



THE PULSE OF PRECISION.

THE PRECISION OF A SCALPEL AND THE BLEEDING CONTROL OF TRADITIONAL ELECTROSURGERY WITHOUT THE EXTENSIVE COLLATERAL TISSUE DAMAGE.



The company's flagship product, the PEAK® Surgery System, balances a unique radiofrequency power source—the PULSAR™ Generator—with a series of disposable devices—the PEAK PlasmaBlades™—to address a broad range of surgical applications.

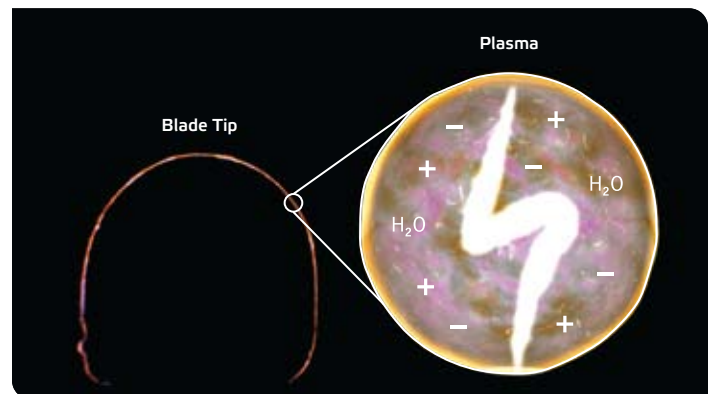


The PEAK Surgery System consists of the PULSAR Generator, optional PULSAR Wireless Footswitch, PULSAR Cart, and PEAK PlasmaBlades.

PEAK Technology Overview

The PEAK Surgery System strikes a unique balance between precision cutting and bleeding control. The System is composed of a novel **Pulsed Plasma Technology** along with a proprietary insulation technology which comes together to enable a surgeon to:

- Cut precisely through any type of tissue—from skin to fat to muscle
- Significantly reduce collateral thermal damage—leaving healthy tissue to heal quickly
- Fine tune the amount of bleeding control to the target tissue—effectively minimizing excess thermal damage
- Utilizes about ½ the amount of energy (watts) than traditional electro-surgery technologies
- Operate at 50% lower temperatures than traditional electro-surgery technologies
- Maintain superior performance in both a wet and dry field

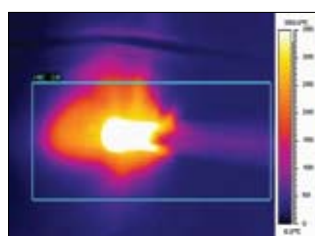


Plasma discharge along the exposed active electrode edge. Device tip is 99.5% insulated.

Plasma acts as a conductive medium to allow energy to interact with the target tissue at much lower power levels.



PEAK Avg temp 40 - 50 C



Electrosurgery Avg temp 250 - 350 C

What is plasma?

Plasma is an electrically conductive cloud or gas that is created when the RF energy contacts the tissue. It is made up of water vapor and charged particles called ions (positive and negative charges) from the breakdown of the tissue. This conductive cloud or “plasma” allows the energy to cross at lower energy levels. This use of lower energy via a plasma leads to lower operating temperatures and therefore less thermal damage.

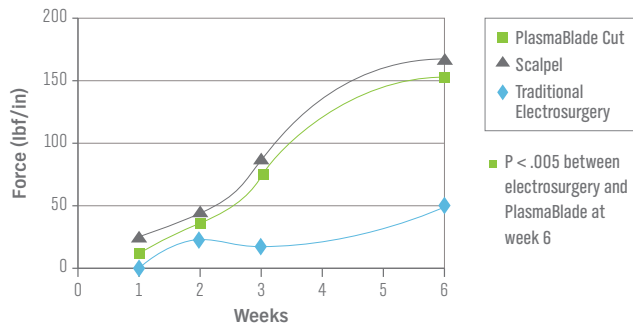
PlasmaBlade Demonstrates Faster, Stronger Healing in Preclinical Studies

In preclinical study data presented at the **American College of Surgeons Annual Clinical Meeting** in October, 2007,¹ the PlasmaBlade showed:

- 60% less bleeding than a scalpel, with no increase in collateral damage
- 75% less thermal damage than traditional electrosurgery
- Positive wound healing profile similar to the cold scalpel
- Stronger surgical incision wound healing
- Reduced inflammatory reaction
- Reduced scarring
- 66% less force needed to cut tissue
- Increased cutting speed and precision
- Little to no surgical smoke in the Cut mode

