

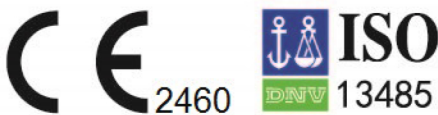


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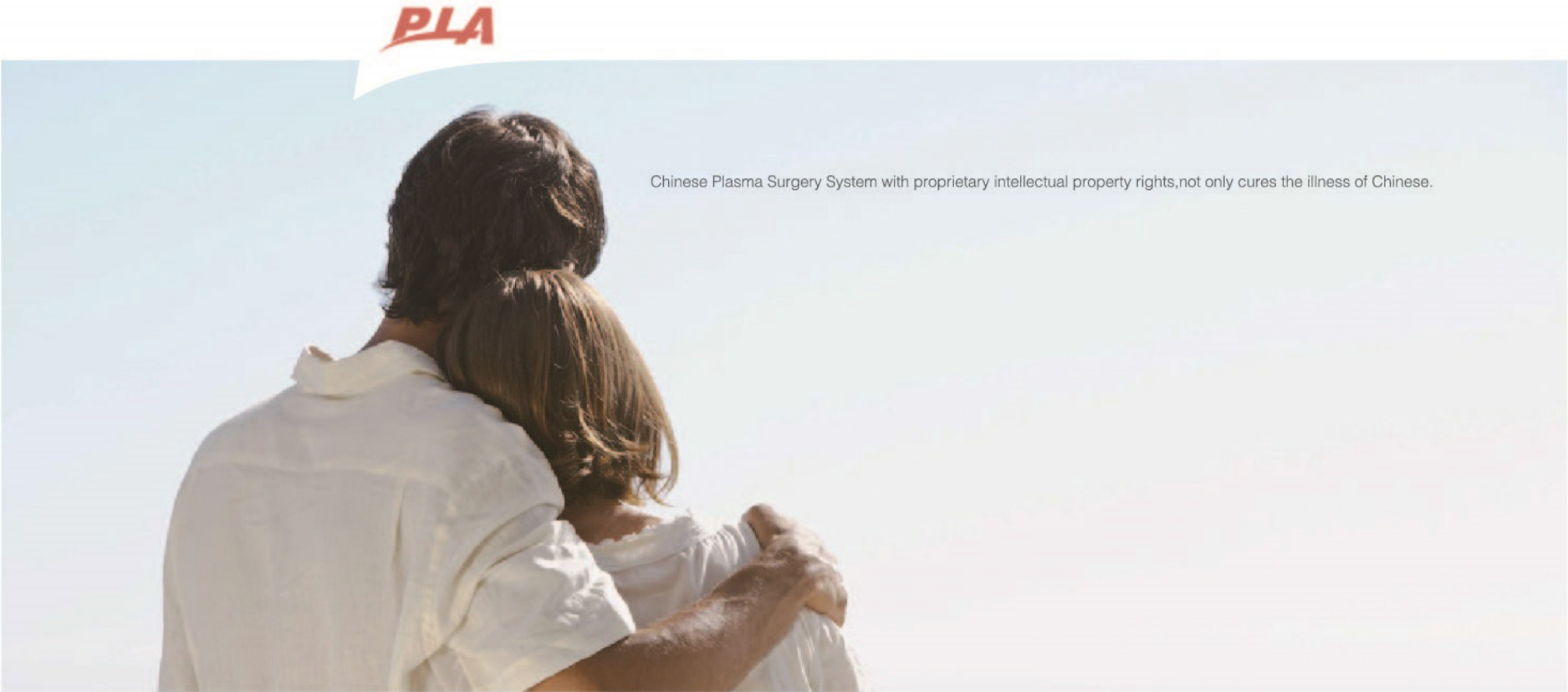
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Stock Name: Mechan Medical
Stock Code: 833234



PLA-600



Chinese Plasma Surgery System with proprietary intellectual property rights,not only cures the illness of Chinese.



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Urology Surgery Plasma Surgery System



MECHAN has been working to develop and advance Plasma technology into much more medical applications.



