PREMIUM IOL PLATFORM
ACRYLIC ASPHERIC MONOBLOC

DIFFRACTIVA® | TORICA® | TORICADIFF
The innovative design of the DIFFRACTIVA® DIFF-aA/-aAY combines a number of optical principles:

- **FOR FAR DISTANCE: DIFRACTIVE REFRACTIVE OPTIC DESIGN**
  Outstanding vision in all lighting conditions

- **FOR INTERMEDIATE DISTANCE: DOLA TECHNOLOGY**
  Optimization of intermediate vision using local asphericity

- **FOR NEAR DISTANCE: EXTRA ADDITION**
  For optimum near vision at an ergonomic reading distance

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**Maximum reading comfort**
Ergonomic reading distance through central diffractive element

- 360° LEC barrier
  To prevent PCO

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

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

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

- Preloaded SAFELOADER®
  For minimal-invasive implantation
  Astigmatism-neutral
EFFICIENT LIGHT DISTRIBUTION
INSPIRED BY THE NATURAL EYE
The light distribution of the IOL is ideally regulated through the interaction of the illumination intensity and the pupil. Patients benefit from ideal imaging conditions adapted to individual vision requirements.

The result:
- Outstanding distance vision in daylight and low-lighting conditions
- Excellent vision in the intermediate range
- Unsurpassed near-vision comfort

CENTRAL DIFRACTIVE MULTIFOCAL ZONE
REFRACTIVE STRUCTURE OF THE OPTICAL PERIPHERY
- The diffractive element is focused on the central optical zone. Glare is reduced to a minimum.
- The refractive peripheral area generates outstanding distance vision comparable to monofocal IOLs: a decisive advantage for patient safety under mesopic conditions.

DOLA - DIFRACTIVE OPTIC, LOCAL ASPHERICITY
- The efficient use of local asphericity improves vision in the intermediate range.
- Glare and light loss, which frequently occur in polyfocal IOLs are significantly reduced.

Gradual reduction of the diffractive steps enables a smooth transition from near to far vision.

NEAR ADDITION - FOR IDEAL READING COMFORT
- Fulfills all of the visual requirements for the near range at the physiological working distance.
- Takes into account increased need for magnification in advanced age.

4 Neuronal cell degeneration and loss of visual ability are frequently cited as causes.
HIGH PATIENT SATISFACTION

The DIFF-aA/-aAY impresses with outstanding clinical results and high patient satisfaction.

- 100% of patients are very satisfied or satisfied
- 92% glasses-independence
- 96% are not disturbed by glare

VISUAL RESULTS

Uncorrected visual acuity

- 100% of patients achieved far and near vision of ≥ 0.8,
  more than 80% of those had ≥1.0
- 83% of patients achieved intermediate vision of ≥0.8

BINOCULAR DEFOCUS CURVE

The defocus curve demonstrates the outstanding optical performance of the DIFF-aA/-aAY for far and near vision as well as the efficiency of DOLA technology for the intermediate range.

EXCELLENT CONTRAST SENSITIVITY

Patients achieved better contrast sensitivity under photopic and mesopic conditions when compared with non-operated persons of the same age group.

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2 Data on file, Medizinische Optik am Institut für Medizinische Physik, Friedrich-Alexander Universität Erlangen-Nürnberg.
The TORICA-aA/-aAY achieves maximum image quality through its toric, meridional aspheric anterior surface. Both meridians are aberration-free. This is a major advantage over conventional correction of mean asphericity.

**CONVINCING LENS DESIGN**

**XL DIOPTER RANGE**

The TORICA-aA/-aAY has a product range that is unsurpassed:

**SPHERE** -20.0 to 40.0 D

**CYLINDER** 1.0 to 20.0 D

Extended diopter range of TORICA-aA/-aAY is available on request.

The highly visible axis mark on the anterior optic surface enables simple and reliable positioning of the IOL.

**EFFICIENT FOR PATIENTS, CLINICALLY PROVEN**

**PREDICTABLE ROTATIONAL STABILITY**

- 2° mean IOL rotation 6 months postoperative (n = 34).
- The highly visible axis mark on the anterior optic surface enables simple and reliable positioning of the IOL.

**THE AUTHORS SUM UP:**

"Implantation of the TORICA-aA/-aAY IOL was safe and effective in reducing low to moderate preexisting corneal astigmatism and provided good rotational stability and refractive outcomes, which led to a high degree of patient satisfaction."

**UNANIMOUS PATIENT SATISFACTION**

100% of the study participants would decide again for the implantation of the TORICA-aA/-aAY IOL.

**TOP-TIER SERVICE**

Use our online IOL calculator for accurate, customized IOL calculations at www.micro-trace.com or contact our experts directly.

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### Technical Information

**PREMIUM IOL PLATFORM**

- HD optics
- Sub-nano resolution technology
- MICS
- XL diopter range

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WWW.HUMANOPTICS.COM

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DIFF-aA</th>
<th>DIFF-aAY YELLOW</th>
<th>TORICADIFF-aA</th>
<th>TORICADIFF-aAY YELLOW</th>
<th>TORICA-aA</th>
<th>TORICA-aAY YELLOW</th>
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<tbody>
<tr>
<td>Type</td>
<td>Multifocal posterior chamber IOL, 1-piece, foldable, blue light protection optional, also available preloaded in Safeloader®</td>
<td>Toric multifocal posterior chamber IOL, 1-piece, foldable, blue light protection optional, also available preloaded in Safeloader®</td>
<td>Toric posterior chamber IOL, 1-piece, foldable, blue light protection optional</td>
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<tr>
<td>Material</td>
<td>Hydrophilic glistening-free MicroCryl®, UV absorber</td>
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<tr>
<td>Water content</td>
<td>26% at 35 °C</td>
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<tr>
<td>Optic design</td>
<td>Central diffractive aspheric anterior surface with a refractive optic periphery, aberration-free</td>
<td>Central diffractive anterior surface with a refractive optic periphery</td>
<td>Toric meridional aspheric anterior surface, aberration-free</td>
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<td>Haptic design</td>
<td>C-loops</td>
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<tr>
<td>Delivery range sphere</td>
<td>10.0 to 30.0 D in 0.5 D steps</td>
<td>10.0 to 30.0 D in 0.5 D steps</td>
<td>-20.0 to 40.0 D in 0.5 D steps</td>
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<tr>
<td>Delivery range cylinder</td>
<td>-</td>
<td>1.0 to 6.0 D in 0.5 D steps</td>
<td>1.0 to 20.0 D in 0.5 D steps</td>
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<tr>
<td>Near addition</td>
<td>+3.5 D (at IOL plane)</td>
<td>+3.5 D (at IOL plane)</td>
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<td>Feature</td>
<td>Posterior surface with 360° LEC barrier; extended diopter range on request</td>
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<tr>
<td>Also available as:</td>
<td>MC 6125 DIFF/DAY</td>
<td>MC 6125 T/T-Y</td>
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