



HTKD Medical

SOFT TISSUE RETRACTOR

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Hands on



Introduction

1. “Revolution” of the incision retractor
2. Soft tissue retractor can be mainly used in the operation of endoscope or incision surgery
3. 360° protection, atraumatic retraction, allows visualization of incision margins and maintains moisture at the incision site, contribute to wound healing
4. It can protect the operating incision, expose the vision of the operation and protect the incision tissue from hurt, reduces the risk of incision infection.
5. It allows hands-free access to the operative site, maximizes surgical assistance and facilitates specimen removal
5. It can conveniently be placed, aligned and removed
6. It has good security and reliability.



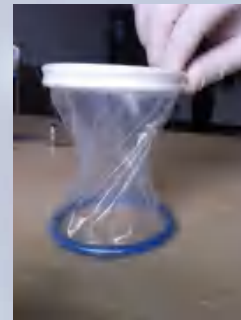
Type & Structure

Type

1. fixed height retractor



2. changeable height retractor



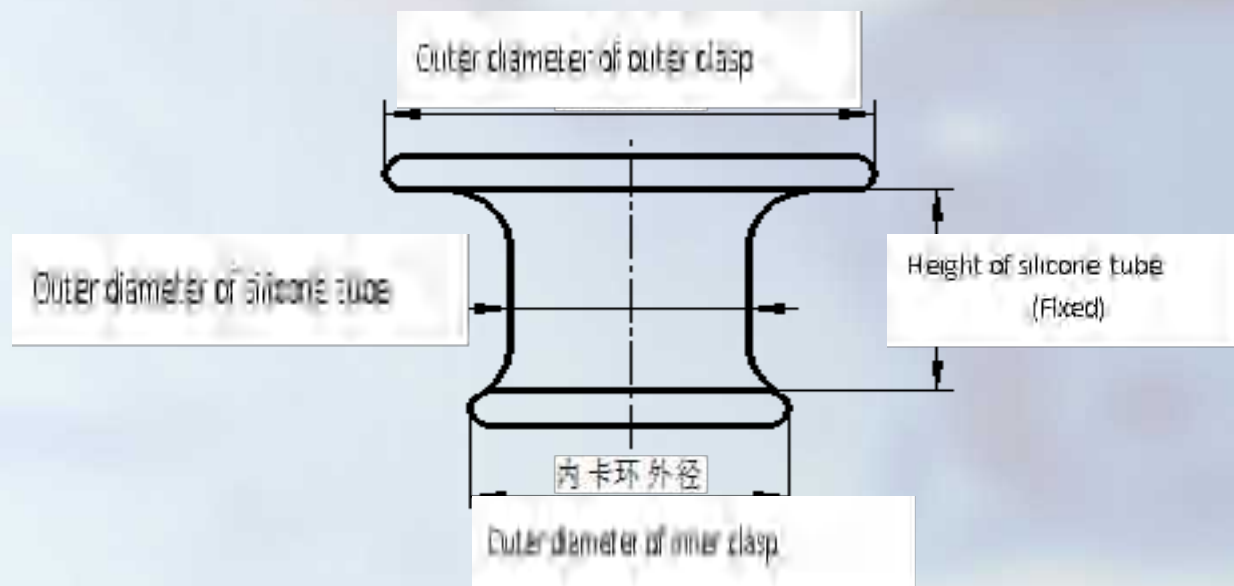
Structure