Disease of prostate, urethra and bladder has been recognized as a personal and social problem. Mechan will do the best to solve these problems.

All for Health All for Life

A New Generation for Plasma **PLA-600**



Plasma technology
--The latest technology to treat diseases of BPH,
urethrostenosis, bladder tumor, etc.

Functions

New standard for prostatectomy (plasma surgery system for prostate): the plasma technology is praised as a revolution of the surgical technology development in 21 century, and it is the most ideal transurethral resection.

- Complete resection: be able to identify prostate capsule automatically, effectively avoid puncture the capsule during the surgery, be able to resect hyperplastic glands thoroughly, and reduce the possibility of re-hyperplasia of the prostate.
- Safe resection: electric current will not pass through human body, which is safer to avoid damages to the prostate capsule resulted in surgeries based on experiences, no damage to peripheral tissues, and avoid the occurrence of postoperative complications once and for all.
- Normal saline media: prevent TURS (water intoxication), and greatly reduce rinse volume.
- Low-temperature resection: thermal penetration not deep, avoid obturator nerve reflection, and protect nervi erigentes.
- Precise resection: 100 μ m thick of plasma layer has cutting effect, which can thoroughly resect prostate hyperplasia tissues in the capsule without injuring the capsule.
- Fast resection: be able to complete the surgery in a short time, effectively protect patients, decrease complications, be able to continuously resect and strip the glands, thus enhancing the operation efficiency greatly.
- Resection and coagulation at the same time: real-time hemostasis, blocking-up supplying vessels of the prostate effectively, so that the field of operation is clear.

A new method to cure BPH (Benign Prostatic Hyperplasia)--Plasma Kinetic Resection



Technical Parameters

Input Voltage	198~242V 50Hz/100~120V 60Hz converted automatically for exporting
Working Frequency	100KHz $\pm$ 10%
Working Mode	ABLATION:1-10, PLACOAG:1-10
Output Power	ABLATION $\leq$ 350W PLACOAG $\leq$ 100W
Physical Dimension	Length 409* Width 460* Height 145 (mm)
Weight	7kg

Advantages of the plasma technology in treating urethrostenosis and urethratresia:

- Reduce the risk of urethral sphincter injure, urethral mucosa injure, urethrostenosis and urinary tract infection.
- Lower the risk of postoperative secondary bleeding, postoperative urinary irritation symptoms, postoperative irritative symptoms of bladder and postoperative ED.
- The risk of postoperative transient uracratia, urethral thermal burn, hyponatremia, water intoxication and other complications also reduce significantly.

Advantages of plasma technology in treating BPH (benign prostatic hyperplasia):

- Excision of hyperplastic prostate tissue in surgical capsule and reduce the risk of re-hyperplasia and further surgery.
- Enucleation is to stop blood supply at first, wherein the capsule after surgery is finishing, the contraction is good, the bleeding or secondary bleeding is less.
- Almost bloodless resection, and can handle operation of large glands.
- Prostate enucleation, to avoid accidental injury of the external urethral sphincter and reduce the probability of recurrent obstruction or dysuresia.
- Prostate enucleation, to avoid overloaded circulation or even life-threatening due to huge uptake of flushing fluid.
- Shorten the postoperative bladder irrigation time, indwelling catheter time, hospital stays and recovery period of patients.

Advantages of plasma technology in treating bladder cancer:

- The minimally invasive treatment of internal superficial bladder cancer (over 90% of treatment rate).
- Bladder conserving therapy for invasive bladder cancer (similar to the effect of open surgery).

