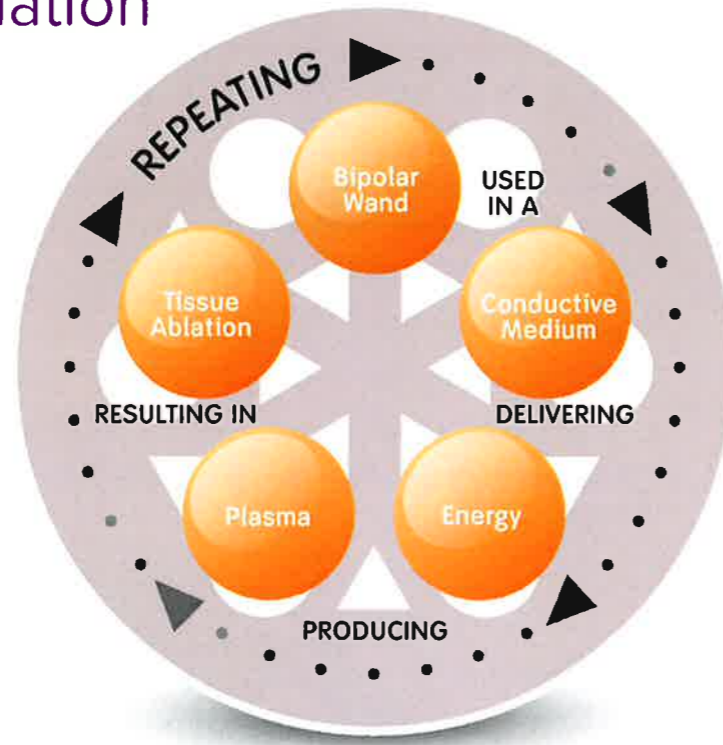


# The Science of Coblation

Coblation technology is a controlled, non-heat driven process which uses energy (current) to excite electrolytes in a conductive medium to create a precisely focused plasma.

The plasma's energised particles have sufficient energy to break molecular bonds within tissue, causing tissue breakdown at relatively low temperatures.

The result is volumetric removal of target tissue with minimal damage to surrounding tissue.



## The COBLATION effect



### The **Performance** you want

A unique combination of waveform and frequency designed to deliver optimum performance throughout the knee "The efficient tissue ablation and precise haemostasis achieved with Coblation result in a significant reduction in operative time and costs\*1"



### The **Precision** you need

Precision designed to meet the varied anatomic needs of the knee. The 100µm - 200µm plasma field removes target tissue with less than 150µm of damage to residual articular cartilage

"Coblation technology enables the precise, well controlled ablation of soft tissue that results in smoother, more anatomic surfaces than those produced by conventional monopolar diathermy or mechanical shaver." 1.



### The **Protection** you get

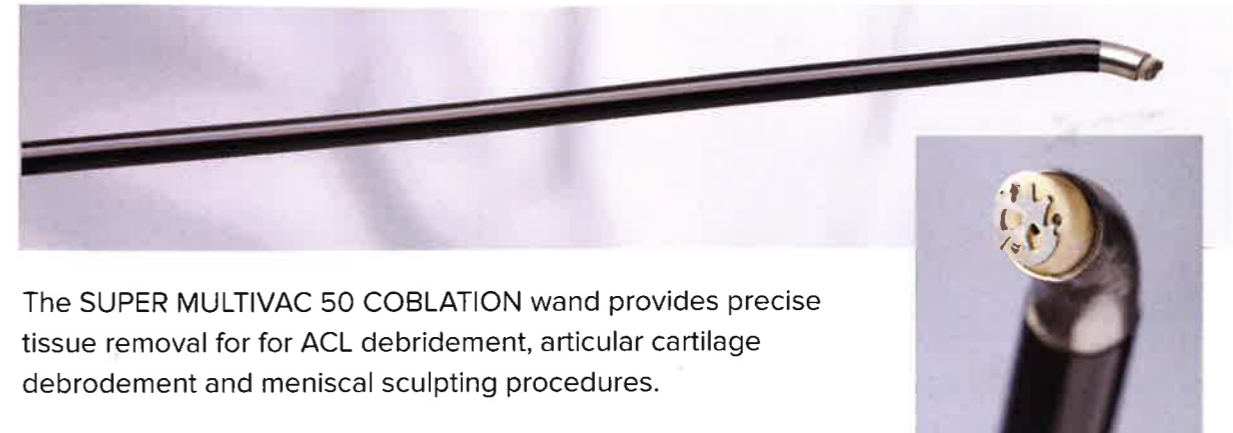
Combining Performance and Precision with our Ambient technology and proprietary features to deliver Protection to you and your patient

"Trying to ensure the safest possible patient care is as old as medicine itself. 'First do no harm' is one of the core principles of medical practice." 2.

"Coblation [is] also associated with a high level of ablative precision and control, the creation of smoother anatomical surfaces and the prevention of thermal injury to surrounding tissues." 1.

# Premium COBLATION Wand

## SUPER MULTIVAC™ 50



The SUPER MULTIVAC 50 COBLATION wand provides precise tissue removal for ACL debridement, articular cartilage debridement and meniscal sculpting procedures.

## Features

### Ambient Technology

Smith & Nephew is the only arthroscopic system that offers real-time temperature monitoring of the intra-articular fluid.

### Controller Output

Smith & Nephew Controllers use a unique RF output which allows them to deliver the correct amount of power to create plasma.

Energy delivery is optimized to provide fast and effective plasma formation while minimizing the dissipation of thermal energy in the joint.

### Unique Waveform

Smith & Nephew Controllers use a unique waveform that delivers fast ablation speed.

The waveform has a sharp leading edge that requires less time to generate plasma and therefore allows more time for active ablation.

### Scope Safety Feature

Smith & Nephew Controllers include proprietary circuits that continuously monitor the energy and automatically suspend the output when there is a spike in current, such as when the Wands are in close proximity to or in contact with metal.

## Ambient Technology



The Ambient Super MultiVac 50 device provides accurate real-time temperature monitoring of the intra-articular fluid.

The temperature of the fluid is continuously displayed on the LCD screen of the Controller. When the temperature within the joint space exceeds the user selected set point, visual and audible alarms will emit from the Controller, providing direct

# COBLATION - One Knee Multiple Solutions

## ACL resection



- A** Sculpting and contouring of meniscal tears back to a smooth stable base.

## Meniscal debridement

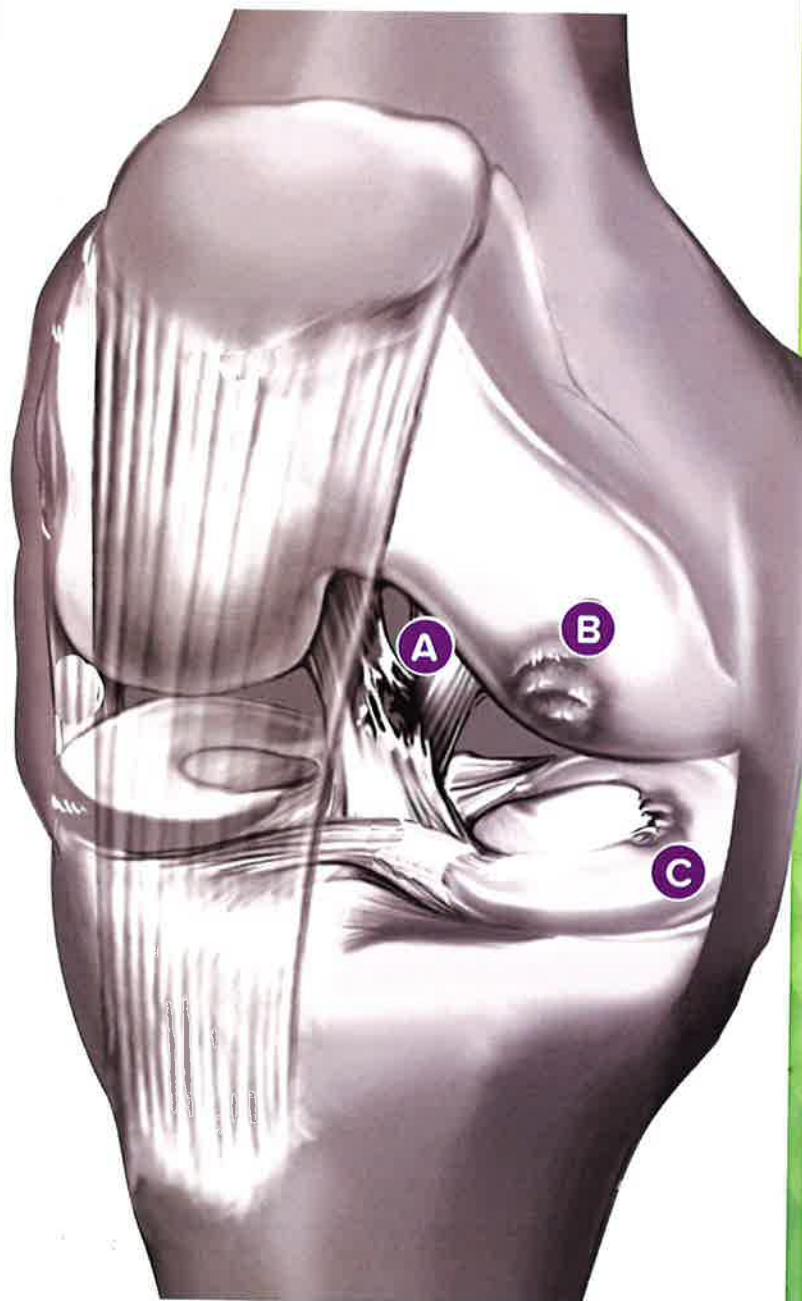


- B** Rapid and accurate delineation of native ACL attachment

## Chondroplasty



- C** Removes fissures and fibrillations producing a stable base and rim





**The only choice for a total knee solution**