



Patented
sulcus
design



AddOn[®]

For the correction of pseudophakic eyes

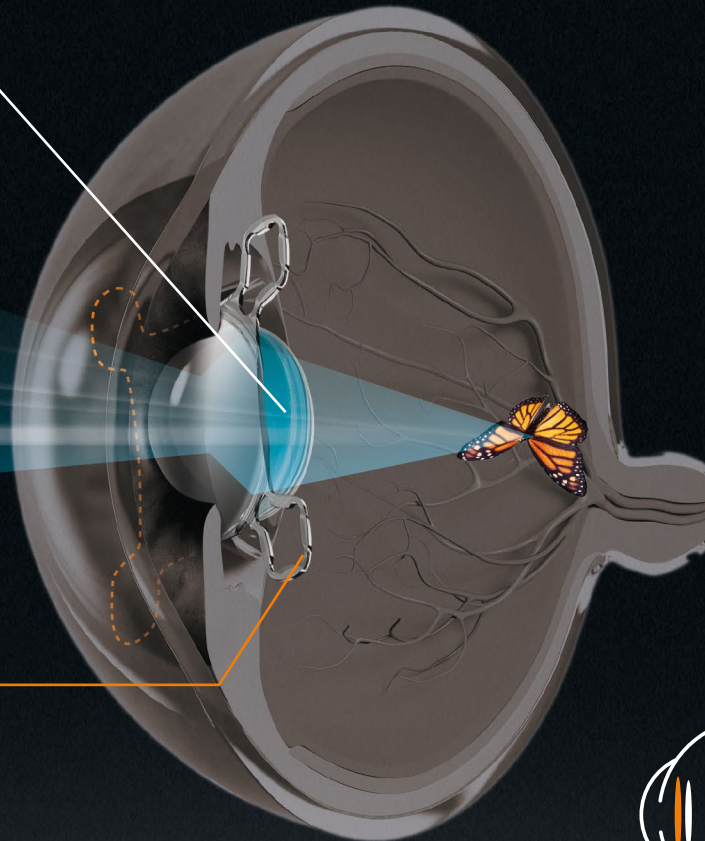
AddOn[®] sulcus lens

The AddOn is the IOL platform for vision enhancement and correction of pseudophakic eyes. The patented sulcus lens constitutes a milestone in functional patient care.

The AddOn lens is implanted in the sulcus as an addition to the Basis IOL fixed in the capsular bag, and is compatible with commonly used capsular bag IOLs, regardless of design or material.

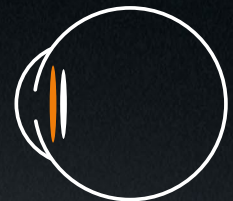
Basis IOL

in the capsular bag



AddOn[®] IOL

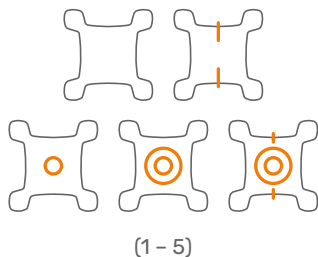
in the sulcus



AddOn® Areas of Application

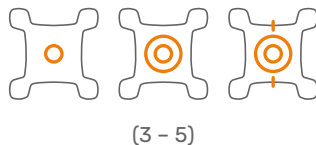
Optimizing

refraction results in pseudophakic eyes. The full optical correction spectrum is available and can be individually adapted to the patient.



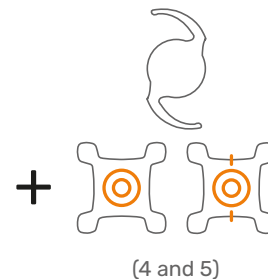
Upgrading

to multifocal (trifocal) or EDOF function in case of a subsequent patient request for more spectacle independence.



Planning spectacle independence

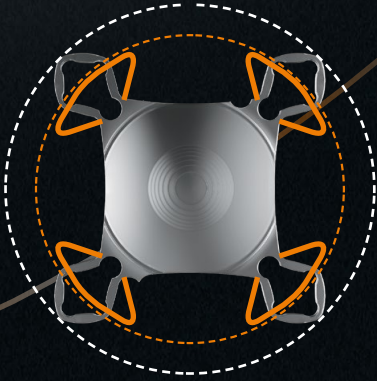
with the Liberty² dual-lens system. Spectacle independence becomes plannable and predictable with a Basis IOL in the capsular bag and a trifocal AddOn in the sulcus.



