



*Company Profile and Product Line*

## Company Profile

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- ✓ **Sunmedix Co., Ltd.** was established in 2004, starting with E.O sterilization business.
- ✓ Our HQ and factory are based in Republic of Korea.
- ✓ We've developed and manufactured medical devices, thereby supporting medical industry globally since 2005.
- ✓ Our team is expert with a wide range of the knowledge and know-how from development stage to production, registration and marketing of medical products.
- ✓ We've been exporting our various products to more than 27 countries.



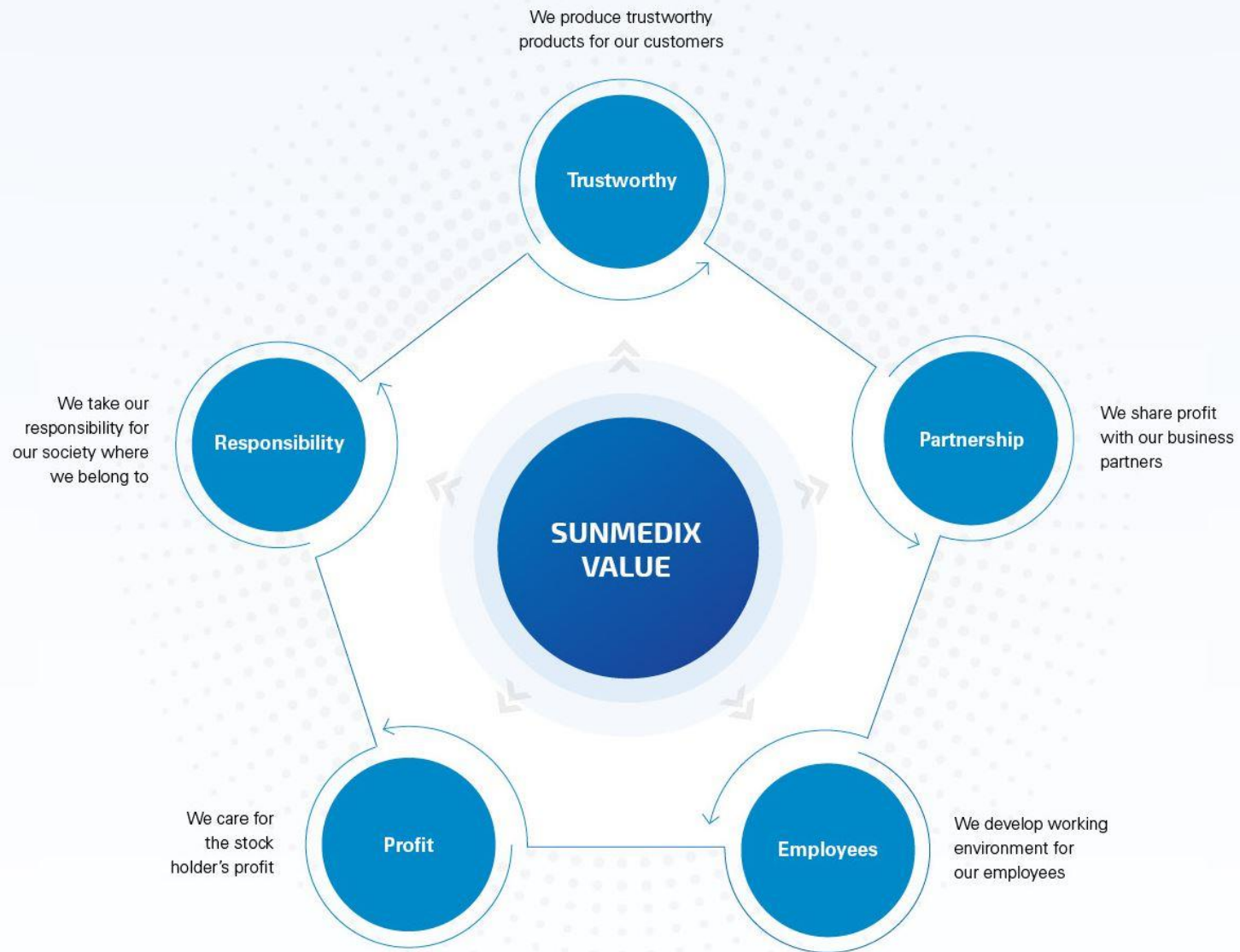
# Company History

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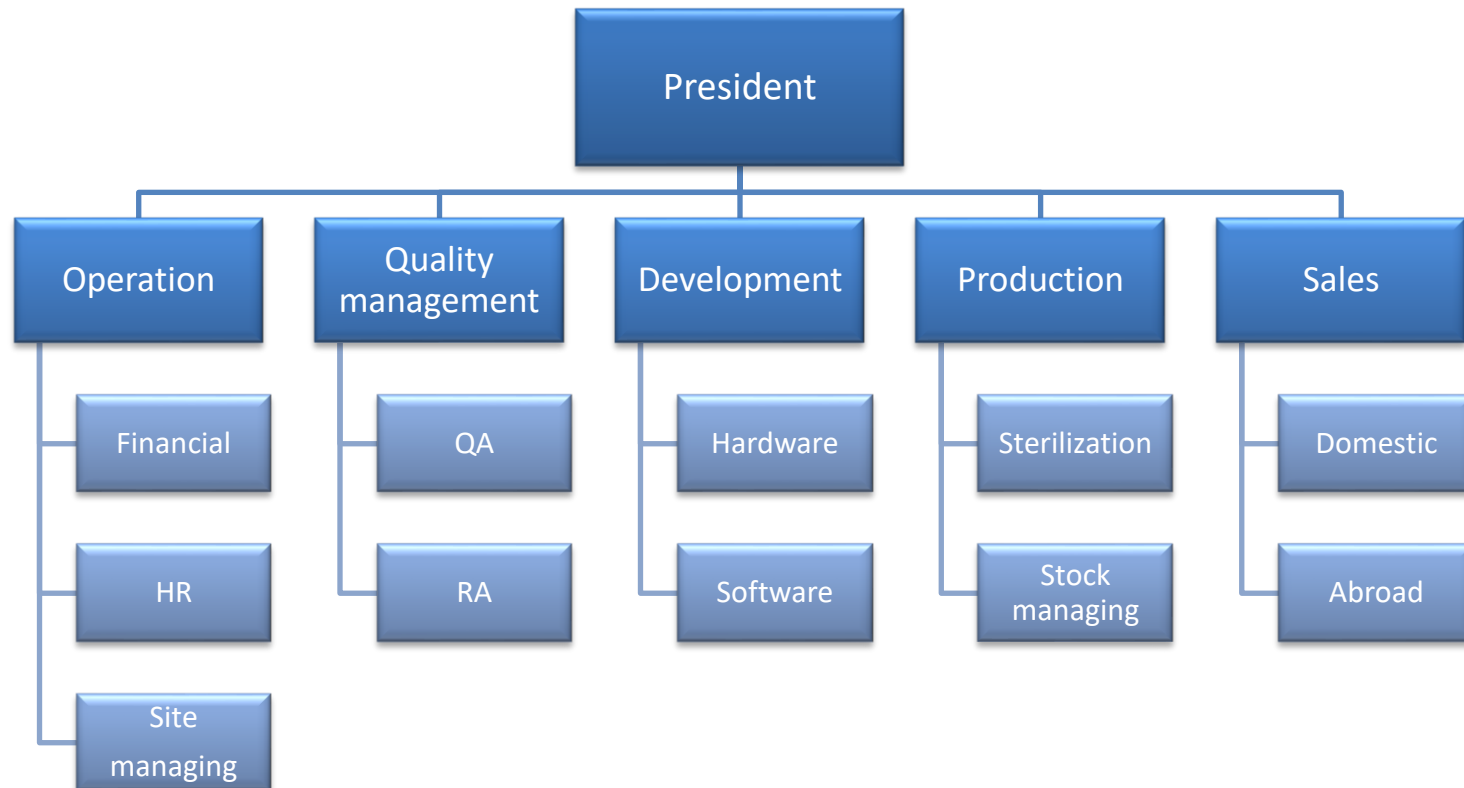
# Core Value

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## Organizational Chart

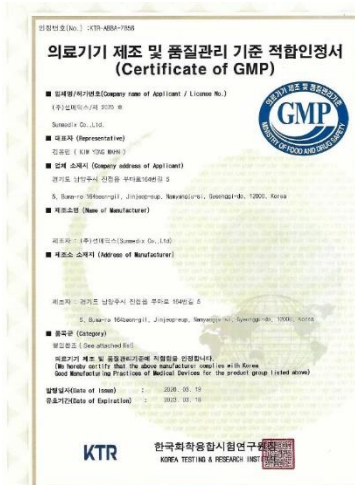
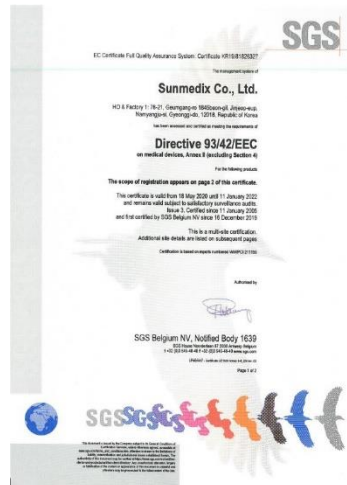
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# Certificates & Patents

Based on leading technologies, we continuously work on enhancing our company's value by acquiring different awards, international standards, certifications, patents, etc.

Division	Issuing Body
KGMP	KFDA
ISO 13485:2016	SGS & SZUTEST
CE	SGS & SZUTEST
Inno-Biz (Innovation-Business)	Small & Medium Business Administration
Venture Business	Korea Technology Guarantee Finance
Industrial R&D Center	Korea Industrial Technology Association
Promising Export Firm	Gyeonggi Export Center, SMBA
Promising Small & Medium-size Enterprise	Gyeonggi Provincial Government



# Product Line

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## Acos



*Skin stapler  
Skin staple remover*

## Volargrip



### *Laparoscopic Instruments*

*(Clinch, Scissors, Maryland, Grasper, Sealing & Dividing)*

## G-cos



## One-pouch



*Specimen Retrieval Bag*

## D-cos



*Portable DVT pump*



*Acos Skin Stapler and Remover*

# Acos Skin Stapler



Acos skin stapler series is CE certified single-use skin stapler evaluated less jamming, less empty shot with less power for operation.

It has application in abdominal, gynecological, orthopedic and thoracic surgery for skin closure.