Urology Probe



PLA201 (Thin Ring)



PLA202 (Thick Ring)



PLA206



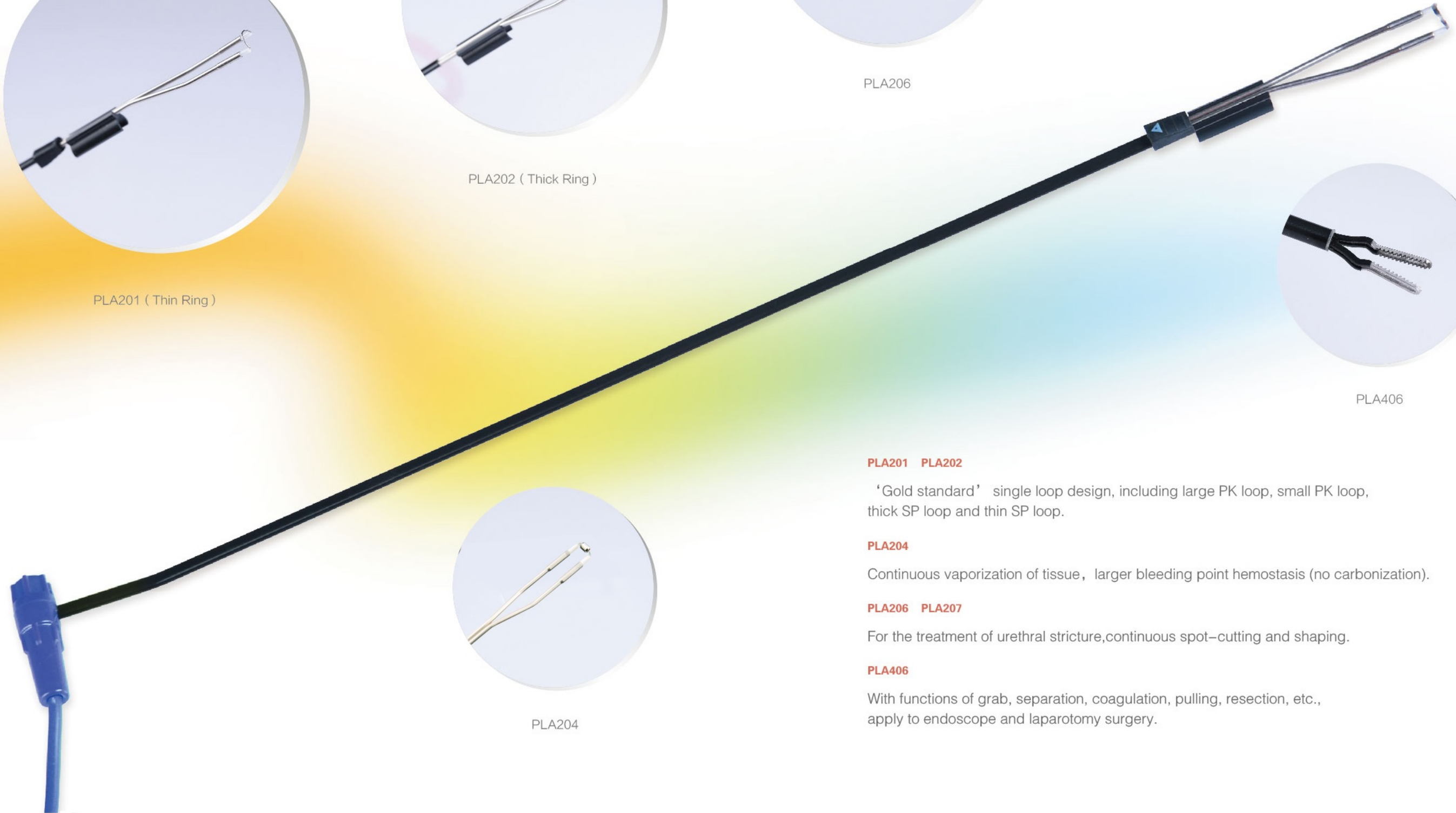
PLA207



PLA406



PLA204



PLA201 PLA202

‘Gold standard’ single loop design, including large PK loop, small PK loop, thick SP loop and thin SP loop.

PLA204

Continuous vaporization of tissue, larger bleeding point hemostasis (no carbonization).

