm)	No. of Staples (mm)	Height of Staples(mm)	Color of Cartridges
AKYZXB-45H/L	44	2.0/1.5	19	4.5/3.8	Green/Blue
AKYZXB-60H/L	60	2.0/1.5	25	4.5/3.8	Green/Blue
AKYZXB-90H/L	92	2.0/1.5	39	4.5/3.8	Green/Blue

Cartridge

Model	AKYZXBD-45H/L	AKYZXBD-60H/L	AKYZXBD-90H/L
-------	---------------	---------------	---------------

Disposable Curved Cutter Stapler and Cartridge

● APPLICATIONS

Be applicable for gastrointestinal surgical procedures for resection and stapling of tissue.



● CHARACTERS

- Integral shaping anvil to ensure the shape of staples.
- Four rows of staggered staples to make stable anastomosis and reduce anastomotic leakage effectively.
- Gripping surface makes less compressive force on tissue for less tissue trauma.
- Curved small head, in compliance with anthropotomy, is easy to enter deep pelvic with better operation vision.
- The intermediate lock design can adjust the tissue position, adjust the cutting and suture position, and lock the intestinal tract to be sutured before anastomosis.
- Retaining pin is used to close and lock target tissue, assist parallel closure, uniform formation of all staples to achieve great stapling and hemostasis and prevent tissue slippage.
- High quality gasket provides obvious audible and tactile feedback.

● TECHNOLOGICAL PARAMETERS

Model	No. of Staples	Suture Height(mm)	Suture Height after Forming(mm)
AKYHXB-45	46	4.8	2.0

Cartridge	
Model	AKYHxBD-45





Disposable Laparoscopic Trocar

● APPLICATIONS

Be applicable to establishing a channel between abdominal cavity and outside, getting the surgical device into abdominal cavity through trocar sleeve, and keeping the sealing performance for all kinds of endoscopic surgery requiring pneumoperitoneum.

● CHARACTERS

- Innovative converter-free design, to make sure surgical instruments with different diameters can be replaced easily.
- Good sealing performance avoids the risk of air leakage caused by the frequent change of instruments with different diameters.
- Special materials are used to ensure smooth passage, smooth access of surgical instruments.
- Integral sealing design requires less manpower during instruments insertion and extraction, easy for operation.
- Ergonomically designed thread on sleeve provides optimum resistance of trocar fixation on abdominal wall, preventing the sleeve from sliding when changing instrument to increase the safety of the operation.
- Three types of trocar are available for choice:
 - (1) Bladeless trocar is with blunt design to reduce the sharp cutting of the tissue separation, more in line with the principle of minimally invasive, and increase the fixation of the sleeve when the tissue is retracted.
 - (2) Bladed trocar is sharper, with a safety design to ensure efficient puncture and prevent puncturing other abdominal organs in the cavity.
 - (3) Optical trocar allows the tissue to be clearly identified during insertion for a safe access to the abdominal cavity.

● TECHNOLOGICAL PARAMETERS

Type	Model	Sleeve Internal Diam(mm)	Sleeve Length(mm)
Bladeless /Optical	AKYCCA-5	6	100
	AKYCCA-10	11	100
	AKYCCA-12	13	100
	AKYCCA-15	16	101
Bladed	AKYCCB-5	6	100
	AKYCCB-10	11	100
	AKYCCB-12	13	100

Disposable Wound Protector

● APPLICATIONS

Model A is applicable for abdominal and thoracic surgery, and small incision assisted endoscopic surgery.
Model B is applicable for thoracoscopic surgery, gynecologic non pneumoperitoneal suspension laparoscopic surgery and small incision surgery.

● CHARACTERS

- 360° wound protection and circumferential atraumatic retraction.
- Isolating incision site from abdominal viscera to reduce postoperative complication.
- Maximum expose incision to provide a clear operative field, protect incision from damage, reduce operation time, and improve quality of surgery.
- Maintain moisture at the wound margins.
- Two types of wound protectors (variable height and fixed height) available for a complete selection of sizes to meet various surgical requirements.
- High quality material, strong and reliable.



● TECHNOLOGICAL PARAMETERS

Model	Specification	Inner Diam. (mm)	Outer Diam. (mm)	Channel Diam. (mm)	Channel Length. (mm)
AKYQKA	60/70-60/150	70	60	60	150
	80/90-80/150	90	80	80	150
	120/130-120/250	130	120	120	250
	150/160-150/250	160	150	150	250
	180/190-180/250	190	180	180	250
	220/230-220/250	230	220	220	250
	270/280-270/250	280	270	270	250
	320/330-320/250	330	320	320	250
AKYQKB	40/30-15/20	30	40	15	20
	50/40-25/25	40	50	25	25
	70/70-35/40	70	70	35	40
	120/100-60/40	100	120	60	40



ENDO BAG



Disposable Endo Bag



● APPLICATIONS

Be applicable to taking specimens out of the body in minimally invasive surgery to prevent contamination to other tissues and organs.

