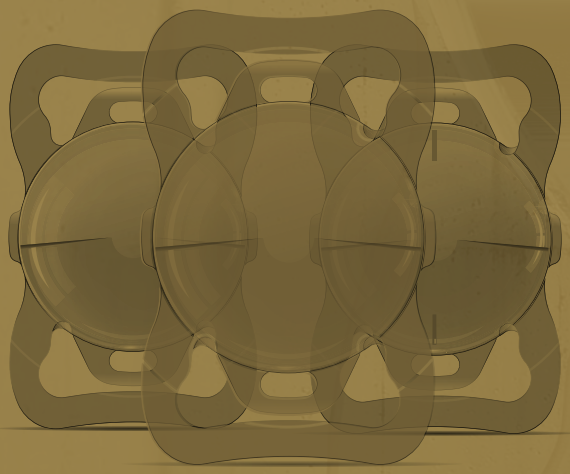
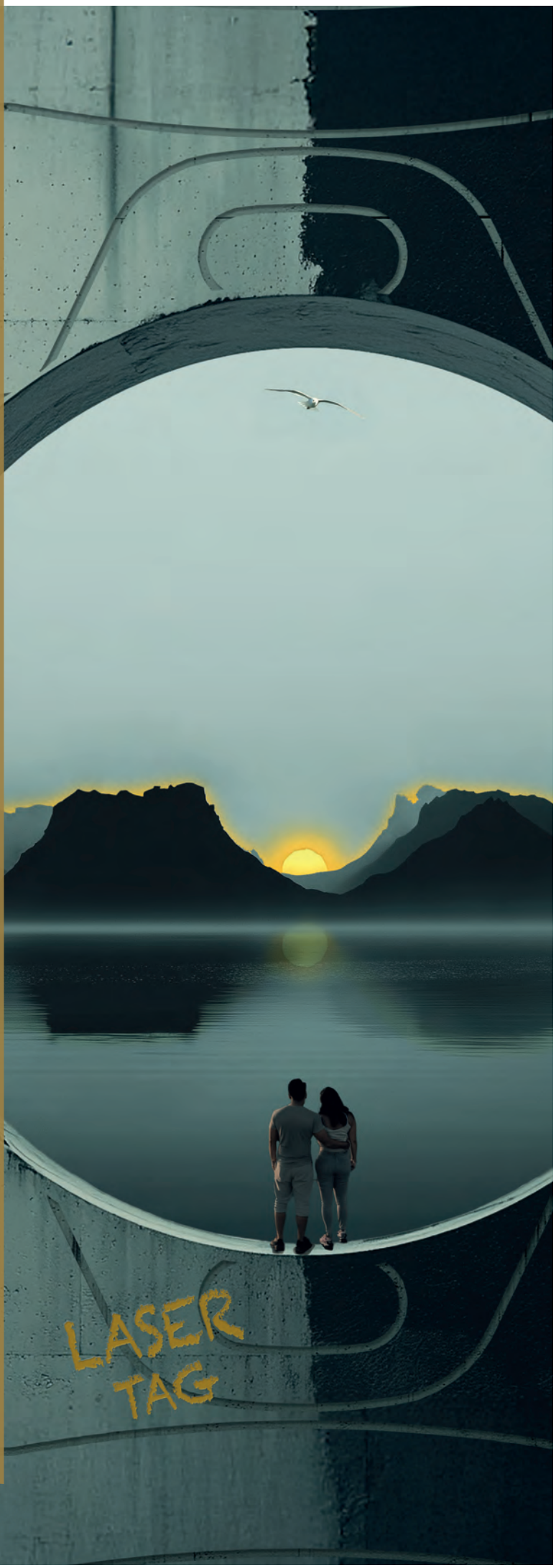
TELEON®