## Specifications:

Ref No.	Model Name	Description	Qty/Carton	Remark
0402A35W	Acos 35W	Acos disposable skin stapler, 35 wide staples	100 ea	-
0402A25W	Acos 25W	Acos disposable skin stapler, 25 wide staples	100 ea	-
0402A35R	Acos 35R	Acos disposable skin stapler, 35 regular staples	100 ea	-
0402A25R	Acos 25R	Acos disposable skin stapler, 25 regular staples	100 ea	-

## Staple Size:

Type	Wide	Regular
Span (mm)	6.4	5.6
Height (mm)	4.0	3.8
Wire Diameter	0.57	0.57

# Acos Staple Remover



Acos stapler remover can be operated with less power.

The ergonomic design reduces the user's fatigue, and it can be applied to remove all size of skin staples.



*Remover  
(100% Stainless Steel)*



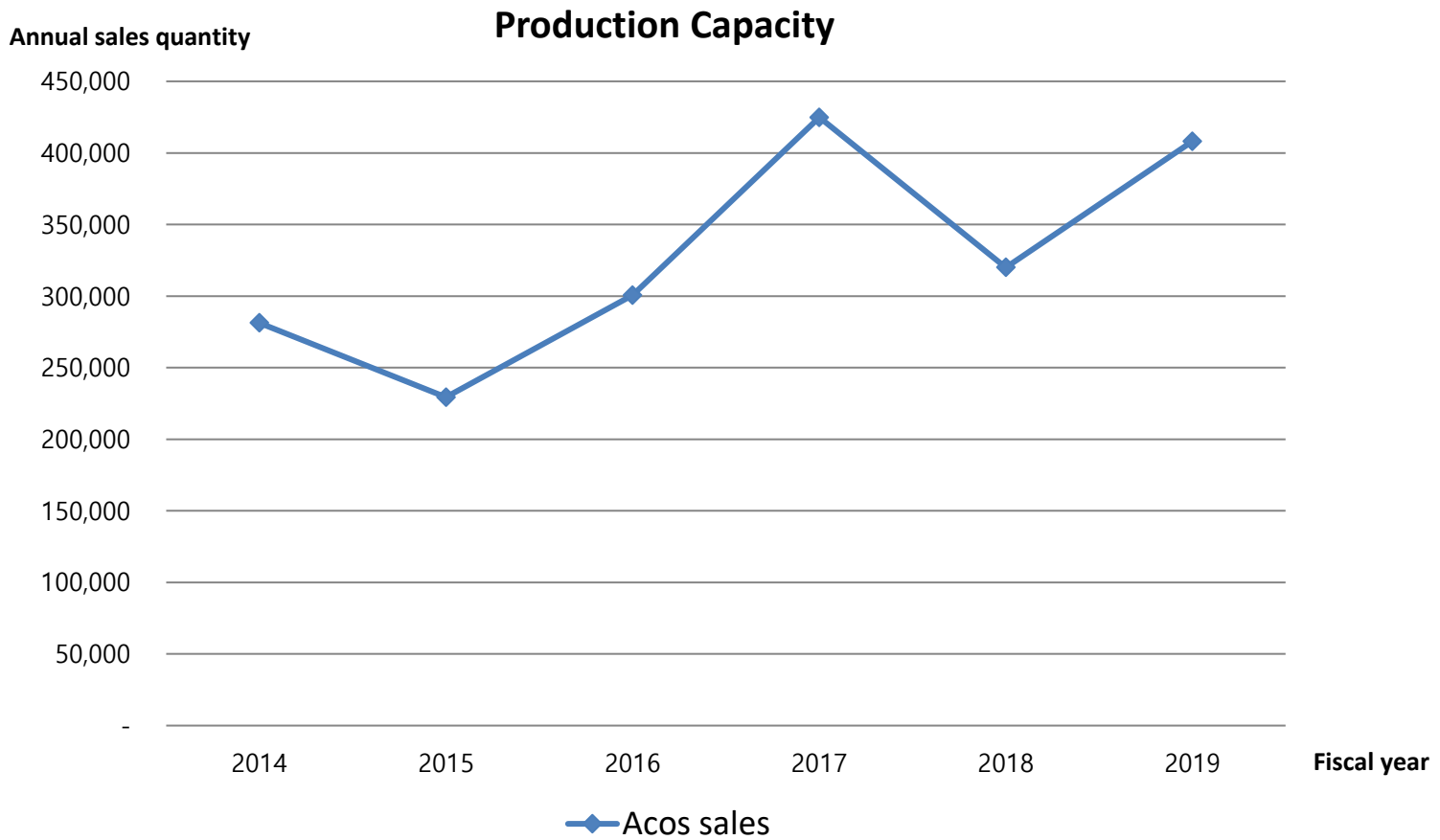
*Remover 2  
(Plastic handle)*

## Specifications:

Ref No.	Model Name	Description	Qty/Carton
0402ASR	Acos SR	Acos disposable staple remover	200 ea
0402ASR 2	Acos SR 2	Acos disposable staple remover	500 ea

