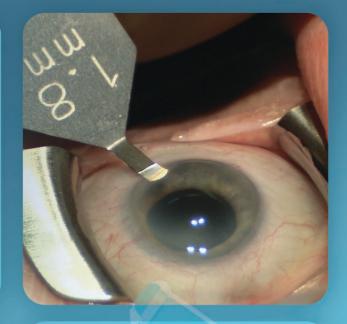


1.8mm Reality The Vital Element For Successful MICS™



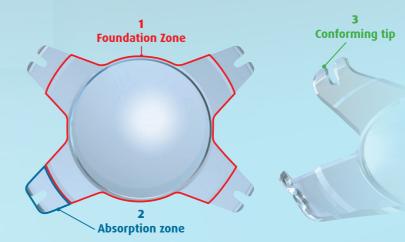




Innovative Design

3-dimensional stability

The innovative shape of the Akreos MICS has been designed to optimise its post-operative behaviour in the capsular bag and to allow for the absorption of forces in 3 dimensions.



(1) Akreos MICS includes a foundation zone formed by the optic and the base of the four haptics. This is the stable portion of the lens. (2) It is surrounded by an absorption zone, which bends under the contraction forces of the capsular bag. (3) The conforming tip conforms to the curve of the periphery of the capsular bag and initiates the inflection of the absorption zone, which features an average 10° and

EPCO Results in line with top competitor IOL

Continuous posterior surface 360° x 90° and



Capsular Transparency

Adhesion of anterior and posterior capsules is achieved very quickly with the Akreos MICS Lens, helping to preserve capsular bag transparency.⁽²⁾







Results in line with the best performing IOL In the same study⁽²⁾, retro-illuminated pictures have been analysed with the EPCO software and have shown low scores of posterior capsular opacification after 1 year. These promising results place Akreos MICS at the level of the best performing intraocular lenses.

From a study of 18 eyes showing a mean EPCO score of 0.003 and 0% Nd: YAG capsulotomy at one year postoperative.⁽²⁾

1.8mm MICS[™] is a reality

The Akreos® Material

1.8mm MICS Requires The Material Difference

- The Akreos MICS Lens is crafted from a Bausch + Lomb proprietary acrylic material that makes it optimal for today's micro incision requirements
- The lens can be compressed easily to fit through a 1.8mm incision; it unfolds smoothly once implanted into the eye and recovers its initial shape without damage
- Homogeneous material is free of microvacuoles, resulting in a glistening-free IOL
- Moderate refractive index, with inherently low surface reflectivity, reduces glare and its adverse effects⁽¹⁾

Proven Performance

- The Akreos MICS Lens material has been successfully implanted in over 3.5 million eyes
- Physicians have been implanting Akreos MICS Lens material since 1998, signaling its safety and biocompatibility

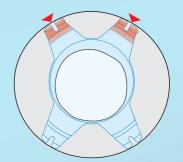
2) T. Amzallag. Akreos Micro-Incision IOL: final results of a pilot clinical study at one year follow up. Free Paper. ESCRS 2006. 3) Data on file, Bausch + Lomb

Award-Winning Design





Illustration of asymmetrical capsular bag contraction with a decentred capsulorhexis

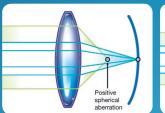


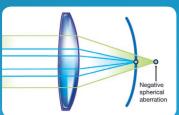
EPCO results

	Akreos MICS (2)	Hydrophobic acrylic ⁽³⁾
Central area 3mm	0.005 0.015 0.003	0.062 0.046 0.039
Optic area 6mm	0.029 0.041 0.03	0.089 0.145 0.114
	M3 M6 M12 n=19 n=19 n=18	M3 M6 M12 n=136 n=158 n=123

Quality of Vision

Principle

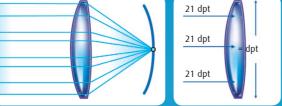




Aberrated Aspheric IOL

Standard Spherical IOL

Akreos® Aspheric Aberration Free



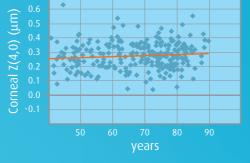
With uniform lens power from centre to edge Akreos MICS is a more "forgiving"⁽¹⁾ optic design minimising deterioration of optical performance in the event of lens