Both retractors consist of clasp and jacket tube



Structure

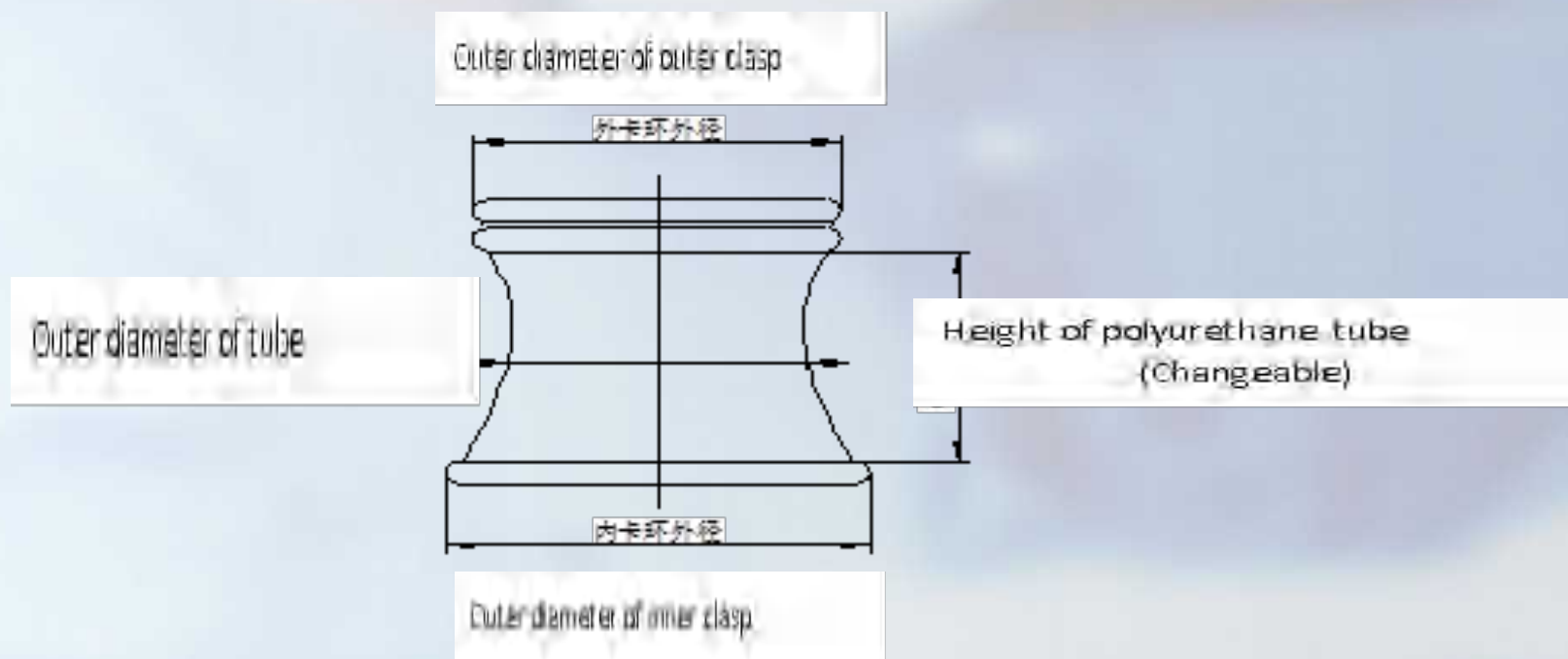
The fixed height retractor consists





Structure

The changeable height retractor consists



Specification

Classify	Specification	Incision(cm)	Using Dep.
Fixed Height	HK-40/30-15/20 (D)	1-1.5cm	Thoracoscope, Suspended Laparoscopic
	HK-50/40-15/20(D)	1-1.5cm	
	HK-50/40-25/25(D)	1.5-2.5cm	
	HK-60/50-25/25(D)	1.5-3cm	
	HK-70/70-35/25(D)	2-4.5cm	
	HK-70/70-35/40(D)	2-4.5cm	Backside of Thoracoscope
	HK-60/50-25/5(D)	1.5-3cm	General Thyroid
	HK-70/60-35/5(D)	2-4.5cm	Thyroid & Breast surgery
	HK-100/50-35/5(D)	2-4.5cm	Breast & Mammary areola edge
	HK-150/70-60/5(D)	4-7.5cm	Breast & Underarm cleaning
	HK-120/100-60/25(D)	5.5-8cm	Minimal Invasive Cardio Surgery
	HK-120/120-60/25(D)	5.5-9cm	
	HK-70/70-35/40(D)	2-4.5cm	
	HK-120/120-60/40(D)	4-7.5cm	Minimal Invasive Cardio Surgery (Suggest for thick chest wall)
	HK-120/100-60/70(D)	4-7.5cm	
	HK-120/100-60/40(D)	4-7.5cm	
HK-120/100-60/40(D)	4-7.5cm		