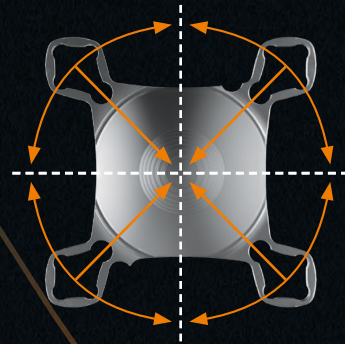
Optical range

	Distance	Near	Intermediate	Imaging
1 AddOn® spheric	●			
2 AddOn® toric	●			●
3 AddOn® EDOF	●		●	
4 AddOn® trifocal	●	●	●	
5 AddOn® toric-trifocal	●	●	●	●

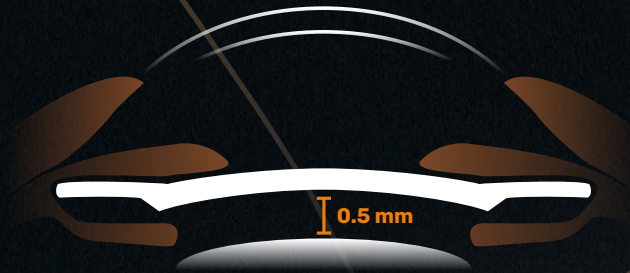
▮ The AddOn[®] features



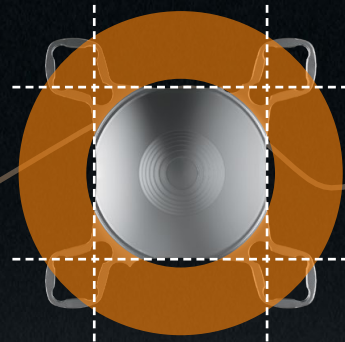
Sulcus fit
through 4 flexible haptics



Rotational stability
through non-torque design



No IOL touch & cell stop
through convex-concave optic



No iris capture
through square design

The AddOn[®] Benefits

The AddOn offers significant advantages for individual and safe patient care.

→ **Patented sulcus design⁽¹⁾ for safe and stable positioning in the ciliary sulcus⁽³⁾**

→ **Full spectrum of refractive corrections⁽²⁾⁽³⁾⁽⁹⁻¹²⁾, in particular trifocal upgrades⁽⁴⁾**

→ **Safe procedure⁽²⁾⁽⁵⁾⁽⁶⁾ based on a proven technology**

→ **No compromise of optical quality through the additional AddOn interfaces⁽⁹⁾**