BENEFITS OF ADVANCED OPTICS (A0) VERSUS ABERRATED ASPHERIC IOLS

- **1** A0 is a safe and reliable approach for the surgeon when pre op aberrometry is unknown because the A0 design concept is independent of the cornea.⁽¹⁾
- **2** AO does not induce new Higher Order Aberration (HOA) when decentred optically or anatomically.⁽¹⁾
- **3** AO can provide greater depth of field than negative SA IOLs designed to compensate for corneal SA.⁽²⁾

An aspheric IOL designed to fit all corneas

conclude that the corneal spherical vary widely from



Based on Beiko study data on corneal SA distribution (Z4;0), the aberrated aspheric IOLs' objectives:

THESE ARE NOT ACHIEVABLE FOR AT LEAST 76% OF THE PATIENTS

A0 is a safe choice for the surgeon when pre-op aberrometry is unknown

Authors highlight that aberrated aspheric IOLs are inadvisable for some corneal profiles:

PIRACHA⁽⁵⁾

"Anyone who has had his or her cornea modified from the average standard corneal spherical aberration will not derive benefits

KERSHNER⁽⁵⁾

Altmann GE, Nichamin LD, Lane SS, Pepose JS. Optical performance of 3 intraocular lens designs in the presence of decentration. J Cataract Refract Surg. 2005; 31: 574-85.
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 multicenter study. J Cataract Refract Surg 2007; 33: 1565-72.
Wang L, Dai E, Koch DD, Nathoo A. Optical aberrations of the human anterior cornea. J Cataract Refract Surg 2003; 29: 1514-21.
Beiko GH, Haigis W, Steinmueller A. Distribution of corneal spherical aberration in a comprehensive ophthalmology practice and whether keratometry can predict aberration values. J Cataract Refract Surg 2007; 33: 848-58.
Quotes from in Article «Patient selection strategy for aspheric IOL's» Review of Ophthalmology. 14/03/2006 revophth.com.

Decentration occurs much more frequently than one may think

Many authors confirm that decentration and tilt are a major concern with the aberrated aspheric IOLs:

"IOL decentration induces defocus, astigmatism, and coma". ALTMANN⁽⁾ "Aspheric IOLs should be avoided when gross anatomical decentration can be anticipated". BELLUCCI⁽⁶⁾ "Excellent centration is required to maximise the visual outcomes of wavefront-corrected IOLs". WANG⁽⁷⁾

Simulation 20/40 Letter E 4-mm Pupil

Centred and aligned with visual axis

Competitor Aberrated Aspheric IOL



Akreos Advanced Optics Aberration-Free IOL



These images do not represent individual patient outcomes.

AO is designed not to introduce new HOA

6) Bellucci R, Morselli S, Pucci V. Spherical aberration and coma with an aspherical and a spherical intraocular lens in normal age-matched eyes. J Cataract Refract Surg. 7) Wang L, Koch DD. Effect of decentration of wavefront-corrected intraocular lenses on the higher-order aberrations of the eye. Arch Ophthalmol. 2005; 123: 1226-30.

0.5mm

1.0mm decentration





Quality of Vision

A certain amount of ocular SA can be beneficial for Quality of Vision^(1,2,3)

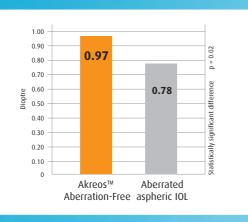
Depth of field is particularly important for pseudophakic patients as it increases their range of vision.

Infinity	2m	40cm
Distance vision	Intermediate	vision
∞	Distinct vision	

Depth of field improves intermediate vision which and watch television.

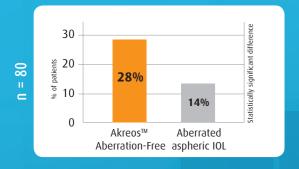
Akreos Aberration-Free provides more depth of field than an aberrated aspheric IOL⁽⁴⁾

Mean depth of field 5mm pupil*

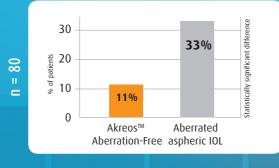


Patients' spontaneous preference in double-masked bilateral comparison is in favour of Akreos Aberration-Free⁽⁴⁾









Rocha KM, Soriano ES, Chamon W, Chalita MR, Nosé W. Spherical aberration and depth of focus in eyes implanted with aspheric and spherical intraocular lenses: a prospective randomized study. Ophthalmology. 2007; 114: 2050-4.
Nio YK, Jansonius NM, Fidler V, Geraghty E, Norrby S, Kooijman AC. Spherical and irregular aberrations are important for the optimal performance of the human eye. Ophthalmic Physiol Opt. 2002; 22: 103-12.
Marcos S, Barbero S, Jiménez-Alfaro I. Optical quality and depth-of-field of eyes implanted with spherical and aspheric intraocular lenses. J Cataract Refract Surg

2005; 21: 223-35.