Specification

Classify	Specification	Incision(cm)	Using Dep.
Change able Height	HK-60/70-60/100(B)-	1-3.5cm	Thoracoscope & Pediatric Surgery
	HK-60/70-60/100(B)	2-4.5cm	Appendicitis & Gas laparoscope
	HK-80/90-80/100(B)	3.5-5.5cm	
	HK-120/130-120/100(B)	4-6.5cm	Laparoscope, Abdominal surgery
	HK-150/160-150/100(B)	5-7.5cm	
	HK-170/180-170/100(B)	7-14cm	Open surgery (stomach & intestine, liver & gall, thoracic, gynaecology)
	HK-200/210-200/100(B)	8-15cm	
	HK-280/290-280/100(B)	11-25cm	
	HK-300/310-300/100(B)	14-25cm	
	HK-250/260-250/100(B)	9-17cm	Cesarean Section



Function & Benefit

Function

The tension of the materials can be used to open the incision & better operation vision can be obtained. (Retraction)

Benefit

1. Enhances working space, improves visibility and exposure
2. Distributes force evenly, potentially minimizing tissue trauma & pain
3. Reduces the need for hand-held retractors, maximizing enhances surgical efficiency



Function

Function

The Soft tissue retractor is closely combined with incision
(Protection)

Benefit

1. Allows visualization and protects wound margins tissue
2. Maintains moisture at the incision site and reduces tissue damages to the minimum
3. Significantly reduces the risk of incision infection
4. effectively prevent the contact between cut organs and abdomen cavity.
5. reduces risk of embolic fat particles in the instruments, sutures and knot pushers



Function

Function

latex-free silicone rubber & polyurethane

Offers ultimate versatility goods

Benefit

1. Very simple, convenience, practicality
facilitates faster and effortless placement
2. height flexibility and changeably,
accommodates a wide range of patients
3. Disposable, ready to use, safe



Advantage——360° protection

1. Prevent Class II、III incidence rate of incision infection

The incision infections occur in approximately 2-5% (U.S.A), including the consequences may increase mortality, serious deterioration, increasing the opportunity of re-hospitalization, prolonged hospitalization and increased hospitalization costs

2. Prevent incision of tumor implantation metastasis

Foreign literature report after conventional colorectal cancer resection, abdominal wall metastases occur in approximately 0.7%, another reports that the laparotomy incisions metastasis rate of 0.6% -1.6%

3. Prevent Secondary endometriosis after cesarean section

After cesarean section, abdominal wall incision endometriosis incidence of 0.03% to 0.47%

4. Prevent incision organizations is burned by misoperation



Advantage——**simple operation**

Thoracoscope Surgery field

1. By two or three instruments, and to operate together
2. Can be placed in the greater degree of curvature of the instrument
3. Organs can be pulled out to operate in vitro
4. Single-hole laparoscopic surgery can be carried out



Clinical Usage

1. Cardio & Thoracic Surgery

Thoracoscope Surgery, Minimally Invasive Cardio Surgery,
Assisted thoracic Minimally Invasive Surgery

2. General Surgery

Gastrointestinal surgery, hepatobiliary surgery, urology, breast surgery, thyroid surgery

3. Obstetrics and Gynecology

caesarean section, gynecological malignancies



Clinical Usage

Thoracoscope Surgery

1. Diagnostic surgical exploration

pleural nodules or tumor Biopsy or resection; the pleural effusion exploration, Clear; lymph nodes slipknot; lung lesion biopsy

2. Lung tumor resection

resection of solitary pulmonary nodules, pulmonary benign tumors, solitary pulmonary metastases resection

3. The resection of the esophagus pathological changes

esophageal smooth muscle tumor resection, myotomy for achalasia, esophageal diverticulum resection



Clinical Usage

Thoracoscope Surgery

4. Pericardium and heart surgery

Minimally invasive atrial septal defect occlusion, unexplained pericardial effusion pericardial biopsy and pericardial resection

