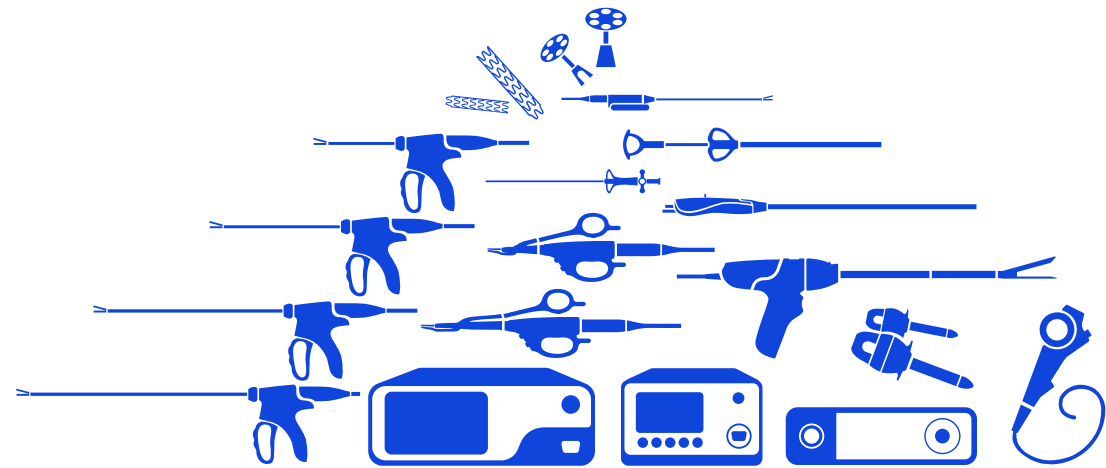


SHARING TECHNOLOGY OF
MINIMAL INVASIVE SURGERY
WITH THE WORLD



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ULTRASONIC SCALPEL DEVICE

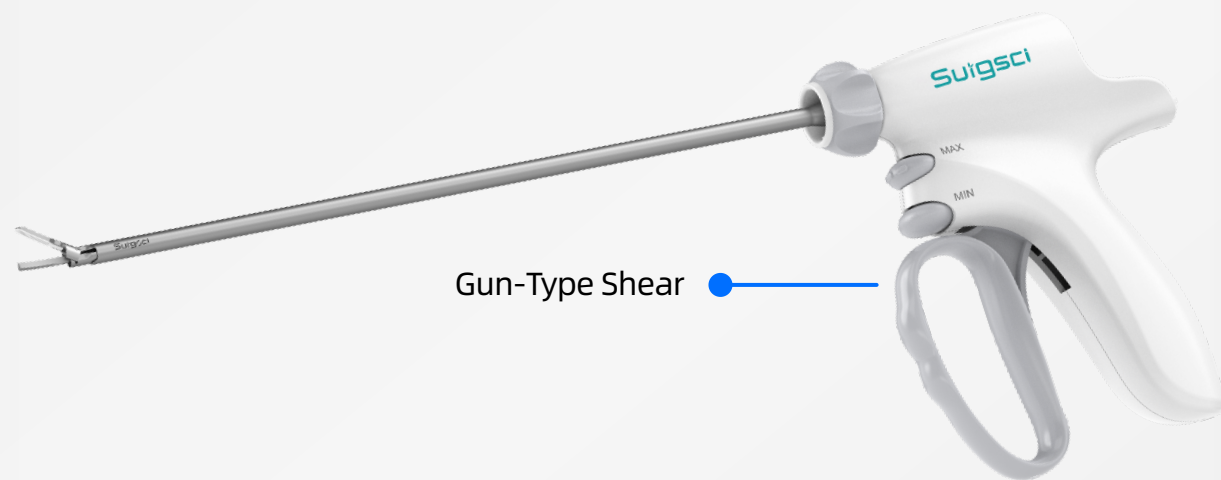


MINIMALLY INVASIVE SURGERY

COMPREHENSIVE SOLUTION PROVIDER

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ULTRASONIC SHEARS



INTELLIGENCE



STRENGTH



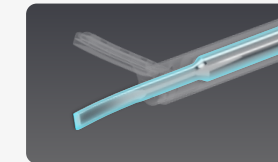
HIGH SPEED

Ultrasonic SHEARS

Using independently developed titanium alloy materials that are resistant to ultra-high cycle fatigue and have high acoustic transmission efficiency for the knife handle, it is enhanced with micro-nanostructure surface treatment technology and anti-adhesion technology.



