

高频电外科产品的领航者



以科技减轻伤痛 以仁心护佑健康  
science for easing the pain kindness for protecting the health



高频手术系统

High frequency surgical system

SM-5000系列



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## 高频手术系统

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### Product introduction

#### 产品介绍

高频手术系统，供临床外科用于术中血管闭合（直径 7mm 以内）及组织的快速凝切，减少手术时间，提高手术质量，确保手术的安全性。

High frequency surgical system HFSS is used to cut vessels rapidly and seal vessels ( $\leq 7\text{mm}$  in diameter), reduce the operation time, improve the accuracy and quality, ensure the safety of the operation.



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### Seal Cut Mode ( SCM )

#### 闭合切割模式



采用智能控制技术，结合器械前端钳口的压力，使组织的胶原蛋白和纤维蛋白熔融在一起，使血管达到真正的阻断和闭合，给临床提供更安全、更可靠的保证。

Advanced intelligent control technology, combined with the pressure of accessory instrument's tip, make the tissue and fibrin fused together to achieve the real blocking and closure. The transparent permanent closed zone enhance safety and reliability for clinical operations.

### Coagulation Cut Mode ( CCM )

#### 凝切模式



在保证组织闭合效果的前提下，提供快速分离组织的双极切割功能，即凝切模式。该模式切割速度更快且作用于组织的时间更易控制。

凝切模式也可以实现闭合切割模式的血管闭合功能，即双极切割功能和血管闭合功能自由切换。

CCM provides the bipolar cutting function of the fast-separated tissue under the condition of ensuring the closure effect of the tissue. The cutting speed is faster and the operation time is more easily controlled.

CCM can also implement the closing function of SCM, which means the function of bipolar cutting and the function of vascular closure can be switched freely.



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## Product features

### 产品特性

1. 智能自控：自动调节能量输出，自动判别闭合效果  
Intelligent auto control:automatic adjust power output ,automatic judge effect of sealing
2. 实时反馈：自动检测组织阻抗，保证主机输出稳定  
Real-time feedback:automatic impedance testing feedback,ensure generator stably
3. 人性化设计：工作状态下，色彩状态、声音提示  
Humanized design:working normally,color display secreen ,audition alarm
4. 闭合切割与凝切模式自由切换  
Freely switch between SCM & CCM
5. 直接作用于组织束，无须对组织束内的血管再进行精细分离  
Directly effect on tissue bundles,no need to seperate vessels from tissues
6. 无组织黏连、焦痂，利于创面的吸收及术后愈合  
No charing and sticking,good for absorption and healing of the wound
7. 极少的烟雾，高清晰手术视野  
Minimal smoke,clear visual

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## Applications

### 适用范围

适用于临床各科手术中富含胶原蛋白和纤维蛋白的组织 and 血管的切割和凝血。

To be suitable for all clinical surgeries to cut and coagulate the tissues and vessels containing collagen and fibrin

## Typical surgeries

### 典型手术

妇科（子宫、附件切除手术等）

GYN ( Hysterectomy,Aolectomy,ect )

普外科（胃、肠、脾、甲状腺切除手术等）

General Surgery (Gastrectomy Euterectomy splenectomy Thyroidectomy,etc.)

泌尿外科（肾、肾上腺、膀胱切除手术等）

Urinary surgery(Nephrectomy, Adrenalectomy, Cystectomy,etc.)

肛肠科（结肠、痔切除手术等）

Anorectal surgery(Colectomy,Haemorrhoidectomy,etc.)



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## Accessory characteristics

### 附件特性



闭合刀：  
Vessel sealing instrument:

大血管闭合、冷刀切割、导线内藏、360度刀头无限旋转

Big size vessels sealing,mechanical cutting,insdie wires, tip jaw 360°unlimited rotation



凝切刀：  
Coag cutting instrument:

小口快切、边凝边切、吸烟孔设计、360度刀头无限旋转

Fast cutting,sealing while cutting ,smoke suction hole design, tip jaw 360°unlimited rotation

