# CAPTURE THE ESSENCE OF YOUR PATIENTS EVERYONE'S EYES ARE UNIQUE





# Akreos<sup>®</sup> AO Platform

Aspheric intraocular lenses (IOLs) Aberration free with ADVANCED OPTICS (AO) Technology





Akreos®AO

Akreos <sup>®</sup>AO MICS



## Available in 2 models

### Benefits of the Akreos<sup>®</sup> IOLs with Advanced Optics (AO) Technology

- Thanks to the design of their optic, they do not introduce higher-order aberrations to provide a better quality of vision<sup>1.2</sup>
- Uniform power from the center to the periphery of the optic, for a predictable visual outcome in all patients regardless of the shape of the cornea, size and center of the pupil or the capsular bag
- They maintain the natural positive spherical aberration of the cornea, which may result in a greater depth of field compared with aberration correcting IOLs<sup>3</sup>





1.Santhiago MR, et al. Wavefront analysis, contrast sensitivity, and depth of focus after cataract surgery with aspherical intraocular lens implantation. Am J Ophthalmol. 2010 Mar;149(3):383-9.e1-2.

2. Shentu X, Tang X, Yao K. Exp Ophthalmol. 2008 Oct;36(7):620-4.

3. Johansson B, Sundelin S, Wikberg-Matsson A, Unsbo P, Behndig A. Visual and optical performance of the Akreos Adapt Advanced Optics and Tecnis Z9000 intraocular lenses: Swedish multicentre study. J Cataract Refract Surg. 2007. Sep;33(9):1565-72.





# **ABERRATION-FREE** IOLs

# 1.8 mm MICS\*



The Akreos<sup>®</sup> AO MICS and Akreos<sup>®</sup> AO lenses are crafted from an acrylic hydrophilic material that makes it optimal for today's micro incision cataract surgery requirements. The lenses can be easily compressed to fit through a 1.8 mm incision; it unfolds smoothly once implanted into the eye and recovers its initial shape without damage.

# Proven performance -The Akreos<sup>®</sup> lens material has been successfully implanted in over 8.8 million eyes -Physicians have been implanting the Akreos<sup>®</sup> lens material since 1998 -Moderate refractive index, with an inherently low surface reflectivity for the reduction of glare and its adverse effects<sup>17</sup>

\*MICS: Microincision Cataract Surgery / \*\*PCO: Posterior capsule opacification 17. Erie, Jay C MDa,\*; Bandhauer, Mark Hb,1; McLaren, Jay W PhDa Analysis of postoperative glare and intraocular lens design, Journal of Cataract & Refractive Surgery: April 2001 - Volume 27 - Issue 4 - p 614-621.





# PRELOADED INJECTION

The Akreos<sup>®</sup> AO model is available in a preloaded version with the BAUSCH + LOMB SimplifEYE<sup>™</sup> delivery system.

- Less risks of IOL damage, cross-contamination and mishandling<sup>22</sup>
- It is thought that during the next several years, use of preloaded disposable injectors is expected to grow and may well represent the industry's future<sup>23</sup>







22. Chung B, Lee H, Choi M, Seo KY, Kim EK, Kim TI. Preloaded and non-preloaded intraocular lens delivery system and characteristics: human and porcine eyes trial. Int J Ophthalmol 2018;11(1):6-11 23. Marketscope 2019









## Loading Instructions

Akreos<sup>®</sup> AO preloaded with the Bausch + Lomb SimplifEYE<sup>™</sup> delivery system



Open the box and remove the inserter and IOL pouch. Open the peel pouch to take out the IOL vial. Peel the tyvek lid and remove the inserter from the tray.



Ensure that the plunger is fully retracted by pulling it to the back of the inserter, placing the safety bump into the safety notch in the safety lock position and feeling the click. Ensure the cartridge tip is fully forward by pushing it forward. The inserter is now ready for assembly with the lens shuttle.



Remove the lid from the vial by peeling it away from you. Ensure that the U-channel (highlighted in red) in the vial is facing towards you. Using your thumb and index finger, remove the lens shuttle from the vial.





Grasp the inserter body with one hand and the shuttle with the other hand. Ensure that the shuttle tail is facing toward the plunger end of the inserter and the four legs of the shuttle are centered to the inserter body side walls. Insert the shuttle straight down until you hear an audible "click". Visually confirm that the shuttle is sitting flush with the inserter body on both sides and that the top of the shuttle is horizontal.

# 5 Viscoport Centre tab

Press and hold down the centre tab on the top of the lens shuttle with the tip of the thumb finger while applying viscoelastic\* into the viscoport of the cartridge. Visually verify that the viscoelastic has travelled to the mark shown in the upper image.



add a drop of viscoelastic\* to the soft tip or easy entry into the shuttle.



While holding the inserter body with one hand, lightly advance the plunger some millimeters with he other hand to gently disengage the safety otch on the plunger. Continue to slowly advance he plunger until the plunger tip reaches the lens.



