TECNIS® Toric Aspheric IOL
Quick Start Aid

TECNIS® Toric IOL is uniquely designed to deliver:

• Precise astigmatism correction
• Excellent rotational stability via a next-generation one-piece design
  - TriFix 3-point fixation allows enhanced contact between the posterior optic surface and anterior surface of the posterior capsule
  - ProTEC 360° edge provides uninterrupted contact at the haptic-optic junction to limit LEC migration
• Sharper vision due to spherical aberration correction1
• Accurate lens model selection and axis placement through a precise yet simple IOL calculator
• A far-reaching astigmatism solution through a wide spectrum of cylinder power options
• Advanced performance with no change in your preferred technique

Indications:
The TECNIS® Toric 1-Piece lens is indicated for the visual correction of aphakia and preexisting corneal astigmatism in adult patients with or without presbyopia, in whom a cataractous lens has been removed by extracapsular cataract extraction and who desire improved uncorrected distance vision, reduction of residual refractive cylinder, and increased spectacle independence for distance vision. This device is intended to be placed in the capsular bag.

References:
2. TECNIS Toric Foldable Posterior Chamber Intraocular Lens [package insert]. Santa Ana, Calif: Abbott Medical Optics Inc.
3. Zhao H, Pires RA, Mariner MA. The additive effects of different optical design elements contributing to contrast loss in pseudophakic eyes implanted with different aphakic IOLs. Presented at 27th Congress of the ESCRS; 2009 Sep 4-8; Barcelona, Spain.

Cylinder Power Options

<table>
<thead>
<tr>
<th>Lens Model</th>
<th>ZCT100</th>
<th>ZCT150</th>
<th>ZCT225</th>
<th>ZCT300</th>
<th>ZCT400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder Power</td>
<td>1.00 D</td>
<td>1.50 D</td>
<td>2.25 D</td>
<td>3.00 D</td>
<td>4.00 D</td>
</tr>
<tr>
<td>IOL Plane</td>
<td>0.69 D</td>
<td>1.03 D</td>
<td>1.54 D</td>
<td>2.06 D</td>
<td>2.74 D</td>
</tr>
<tr>
<td>Corneal Plane</td>
<td>0.50-0.75 D</td>
<td>0.75-1.50 D</td>
<td>1.50-2.00 D</td>
<td>2.00-2.75 D</td>
<td>&gt;2.75 D</td>
</tr>
<tr>
<td>Correction Range</td>
<td>0.50-0.75 D</td>
<td>0.75-1.50 D</td>
<td>1.50-2.00 D</td>
<td>2.00-2.75 D</td>
<td>&gt;2.75 D</td>
</tr>
</tbody>
</table>

*Based on average pseudophakic human eye.

Cylinder Axis Marks

Anterior cylinder axis marks denote IOL meridian with lowest power

Haptics offset for 3-points of fixation

Frosted, continuous 360° posterior square edge

TECNIS® Toric Aspheric IOL Specifications

<table>
<thead>
<tr>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powers</td>
</tr>
<tr>
<td>Cylinder Powers</td>
</tr>
<tr>
<td>Diameter</td>
</tr>
<tr>
<td>Optic Overall Length</td>
</tr>
<tr>
<td>Shape</td>
</tr>
<tr>
<td>Material</td>
</tr>
<tr>
<td>Refractive Index</td>
</tr>
<tr>
<td>Edge Design</td>
</tr>
<tr>
<td>Haptic Design</td>
</tr>
<tr>
<td>A-constant*</td>
</tr>
</tbody>
</table>

*Value theoretically derived for a typical 20.0 D lens. AMO recommends that surgeons personalize their A-constant based on their surgical techniques and equipment, experience with the lens model, and postoperative results.

www.TecnisIOL.com/Toric • www.TecnisToricCalc.com • 1-877-AMO-4-LIFE

TECNIS, TriFix, ProTEC, and TECNIS are trademarks owned by or licensed to Abbott Laboratories, its subsidiaries or affiliates.