5. Traumatic hemothorax intrathoracic hemorrhage and clot removal and hemostasis;

6. Thoracic sympathetic chain resection for palmar hyperhidrosis

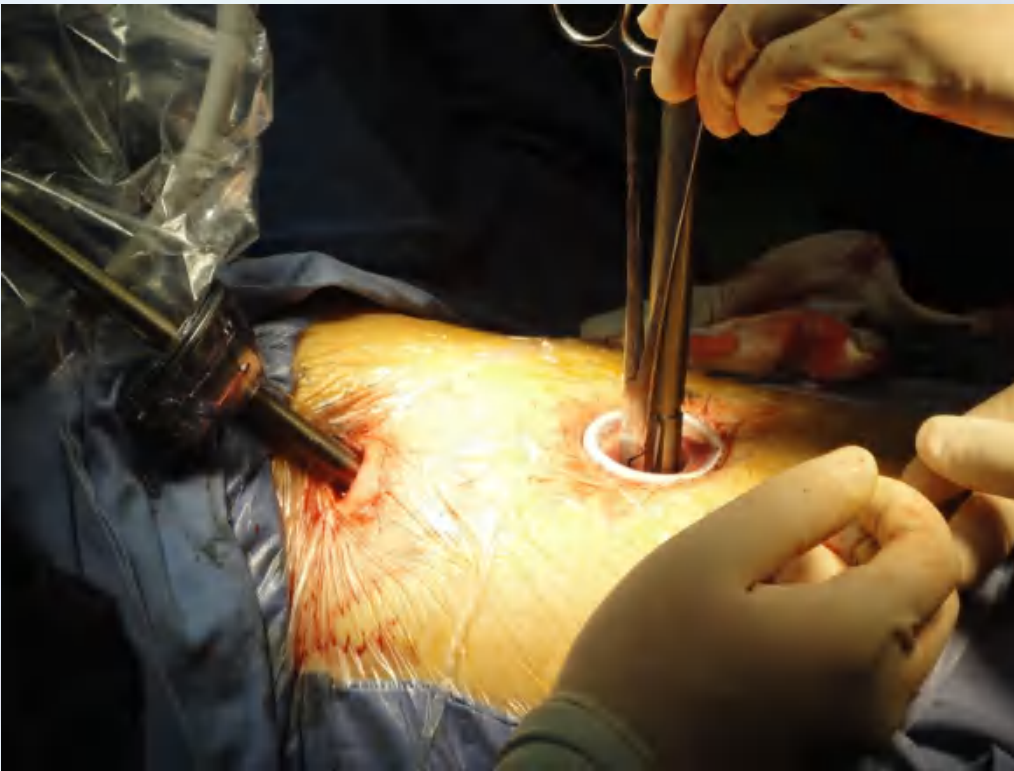
7. Minimally invasive pectus excavatum correction surgery

Thoracoscope

Multi-instrument operates
in the mean time



HK70/70-35/25(D)



HK50/40-25/25 (D)