FEMTIS®

Premium Treatment with High Precision



UNIQUE PERFECTION



FEMTIS® IOL Family

Premium IOL for high precision

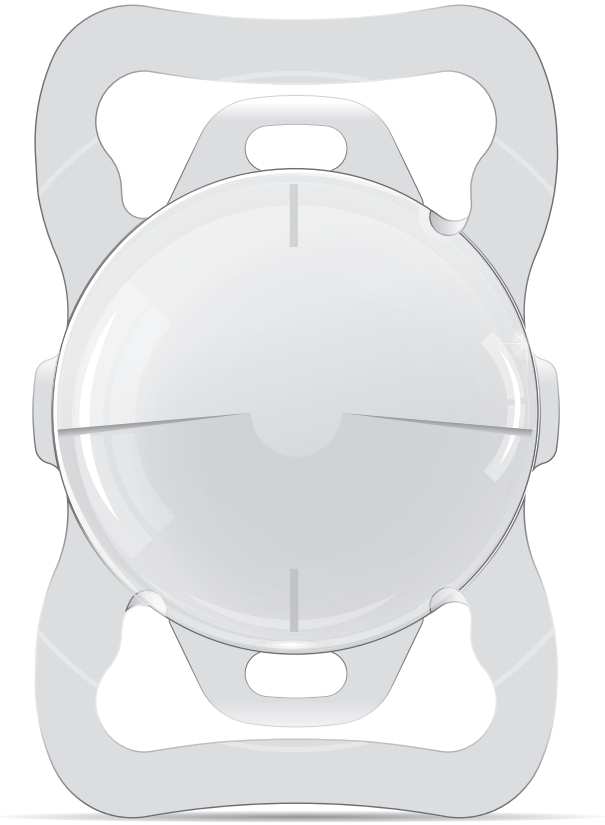
The unique haptic design of the capsulorhexis-fixated FEMTIS® IOL Family allows very predictable positioning, benefiting from automated capsulotomies. The perfect alignment of the IOL with the optical axis as well as the very high rotational stability are ideal conditions for a precise correction.

Very high visual performance

Proven **premium** optics

4 **additional clip haptics**
for exceptionally stable positioning and fixation in the capsular bag

Unique combination:
FEMTIS® IOL and automated capsulotomy



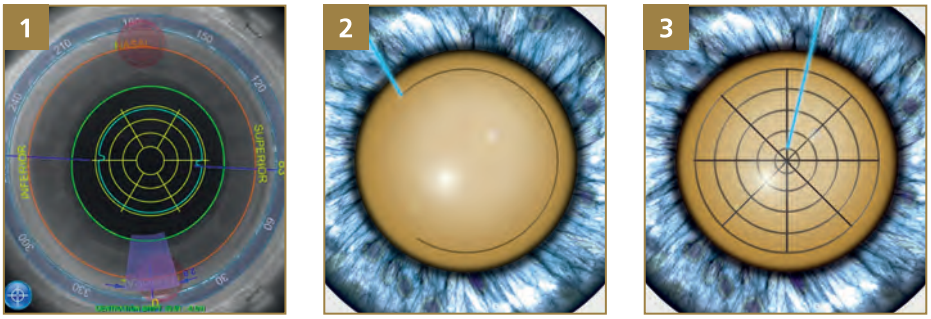
FEMTIS® IOL Family

Precision with automated capsulotomies

Advantages of the automated capsulotomy

- Perfectly round cut
- Low ACO / PCO risk
- Very good reproducibility
- Perfect centering on the optical axis
- Very high precision
- Very little risk of capsule rupture
- No mechanical manipulation

Laser-assisted capsulotomy [1st premium alternative]

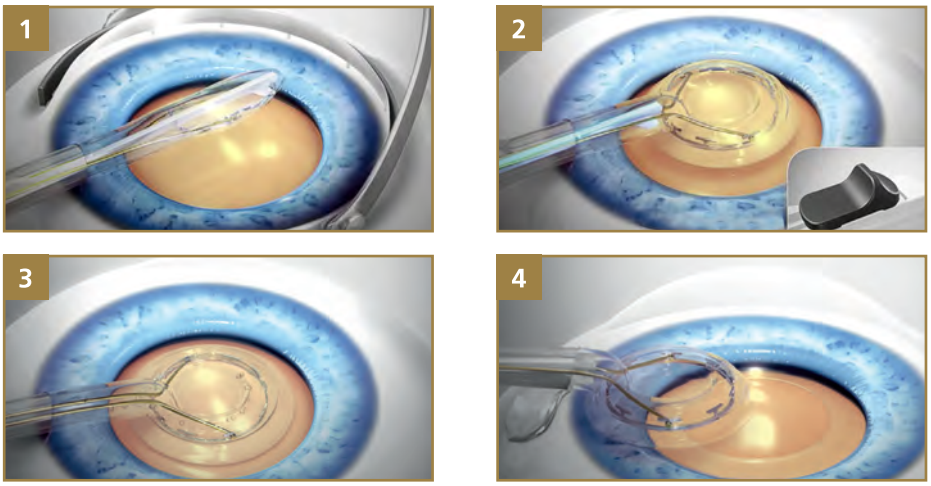


Step 1: Individualised laser configuration

Step 2: Perfect, circular capsular bag opening using computer-controlled laser cutting technology