Continue to advance the plunger until the lens is in the conical section of the cartridge tip, as shown in the image. The lens is in now in the hands-off position for implantation. At the beginning of the delivery, if the lens starts to unfold upside down, slightly turn out the inserter tip counter-clock wise to easily redirect the IOL in the appropriate position with its orientation features top-right/bottom-left.

MPORTANT: If the shuttle is assembled correctly it should eel secure and will be unable for removal from the nserter.

#### ECOMMENDATIONS:

- To facilitate the shuttle loading, dry your wet thumb and index finger after removing the lens shuttle from the vial.
  When assembling the shuttle on the inserter, you can also rest the inserter on a sterile surface to make it easier to
- apply the pressure for locking the shuttle into position.

## Loading Instructions

Akreos<sup>®</sup> AO preloaded with the Bausch + Lomb SimplifEYE<sup>™</sup> delivery system







**Correct orientation of shuttle** 



Incorrect orientation of shuttle

Correct





WARNING: Do not roll or tilt the shuttle while attaching to the inserter





WARNING: Incorrect alignment of the shuttle because it is not horizontal to the inserter the body and could cause damage to the lens when plunger is advanced. To correct this: Push the shuttle down until it is horizontal.





# IOL WITH ADVANCED OPTICS (AO) TECHNOLOGY

Akreos<sup>®</sup> AO MICS Advanced Optics Micro Incision Lens

Ref MI60Pxxxx

#### MATERIAL

Hydrophilic acrylic 26 % water content UV Filter Refractive index: 1.46

#### DESIGN

Monofocal aberration-free aspheric optic 360° posterior square edge Haptic angulation 10° One-piece IOL with four-point fixation Orientation features to indicate the anterior side (top right and bottom left)

#### **OPTIC DIAMETER**

6.2 mm: 0.00 D to +15.00 D 6.0 mm: +15.50 D to +22.00 D 5.6 mm: +22.50 D to +30.00 D

#### **OVERALL DIAMETER**

11.0 mm: 0.00 D to +15.00 D 10.7 mm: +15.50 D to +22.00 D 10.5 mm: +22.50 D to +30.00 D



#### **DIOPTER RANGE**

0.00 D to +30.00 D 0.00 D to +10.00 D (increments of 1.00 D) +10.00 D to +30.00 D (increments of 0.50 D)

#### **INJECTORS**

Viscoject<sup>™</sup> BIO 1.8 (10 Units/box) Ref: LP604350C Recommended incision size: 1.8 mm (Wound assisted technique)

#### **OPTIC CONSTANT**

ACD: 5.61 Surgeon factor: 1.85 Haigis: a.: 1.49 / a.: 0.40 / a.: 0.10

A-Constant: 118.4 ACD: 5.20 Surgeon factor: 1.45

A-Constant SRK/T: 119.1

#### ULTRASONIC CONSTANT

Akreos<sup>•</sup> AO

Advanced Optics AsphericLens

Ref ADAPTAOPxxxx Preloaded Ref: AO60PLCxxxx

#### MATERIAL

Hydrophilic acrylic 26 % water content UV Filter Refractive index: 1.46

#### DESIGN

Monofocal aberration-free aspheric optic 360° posterior square edge Haptic angulation 0° One-piece IOL with four-point fixation Orientation features to indicate the anterior side (top right and bottom left)

#### **OPTIC DIAMETER**

6.2 mm: 0.00 D to +9.00 D 6.0 mm; +10.00 D to +30.00 D

#### OVFRALL DIAMETER

11.0 mm: 0.00 D to +15.00 D 10.7 mm: +15.50 D to +22.00 D 10.5 mm: +22.50 D to +30.00 D

#### **DIOPTER RANGE**

0.00 D to +30.00 D 0.00 D to +10.00 D (increments of 1.00 D) +10.00 D to +30.00 D (increments of 0.50 D)



#### **INIECTORS**

Hvdroport<sup>™</sup>: AI-28 (1 Unit/box) Recommended incision size: 2.8 mm (in the bag)

Viscoject<sup>™</sup> 2.2 (10 Units/box) Ref: LP604340 Recommended incision size: 2.2 mm (Wound assist technique)

Viscoject<sup>™</sup> BIO 1.8 (10 Units/box) Ref: LP604350C Recommended incision size: 1.8 mm (Wound assisted technique)

SimplifEYE<sup>™</sup> preloaded delivery system Recommended incision size: 1.8 mm

#### **OPTIC CONSTANT**

A-Constant SRK/T: 118.5 ACD: 5.26 Surgeon factor: 1.51 Haigis: a<sub>0</sub>: : -0.83 / a<sub>1</sub> : 0.305 / a<sub>2</sub>: 0.191

#### **ULTRASONIC CONSTANT**

A-Constant: 118.0 ACD: 4.96 Surgeon factor: 1.22



\*The values of the IOLs constants are only estimates. We recommend that each surgeon develops their own values