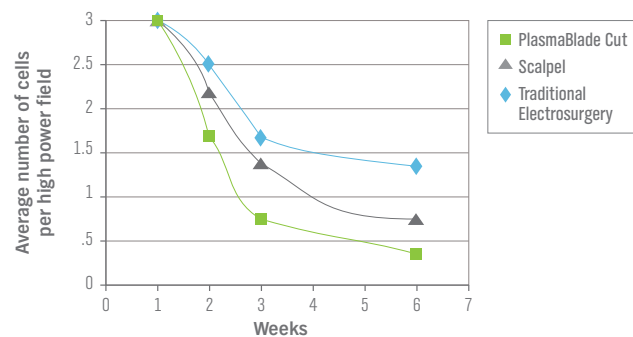
Skin Healing Study

Wound Pull Strength



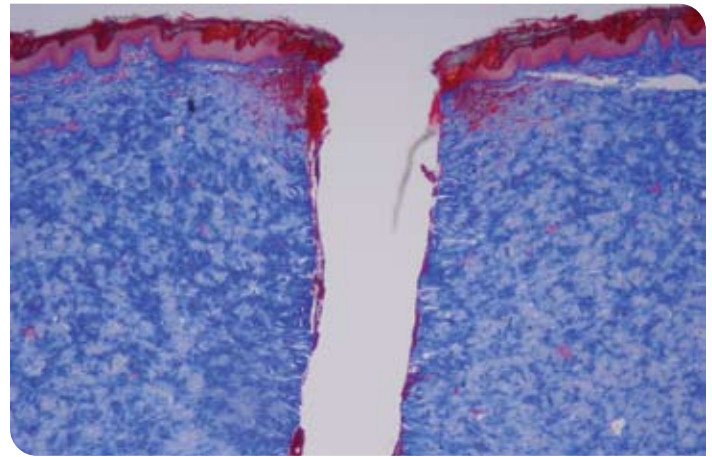
Skin Healing Study

Inflammatory Response

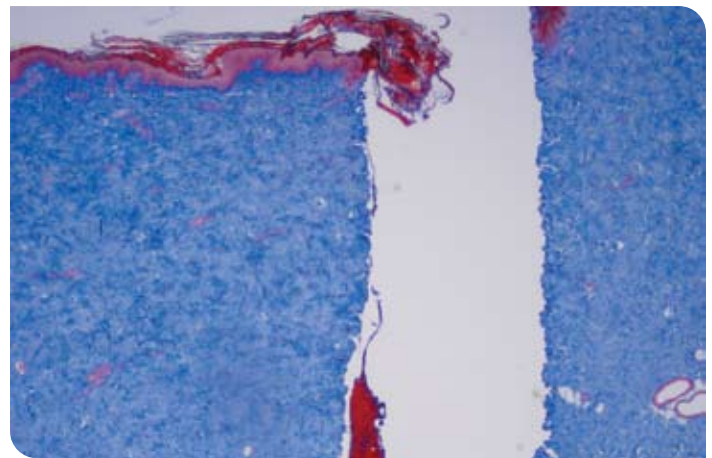


The Fascia Healing Study² showed the PlasmaBlade to have:

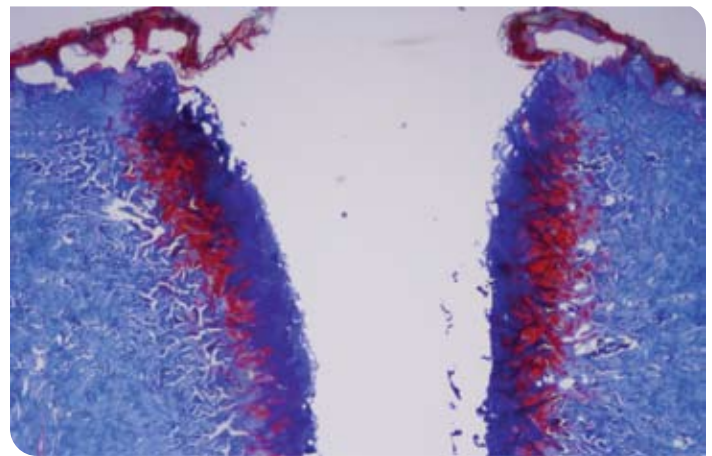
- Similar incision healing to the scalpel
- Significantly stronger incision healing than traditional electrosurgery at week 1
- Reduced inflammation compared to traditional electrosurgery



Scalpel



PlasmaBlade



Traditional Electrosurgery

The PEAK PlasmaBlade...

**Precision. Bleeding control.
Minimal thermal damage.**

¹ SA Loh, GA Carlson, E Huang, KL Duncan, GC Gurtner. Comparative healing of surgical incisions created by standard electrosurgery, PEAK PlasmaBlade, and standard scalpel blade. J Am Coll Surg 2007 (Suppl);207:S54.

² Data on file at PEAK Surgical, Inc.

The PEAK PlasmaBlade Family



The PULSAR Generator features:

- "Plug-n-play" user-friendly interface
- Simple 1 to 10 numeric set points
- Dual output control - Power & Voltage
- 460 KHz to 4 MHz operating frequency
- 350 to 4500 Volts
- 0.5 to 50 Watts
- Tissue impedance feedback and auto-adjust
- Patient Return Electrode (pad) connection sensing

CUT	SET POINT	COAG
<ul style="list-style-type: none"> • 60% less bleeding than a scalpel • Equivalent residual tissue damage to the scalpel's mechanical crush zone • 75 to 90% less thermal damage than traditional electrocautery 	1	<ul style="list-style-type: none"> • Equivalent hemostasis to traditional electrocautery • 50% less thermal damage compared to traditional electrocautery
	2	
	3	
	4	
	5	
<ul style="list-style-type: none"> • Equivalent simultaneous hemostasis to traditional electrocautery • 50% less thermal damage 	6	
	7	
	8	
	9	
	10	

PRODUCT	CATALOGUE NUMBER	DESCRIPTION
PEAK PlasmaBlade 4.0	PS200-040	4.0mm wide spatula tip
PEAK PlasmaBlade Needle	PS200-001	Ultra-fine needle point tip
PEAK PlasmaBlade EXT	PS215-040	15cm extended shaft, 4.0mm spatula tip
PULSAR Generator	PS100-100	
PULSAR Wireless Footswitch	PS100-200	
PULSAR Cart	PS100-300	

For more information or to schedule a demonstration, please contact **PEAK Surgical Customer Service at 888-792-PEAK** or visit www.peaksurgical.com

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