Step 3: Fragmentation of the lens nucleus

Zepto capsulotomy system [2nd premium alternative]



Step 1: Application of the zepto tip into the anterior chamber

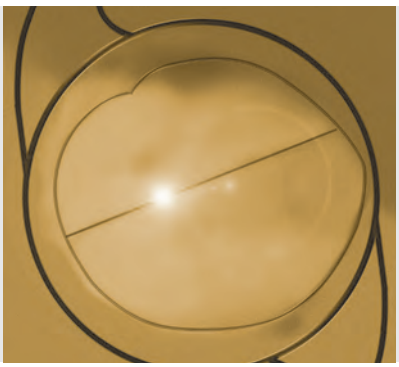
Step 2: Positioning of the silicone ring on the optical axis

Step 3: Stick the silicone ring on the lens capsule

Step 4: Performing the capsulotomy

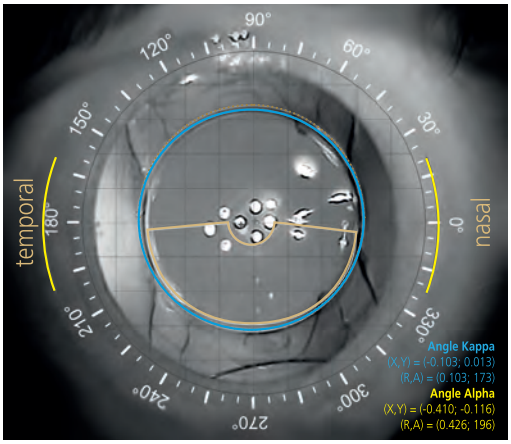
Possible disadvantages of manual capsulotomy

- Fluctuating reproducibility
- No alignment on the optical axis
- Increased risk of capsule rupture
- More time required
- Not perfectly round
- Higher ACO / PCO risk



FEMTIS® IOL Family

Unique Perfection



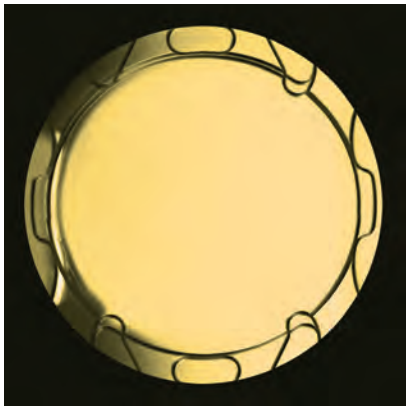
Perfect positioning of the IOL on the optical axis

- **Very high** rotational stability
- **Very low risk of** tilting
- **Very low risk of** decentration

