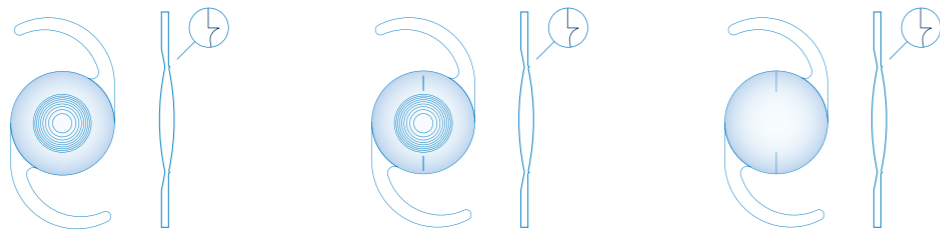




PORTFOLIO

PRECISION. OUR PROFESSION.



MODEL	DIFF-aA DIFF-aAY YELLOW SL	TORICADIFF-aA TORICADIFF-aAY YELLOW SL	TORICA-aA TORICA-aAY YELLOW
Type	Multifocal posterior chamber IOL, 1-piece, foldable, optional blue-light protection	Toric multifocal posterior chamber IOL, 1-piece, foldable, optional blue-light protection	Toric posterior chamber IOL, 1-piece, foldable, optional blue-light protection
Optic diameter	6.0 mm	6.0 mm	6.0 mm
Total diameter	12.5 mm	12.5 mm	12.5 mm
Material	Hydrophilic, glistening-free MicroCryl®, UV absorber	Hydrophilic, glistening-free MicroCryl®, UV absorber	Hydrophilic, glistening-free MicroCryl®, UV absorber
Optic features	Central diffractive aspheric anterior surface with a refractive optic periphery, aberration-free, 360° LEC barrier, HD optic Near addition +3.5 D ¹	Central diffractive anterior surface with a refractive optic periphery, toric meridional aspheric posterior surface, aberration-free, 360° LEC barrier, HD optic Near addition +3.5 D ¹	Toric meridional aspheric anterior surface, aberration-free, 360° LEC barrier, HD optic
Haptic design	C-loop	C-loop	C-loop
Estimated A-constant (optical biometry)	118.4 ²	118.4 ²	118.4 ²
XL diopter range	10.0 to 30.0 D in 0.5 D steps Also preloaded in Safeloader®	sph: 10.0 to 30.0 D in 0.5 D steps cyl: 1.0 to 6.0 D in 0.5 D steps Also preloaded in Safeloader®	sph: -20.0 to 40.0 D in 0.5 D steps cyl: 1.0 to 20.0 D in 0.5 D steps Extended diopter range on request
Also available as	MC 6125 DIFF MC 6125 DAY YELLOW		MC 6125 T MC 6125 T-Y YELLOW



DIFFRACTIVA® – FOR PRESBYOPIA CORRECTION
For more natural vision and maximum patient satisfaction³

- FAR: diffractive-refractive optic design for outstanding vision in all lighting conditions
- INTERMEDIATE: DOLA technology for vision at intermediate distance with optimal light distribution and reduced photic effects
- NEAR: near addition for an ergonomic reading distance

TORICA® – FOR ASTIGMATISM CORRECTION
Precision based on experience

- MERIDIONAL ASPHERIC optic design for the most precise image quality
- Clinically proven HIGH ROTATIONAL STABILITY⁴
- Outstanding refractive results⁴
- Unanimous patient agreement⁴
- XL DIOPTRER RANGE

TORICADIFF – PRESBYOPIA CORRECTION FOR PATIENTS WITH ASTIGMATISM
Combines the benefits of DIFFRACTIVA® and TORICA®

- Excellent vision at all distances⁵
- High PATIENT SATISFACTION⁵
- Clinically proven high rotational stability⁵

The word 'aberration' as used in this document refers to spherical aberration.
Note: Please refer to the instructions for a complete list of indications, warnings, and precautions. Delivery times and prices of individual models may vary subject to their power.

¹ At IOL plane.

² For more details, please visit www.humanoptics.com.

³ Dexl AK et al. Visual performance after bilateral implantation of a new diffractive aspheric multifocal intraocular lens with a 3.5 D addition. Eur J Ophthalmol. 2014 Jan-Feb; 24(1):35-43.