PLA206 PLA207

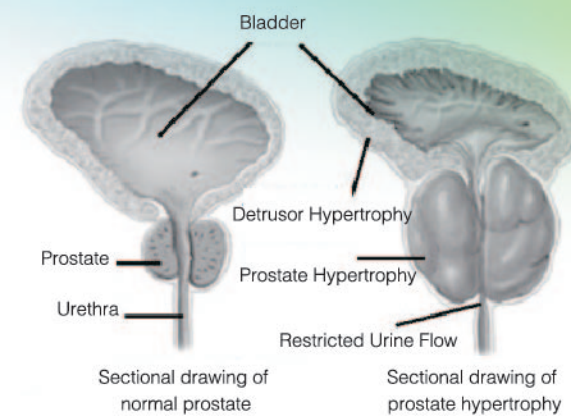
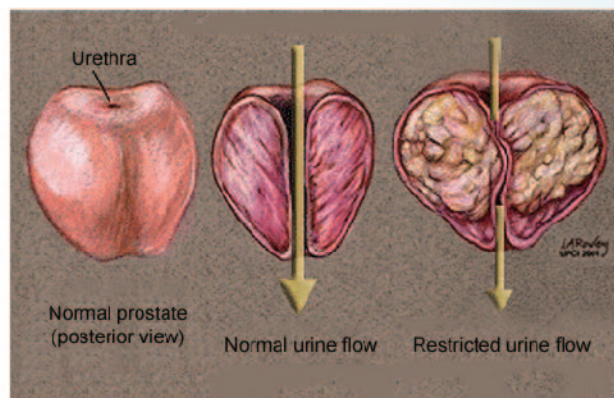
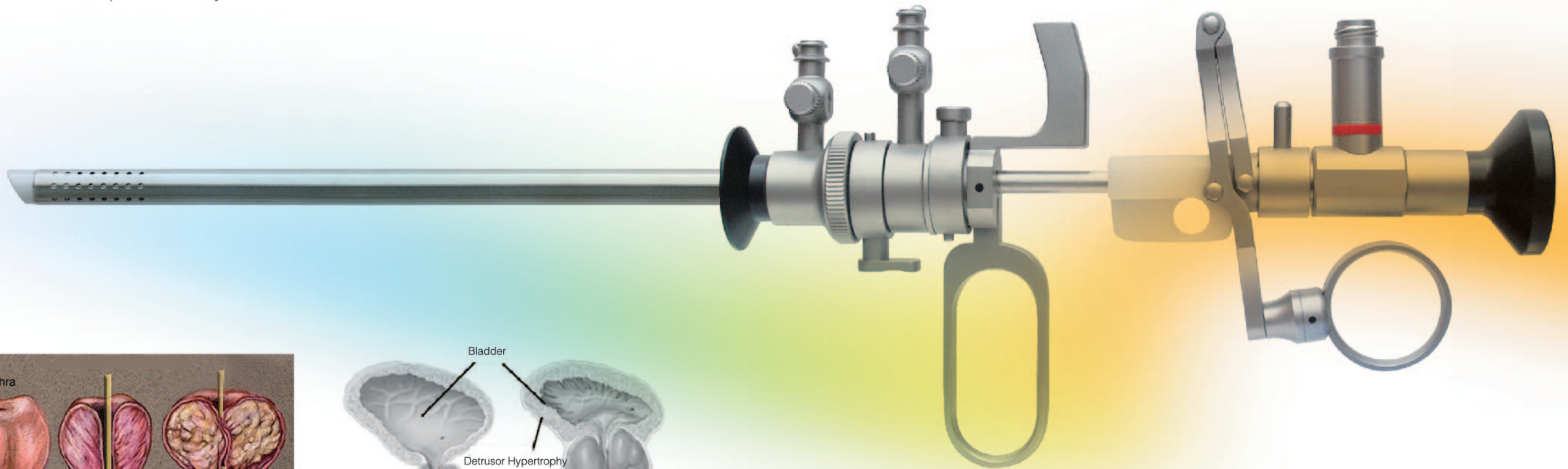
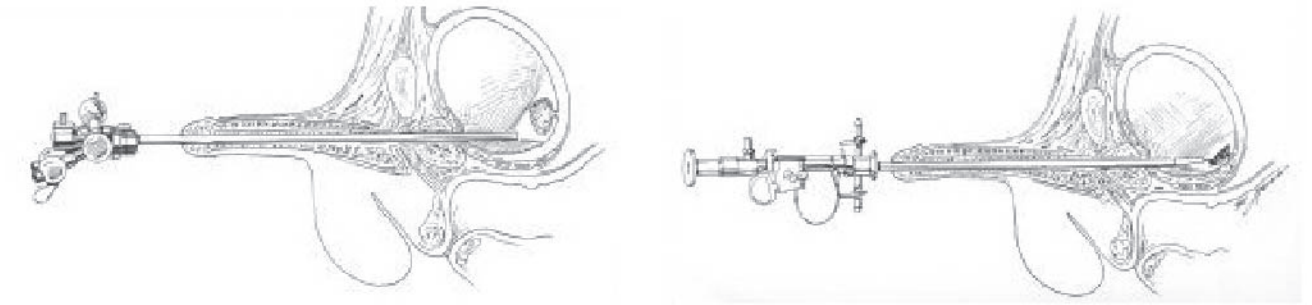
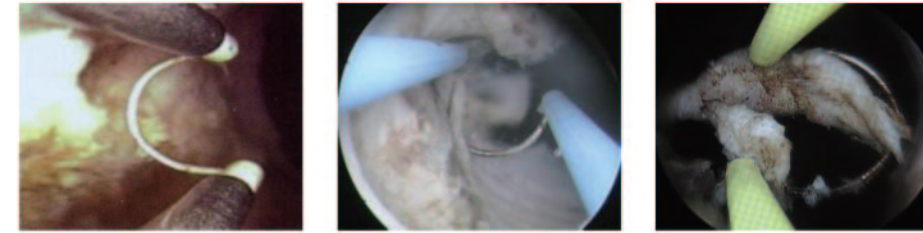
For the treatment of urethral stricture, continuous spot-cutting and shaping.