Standard versus FEMTIS®

Capsulorhexis margin of a standard, not fixated IOL

Potentially pronounced symptoms of negative dysphotopsias

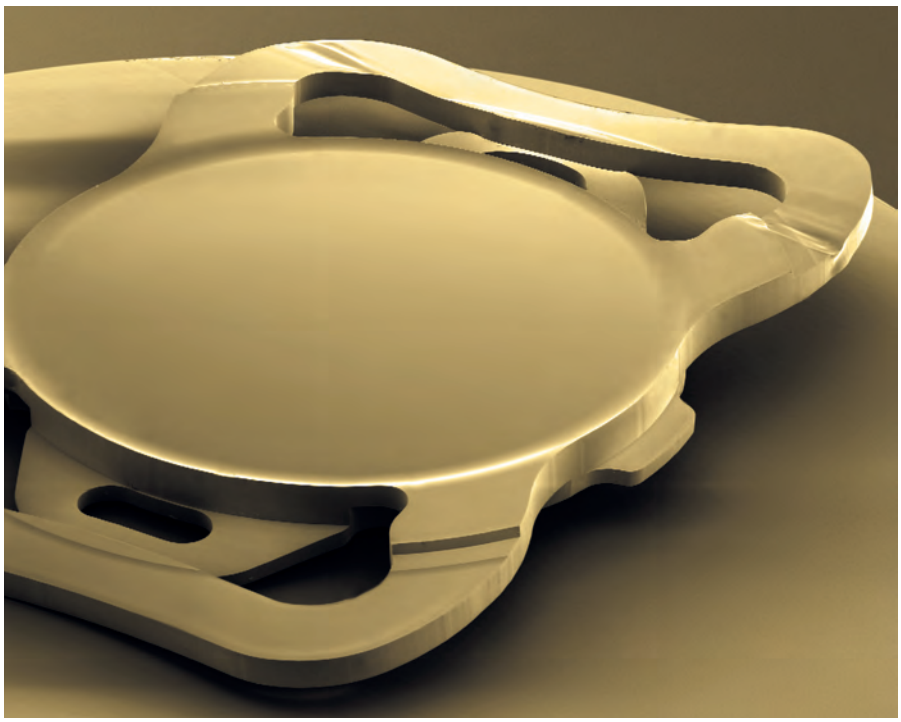


Capsulotomy rim and FEMTIS® IOL form an ideal unit

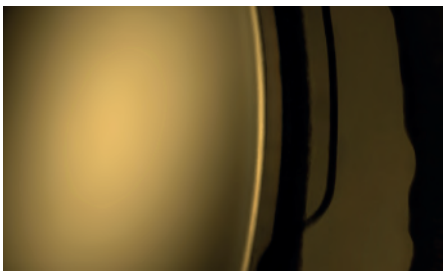
Lower risk of negative dysphotopsias

Additional benefits

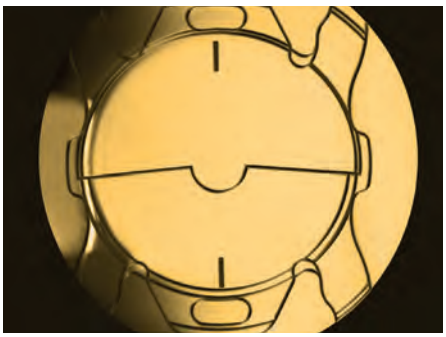
Sharp edge design:
ACO / PCO prevention