闭合  
seal

切割  
cut

凝固  
coagulate

抓持  
grasp

分离  
separate

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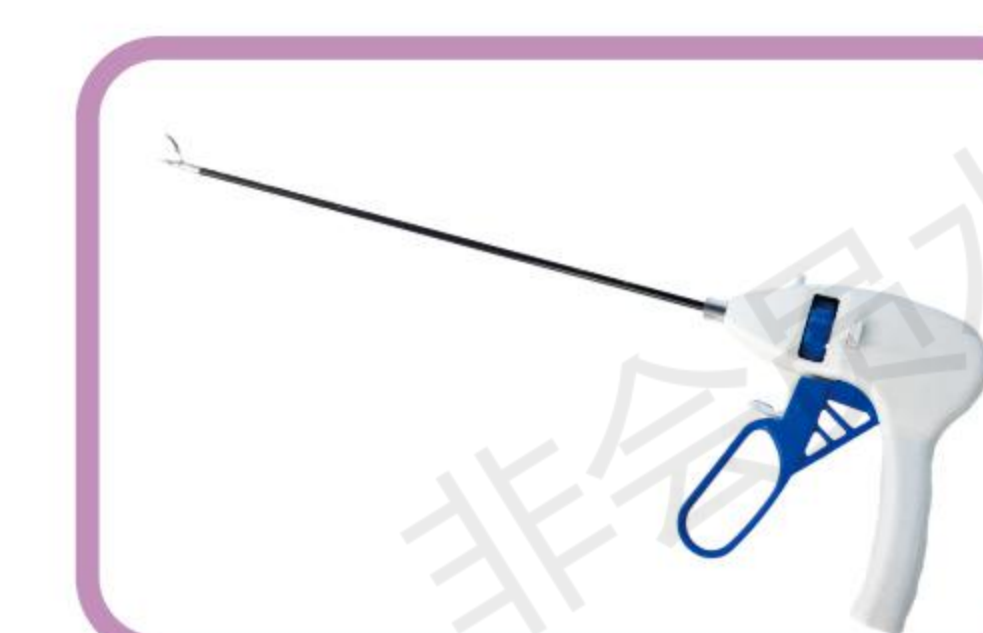
## Appendixs

### 适配附件

闭合刀  
10mm/5mm



凝切刀  
10mm/5mm



阴式钳



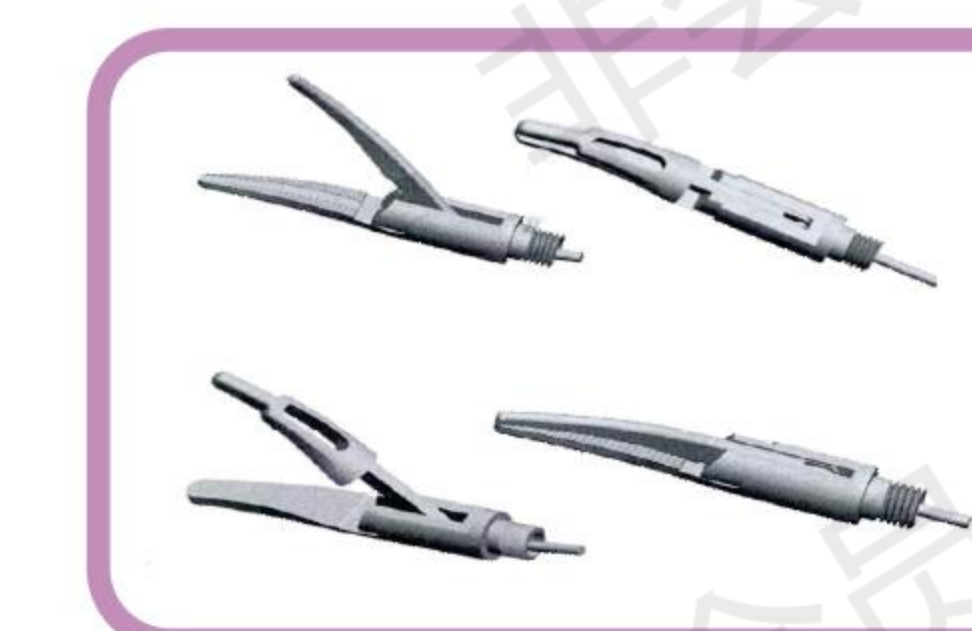
可拆式



不可拆式



多种刀头



注：系统特性、结构组成、工作模式、产品特点等因产品型号的不同存在差异，具体内容参见《使用技术说明书》和《产品技术要求》。