# Our Growth

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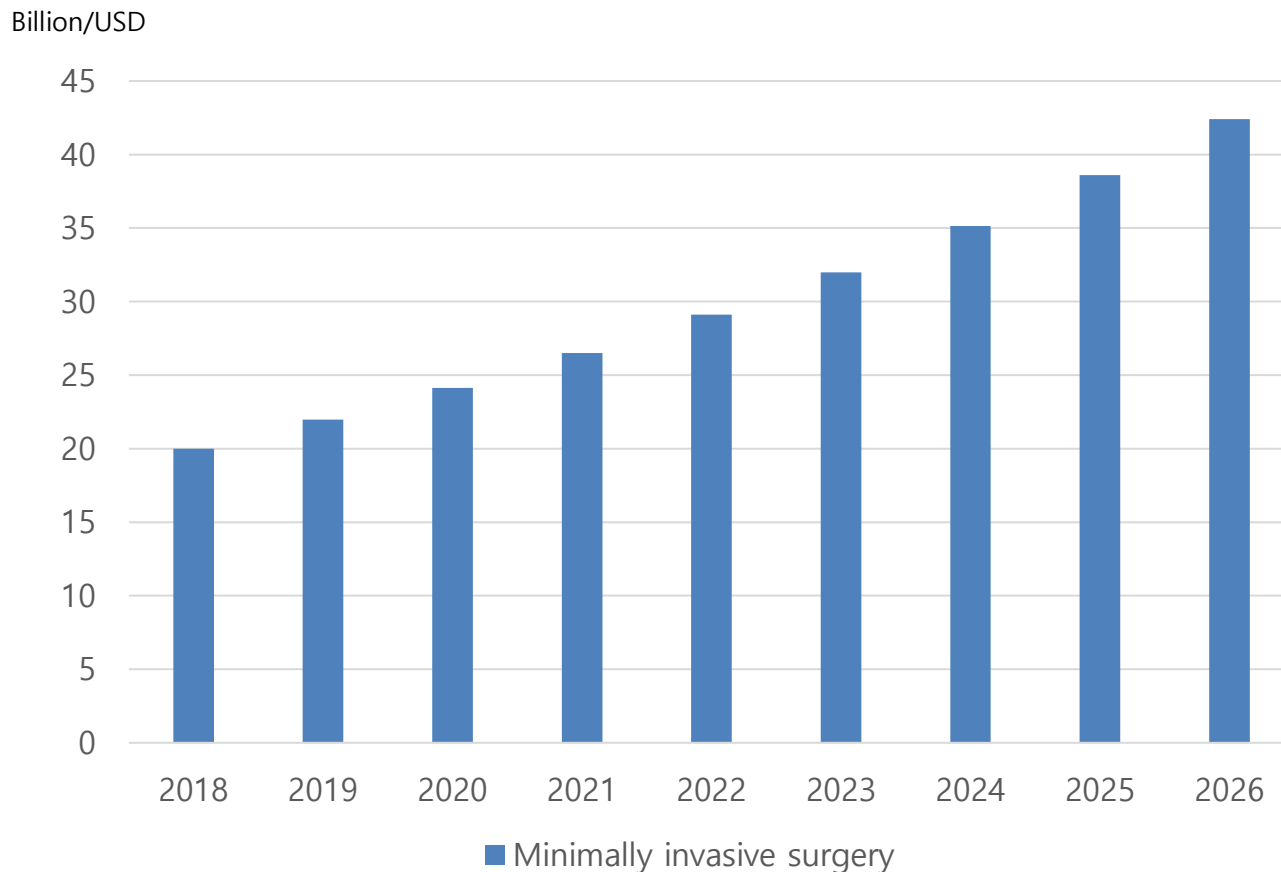


**Laparoscopic Instrument**  
**Volargrip & Gcos**

## ***Minimally invasive surgery market***

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The minimally invasive surgical instruments market size was valued at USD 20 billion in 2018 and is anticipated to grow at a CAGR of 9.85%.

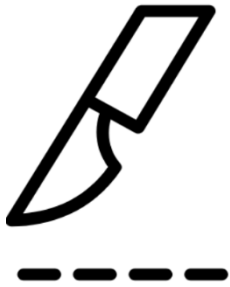


Source : MarketsandMarkets

## ***Benefits of minimally invasive surgery***

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Working this way has several advantages compared with traditional surgery. Because it involves less cutting:



Smaller scars  
Less internal scarring



Much less recovery time



Less blood loss  
Less pain



Volargrip is highly functional and user-friendly disposable instruments for laparoscopic surgery. Volargrip products range includes Clinch, Scissors, Maryland, Grasper.

VG30.701	VG30.702	VG30.703	VG30.704	VG30.705	VG30.706	VG30.707	VG30.708	VG30.709
VG30.801	VG30.802	VG30.803	VG30.804	VG30.901				

SUMMEDIX  
SUMMEDIX

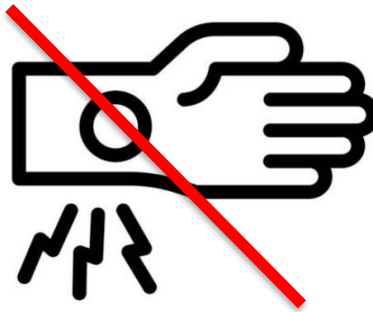
## Features

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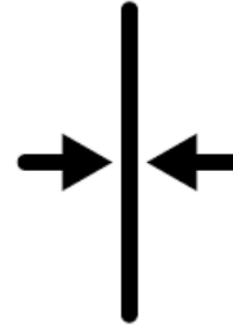
### Size-adjustable