Enclavation in capsulorhexis:
IOL Stability



Perfect match: Automatic capsulotomy & FEMTIS® IOL



FEMTIS® Comfort

IOL with varifocal effect

Continuous Transmission Technology

- Large distance optics zone
- Transition free central optics
- Segment for continuous vision up to the intermediate area due to varifocal effect

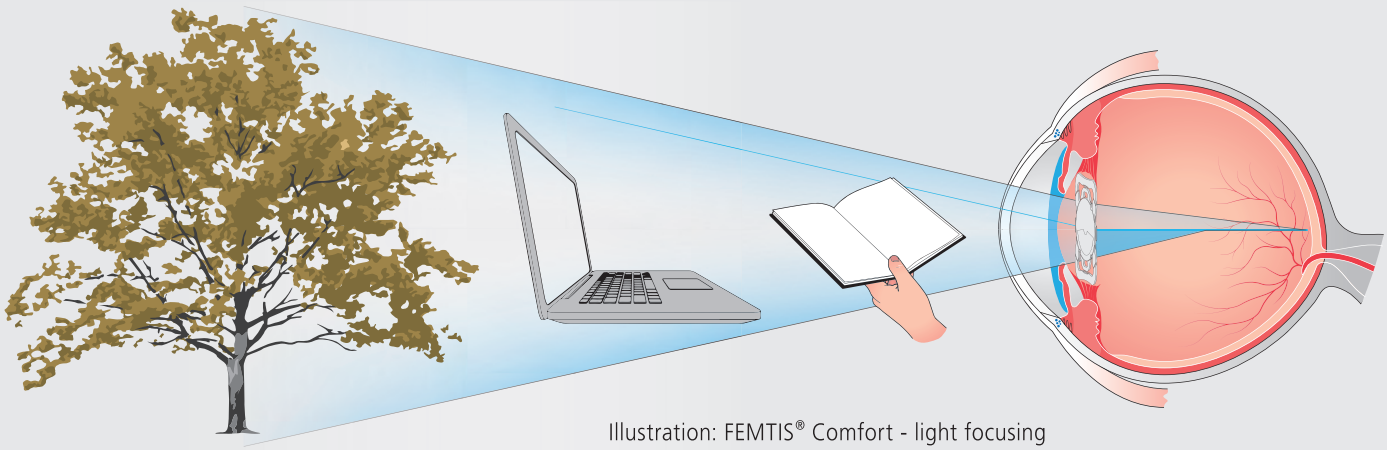
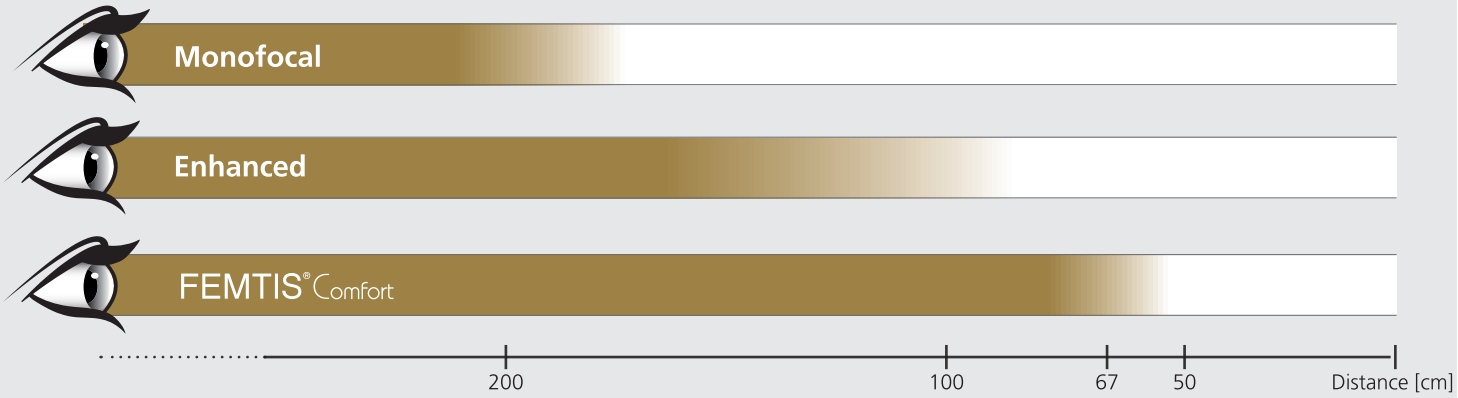


