

# CREATING FLAPS WITH THE LENSX<sup>®</sup> LASER



The Complete Cataract Refractive Experience

# The Complete Anterior Workstation

With a platform specifically designed for growth, the LenSx® Laser now offers surgeons greater flexibility — from cataract refractive surgery to customized flap creation.

With precise flap capabilities, the LenSx® Laser provides:

- Increased surgical options to fit patient needs
- A blade-free option for laser refractive procedures

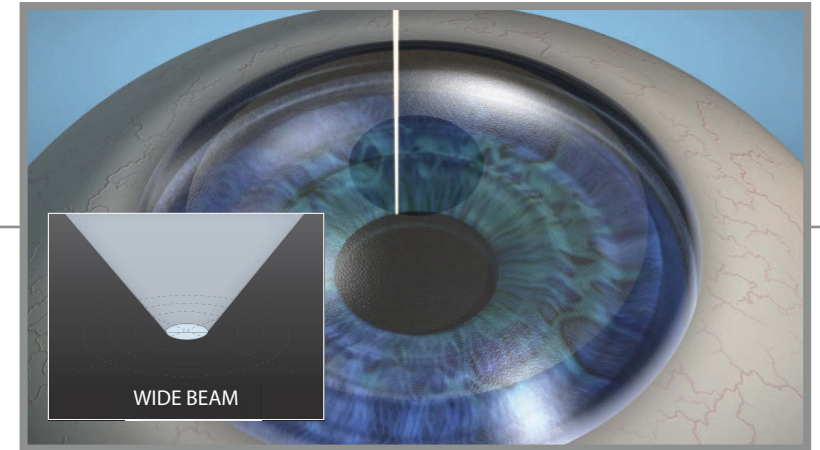


# Enhanced for Flaps

The proprietary Variable Numerical Aperture design allows the LenSx® Laser to create smooth stromal beds with smooth flap edges.

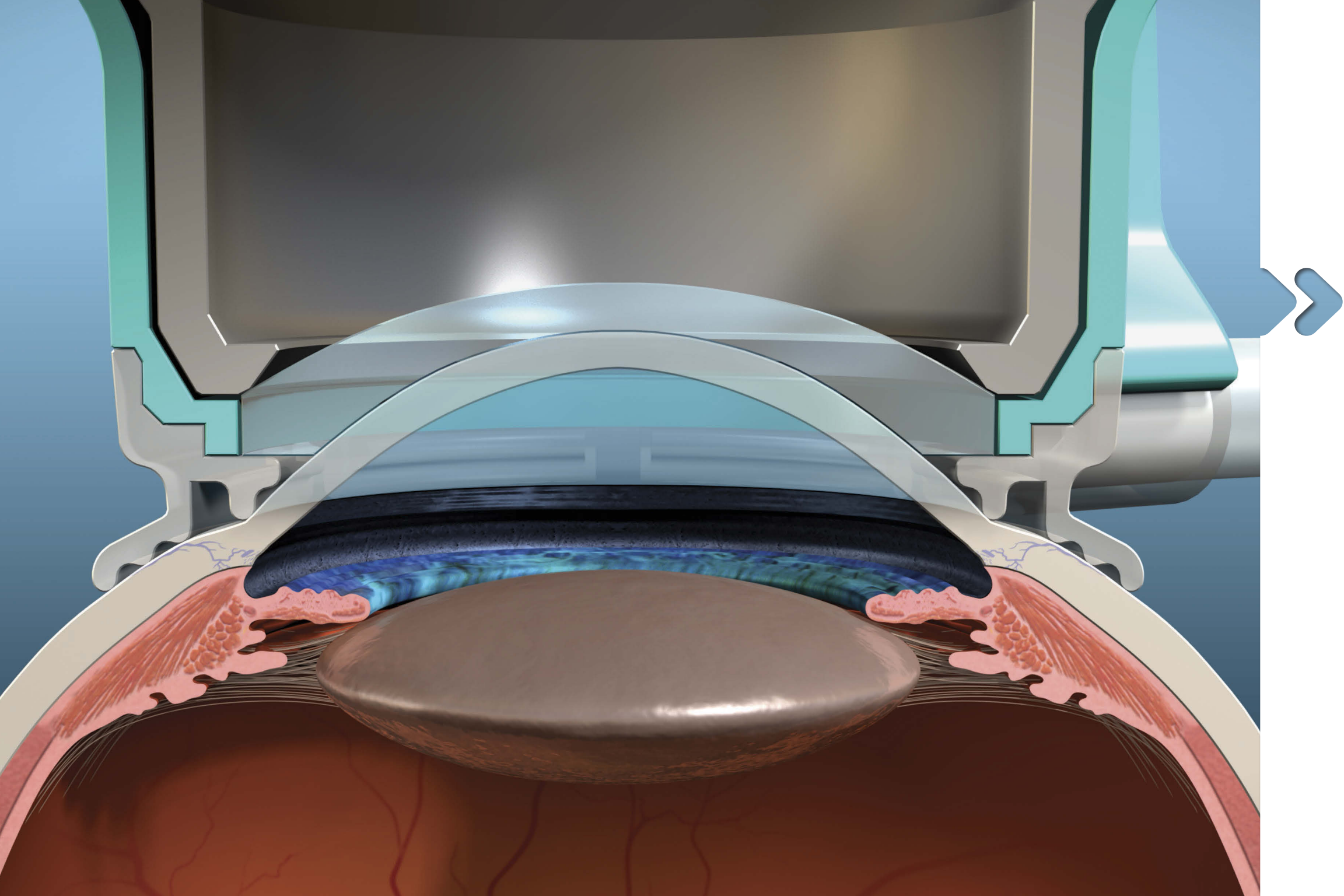
## **The enhanced LenSx® Laser:**

- Creates a laser flap in 15 seconds or less<sup>\*,1</sup>
- Enables a total procedure time of typically one minute or less<sup>1</sup>



*Optimized beam size and shape for flap creation*

<sup>\*</sup>Typical time for a 9.0 mm diameter flap with 500  $\mu$ m horizontal overlap without decentration. Time may vary depending on laser settings.



# LenSx<sup>®</sup> Laser Patient Interface for Flaps

The LenSx<sup>®</sup> Laser utilizes a simple, one-piece patient interface that applies a mild suction to hold the eye and deliver the laser treatment.

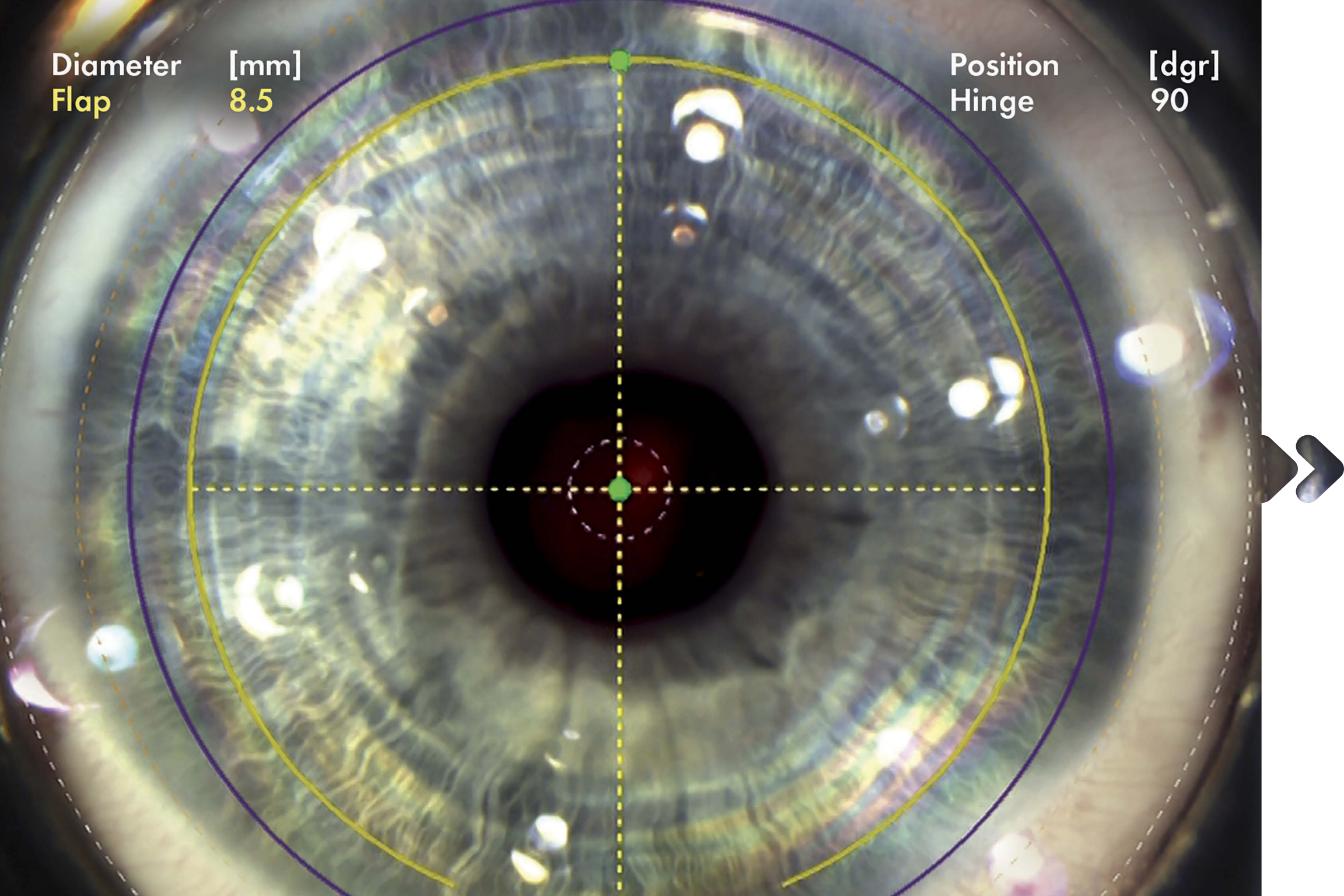
- Uses a solid, curved interface to more closely mimic the natural curvature of the eye
- Helps maintain low intraocular pressure during the procedure (30 mmHg over baseline)
- Enables quick and efficient patient docking





Diameter  
Flap [mm]  
8.5

Position  
Hinge [dgr]  
90



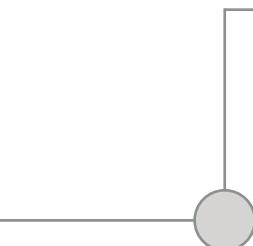
# Customized Flap Creation

Featuring a wide range of flap capabilities, the LenSx® Laser helps surgeons create the right flap for their patients:

- Surgeon-selectable flap location, hinge and side-cut parameters
- Full adjustability of flap centration and diameter, even after suction has been applied
- Quickly and easily shift from cataract to flap procedures at the touch of a button



# LenSx<sup>®</sup> Laser Flap Parameters



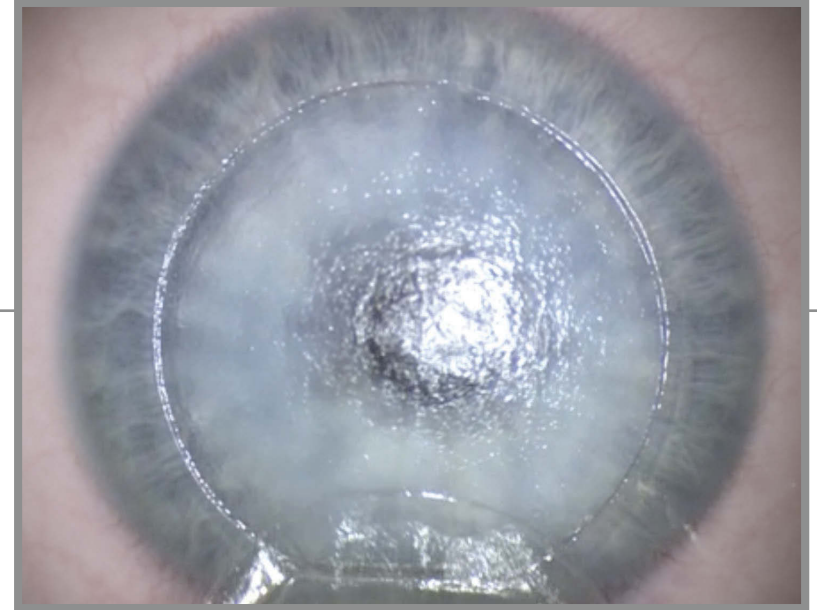
Feature		Min	Max
Flap Thickness	[μm]	110	190
Flap Diameter	[mm]	8.5	9.5
Hinge Angle	[deg]	30	90
Hinge Position	[deg]	0	360
Side Cut Angles	[deg]	60	110



# The LenSx<sup>®</sup> Laser Flap Advantage

The LenSx<sup>®</sup> Laser provides precise control to create accurate corneal flaps:

- Creates a uniform bubble layer for easier lifting of the flap
- Delivers consistent flap thickness and smooth edges
- Provides variable side-cut angles for enhanced surgical versatility
- Proprietary technology designed to minimize the appearance of an Opaque Bubble Layer (OBL)



Completed flap using the LenSx<sup>®</sup> Laser.  
Image courtesy of Dr. Stephen Slade, M.D.