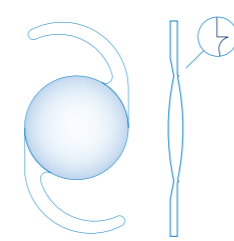
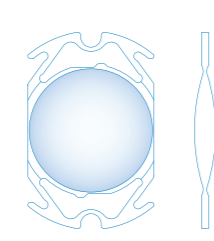
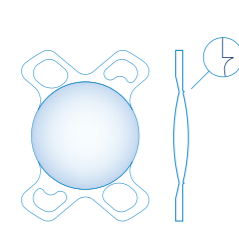
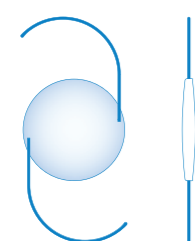
⁴ Gyöngyössi B et al. Rotational stability and patient satisfaction after implantation of a new toric IOL. Eur J Ophthalmol 2016; 26 (4): 321-327.

⁵ Clinical evaluation of toric multifocal intraocular lens ToricaDiff-aA. Data on file, HumanOptics AG 2016.



INDIVIDUAL APPLICATION AND IOL CALCULATION SERVICE

Benefit from our online toric calculator, *MicroTrace*, at www.micro-trace.com, or consult our experts for precise, individual calculations: application@humanoptics.com.



HIGHEST PRECISION FOR OPTIMAL PATIENT CARE

MODEL	ASPIRA®3P-aVA	ASPIRA-aQA	MC X11 ASP	ASPIRA-aA ASPIRA-aAY YELLOW SL
Type	Monofocal posterior chamber IOL, 3-piece, foldable	Monofocal posterior chamber IOL, 1-piece, foldable	Monofocal posterior chamber IOL, 1-piece, foldable	Monofocal posterior chamber IOL, 1-piece, foldable, optional blue-light protection
Optic diameter	6.0 mm	6.0 mm	7.0 to 5.5 mm	6.0 mm
Total diameter	13.0 mm	10.5 mm	11.0 mm	12.5 mm
Material	Optic: Hydrophilic, glistening-free MicroCryl®, Haptic: Highly flexible blue PES	Hydrophilic, glistening-free MicroCryl®, UV absorber	Hydrophilic, glistening-free MicroCryl®, UV absorber	Hydrophilic, glistening-free MicroCryl®, UV absorber
Optic features	Aspheric posterior surface, aberration-free, 360° sharp posterior edge, HD optic	Aspheric anterior surface, aberration-free, 360° LEC barrier	Biaspheric, aberration-correcting, Optic diameter depending on IOL power, 360° sharp posterior edge, HD optic	Aspheric anterior surface, aberration-free, 360° LEC barrier, HD optic (within the standard diopter range)
Haptic design	C-loop	Quattro-haptics	Modified frame haptic	C-loop
Estimated A-constant (optical biometry)	118.6 ²	118.7 ²	118.3 ²	118.4 ²
XL diopter range	10.0 to 30.0 D in 0.5 D steps	0 to 30.0 D in 1.0 D steps 10.0 to 30.0 D in 0.5 D steps Extended diopter range on request	-6.0 to 40.0 D in 1.0 D steps 10.0 to 30.0 D in 0.5 D steps Extended diopter range on request	-20.0 to 60.0 D in 1.0 D steps 10.0 to 30.0 D in 0.5 D steps Also preloaded in Safeloader® , diopter range may differ
Also available as		MC 6105		MC 6125 AS MC 6125 AS-Y YELLOW Comparable model also available with spherical optic: AS/MC 5812AS

Sub-nano resolution technology
Premium quality optics
For clearer and sharper images

Aspheric optic design
Aberration-free
Suitable for all patients, regardless of corneal spherical aberration
To preserve depth of field and enhance contrast sensitivity⁶

360° LEC barrier
To prevent PCO

Excellent material properties
Inspired by nature
Glistening-free with excellent uveal biocompatibility
Clinically proven for more than 18 years

MICS
For minimal-invasive implantation
Astigmatism-neutral

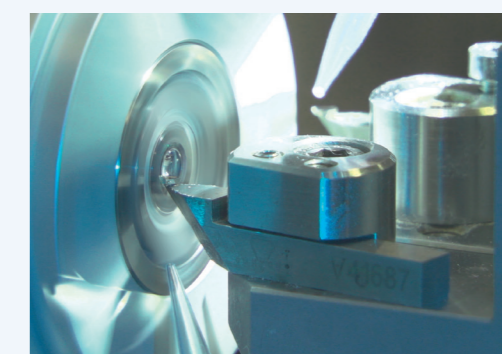


SAFELOADER®
INTUITIVE. SIMPLE. FAST.

Convenient, astigmatism-neutral implantation for the highest standards in the OR.

For maximum safety level and flexibility in the OR.