The patented size-adjustable handle suits to different hands sizes



### Ergonomic handle

Ergonomic handle design reduces carpal tunnel pressure



### Slight shaft

Slight shaft makes smaller incision



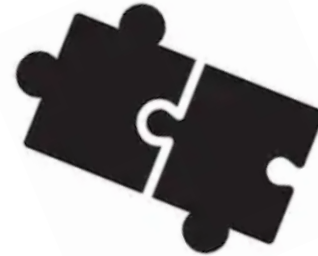
### 360degree rotation

Rotation is performed smoothly through a natural rotation of the wrist



### Reasonable price

Gcos offers incomparable quality at reasonable cost



### Compatibility

Volargrip electronic instruments are applicable for all kinds of generators

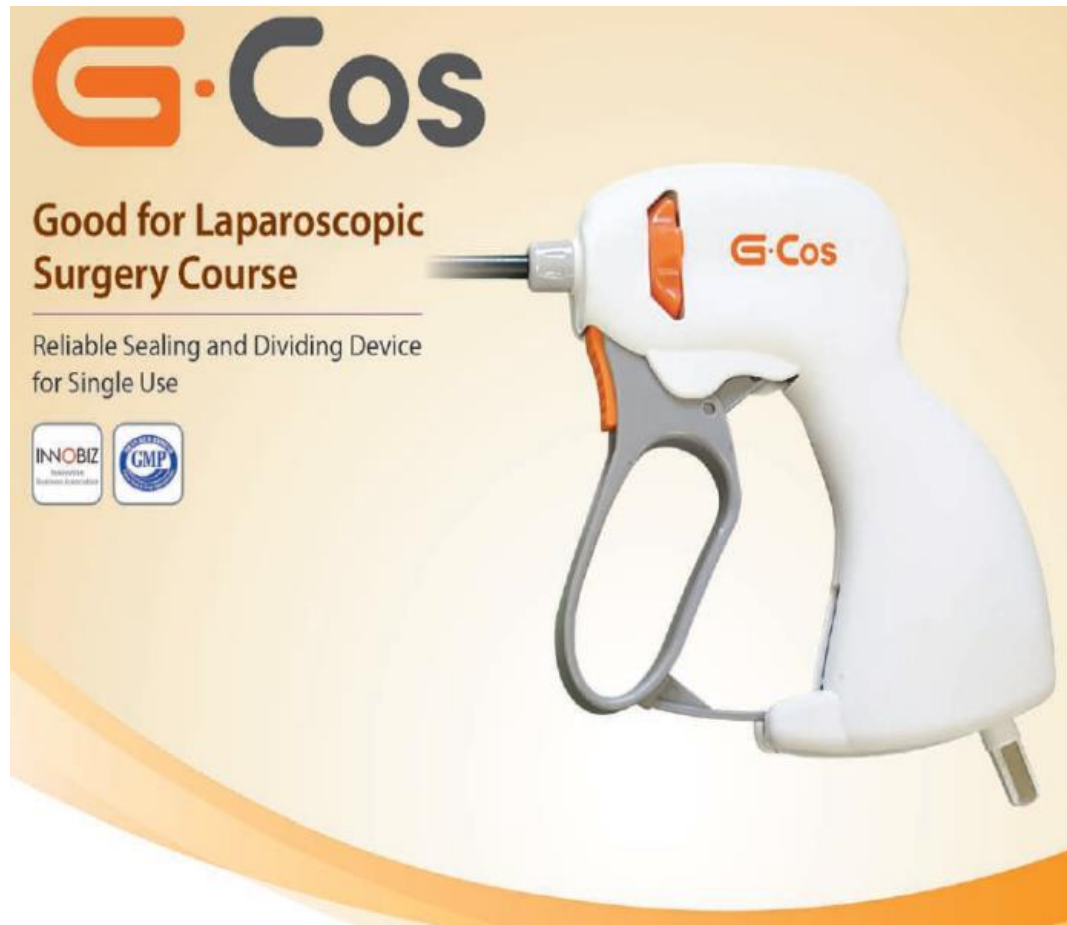
# G-cos

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G-cos is a laparoscopic device called “sealing and dividing device”.

Using bipolar, it minimize the electric shock and maximize the user’s convenience with ergonomic design of handle.

The coating on the jaw is preventing the tissues’ over heating.



## Features

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### 1. Ergonomic handle

- ✓ Deviation of wrist eliminates
- ✓ Promotes efficient muscle action
- ✓ Reduced carpal tunnel pressure
- ✓ Eradicates fatigue and discomfort
- ✓ Enhances surgical precision



## Features

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### 2. Applicable for all kinds of generators

Unlike some certain products can be only used with a specific power generator, Gcos is applicable for all kinds of generators, which can provide the users with more options.



### 3. Auto lock

The targeted tissue can be simply fixed with auto lock function.  
The function of auto lock can improve safety of the surgeries.



## Features

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### 4. Sealing power improved by jaw coating

The outer surface of the jaw is coated to prevent any unexpected and non necessary tissue damage.



### 5. 360degree rotation

Rotation is performed smoothly through a natural rotation of the wrist.