Illustration: FEMTIS® Comfort - light focusing

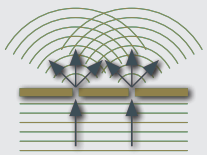
Superior visual comfort than with standard monofocal care



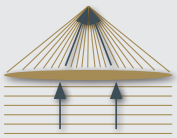
Illustrative images to simulate expected and potential outcomes

Unique refractive segment optics

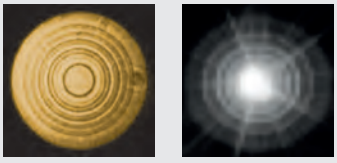
Minimal reported subjective photic phenomena



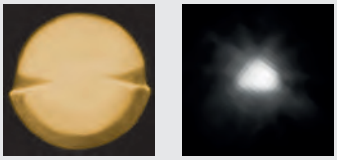
Diffractive principle (light diffraction)



Refractive principle (refraction of light)



Diffractive IOL structure with focus display



Refractive segment optics with focus display

Patient perception regarding halos and glare*

Patient perception with the FEMTIS® Comfort*

* Source: Presentation at ESCRS 2024, Dr. P. Versace

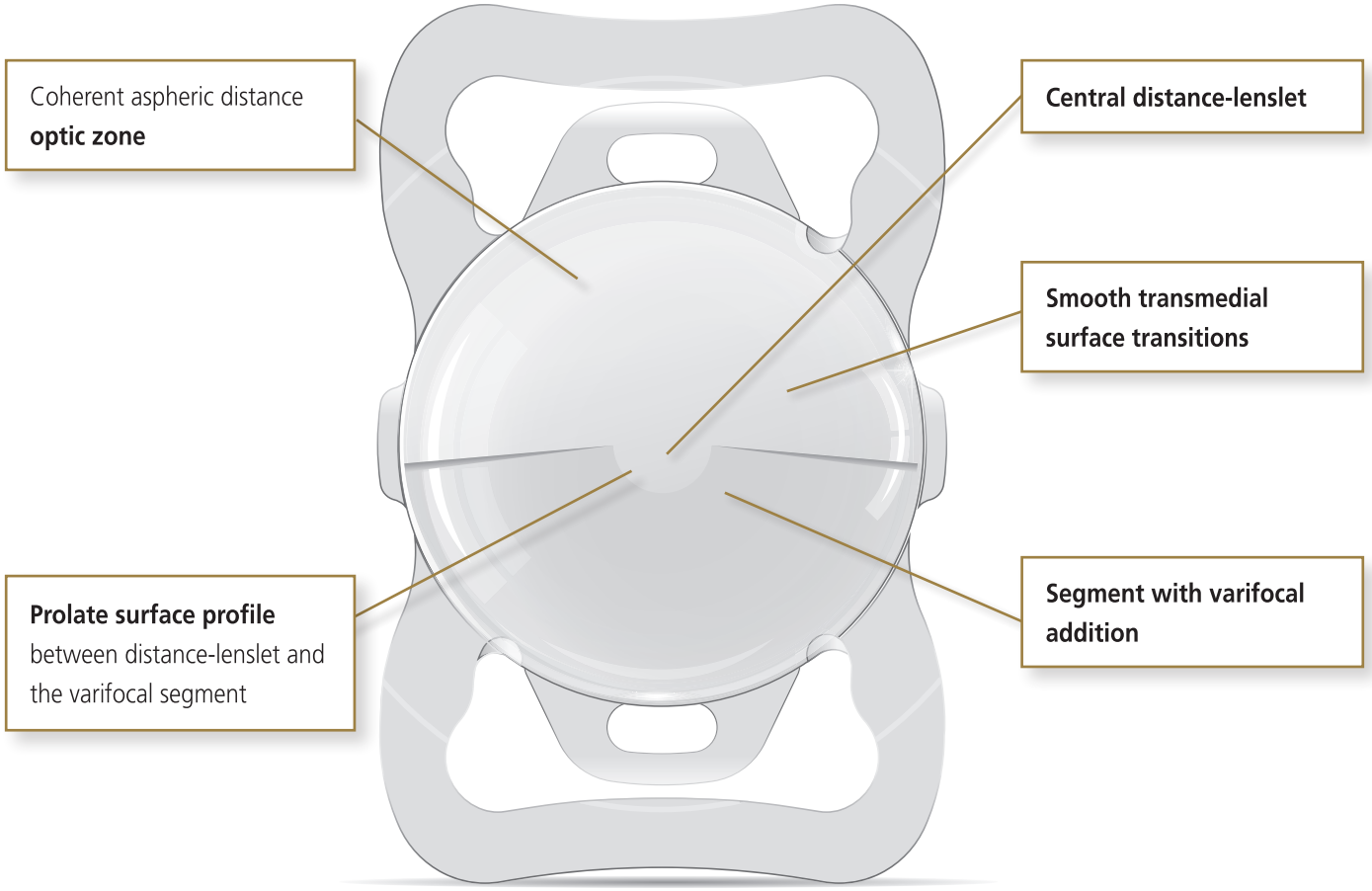
FEMTIS® Mplus

Premium-IOL with varifocal effect

Unique asymmetrical-refractive optical design

Continuous Transmission Technology

- Large distance optic zone
- Smooth transition from distance to near
- Very high light transmission for excellent vision and contrast



