

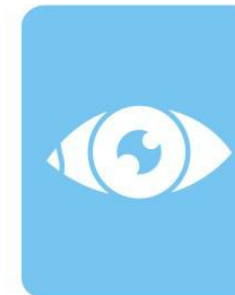


GAOTON MEDICAL



ENT Low Temperature Plasma Surgery System

Manufacturer Of Low Temperature Plasma Surgical System



SM

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ACCURATE
LOW TEMPERATURE
MINIMALLY INVASIVE



Company Overview



GAOTON Medical focuses on research, development, manufacture and sales of low temperature plasma surgery system, and has three professional medical companies. Since the end of last century, Gaoton Medical has been dedicated to the research and development of low temperature plasma surgery technology and probe (electrode) and other related equipment, so as to achieve dedication, professionalism, specificity and accuracy in the field of low temperature plasma surgery.

Higher international quality standards

Exquisite and rigorous production process, high standard product quality. our products have been awarded international CE, ISO13485 certification and domestic registration license – CFDA.

Irreplaceable advantages

In the field of plasma, we have many national patented products. The exclusive patented built-in pulverizing electrode solves the block problem at cutting tip of suction tube, making the operation more smooth.

Wide application field

Products are applied for the department of Orthopedics, Pain Management, Spine, ENT, Neck surgery, Ophthalmology, Urology, Gastroenterology and Respiratory Medicine, etc.

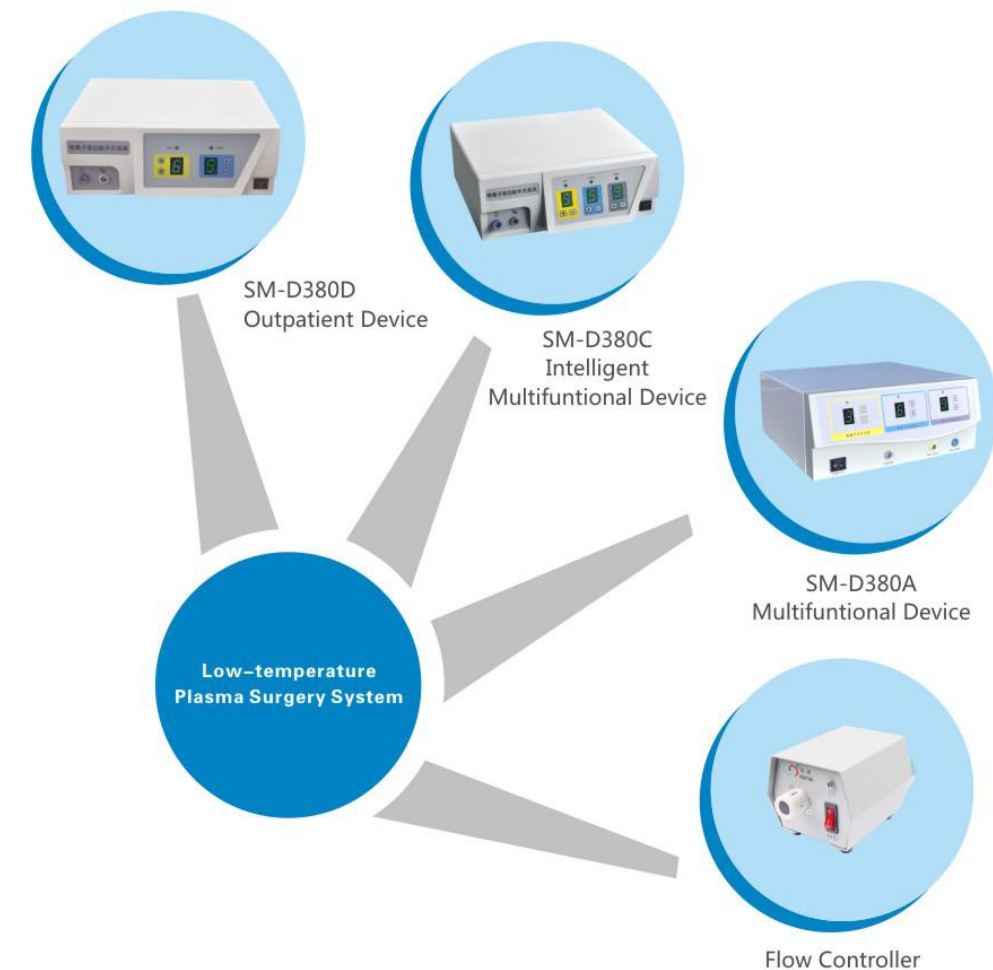
Strong R&D team and excellent after-sales service.