A more refined blade tip and clamp mouth
Significantly enhances the precision of surgery



High-performance aerospace-grade titanium alloy material
Lower wear, longer lifespan



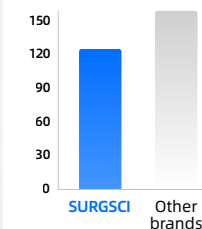
Patented clamping technology
Lower mist volume, clearer vision



Anti-adhesion patent technology
High resistance to adhesion, durable and long-lasting

Comparison of blade temperature experiments

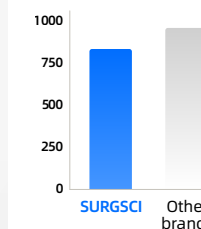
Advantages in blade temperature



(The lower, the better)

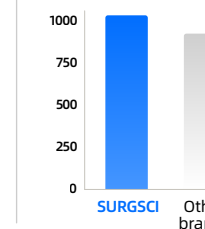
Experimental comparison of blood vessel bursting pressure

Average venous burst pressure (mmHg)



(The lower, the better)

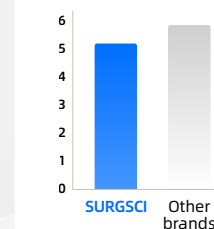
Average arterial burst pressure (mmHg)



(The higher, the better)

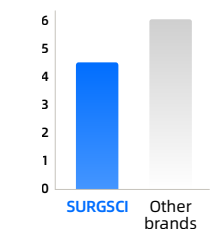
Cutting & sealing speed experimental comparison (Average time (s))

Arterial vessel cutting



(The lower, the better)

Arterial vessel closure



(The lower, the better)

Gun-Type Shear (closure model)	Model	Gun-Type Shear (open model)	Model	Length
	HK1405NCA HK1405SCA		HK1405NCB HK1405SCB	140mm
	HK2305NCA HK2305SCA		HK2305NCB HK2305SCB	230mm
	HK3605NCA HK3605SCA		HK3605NCB HK3605SCB	360mm
	HK4505NCA HK4505SCA		HK4505NCB HK4505SCB	450mm

Scissor Shear	Model	Length
	HK0905NC HK0905SC	90mm
	HK1705NC HK1705SC	170mm

GENERATOR



Powerful artificial intelligence algorithms intelligently output energy based on different surgeries

With years of underlying technology accumulation, SURGSCI has equipped the main unit with an NPU (Neural Processing Unit) processor, whose performance rivals that of a small AI workstation. It boasts a floating-point data computational capability of up to 3.6 TOPs (3.6 trillion operations per second), intelligently meeting the operational requirements of different surgeries. The entire system is optimally matched by a full stack of independently developed intelligent software, hardware circuits, handle transducers, and blades



AI NPU **Equipped with a high-performance AI processor**
Powerful computing capability up to 3.6 trillion operations

Tissue-adaptive intelligent cutting algorithm
Precise output, high cutting efficiency

Tissue cutting warning prompt algorithm
Precise impedance feedback, advanced warning

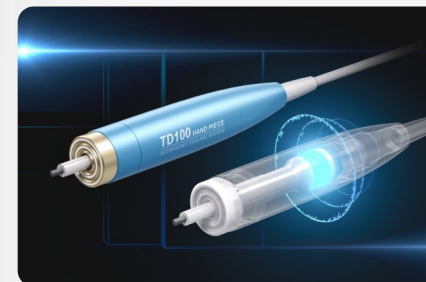
Metal instrument collision braking algorithm
Precise monitoring, preventing accidents

Intelligent temperature detection prompt algorithm
Real-time temperature monitoring, reducing risk

Low-temperature cutting control algorithm
less thermal damage, higher safety

Model	Overview	Main unit configuration
G600	Features a full HD touch display and full-screen user interface for easy cleaning. Includes USB and RJ45 for updates and a touch power button with shutdown confirmation to prevent accidental turn-offs.	N P U 3.6 TOPs R A M 16 GB FLASH 512 GB

HAND PIECE



Independently developed high-performance piezoelectric ceramic material

Advanced assembly process, stable and reliable performance, no howling in working state, dustproof and waterproof structural design. Compatible with multiple ultrasonic main units through a conversion connector. The casing is made from aerospace aluminum alloy CNC machined. It has high strength and corrosion resistance.

High power capacity
High output power, outstanding performance

Low heat generation easy maintenance
High durability, not easily damaged

High energy conversion efficiency
Low energy loss, high surgical efficiency

High stability, low temperature sensitivity
Strong adaptability to working temperature, stable and safe performance

Product	model	description
	TD100	Gun-Type Shear
	TD150	Scissor Shear



SHENZHEN

SHENZHEN IS A HOTBED OF TECHNOLOGICAL INNOVATION,
NURTURING OUTSTANDING CHINESE ENTERPRISES.