● CHARACTERS

- Endo bag is designed in accordance to the minimally invasive theory, it's able to go through smaller trocar.
- Human engineering design makes a more comfortable hand-feel, controllability and stability.
- The elastic opening device is made of medical implant material-nickel titanium memory alloy. The strength and tensile strength have been strictly tested, which is safe and reliable.
- The film of the bag is made of medical implant material-TPU, which is soft and transparent, with good surgical vision. It has high resistance to internal burst pressure, preventing fluid and cell leakage.
- Different opening size and capacity are suitable for different specimens.

● STAPLER

Model	Independent Memory Wire Diam.(mm)	Length1 (mm)	Length2 (mm)	Volume(ml)
AKYQWA-60	60	/	/	75
AKYQWB-80	/	92	82	200
AKYQWB-100	/	113	99	350
AKYQWB-130	/	120	110	700



Disposable Skin Stapler

● APPLICATIONS

Be applicable to closing long skin wounds in general surgery, orthopedics, gynecology, burn and other departments.

● CHARACTERS

- Simple operation and fast suture.
- Reduce the surgery risk and improve the turnover rate of the operating room.
- Perfect looking on incision after healing.
- Staple has good biocompatibility.
- It does not form adhesions with blood stasis, and it's less painful to change drugs and disassemble nails.
- A see-through window for better visibility, easy to know the number of the remaining staples.

● TECHNOLOGICAL PARAMETERS

Model	Width of Staples (mm)	No. of Staples	Height of Staples (mm)	Width of Staples (mm)
AKYPF-35A	7.3	35	4.3	0.6
AKYPF-35B	6.2	35	3.8	0.5

Staple Remover	
Model	CAKCDQ-118



Disposable Purse String Stapler

● APPLICATIONS

Be applicable for purse-string closures in intestinal, colorectal, esophageal and gastric surgery.



● CHARACTERS

- Pre-loaded with purse wire and staples, no need threading.
- Just clamp and purse string formation is made automatically.
- Easy to operate, fast and convenient, shorten operation time.
- Hug staple to maintain total tissue layer capture, ensuring a secure purse string.
- Tissue limiting lever to prevent tissue move out of the jaws.
- Different suture lengths are available to meet clinical requirements.

● TECHNOLOGICAL PARAMETERS

Model	No. of Staples	Suture Length(mm)	Suture Materials
AKYHB-45	18	590	Nylon
AKYHB-65	28	700	Nylon

Disposable Circumcision Stapler

● TECHNOLOGICAL PARAMETERS

● APPLICATIONS

Be applicable to cutting the foreskin and closing the wound for simultaneous hemostasis.

● CHARACTERS

- Optimize staple density and anastomosis.
 - Short operation time and less pain.
 - Segmented silicone pad can prevent the rubber ring from getting stuck and assist in automatic staple removal after operation.
 - Humanized design of glans penis cover protects the prepuce bridle effectively and prevents excessive excision of the prepuce bridle.
 - Accurate control of the scope of excision, regular cutting edge, better appearance after healing.
 - Orange safety block makes it safer, prevent mistaken firing, more convenient operation.
 - No need to stay in bed after operation.
- The nursing is simple with fast recovery.



Model	Blade diam (mm)	Staple Height (mm)	Model	Blade diam. (mm)	Staple Height (mm)
AKYBWA-11L	11	3.0	AKYBWA-22L	21.6	3.0
AKYBWA-13L	12.8	3.0	AKYBWA-25L	25	3.0
AKYBWA-15L	14.6	3.0	AKYBWA-29L	28.5	3.0
AKYBWA-17L	16.7	3.0	AKYBWA-32L	32	3.0
AKYBWA-19L	18.3	3.0	AKYBWA-34L	34	3.0

Model	Blade diam (mm)	Staple Height (mm)	Model	Blade diam. (mm)	Staple Height (mm)
AKYBWB-11L	11	3.0	AKYBWB-22L	21.6	3.0
AKYBWB-13L	12.8	3.0	AKYBWB-25L	25	3.0
AKYBWB-15L	14.6	3.0	AKYBWB-29L	28.5	3.0
AKYBWB-17L	16.7	3.0	AKYBWB-32L	32	3.0
AKYBWB-19L	18.3	3.0	AKYBWB-34L	34	3.0