Our research and development team consists of senior technical experts with rich experience and specialized background.
Our after-sales service system can provide excellent service.

Summary of plasma surgery system

Operation Theory

Plasma state is generated by stimulating medium like sodium chloride in collagen molecule when multi-polar probe is connected with electric energy under specific waveform. The highly energized particles in the plasma can break down molecules in the tissue and separate tissue protein into low molecular weight gas such as H₂, O₂, CO₂, N₂ and methane, thus achieving vaporization, cutting, perforation, ablation, shrinkage, peeling, hemostasis, repair and other operations.



Advantages

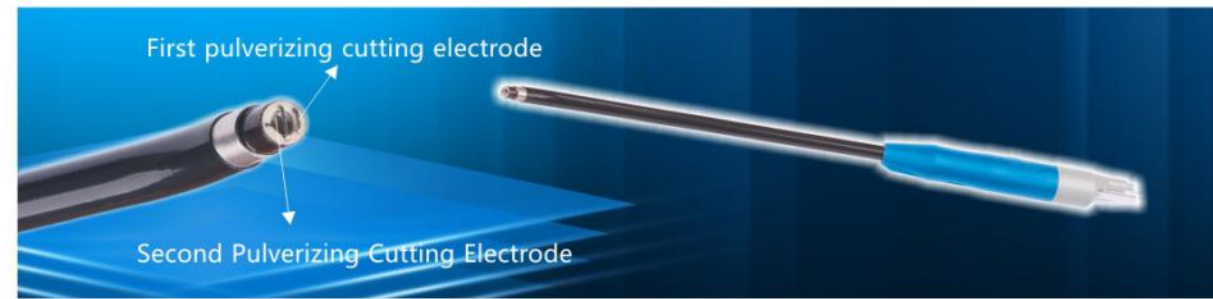
- ◆ Real low temperature and minimally invasive
- ◆ Effective hemostasis function
- ◆ Effective protection of mucosa and its original physiological and immune functions
- ◆ Plasma probe with multifunction of ablation, cutting, separation, hemostasis, suction.

Patent Technology

The exclusive patented built-in pulverizing electrode solves the block problem at cutting tip of sution tube, and ensures smooth operation.

Patent Name: Automatic pulverizing water circulation plasma surgery probe
National Patent No: ZL 201320719080.7

Patent Name: Automatic pulverizing water circulation plasma mucosal resection probe
National Patent No: ZL 201320724859.8



Plasma Surgical Probe For Eye



DXR-E1300-A60

Eye Probe

Indications: Ablation of ocular hemangioma and vascular malformation
Specification:

- ◆ Diameter 1.3mm needle -shaped bipolar or tri-polar tip
- ◆ 30° angle adjustable probe shaft
- ◆ Accurate ablation area of abnormal vessels, obvious tumors shrinkage
- ◆ Postoperative scar-free and quick recovery



DXR-E1600-A60

Eye Probe

Indications: Ablation of ocular hemangioma and vascular malformation
Specification:

- ◆ Diameter 1.6mm needle -shaped bipolar or tri-polar tip
- ◆ 30° angle adjustable probe shaft
- ◆ Accurate ablation area of abnormal vessels, obvious tumors shrinkage
- ◆ Postoperative scar-free and quick recovery

Plasma Surgical Probe For Nose



DXR-E0900-A110

Nasal Mucosa Probe

Indications: Ablation of hypertrophic rhinitis and allergic rhinitis
Specification:

- ◆ Diameter 0.9mm ablation probe, needle-shaped tip
- ◆ Bipolar design, Stage I and Stage II Equal Section Technology, with 30° angle Cone at the tip, can be inserted accurately to sub-mucosa to avoid damage for mucosa



DXR-E1600-A110
DXR-E1300-A110

(Child) Turbinate Probe

Indications: Perforation and ablation of hypertrophic turbinate

Specification:

- ◆ Tri-polar design, nano-insulating material, non-sticking
- ◆ Large ablation area, with insertion scale and operation area mark on the electrode
- ◆ Multifunction of vaporization, ablation, coagulation
- ◆ Inserted to sub-mucosa can protect nasal mucosa tissue



DQG-E3830-A130

Skull Base Probe

Indications: Resection of nasal skull base tumor and nasal polyp

Specification:

- ◆ Unique patented anti-block technology
- ◆ Diameter 3.8mm tip, 130mm length, 30° angled probe shaft
- ◆ Strong frequency coagulation function ensure clear vision and fast coagulation



DZX-E3230-A130
DZX-E3630-A120

Bipolar Suction Probe

Indications: Epistaxis, intraoperative coagulation

Specification:

- ◆ With 3.2mm, 3.6mm large diameter suction hole.
- ◆ Simultaneous coagulation and suction can be carried out to ensure the clear surgery vision



DQG-E3020-A120

Redundant Body Probe

Indications: Nasal polyp, mucosal resection

Specification:

- ◆ 0.4mm cutting electrode, straight or angled type for option, no thermal damage, fast recovery
- ◆ Equivariant section technology, effective and no thermal damage
- ◆ Suction function, smokeless clear vision, fast cutting speed



Bipolar Dripping Hemostatic Forcep

Indications: Epistaxis, intraoperative coagulation

Specification:

- ◆ Forcep tip coated with silver, with dripping structure can avoid tissue adhesion

Pharyngeal plasma surgical probe



DQG-E4630-A130

Tonsil Probe

Indications: Tonsillectomy, coagulation, adenoidectomy, coagulation and other resection

Specification:

- ◆ Unique patented anti-block technology
- ◆ Ceramic tip and big irrigation port
- ◆ 30° angled shaft, diameter 4.6mm or 3.8mm for option



DQG-E4645-A130

Adenoid probe

Indications: Adenoidectomy, coagulation, tonsillectomy, coagulation

Specification:

- ◆ Unique patented anti-block technology
- ◆ Ceramic tip
- ◆ Probe with big irrigation port, 45°angle, low temperature
- ◆ No damage to normal tissues, no blockage of probe, smooth operation



DXR-E1645-A130

Tongue Root Probe

- Indications:** Tongue root volume reduction
- Specification:**
- ◆ Inserted into tongue root along the channel punched for 1.6 to 1.8mm.
 - ◆ Insertion depth can be controlled accurately by marking scale on probe
 - ◆ Ablation/coagulation be performed simultaneously, ranging from 2 - 5*10 mm



DQG-E1600-A130

Soft Palate Probe

- Indications:** Soft palate plasty
- Specification:**
- ◆ Soft insertion probe, easy to cut into inverted V shape
 - ◆ The second and third polar of probe can perform ablation and coagulation simultaneously

Laryngeal Plasma Surgical Probe



DQG-E3830-A250

Larynx Probe

- Indications:** Laryngeal cancer resection, laryngeal papilloma resection
- Specification:**
- ◆ Unique patent blockage prevention technology
 - ◆ Diameter 3.8mm, 250mm length, 30° angled shaft
 - ◆ Super strong frequency coagulation
 - ◆ Fine design probe is easy to reach the narrow part of larynx



DXR-E2720-A250

Laryngoscope Supporting Probe

- Indications:** Laryngeal papilloma ablation, vocal cord leukoplakia, vocal cord polyp ablation, lymphatic follicle ablation
- Specification:**
- ◆ Fastest and safest operation, less injury, less bleeding and quick recovery
 - ◆ Fine design probe is easy to reach the narrow part of larynx, with good controllability