100+

Domestic and foreign patents

40+

Invention patent

70+

Granted patent

200+ million

R&D investment

50+

R&D engineer

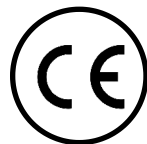
1500+ m²

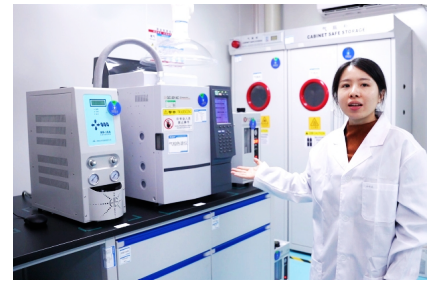
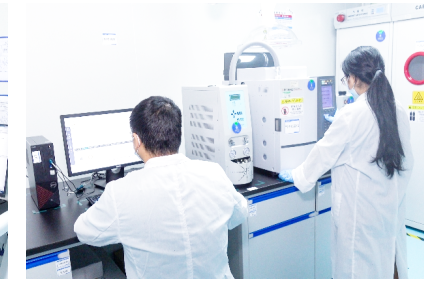
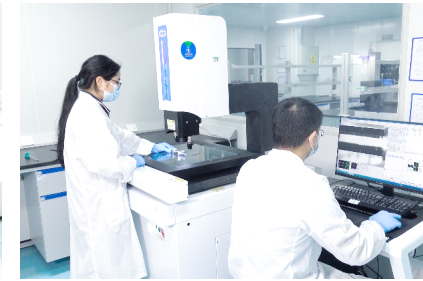
R&D center

ABOUT SURGSCI

Surgsci is a global provider of innovative solutions for minimally invasive surgery intelligent consumables, aimed at improving people's health and quality of life. The company takes it as its mission to popularize minimally invasive medical technology and share high-quality humanitarian care, continues to innovate, and focuses on clinical needs to benefit patients. In the fields of ultrasonic energy surgical treatment devices, intelligent consumables for minimally invasive surgery, and specialized minimally invasive surgical instruments, the company provides comprehensive innovative solutions for fields such as hepatobiliary and gastrointestinal surgery, otolaryngology, colorectal surgery, bariatric surgery, oncology, urology, thoracic surgery, surgery for women and children, and neurosurgery.

The company has over 50 R&D staff, including more than 10% with PhDs and nearly 50% with Master's degrees. It has applied for over 100 domestic and international patents, solving key challenges in minimally invasive surgical technology such as durable titanium alloys for ultrasonic knives, high-performance piezoelectric ceramics, intelligent impedance matching algorithms, miniaturization of ultrasonic transducers, and anti-adhesion coatings for surgical knives. Surgsci a specialist in intelligent minimally invasive surgical devices, is creating an ecosystem for intelligent consumables to offer comprehensive solutions for minimally invasive surgery patients, doctors, and healthcare facilities.





4000+ SQUARE METERS GMP FACTORY

The core team of the manufacturing center comes from well-known domestic and international medical device companies, possessing rich experience in production line management and quality control. The manufacturing center boasts a Class 100,000 cleanroom, a nationally recognized CNAS laboratory, and independent biological and physical-chemical laboratories. Products strictly adhere to the national standard quality system, with rigorous sterilization procedures and high-standard production processes, providing a strong guarantee for patient safety and peace of mind. Creating a 'flexible, efficient, and standardized' lean production model to enhance production efficiency, ensure the fulfillment of diverse customer needs, and guarantee product quality and delivery efficiency.



HIGH-QUALITY CUSTOMER SERVICE

customer-centered" service philosophy, the company provides comprehensive after-sales support and customized solutions to meet the special needs of customers from different countries and regions.



FIRST-CLASS PRODUCT QUALITY

Every product undergoes strict quality control and performance testing to ensure its reliability, durability, and safety. Providing users with efficient and precise medical solutions, it is a trusted medical device supplier in the global market.



RAPID DELIVERY SPEED

We have an efficient logistics network and supply chain management system, ensuring that every link from order processing to product delivery is efficient, accurate, and on time.

40+ COUNTRIES AND REGIONS

SURGSCI has become one of the leading enterprises in the domestic minimally invasive medical device industry. With excellent product performance and good customer satisfaction, SURGSCI has achieved good results in the domestic market. Currently, it is actively entering the international market. Through establishing partnerships, SURGSCI has brought minimally invasive medical devices to various parts of the world, continuously increasing its global influence.