Thoracoscope

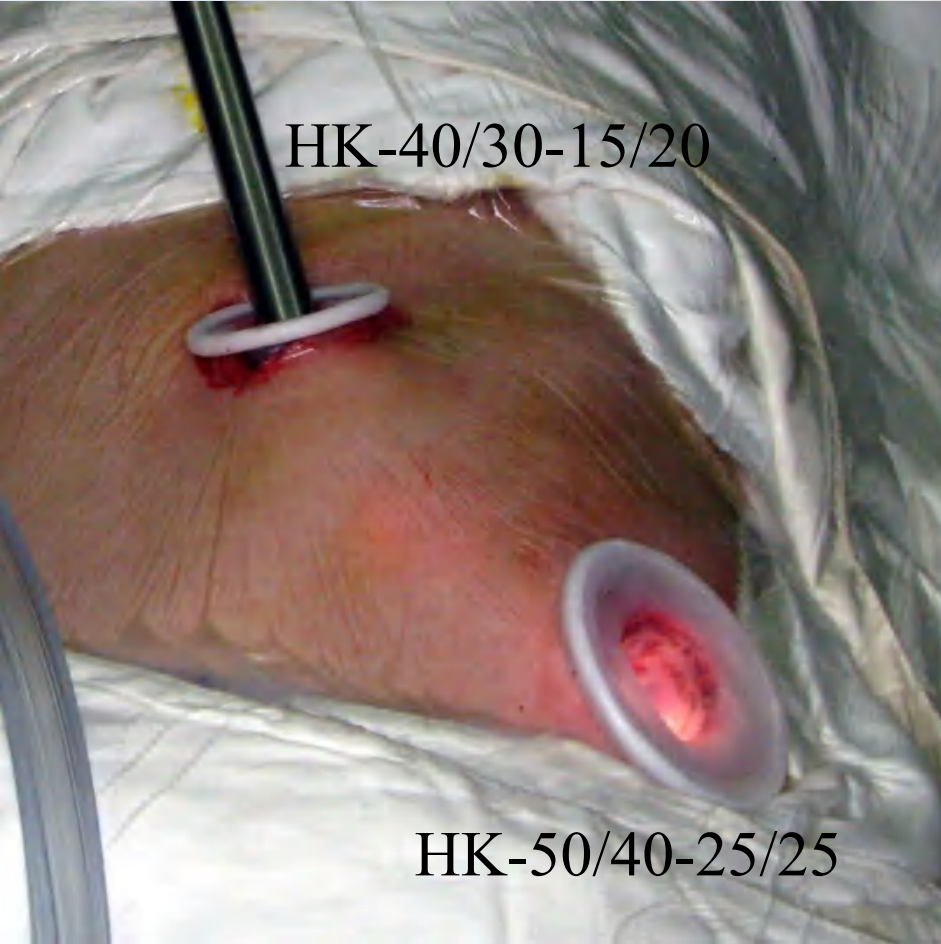
Multi-instrument
coordinates using

HK70/70-35/25 (D)
HK50/40-25/25(D)



HK40/30-15/20(D)
HK50/40-25/25(D)