**Specimen Retrieval Bag**  
**One-pouch**

## One-pouch



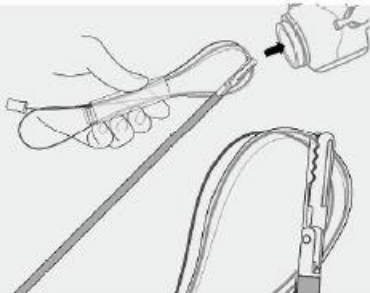
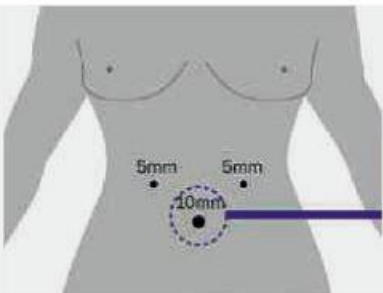
One-pouch is a specimen retrieval bag used for laparoscopic surgery.

It has no handle to make less hole. With spring wire, it is automatically opened.

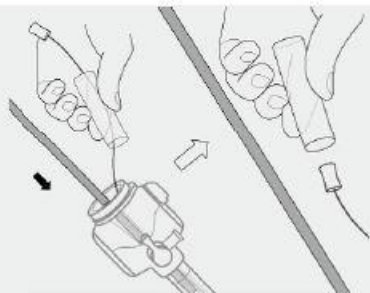
It is optimized for one port operation. The available models are 350, 500, 700 cc.



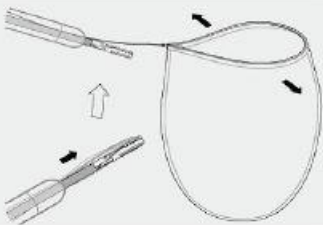
# HOW TO USE



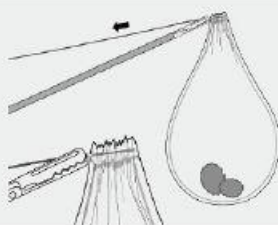
- 1** While holding the cover pipe with a hand, carefully grasp the center of the specimen bag rim together with cable using non-traumatic laparoscopic grasper. Insert the specimen bag through the desired 10mm, 11mm or 12mm trocar cannulae.



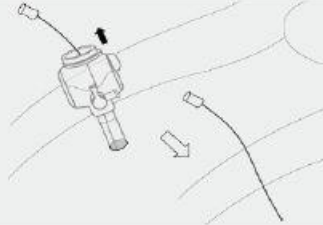
- 2** Once the bag is inserted to the abdominal cavity, release the bag and remove the laparoscopic grasper.



- 3** Place the desired specimen in the bag and pull out the handle placed on the outside while securing the bag with grasper to tie it.



- 4** Remove the trocar cannula backward. Pull out the handle until the mouth of the bag can be visualized through the incision site.



- 5** Upon completion of laparoscopic procedure, dispose this bag in accordance with local regulation. Refer to the above illustration.



**Portable DVT pump**

**D-cos**

D-cos is a therapeutic technique used in medical device that include an air compression pump and inflatable air-cuffs to improve venous circulation in the limbs of patients who suffer DVT.

The primary functional aim of the device is to **squeeze blood** from the underlying deep veins, which, assuming that the valves are competent, will be displaced proximally. When the inflatable cuffs deflate, the veins will replenish with blood. The air compressions of the cuffs will ensure the movement of venous blood.