DXR-E1800-A600

Fiber Laryngoscope Probe

- Indications:** Vocal nodules, ablation of vocal cord polyps
- Specification:**
- ◆ Diameter 1.8mm, soft fiber material
 - ◆ Safer and more reliable than traditional laser and other surgical equipment



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Laryngeal Softening Probe

- Indications:** Laryngeal malacia for child
- Specification:**
- ◆ Diameter 0.4mm cutting polar
 - ◆ Accurate operation process, without damage to surrounding tissues, with good controllability

| Plasma Multifunctional Surgical System | | | | Eye | | Nose | | | | | | Pharynx | | | | Larynx | | | | Other | | | | | | | | | | | | | | | | | | | |
|--|----------------|-------------------------------|---------|-------|-----------|----------------------------|---------------------------------------|-------------------|-----------------------|-------------------|-------------------|-----------------------|--|-------------------------|----------------------------|----------------------------|----------------------|-----------------------|-------------------------------|--------------------------------|--|--------------------------------------|--|-------------------------------|--------------------------------|---------------------------|-----------------------------|----------------------------|-------------------------------|-------------------------|---|---------------------------|---------------------------|---------------------------|---------------------------------|--|--|--|--|
| Photo | Model | Name | DI/A mm | Angle | Length mm | Ocular hemangioma ablation | Ocular vascular malformation ablation | Nasal coagulation | Hypertrophic rhinitis | Allergic rhinitis | Nasal polypectomy | Nasal mucosa incision | NIP (nasal inverted papilloma) resection | Nasal angioma resection | Fronae, lymphoma resection | PPP (palatopharyngoplasty) | Soft palate ablation | Tongue root reduction | Tonsil resection, coagulation | Adenoid resection, coagulation | Pharyngeal indirect lymphoma resection | Parapharyngeal space tumor resection | Vocal cord polyp & vocal cord nodules ablation | Vocal cord neoplasm resection | Vocal cord granuloma resection | Glottic stenosis incision | Excision of epiglottic cyst | Laryngocarcinoma resection | Laryngeal papilloma resection | Tongue, tonsil ablation | Sphered Open Surgery for Cyst of the Root of Tongue | Tongue neoplasm resection | Thyroid adenoma resection | Facial neoplasm resection | Suction, hemi-stab in operation | | | | |
| | DXR-E1300-A60 | Eye Probe | 1.3 | 30° | 60 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DXR-E1600-A60 | Eye Probe | 1.6 | 30° | 60 | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DXR-E0900-A110 | Nasal Mucosa Probe | 0.9 | | 110 | | | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DXR-E1300-A110 | (Child) Turbinate Probe | 1.3 | | 110 | | | | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DXR-E1600-A110 | Turbinate Probe | 1.6 | | 110 | | | | • | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DXR-E1645-A130 | Tongue Root Probe | 1.6 | 45° | 130 | | | | | | | | | | | | • | • | | | | | | | | | | | | | | | | | | | | | |
| | DXR-E1800-A600 | Fiber Laryngoscope Probe | 1.8 | | 600 | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | |
| | DXR-E2720-A250 | Laryngoscope Supporting Probe | 2.7 | 20° | 250 | | | | | | | | | | | | | | | | | | • | | | | | | | | | | | | | | | | |
| | DXR-E2420-A110 | Nasal Coagulation Probe | 2.4 | 20° | 110 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DZX-E3230-A130 | Bipolar Suction Probe | 3.2 | 30° | 130 | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DZX-E3630-A120 | Bipolar Suction Probe | 3.6 | 30° | 120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DQG-E3830-A250 | Larynx Probe | 3.8 | 30° | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DQG-E1600-A130 | Soft Palate Probe | 1.6 | | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DQG-E3020-A120 | Redundant Body Probe | 3.0 | 20° | 120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DQG-E3830-A130 | Skull Base Probe | 3.8 | 30° | 130 | | | • | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DQG-E4630-A130 | Tonsil Probe | 4.6 | 30° | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | DQG-E4645-A130 | Adenoid Probe | 5.0 | 45° | 130 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |