Introducing the Alcon LenSx® Laser

Putting the Future in Motion

With the Alcon LenSx® Laser, Cataract Surgery will change in a femtosecond.

Laser Assisted Cataract Surgery Has Arrived

Designed to deliver the precision of a femtosecond laser to Cataract Surgery, the Alcon LenSx® Laser is Putting the Future in Motion:

- Automates some of the more challenging aspects of traditional cataract surgery[1]
- Provides image-guided surgeon control to perform capsulotomy, lens fragmentation and corneal incisions with increased accuracy[1]
- Offers a truly premium laser experience for Laser Assisted Cataract Surgery patients[1]

Customised Precision

Bringing a new level of customisation to cataract surgery, the Alcon LenSx® Laser allows the surgeon to confirm all surgical parameters and quickly and easily make any required adjustments before proceeding with the laser treatment:[1]

- Size and location of the capsulotomy[1]
- Lens fragmentation pattern, shape and location[1]
- Size, location and shape of all arcuate cuts/corneal incisions including:
  - Single and multiple-plane incisions[1]
  - Full and partial thickness incisions[1]

A Closer Look at a Breakthrough Innovation

Alcon's LenSx® Laser, the first femtosecond laser approved for use in cataract surgery, represents a breakthrough for Ophthalmologists in the treatment of Cataract.

Now, some of the more challenging, manually executed steps can be accurately and predictably performed with computer-guided precision and reproducibility.[1]

Advanced Imaging

With the Alcon LenSx® Laser, surgeons can monitor the entire anterior segment throughout the procedure[1] using:

- A high-resolution video microscope for real-time imaging
- An integrated, large-range Optical Coherence Tomographer (OCT) for three-dimensional visualisation

Image-Guided Planning

The Alcon LenSx® Laser allows the surgeon to precisely program key surgical steps:[1]

- Scans of the anterior capsule are efficiently captured and presented for precise placement of the anterior capsulotomy
- Next, the surgeon programs the precise location and shape of the fragmentation pattern with OCT visualisation of the entire lens thickness
- Finally, corneal OCT images are used to program precise single or multiple-plane arcuate cuts/incisions at the required corneal thickness

Anterior Capsulotomy Diameter

Anterior capsulotomy size has been shown to impact the effective lens position post-operatively,[2] a key parameter in IOL power calculations.[3] Anterior capsulotomy with the Alcon LenSx® Laser provides accurate and reproducible capsulotomy diameters not routinely achievable with manual techniques.[1]

Femtosecond Laser Corneal Incisions

Incisions with the Alcon LenSx® Laser provide accurate and reproducible corneal incisions with the flexibility you require. This allows the surgeon to customize incision width and architecture for enhanced surgical performance.[1]

Femtosecond Lens Fragmentation

With OCT guided precision the lens is divided by the LenSx® laser prior to cataract removal, reducing energy and fluid use resulting in a gentler procedure with potentially less damage to the delicate inner lining of the cornea.[1]

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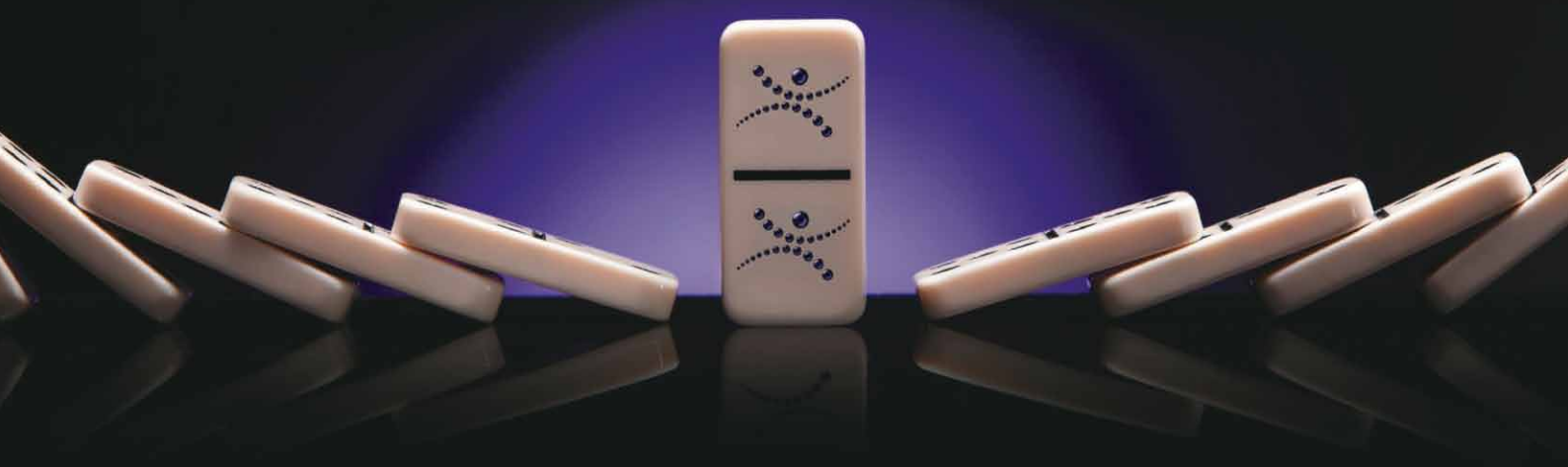
The next era of innovation is now in motion – an era that will lead to further advancements in technology and techniques surgeons can use for the benefit of their patients. Alcon's LenSx® Laser is Putting the Future in Motion.

To learn more about LenSx® technology and other Alcon innovations for Laser Assisted Cataract Surgery, visit www.lensxlasers.com.



1. Data on file.
2. Cekiç O, Batman C. The relationship between capsulorhexis size and anterior chamber depth relation. *Ophthalmic Surg Lasers*. 1999;30(3):185-90. Erratum in: *Ophthalmic Surg Lasers*. 1999;30(9):714.
3. Norrby S. Sources of error in intraocular lens power calculation. *J Cataract Refract Surg*. 2008;34(3):368-76.

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