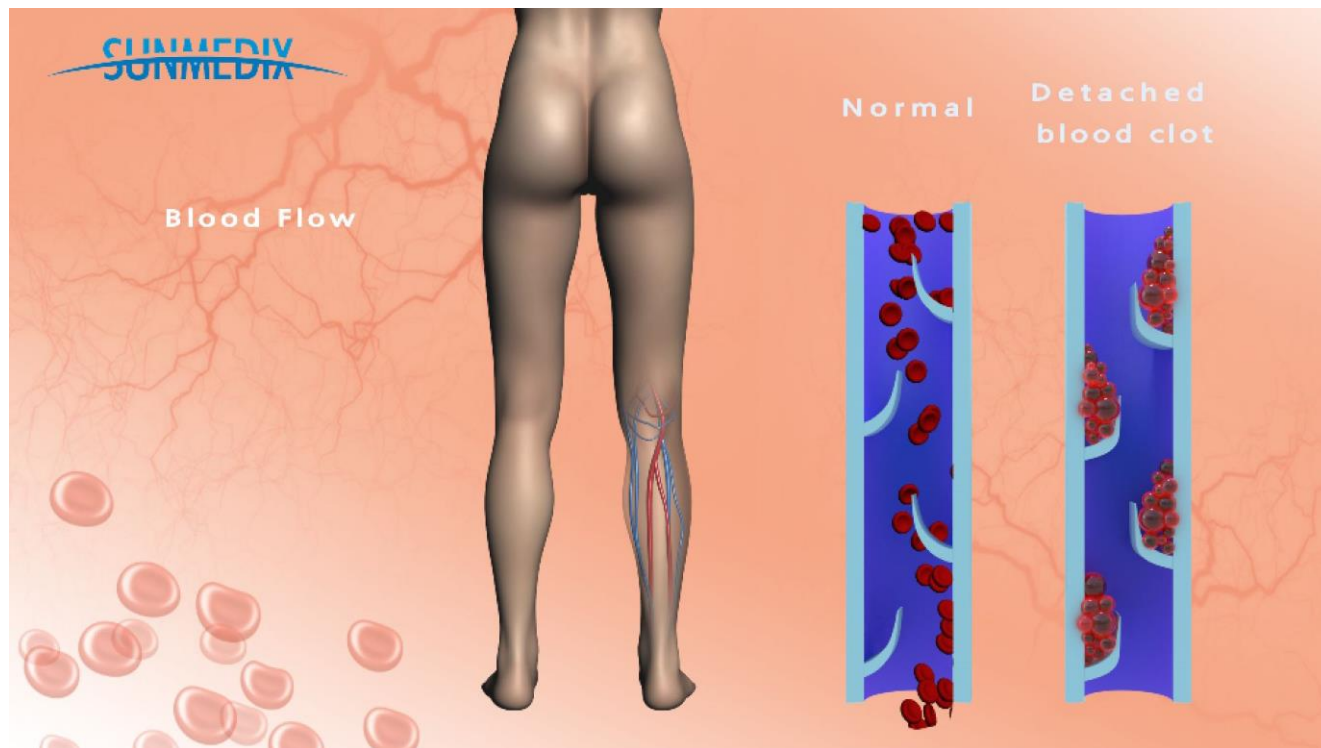
## ***DVT (Deep Vein Thrombosis)***

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Deep vein thrombosis (DVT) occurs when a blood clot forms in one or more of the deep veins in your body, usually in your legs.

DVT can develop if you have certain medical conditions that affect how your blood clots.

It can also happen if you don't move for a long time, such as after surgery or an accident, or when you're confined to bed.



## Types of DVT prevention treatment

	Methods	Invasive /Non-Invasive	Medical /Non-medical	Contraindication	Side effects
★ D-cos	Wearing	Non-invasive	Medical		No significant side effects
Blood thinner	Pill or Injection	Invasive	Medical	<ol style="list-style-type: none"> <li>1. Pregnancy</li> <li>2. People allergic to anticoagulant</li> </ol>	<ol style="list-style-type: none"> <li>1. Excessive menstrual bleeding</li> <li>2. Prolonged bleeding from a cut</li> <li>3. Dizziness</li> <li>4. Muscle weakness</li> </ol>
Clot buster	IV line or Catherter	Invasive	Medical	<ol style="list-style-type: none"> <li>1. Pregnancy</li> <li>2. People allergic to anticoagulant</li> <li>3. Uncontrolled high blood pressure</li> </ol>	<ol style="list-style-type: none"> <li>1. Allergic reaction</li> <li>2. Bleeding</li> <li>3. Low blood pressure</li> </ol>
Inferior vena cava filter	Insertion into vein	Invasive	Medical	<ol style="list-style-type: none"> <li>1. People allergic to anticoagulant</li> </ol>	<ol style="list-style-type: none"> <li>1. Infection</li> <li>2. Excessive bleeding</li> <li>3. Damage to the vein at the insertion site</li> <li>4. Filter can travel to the heart of lungs</li> </ol>
Compression stocking	Wearing	Non-invasive	Non-medical		No significant side effects

## Our Strength

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### Long-lasting Battery

Get over 10 hours of use with a 4-hour charge



### Portable Pneumatic Pump

The pneumatic pump controller of Dcos weighs only 0.3kg  
You can access to Dcos Simply from everywhere



### User-friendly Operation

You can have full of control, simply touching LCD screen



### Non-invasive & Non-chemical

D-cos prevents DVT in a gentle and pleasant way



### Infection-free Disposable Cuff

As D-cos provides disposable air-cuff, patient can wear cuff without any concern about infection even in surgery