#### LENSX® LASER IMPORTANT PRODUCT INFORMATION FOR CATARACT AND CORNEAL FLAP TREATMENTS

**CAUTION:** United States Federal Law restricts this device to sale and use by or on the order of a physician or licensed eye care practitioner. **INDICATION: Cataract Surgery Indication:** The LenSx® Laser is indicated for use in patients undergoing cataract surgery for removal of the crystalline lens. Intended uses in cataract surgery include anterior capsulotomy, phacofragmentation, and the creation of single plane and multi-plane arc cuts/incisions in the cornea, each of which may be performed either individually or consecutively during the same procedure. **Corneal Flap Indication:** The LenSx® Laser is indicated for use in the creation of a corneal flap in patients undergoing LASIK surgery or other treatment requiring initial lamellar resection of the cornea. **RESTRICTIONS:** Patients must be able to lie flat and motionless in a supine position. Patient must be able to understand and give an informed consent. Patients must be able to tolerate local or topical anesthesia. Patients with elevated IOP should use topical steroids only under close medical supervision. **CONTRAINDICATIONS: Cataract Surgery Contraindications:** Corneal disease that precludes applanation of the cornea or transmission of laser light at 1030 nm wavelength; descemetocele with impending corneal rupture; presence of blood or other material in the anterior chamber; poorly dilating pupil, such that the iris is not peripheral to the intended diameter for the capsulotomy; conditions which would cause inadequate clearance between the intended capsulotomy depth and the endothelium (applicable to capsulotomy only); previous corneal incisions that might provide a potential space into which the gas produced by the procedure can escape; corneal thickness requirements that are beyond the range of the system; corneal opacity that would interfere with the laser beam; hypotony, glaucoma\* or the presence of a corneal implant; residual, recurrent, active ocular or eyelid disease, including any corneal abnormality (for example, recurrent corneal erosion, severe basement membrane disease); history of lens or zonular instability; any contraindication to cataract or keratoplasty; this device is not intended for use in pediatric surgery.

**Corneal Flap Contraindications:** Corneal lesions, corneal edema, hypotony, glaucoma, existing corneal implant, keratoconus. This device is not intended for use in pediatric surgery.

**WARNINGS:** The LenSx® Laser System should only be operated by a physician trained in its use. The LenSx® Laser delivery system employs one sterile disposable Patient Interface consisting of an applanation lens and suction ring. The Patient Interface is intended for single use only. The disposables used in conjunction with ALCON® instrument products constitute a complete surgical system. Use of disposables other than those manufactured by Alcon may affect system performance and create potential hazards. The physician should base patient selection criteria on professional experience, published literature, and educational courses. Adult patients should be scheduled to undergo cataract extraction.

**PRECAUTIONS:** Do not use cell phones or pagers of any kind in the same room as the LenSx® Laser. Discard used Patient Interfaces as medical waste.

**COMPLICATIONS: Cataract Surgery AEs/Complications:** Capsulotomy, phacofragmentation, or cut or incision decentration; incomplete or interrupted capsulotomy, fragmentation, or corneal incision procedure; capsular tear; corneal abrasion or defect; pain; infection; bleeding; damage to intraocular structures; anterior chamber fluid leakage, anterior chamber collapse; elevated pressure to the eye. **Corneal Flap AEs/Complications:** Corneal edema, corneal pain, epithelial in-growth, epithelial defect, infection, flap decentration, incomplete flap creation, flap tearing or incomplete lift-off, free cap. **ATTENTION:** Refer to the LenSx® Laser Operator's Manual for a complete listing of indications, warnings and precautions.

\*Glaucoma is not a contraindication when these procedures are performed using the LenSx® Laser SoftFit™ Patient Interface Accessory.

1. Alcon data on file.

To see how the LenSx® Laser offers greater options for your practice and your patients, including flaps, talk to your local Alcon representative.