PLA406

With functions of grab, separation, coagulation, pulling, resection, etc., apply to endoscope and laparotomy surgery.

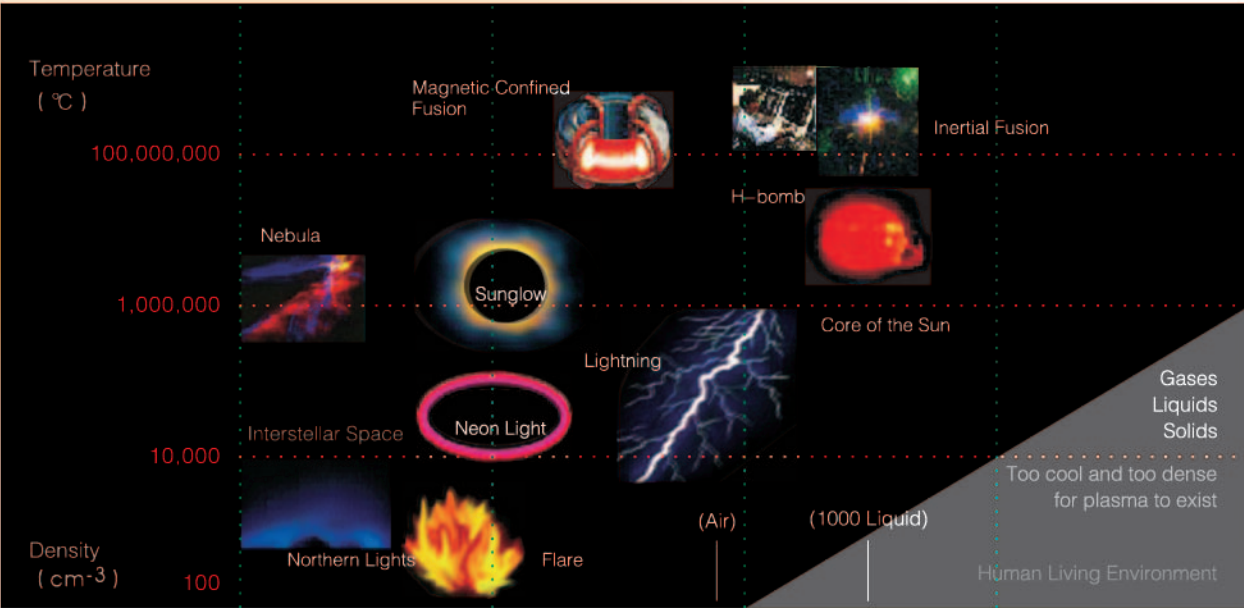
Probe Characteristics

- Using the low temperature plasma technology, minimize the injury to the around tissue.
- Combined rare precious metals with NT.
- With precise and highly effective bipolar and multi-polar design, it improves the safety during the surgery.
- New design of the probe working tip, probe structure is exquisite, and fully meet the needs of clinical use.
- Integrated cable design, simple operation, to prevent cross contamination.
- With multi-point electrode working technology, temperature is dramatically lowered while highly effective ablation and cutting.
- Local anesthesia operation, convenient operation, safe, minimally invasive, good curative effect, quick recovery.



About Plasma

It's confirmed that there are 3 physical forms of material existence in human living environment. They are solids, liquids and gases. And any physical form can exist in different states due to the influence of environmental factors. Plasma is the fourth form of material existence. It's composed of ionized conductive gases, including six typical particles, which are electron, positive ion, negative ion, atom or molecule at excited state, atom or molecule at ground state, and photon. Plasma is composed of those positive and negative charged particles and neutral particles, and is a kind of quasi-neutrality gas with collective behavior. That is also called highly ionized gas. No matter whether it's partially ionized or completely ionized, it's called plasma when the total negative electric charge equals to the total positive electric charge.99% visible materials in universe may exist in plasma state, including fixed stars. Plasma can be natural or man-made. For example, the lightning during rainstorms is plasma phenomena, because the high voltage difference between cloud layer and ground makes the air ionized. And neon light and fluorescent lamp are from man-made plasma. The gases in light tube are ionized into plasma state.



How It Works?