### Reasonable Price

D-cos offers incomparable quality at reasonable cost

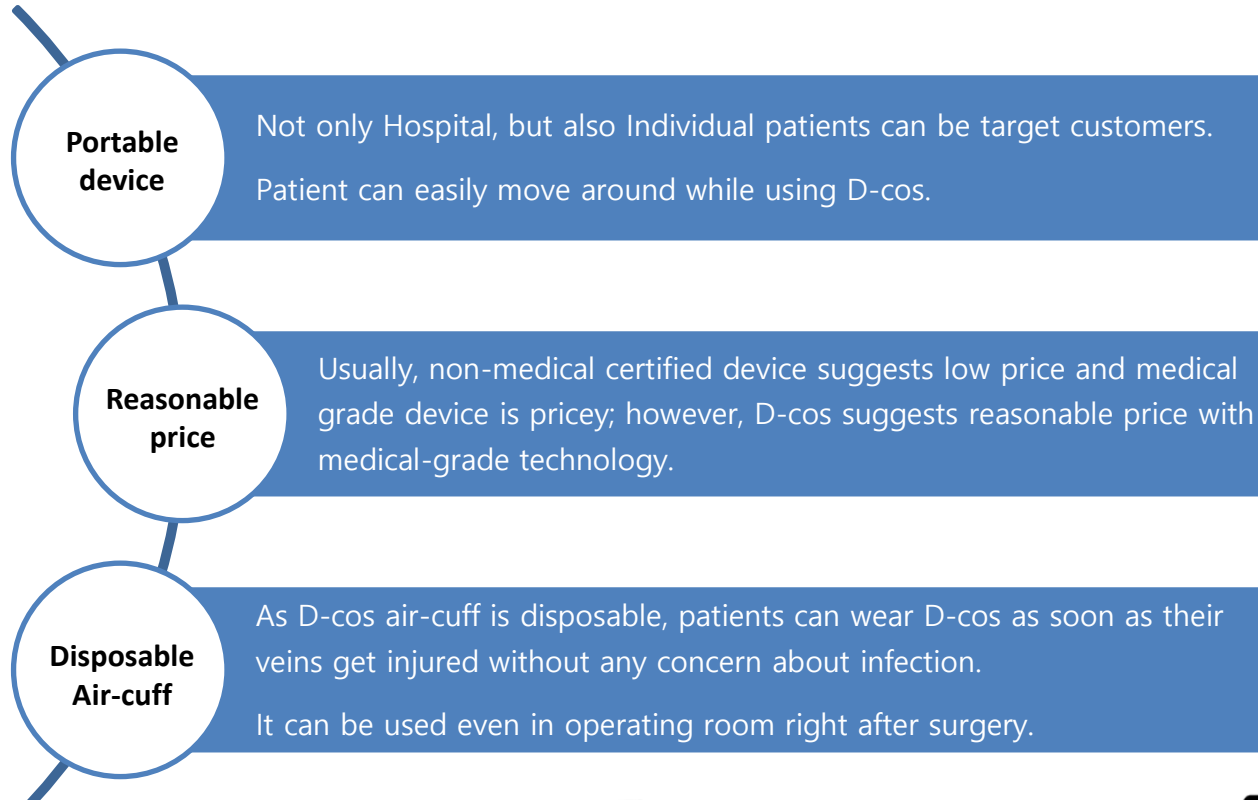


### Medical-grade

D-cos, medical certified device, provides professional and therapeutic treatment

## Market positioning and strategy

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*Injury*



*Inactivity*



*Aged*



*Reduced mobility*



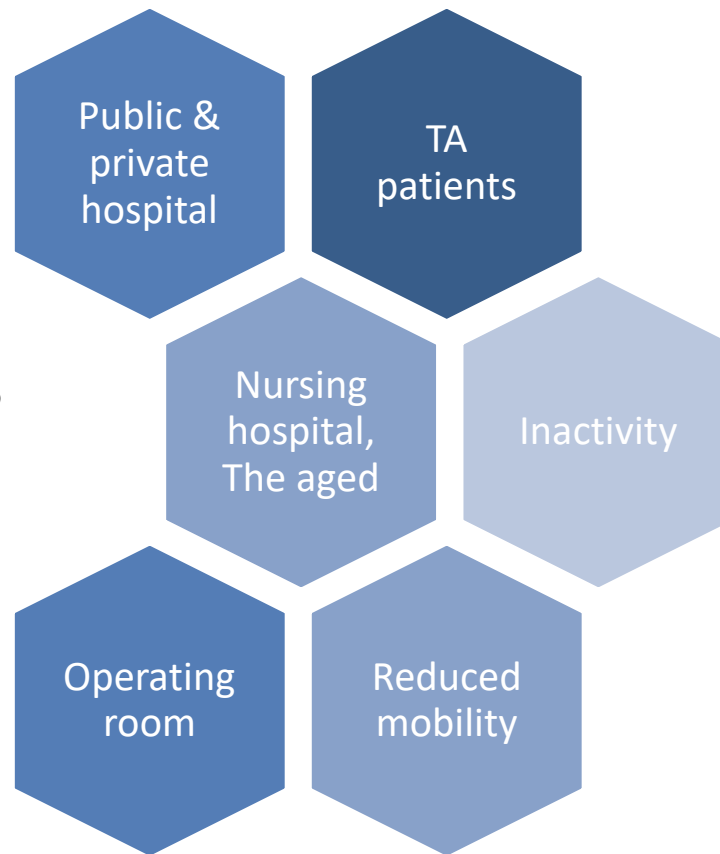
*Surgery*

## ***Market positioning and strategy***

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### ***Who & Where needs D-cos?***

*No matter who and where has risk for DVT*



## Comparison

	Competitor A	Competitor B	Competitor C	Dcos	Strength
Manufacturer	Company A	D*	M*	Sunmedix Co., Ltd.	
Product name	F*	C*	P*	D-cos	
Portable system	No	Yes	Yes	Yes	Portability
Size	133*152*275 mm	70*130*30mm	Non-disclosure	81.2*147.9*35mm	Space utilization
Weight	2.7 kg	0.3kg	0.6kg	0.3kg	Lightweight device Portability
Cuff size	1 Size	1 Size	1 Size	4 Sizes (SS,S,M,L)	Diverse cuff size
Cuff type		No-detachable cuff	No-detachable cuff	Disposable Detachable cuff	Low maintenance cost
Cuff material	PVC	Fabric	Fabric	Fabric/PVC	Diverse options
Pressure range	30–60 mmHg	40 mmHg (Not adjustable)	55 mmHg (Not adjustable)	40–65 mmHg (Low/Medium mode)	High and adjustable pressure
Controller system	Mechanical dial	Dial button No screen	Dial button No screen	LCD Touch Panel	User-friendly operation system
Built-in battery	No	Yes	Yes	Yes	Up to 10 hours of use with 4 hours charging

## Comparison

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	A	B	C	D	D-cos
Price	\$250	\$2,500	\$1,061	\$1,600	
Portability	X	X	O	X	O



*Thank you*

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