Proven optical system for all distances

FEMTIS® Mplus **FB-313**

MF30

Focus area

- Allrounder for active daily life style requirements

Schematic picture

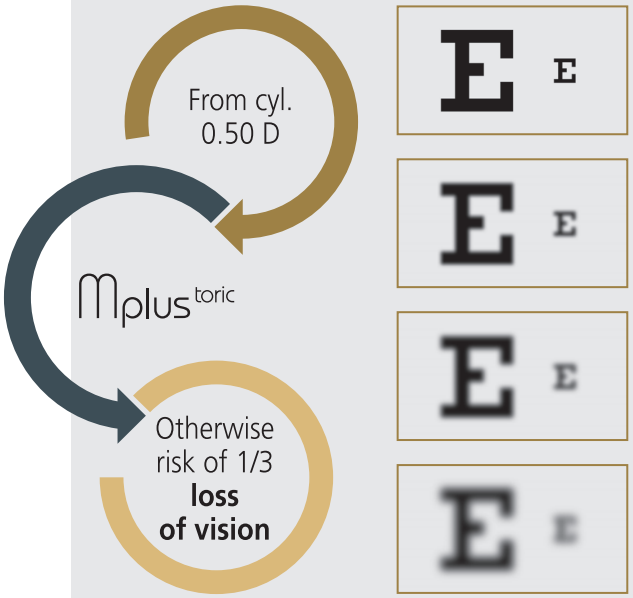
FEMTIS® Mplus toric

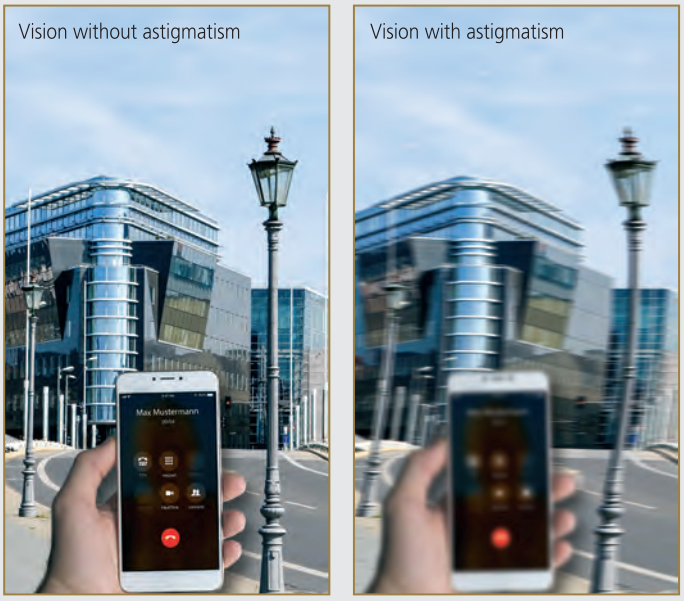
Perfect refractive results in the correction of presbyopia and astigmatism

Presbyopia

For many patients, the age-related deterioration of near and intermediate vision goes hand in hand with a loss of their freedom and independence. Multifocal intraocular lenses are an alternative to reading and varifocal spectacles and offer a permanent solution to this problem.

Illustrative image to simulate expected and potential outcome





Illustrative images to simulate expected and potential outcomes

Astigmatism

Impaired vision at all distances, due to a not evenly round cornea.

FEMTIS® studies

Clinical results

IOL fixation in the capsulotomy - results of a FEMTIS® multicentre study

in 336 eyes

DOI: https://doi.org/10.1016/j.ajo.2020.12.025

Prof. Gerd Auffarth, MD

- International multicentre study in 8 clinics
- Excellent visual and stable refractive outcomes
- Exceptional high in-the-bag stability over a 12-month period
- Very predictably positioning
- Offers an optimal platform for toric and multifocal IOL optics

Decentration	Rotation	Tilt
0.06 mm	0.77°	0.45°

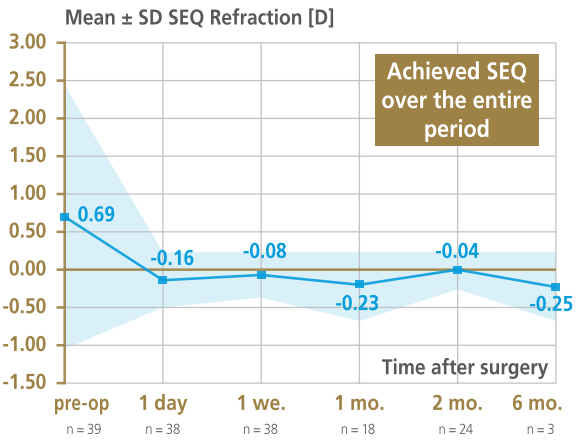
FEMTIS® Comfort – a capsulorhexis-fixed EDOF IOL

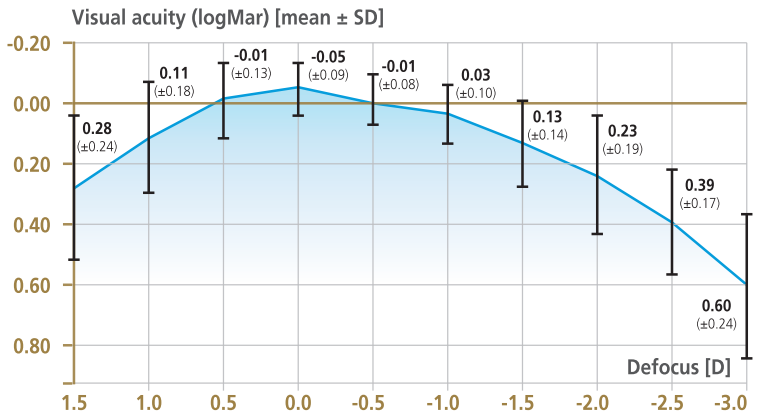
in 50 eyes

DOI: https://doi.org/10.1097/j.jcrs.0000000000000044

Patrick Versace, MD

- Fast refraction stability due to the fixed IOL position
- Average change in IOL position over 6 months: 0.092 µm





Advantages of effective lens positioning and refraction stability with FEMTIS®

in 70 eyes

DOI: https://doi.org/10.1016/j.ajo.2020.01.009

Prof. Wolfgang J. Mayer, MD

- FEMTIS® guarantees significantly better refractive predictability due to a stable ELP compared to intraocular lenses with C-loops or simple plate haptics