→ **Non-traumatic reversibility⁽⁹⁾⁽¹⁰⁾**

→ **Implantable irrespective of lens status of the pseudophakic eye⁽⁵⁾⁽⁷⁾**

→ **Option of implantation in one procedure or two subsequent procedures⁽⁹⁻¹²⁾**

→ **Suitable for eyes with silicone oil tamponade or previous keratoplasty⁽⁸⁾**

References

- (1) Patent #EP 12 181 744 (2013)
- (2) Gundersen KG, Potvin R. A review of results after implantation of a secondary intraocular lens to correct residual refractive error after cataract surgery. *Clinical Ophthalmology* 2017;11, pages 1791-1796.
- (3) Gundersen KG, Potvin R. Refractive and visual outcomes after implantation of a secondary toric sulcus intraocular lens. *Clinical Ophthalmology* 2020; 14:1337-1342.
- (4) Palomino-Bautista C (et al). Spectacle independence for pseudophakic patients – Experience with a trifocal supplementary add-on intraocular lens. *Clinical Ophthalmology* 2020; 14:1043.1054. eCollection 2017.
- (5) Mrochen M (et al). Sicherheit moderner Zweilinsensysteme. Modellbasierte Untersuchung hinsichtlich Lagetoleranz und Auswirkungen auf das optische System. *Ophthalmologie (Sonderveröffentlichungen, Teile 1-3)* 2013.
- (6) Srinivasan S. Implantation of Schiøtz macula lens in patients with age-related macular degeneration: results of a prospective European multicentre clinical trial. *BMJ Open Ophthalmol.* 2019 Jul; 4(1):e000322.
- (7) Reiter N, Werner L, Guan J, Li J, Tsaousis KT, Mamalis N, Srinivasan S. Assessment of a new hydrophilic acrylic supplementary IOL for sulcus fixation in pseudophakic cadaver eyes. *Eye (Lond)*. 2017 May;31(5):802-809.
- (8) Hassenstein A, Niemeck F, Giannakakis K, Klemm M. Torische AddOn-Intraokularlinsen zur Korrektur hoher Astigmatismen nach pseudophaker Keratoplastik. *Der Ophthalmologe*. 2017 Jun;114(6):549-555
- (9) Khoramnia R, Baur ID, Yan W, Labuz G, Auffarth GU Comparison of a Presbyopia-Correcting Supplementary Intraocular Lens Combination and a Capsular-Bag Lens: An In Vitro Study. *Diagnostics* 2023, 13, 1482. <https://doi.org/10.3390/diagnostics13081482>
- (10) Gundersen KG, Gjerdrum B, Potvin R. Efficacy of a Secondary Trifocal Sulcus IOL in Providing Near and Intermediate Vision in Patients with Prior Myopic Laser Vision Correction and Cataract Surgery. *Clinical Ophthalmology* 2022;16:2219-2226.
- (11) Albayrak S. et al. Visual performance and patient satisfaction following the implantation of a novel trifocal supplementary intraocular lens. *European Journal of Ophthalmology* 2021;31(5):2346-2352.
- (12) Harrisberg BP, Chua AW, Chua MJ, Taher A Comparison of Primary Duet Lens Procedures: In-The-Bag Monofocal with Sulcus Multifocal, and Standard Single Multifocal Lens for Cataract Surgery. *Clinical Ophthalmology* 2023;17:273-282. <https://doi.org/10.2147/OPTh.S396472>

Technical Data



AddOn®
spheric



AddOn®
toric



AddOn®
EDOF



AddOn®
trifocal



AddOn®
toric-trifocal

Sphere/SEQ	-10 D to +10 D	-10 D to +10 D	-5 D to +5 D	-5 D to +5 D	-3 D to +3 D
Cylinder		+1 D to +11 D			+1 D to +4.5 D
Addition			low addition	+2.25 D; +3 D	+3 D

Type and material	One-piece sulcus lens made of biocompatible hydrophilic acrylic (water content 25 %), UV absorber
Refractive index	1.46
Abbe number	58
Dimensions	Total diameter: 13 mm Optic diameter: 6 mm
Optic	spheric optic convex-concave optic design
Haptic	4 flex-haptics 0° angulation 4 closed loops sulcus fit
Sterilization	Steam
Recommended injection system	1stInject 2.0HB 1stInject 2.4HB
Manufacturer	1stQ. AddOn® is a registered trademark of 1stQ.

What users around the world are saying



"Based on the reliable stability of the 1stQ AddOn Trifocal lens, I use it often in clinical practice for increasing my options for refractive upgrades or correction."

Sathish Srinivasan, MD, FRCSEd, FRCOphth, FACS, United Kingdom

"I feel very comfortable and safe with the planned two-stage trifocality with a Basis IOL in the capsular bag and a trifocal AddOn in the sulcus. The superindication for this technique is RLE or post-LASIK cataract surgery. Refractive surprises should thus be entirely eliminated."

Kjell Gunnar Gundersen, MD, PhD, Norway

"The 1stQ AddOn IOL allows to bring patients into their visual comfort zone."

Erik L. Mertens, MD, FEBO, Belgium

"The AddOn with trifocal array is just great. In combination with the capsular bag lens it provides a high degree of adaptability to refractive situations. Handling and safety are convincing."

Prof. Dr. Gangolf Sauder, MD, Germany

"The main advantage of implanting a secondary lens with trifocal performance is its ease of reversibility at any time, [...]. This is a smart option for the patient who is particularly unsure about dealing with aberrations from multifocal IOLs."

Brian Harrisberg, MD, MBBCh, FRACS, FRANZCO, Australia

Leading begins together

**Want to find out more about the AddOn®? Or discuss
1stQ's versatile IOL solutions?**

We are ready and happy to assist with expertise or new ideas.
Let us drive quality, standards and the best possible individual
vision together.

Further questions?
export@1stq.eu