MECHAN Plasma Treatment System can generate high dense plasma region around the probe electrodes (voltage difference exists between electrodes of bipolar or multi-polar probes) by conducting medium like sodium chloride solution or electrolyte in cells. The plasma region is composed of a highly oxidized and highly gasified plasma thin layer (50–100um) . The plasma layer has enough energy (3–5ev) to destroy the organic molecular chains in the tissues, thus making the molecules separate from each other and the tissue volume get reduced. It does not carbonize tissues directly, thus with minimal collateral damage caused. The electricity will not flow through tissues directly, so the tissue heat is limited and working temperature is controlled at a low level. Our Plasma Treatment System has the advantages as below: tissue surface temperature kept at 40–70°C, collateral damage to surrounding healthy tissues limited to the least, thermal penetration controlled at the best, focused ablation at tissues in the way of molecular separation, and others.

THE LEADING PIONEER
IN ADVANCED PLASMA
PRODUCTS IN MEDICAL
APPLICATIONS



Mechan Medical makes a commitment to improve products and create good value for customers. Mechan is the high-tech enterprise, one of the standard makers for Plasma Surgery Equipment field. At the same time, we have obtained the CE Certification and Rohs Certification, and passed the EMC Inspection, CMD Audit, Korean KGMP System Audit, Class III Medical Products Registration of State Food and Drug Administration etc. We will uphold the quality in the first place, and with the sincerity to offer the best plasma surgery equipment to customers.

Mechan has passed the CMD system audit,
South Korea KGMP system audit;
PLA series products inspection items

Biocompatibility: cytotoxicity	EN ISO 10993-5:2009
Biocompatibility: sensitization, skin irritation test	EN ISO 10993-10:2009
Test of packaging materials: vacuum leaks, pigment infiltration, agar attack, seal stripping \ aging experiment	EN ISO 11607-1:2009
Safety regulations Third Edition	EN 60601-1:2006/AC:2012
Obtained the CE Certificate and RoHS Certificate, Passed the EMC detection	IEC 62321:2008 IEC 60601-1-2:2007
Special standard	EN 60601-2-2:2009