FEMTIS® Comfort & Comfort toric

One-piece posterior chamber lens with aspherical segmental optics for automated capsulotomies

Parameters	FEMTIS® Comfort FB-313 MF15	FEMTIS® Comfort toric FB-313 MF15 T0-T3
Type	Foldable one-piece EDOF-IOL for capsular bag and additional capsulotomy fixation	Foldable one-piece toric EDOF-IOL for capsular bag and additional capsulotomy fixation
Optic Size	5.7 mm	5.7 mm
Overall Length	10.5 mm	10.5 mm
Haptic Angulation	0°	0°
Optic Design	Biconvex | Sector-shaped near vision segment Anterior: +1.5 D Aspherical surface - posterior Spherical aberration neutral	Biconvex | Sector-shaped near vision segment Anterior: +1.5 D Aspherical & toric surface - posterior Spherical aberration neutral
IOL Design	Plate haptic with additional Clip-haptics Optic and haptics with square edges, posterior 360° continuous barrier effect	
Material	HydroSmart® - a copolymer, consisting of hydrophilic acrylates with hydrophobic properties and UV absorbing	
Available Diopters	SE +15.0 D to +30.0 D (0.5 D)	SE +15.0 D to +30.0 D (0.5 D) cyl. T0 +0.75 D | T1 +1.5 D | T2 +2.25 D | T3 +3.0 D
Refractive Index	1.46	1.46
A constant (nominal)	117.8	117.8
Sterilisation	Steam sterilisation	Steam sterilisation
Storage	Supplied in sterile water	Supplied in sterile water
Recommended Injector-Sets	Check compatibility of IOL with injector matrix provided at **https://lentis-eifu.com**	

Source: IOLcon.org

Please note that neither Teleon nor IOLcon can be held responsible for correctly specifying the optimized A constants for the Zeiss IOLMaster. The specified constants are therefore to be seen as a guide value and starting point for calculating the IOL refractive power

Advantages of the FEMTIS® Comfort | Comfort toric

- **Excellent visual acuity results for the distance and intermediate ranges**
- **More spectacle independence compared to monofocal standard IOLs results in a better quality of life**
- **Good contrast - comparabel with monofocal standard IOL**

FEMTIS® Mplus & Mplus toric

One-piece posterior chamber lens with aspherical segmental optics for automated capsulotomies

Parameters	FEMTIS® Mplus FB-313 MF30	FEMTIS® Mplus toric FB-313 MF30 T0-T3
Type	Foldable one-piece multifocal IOL for capsular bag and additional capsulotomy fixation	Foldable one-piece toric multifocal IOL for capsular bag and additional capsulotomy fixation
Optic Size	5.7 mm	5.7 mm
Overall Length	10.5 mm	10.5 mm
Haptic Angulation	0°	0°
Optic Design	Biconvex | Sector-shaped near vision segment Anterior: +3.0 D Aspherical surface - posterior Spherical aberration neutral	Biconvex | Sector-shaped near vision segment Anterior: +3.0 D Aspherical & toric surface - posterior Spherical aberration neutral
IOL Design	Plate haptic with additional Clip-haptics Optic and haptics with square edges, posterior 360° continuous barrier effect	
Material	HydroSmart® - a copolymer, consisting of hydrophilic acrylates with hydrophobic properties and UV absorbing	
Available Diopters	SE +15.0 D to +30.0 D (0.5 D)	SE +15.0 D to +30.0 D (0.5 D) cyl. T0 +0.75 D | T1 +1.5 D | T2 +2.25 D | T3 +3.0 D
Refractive Index	1.46	1.46
A constant (nominal)	117.8	117.8
Sterilisation	Steam sterilisation	Steam sterilisation
Storage	Supplied in sterile water	Supplied in sterile water
Recommended Injector-Sets	Check compatibility of IOL with injector matrix provided at **https://lentis-eifu.com**	

Source: IOLcon.org

Please note that neither Teleon nor IOLcon can be held responsible for correctly specifying the optimized A constants for the Zeiss IOLMaster. The specified constants are therefore to be seen as a guide value and starting point for calculating the IOL refractive power

Advantages of the FEMTIS® Mplus | Mplus toric:

- **Continuous vision over all distances due to the varifocal effect**
- **Unique brilliant optics without rings**
- **Maximum use of light**
- **Very little photic phenomena**

MANUFACTURER:

Revision: QF2402v4

TELEON® **Teleon Surgical B.V.** | Van Rensselaerweg 4 b | NL - 6956AV Spankeren **marketing@teleon-surgical.com**