In practice: Loading steps

1 The loading chamber is coated with Amvisc[®] Plus viscoelastic: a small amount in the opening of the cartridge tunnel, two lines in the lateral grooves.

2 The lens is removed from its holder by grasping the

5 The cartridge is closed and locked after having

has reached the tunnel opening. The lens is ready

True 1.8mm incision Wound-assisted injection

The wound-assisted injection technique consists of using the corneal tunnel to inject the lens. It prevents the cartridge tip from being introduced into the anterior chamber.

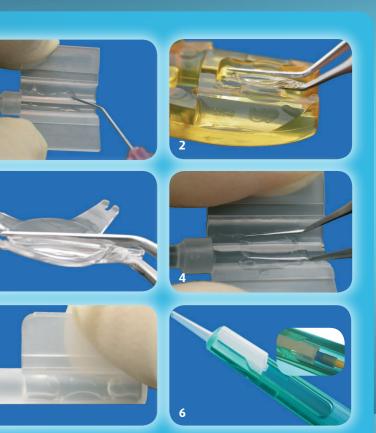
To minimise corneal stress, the internal cartridge diameter must fit the incision size. The hydrophilic nature of the Akreos MICS lens and its softness helps to preserve corneal integrity.



MER C

Johansson B, Sundelin S, Wikberg-Matsson A, Unsbo P, Behndig A. Visual and optical performance of the Akreos™ Adapt Advanced Optics and Tecnis 29000 intraocular lenses: Swedish multicenter study. J Cataract Refract Surg 2007; 33: 1565-72.

*Measured with the Strehl ratio as described by S. Marcos et al. Implantation of Spherical and Aspheric IOLs. J Cataract Refract Surg 2005; 21: 1-13. •58% of patients reported no preference and 56% of patients reported no difference in visual disturbances.





<u>1.8 linear</u> injection Cartridge tip 1.25 internal diameter



The MICS[™] Platform

The Exclusive 1.8mm Solution From Bausch + Lomb

The Stellaris Vision Enhancement System delivers the critical capabilities required for 1.8mm MICS: superior fluidics control, efficient cutting dynamics and the ergonomic insights that make the system easy to use.

The Akreos MICS Lens combines the vision benefits of an aspheric acrylic lens with the material and design characteristics that allow it to be inserted into a true 1.8mm incision.

The MICS Platform includes precision performance instruments from STORZ® Ophthalmics for both C-MICS and B-MICS procedures.

Amvisc[®] Plus is the versatile viscoelastic that is ideal for every step of your 1.8mm MICS procedure.

When you move to the MICS Platform you benefit from a comprehensive support program designed to assist cataract surgeons in developing and perfecting their **MICS** techniques.

Akreos[®] MICS[™] Lens Specifications

MATERIAL: 26% hydrophilic acrylic UV blocker. Refractive index 1.458 (hydrated)

OPTIC: Biconvex aspheric anterior and posterior

DIOPTER RANGE: 0.0 to 9.0 in 1 dpt 10.0 to 30.0 in 0.5 dpt HAPTICS: **One-piece** Angulated haptics

OVERALL DIAMETER:

11.0mm from 0.0 to 15.0 dpt 10.7mm from 15.5 to 22.0 dpt 10.5mm from 22.5 to 30.0 dpt **APPLANATION A-SCAN:** A-Constant* 118.4 ACD* 5.20 Surgeon Factor* 1.45

OPTIC BODY: 6.2mm from 0.0 to 15.0 dpt 6.0mm from 15.5 to 22.0 dpt 5.6mm from 22.5 to 30.0 dpt **IMMERSION A-SCAN: OR IOL MASTER:** A-Constant* 119.1 ACD* 5.67 Surgeon Factor* 1.90

ORDER CODE: Lens: Akreos MI60G Injector: LP604350 (10/Box)

Learn more about the MICS Platform

www.micsplatform.com

*A-Constant, ACD and Surgeon Factor are estimates only. It is recommended that each surgeon develops his or her own values.



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