Thoracoscope



Gauze easy gets in & out

Thoracoscope

Maximum exposure with
Minimum incision size



HK60/70-60/100 (B) -



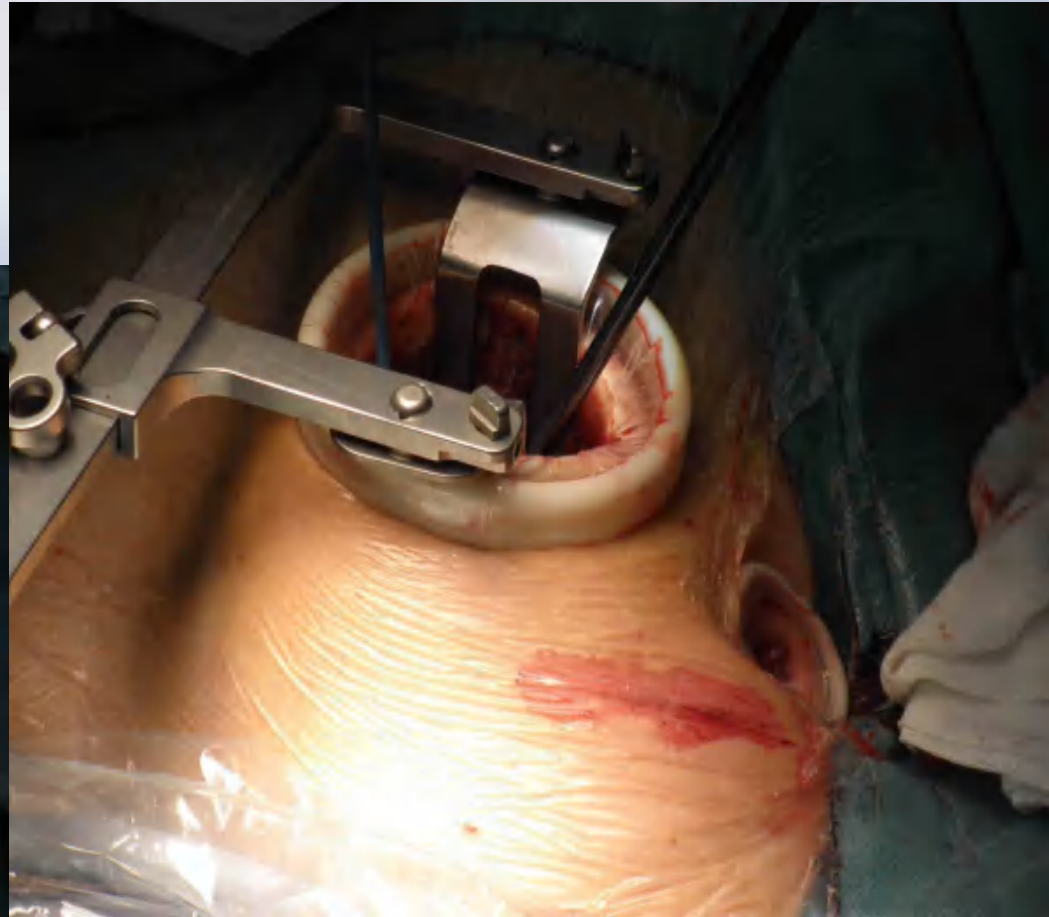
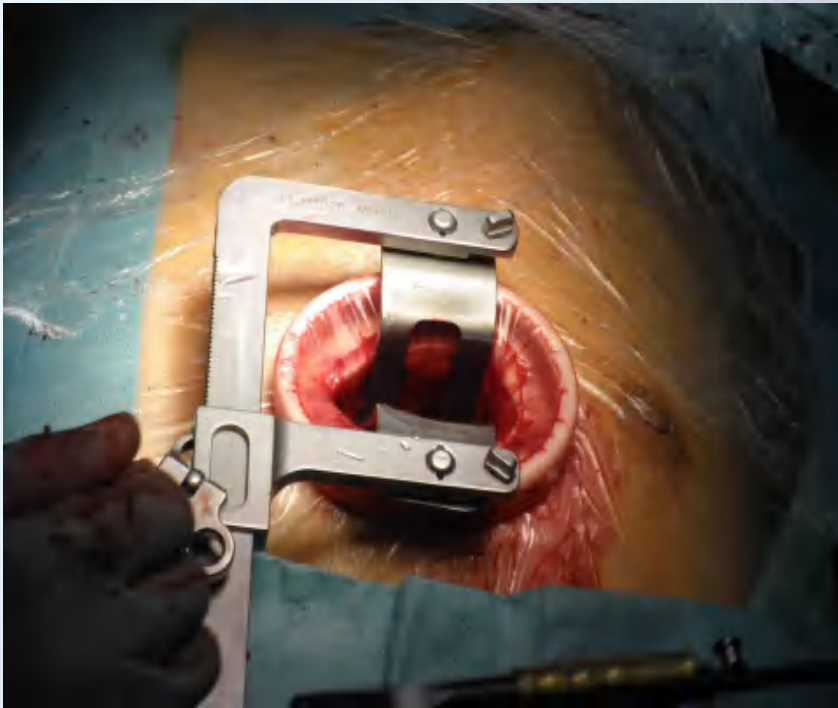
Clinical Usage

Minimally Invasive Cardio Surgery

1. Assisted thoracic small incision surgery
2. Pediatric Congenital heart repair surgery
3. Minimally Invasive Cardio Surgery, valve replacement surgery
4. The small incision robot arm collaborative surgery
5. Other small incision surgery: Lung bullae repair

