Experience the future of surgery

PLASMA SURGICAL
The energy to advance care
The Technology

The advanced technology employed in the PlasmaJet® system is an innovative energy source for use in surgery - it was developed from the plasma engines used to position satellites in space.

The technique of 'Plasma Surgery' uses a pure plasma to provide an electrically neutral energy source that can cut and coagulate tissue with minimal damage to the underlying and adjacent tissue.

While several electrosurgery devices use the word 'plasma' to describe their action - they are essentially variants of conventional electrosurgery devices that use a high voltage and all involve the passage of a current through the tissue. However, the PlasmaJet® system uses a fine electrically neutral beam of pure plasma to cut, coagulate or vaporize soft tissue with no external electrical current.

"PlasmaJet® is a versatile and safe device with a quick learning curve, which can be effective in the treatment of superficial and deeply infiltrative endometriosis. I was looking for something comparable to the CO2 laser and found it with the PlasmaJet®."

Ceana NEZHAT, MD, FACOG, FACS
Fellowship Director, Center for Special Minimally Invasive Surgery & Reproductive Medicine. Vice-Chair, Department of Obstetrics & Gynecology, Northside Hospital, Atlanta.

The secret of Plasma Surgery technology lies in the use of a very small amount of gas. While the particles in plasma have a very high energy level, there are very few emitted in the PlasmaJet® stream.
The System
In the PlasmaJet® system a very low flow (typically around 0.4 l/minute) of argon gas is excited by a low DC voltage applied between internal bipolar electrodes.

The resulting pure plasma is an electrically neutral mixture of argon ions and electrons emerging from the tip of the handpiece in a precise jet stream.

The plasma quickly gives up its energy in the form of light that illuminates the surgical field, heat that is used to coagulate the surface of tissue, and kinetic energy that clears the surgical site of fluid and can be harnessed to vaporize and cut tissue.

The new Ultra mode
In the new Ultra mode of operation, the plasma flow is rapidly pulsed between two pre-set energy levels; oscillating between a very short pulse of high energy and a longer period at a lower energy level.

This rapid pulsing has been determined to provide optimal cutting and coagulation effects.

Tissue effects in Ultra mode
Diagram shows zones of tissue effect with the PlasmaJet® handpiece operating in rapidly pulsed ‘Ultra mode’.

Single-Use Handpieces for the PlasmaJet® System
Handpieces for the PlasmaJet® system are available in a range of models and sizes for specific open and laparoscopic surgical needs.

All are delivered in sterile packs for single use.
PlasmaJet® System - Ordering Information

<table>
<thead>
<tr>
<th>Product No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS10-2030-EN</td>
<td>PlasmaJet® System</td>
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</table>

**Single-Use Handpiece**

<table>
<thead>
<tr>
<th>Product No</th>
<th>Surgery</th>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OS-CG 05-07H</td>
<td>Open</td>
<td>General Cut and Coagulation</td>
<td>5mm Ø, 7cm length</td>
</tr>
<tr>
<td>OS-CG 05-12H</td>
<td>Open</td>
<td>General Cut and Coagulation</td>
<td>5mm Ø, 12cm length</td>
</tr>
<tr>
<td>OS-CP 05-07H</td>
<td>Open</td>
<td>Precision Cut and Coagulation</td>
<td>5mm Ø, 7cm length</td>
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<tr>
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</tr>
<tr>
<td>LS-CG 05-28H</td>
<td>Laparoscopic</td>
<td>General Cut and Coagulation</td>
<td>5mm Ø, 28cm length (Hand/Foot Switch)</td>
</tr>
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For important information on clinical indications for use, precautions and safety information, please refer to the PlasmaJet® System Operator’s Manual.

**PlasmaJet® components**

The PlasmaJet® system consists of a console that is normally mounted on a service trolley (which houses the gas tank) and a range of single-use handpieces for open and laparoscopic surgery.

The console can also be mounted on standard operating room carts or ceiling fixtures.

**Features of the console**

- Simple user interface on a color LCD screen
- Clear visual set-up instructions and an easy to read settings display
- Integrated cooling system that cools the tip of the handpiece at all times
- Footswitch to operate laparoscopic handpieces if preferred.