



## Advancing laryngeal surgery

Precise tissue removal with a low thermal profile

 **smith&nephew**  
**COBLATION<sup>®</sup>**  
**PROCISE<sup>®</sup> LW**  
**AND MLW**  
Laryngeal Wands

# Advancing laryngeal surgery

## Versatility

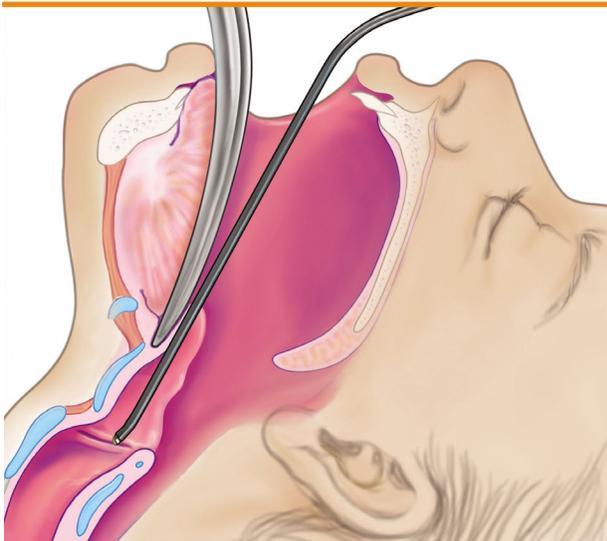
The PROCISE® laryngeal Wand portfolio provides the ability to efficiently debulk large or small polyps and lesions with pinpoint accuracy while preserving delicate laryngeal anatomy.

## Reduced risk of airway fire

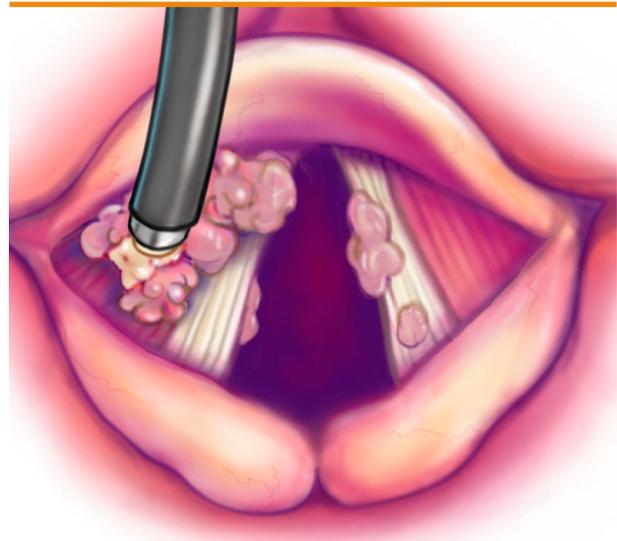
Recent studies about airway fires suggest that under normal operating circumstances, using COBLATION® plasma technology in place of traditional electrosurgical or laser devices can significantly reduce the risk of igniting airway fire.<sup>1,2,3</sup>

## Cost effective

COBLATION technology's all-in-one platform allows for fast setup and quick procedures, leading to greater operating room efficiencies.



Angled shaft allows for optimal access to the larynx and trachea



Pinpoint debulking of laryngeal lesion

# PROCISE<sup>◇</sup> MLW laryngeal Wand

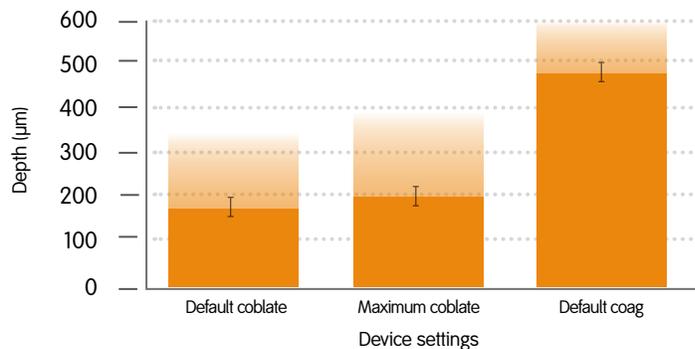
The PROCISE MLW laryngeal Wand is designed for precise, controlled removal of laryngeal lesions. Its ultra-slim, extended Wand shaft provides access to the trachea and makes it well suited for operating on small anatomy.

The PROCISE MLW Wand offers

- Single-wire electrode to provide “pinpoint” precision for lesion removal near delicate patient anatomy in laryngeal and tracheal procedures
- Extended length and ultra-slim Wand shaft for improved access to subglottic anatomy (19cm working length) and increased visualization of surgical field



## Thermal effect<sup>4</sup>



Lower depth of thermal penetration minimizes damage to surrounding healthy tissue

- Default coblate - 160µm
- Maximum coblate - 178µm
- Default coag - 469µm



# PROCISE<sup>◇</sup> LW laryngeal Wand

The PROCISE LW laryngeal Wand can be an ideal tool for controlled removal of bulky lesions. With its malleable Wand shaft, the PROCISE LW Wand offers versatility in surgical approach.

The PROCISE LW Wand offers

- Screen electrode to swiftly debulk targeted tissue during laryngeal surgical procedures
- Malleable Wand shaft to adapt to surgical preference and patient anatomy

## Efficient lesion removal

Before COBLATION<sup>®</sup> technology treatment



After COBLATION technology treatment

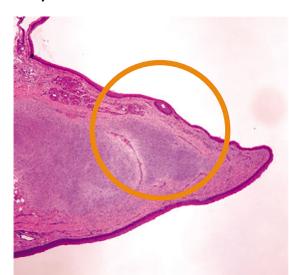


## Histological evidence<sup>5</sup>

Default COBLATE setting, Day 3



Default COBLATE setting, Day 21



At Day 21, all vocal-fold lesions were 100% epithelialized in canine model. Gross appearance of vocal-fold lesions was fully healed with no exudates present.

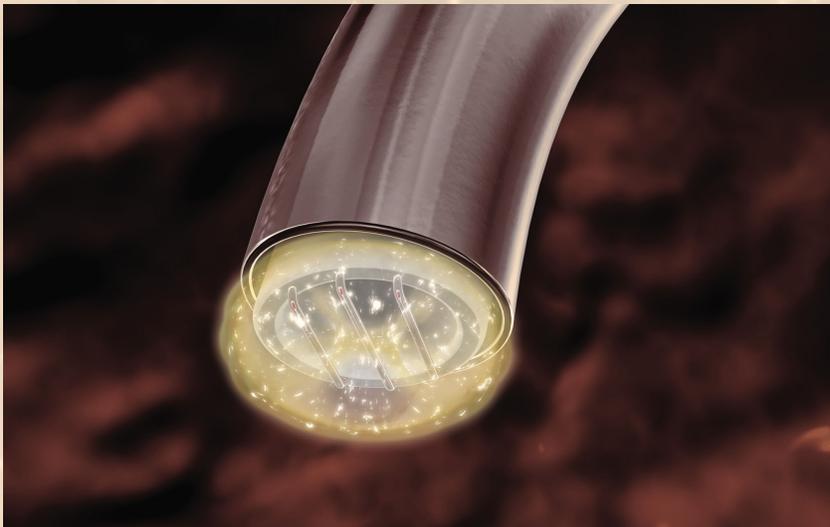
# COBLATION<sup>®</sup> plasma technology

The term COBLATION means “controlled ablation.” To date, over 12 million procedures have been successfully performed utilizing COBLATION plasma technology to ablate and coagulate tissue.

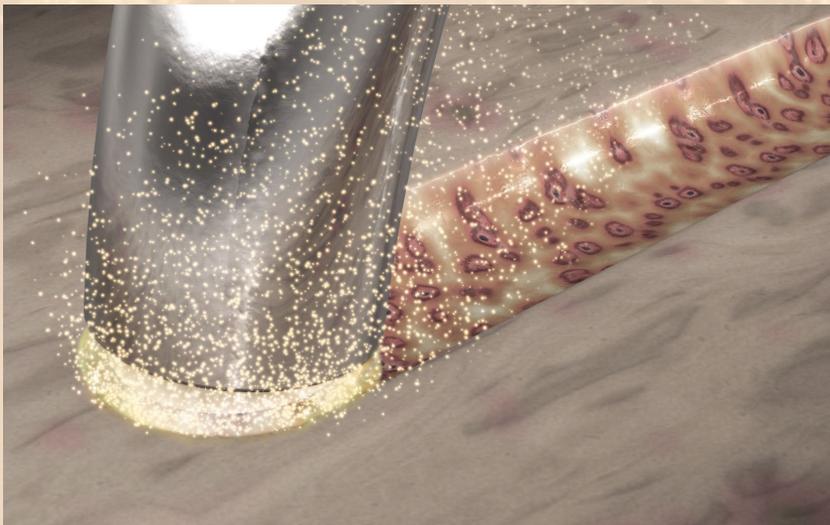
COBLATION plasma technology involves the creation and application of a high-energy field called “glow discharge plasma.” This plasma ablates tissue through a chemical process as highly energized particles in the plasma break down molecules in the tissue. COBLATION technology provides two distinct advantages to the surgeon:

- COBLATION technology operates at lower temperatures than other RF based technologies
- The 100µm – 200µm plasma field (about the size of a human hair) allows for precise removal of soft tissue with minimal thermal damage to untargeted tissue

## Plasma field formation



## COBLATION plasma technology on soft tissue



## References

- 1 **Smith LP, Roy S.** Operating room fires in otolaryngology; risk factors and prevention. Am J Otolaryngol. Article in press (Epub 2010 Apr 14).
- 2 **Roy S, Smith LP.** Device-related risk of fire in oropharyngeal surgery: a mechanical model. Am J Otolaryngol. 2010 Sept; 31(5):356-359. This article references preclinical non-human data. As such, results may not necessarily be the same in human procedures.
- 3 **Matt BH, Coffee LA.** Reducing risk of fire in the operating room using COBLATION® technology. Otolaryngol Head Neck Surg. 2010 Sept; 143(3):454-5
- 4 Whitepaper - Performance Comparison of the PROCISE Mini Laryngeal Wand (MLW), CO2 Laser, and Microdebrider: A Preclinical Canine Study. (PN 42279A)
- 5 Data based on tongue tissue in animal model; results may not be the same in humans. Data on file – report # 35764-01.

## Ordering information

### PROCISE® LW and PROCISE MLW

Reference #	Description
EICA7070-01	PROCISE LW
EICA7071-01	PROCISE MLW
EC8000-01	COBLATOR® II CONTROLLER

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