SL



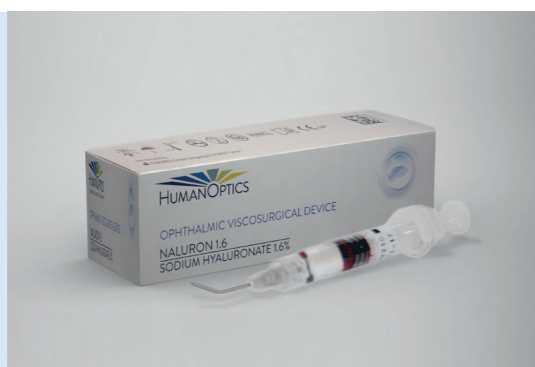
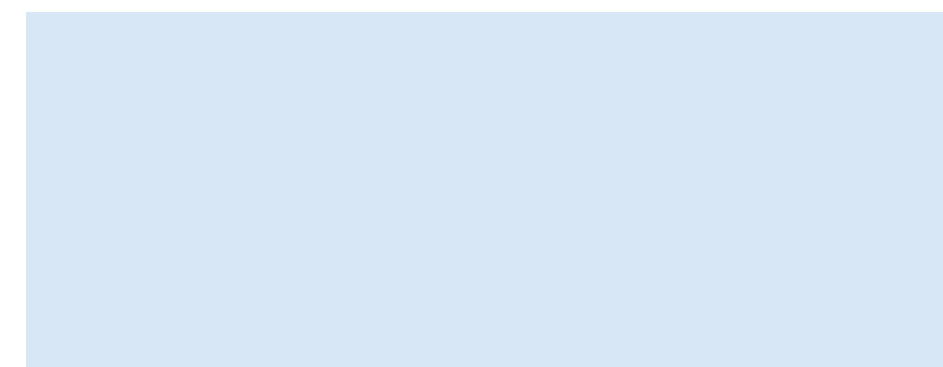
THE HUMANOPTICS ADVANTAGE
ADVANCED IOLS. FOR YOUR SUCCESS.

Innovative engineering
Ultra-modern products for best-in-class solutions

Sub-nano resolution technology
Premium quality optical surface for brilliant, clear, and sharp images

Premium quality
100% made in Germany in accordance with the strictest standards of quality management

Top-tier service
Benefit from our team of experts for precise, individual IOL calculations



VISCO 2.0
Viscoelastic solution based on HPMC

- 2.0% hydroxypropyl methylcellulose, pH 6.8–7.5
- Viscosity: approx. 4000–5000 mPas (after steam sterilization)
- Osmolality: 270–400 mOsm/kg
- 2.0 ml

NALURON 1.6 – NALURON 1.8
Viscoelastic solution based on NaHA

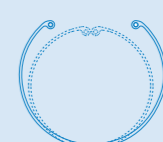
- 1.6% and 1.8% sodium hyaluronate, pH 6.8–7.4
- Molecular weight: 1.2–2.0 million daltons
- Viscosity: Naluron 1.6 approx. 60 000 mPas
Naluron 1.8 approx. 100 000 mPas (after steam sterilization)
- Osmolality: 270–400 mOsm/kg
- 1.0 ml

⁶ As compared to aberration-correcting and conventional spherical IOLs, respectively.



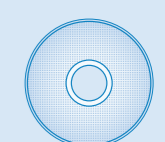
MICROPLEX® CAPSULAR TENSION RING – CTR 13/11

- Diameter relaxed: 13.0 mm
- Diameter compressed: 10.5 mm
- High-molecular PMMA
- With two positioning holes

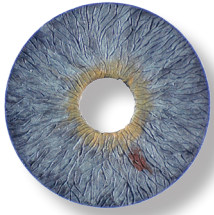


MICROSIL® DIAPHRAGM – DP 4128

- Pupillar closed diaphragm
- Overall diameter: 12.8 mm
- Central transparent zone: 3.5 mm
- Silicone elastomer with polymer tissue



CUSTOM-MADE



PREMIUM RESULTS FOR ANIRIDIA PATIENTS

- Overall diameter: 12.8 mm
- Pupil size: 3.35 mm
- Individually custom-made
- Injectable
- Globally unique

For further information, please visit
www.artificial-iris.com, or contact
customerservice@humanoptics.com.



TWO MODELS ARE AVAILABLE

ARTIFICIALIRIS
with Fiber

For cases where suturing
is indicated

ARTIFICIALIRIS
Fiber Free

For cases where suturing
is not indicated



The implant can be
individually sized and shaped

PLEASE NOTE:

The ARTIFICIALIRIS is not intended for cosmetic color change. The ARTIFICIALIRIS is designed for placement in the posterior chamber, not in the anterior chamber. It is strongly recommended that the ARTIFICIALIRIS be implanted after natural lens removal and IOL implantation.

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