Minimally Invasive Cardio Surgery

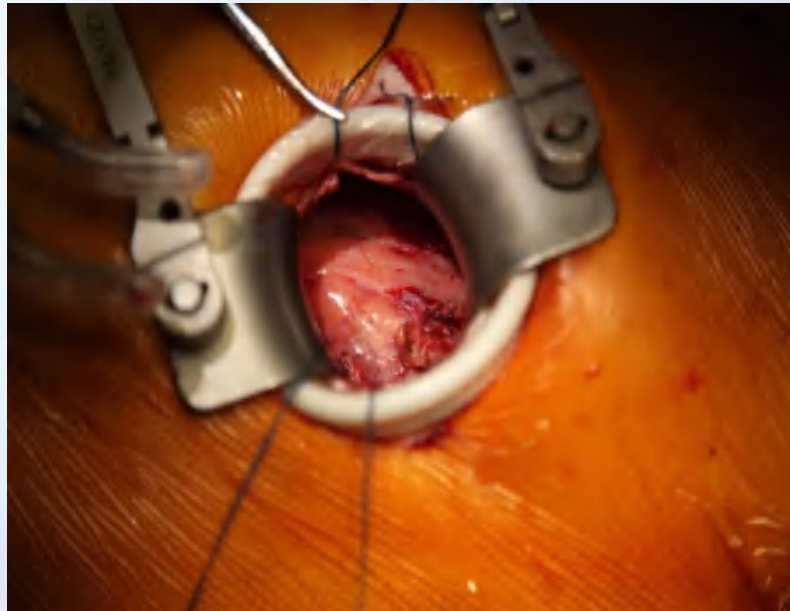
Atraumatic retraction
Tightness attach





Minimally Invasive Cardio Surgery

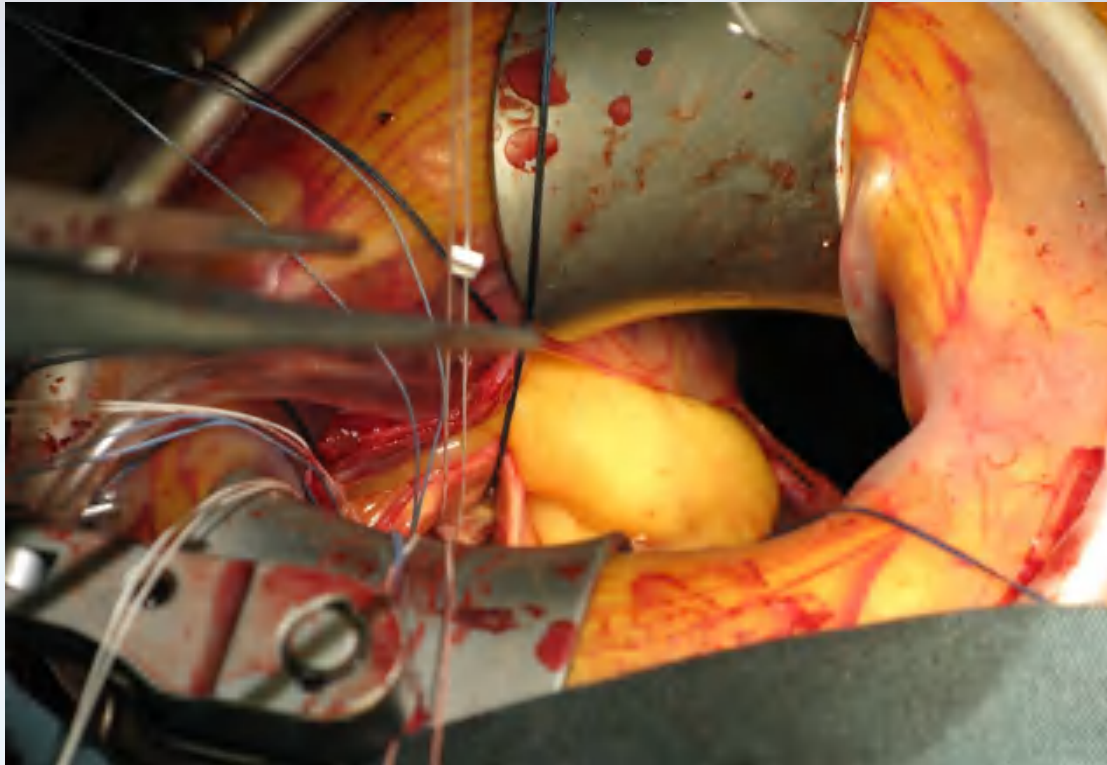
Simple operate
Superior exposure



HK-120/100-60/25(D)
HK-80/90-80/100 (B)



Minimally Invasive Cardio Surgery



Enrich sizes
Satisfy requirement

HK-120/100-60/25(D)

HK-80/90-80/100 (B)