2010.11.05-CT2567

ABBOTT MEDICAL OPTICS A PROMISE FOR LIFE

Abbott Medical Optics

TECNIS® Toric Aspheric IOL Specifications
Patient Selection Criteria

- Regular preoperative astigmatism
- Continuous curvilinear capsulorhexis possible
- Stable and intact capsular bag
- No preexisting ocular disease or risk factors that could compromise lens centration or stability in the capsular bag

Preoperative Considerations

- Use consistent method for K reading measurements both pre- and postoperatively
- Identify corneal irregularities using topography
- Utilize the TECNIS® Toric IOL calculator to determine the appropriate toric model and power
- Print calculator results for reference in the OR
- Before draping for surgery, make reference marks near the limbus of the operative eye in two locations, 180° apart (ie, 3 and 9 o’clock), when patient is upright to avoid the effects of cyclorotation and to aid with intraoperative axis alignment

Intraoperative Considerations

- Use the Toric Calculator results to verify the TECNIS® Toric IOL model, power, and desired axis placement
- Identify and mark the steep axis of the cornea using an axis gauge of your choice and the preoperative reference marks
- After IOL implantation, align the anterior surface markings of the IOL (four small dots) with the steep axis markings of the cornea for optimal correction of cylinder error

Axis Alignment Phases

1. Gross alignment. Following lens implantation in the capsular bag, rotate the IOL clockwise until it is approximately 10 to 15 degrees before the calculated position.
2. Viscoelastic removal. During OVD removal with preferred technique, take care not to allow the IOL to rotate beyond the calculated position.
3. Final alignment. Using your preferred technique, rotate the IOL clockwise until it is precisely aligned with the final calculated position.

Access highly accurate calculations at www.TecnisToricCalc.com

The TECNIS® Toric IOL Calculator takes into account surgeon preferences, while providing TECNIS® Toric Lens model recommendations, ideal spherical equivalent lens power, and precise axis placement in the capsular bag.

This information is calculated with required data, including preoperative keratometry (to determine existing corneal astigmatism), biometry (to determine spherical equivalent IOL power), incision location, and surgically induced astigmatism estimate. For accurate results, keratometry and biometry results should be as precise as possible.

Example of TECNIS® Toric Calculator Data Results

Toric calculator required data

- Steep K reading
- Steep K meridian/axis
- Flat K reading
- Flat K meridian/axis
- Surgically induced astigmatism estimate
- Incision site

The TECNIS® Toric IOL Calculator is not intended to be used for final diagnosis or as a substitute for surgeon expertise.
Patient Selection Criteria

• Regular preoperative astigmatism
• Continuous curvilinear capsulorhexis possible
• Stable and intact capsular bag
• No preexisting ocular disease or risk factors that could compromise lens centration or stability in the capsular bag

Preoperative Considerations

• Use consistent method for K reading measurements both pre- and postoperatively
• Identify corneal irregularities using topography
• Utilize the TECNIS® Toric IOL calculator to determine the appropriate toric model and power
• Print calculator results for reference in the OR
• Before draping for surgery, make reference marks near the limbus of the operative eye in two locations, 180° apart (i.e., 3 and 9 o’clock), when patient is upright to avoid the effects of cyclorotation and to aid with intraoperative axis alignment

Intraoperative Considerations

• Use the Toric Calculator results to verify the TECNIS® Toric IOL model, power, and desired axis placement
• Identify and mark the steep axis of the cornea using an axis gauge of your choice and the preoperative reference marks
• After IOL implantation, align the anterior surface markings of the IOL (four small dots) with the steep axis markings of the cornea for optimal correction of cylinder error

Axis Alignment Phases

1. Gross alignment. Following lens implantation in the capsular bag, rotate the IOL clockwise until it is approximately 10 to 15 degrees before the calculated position.
2. Viscoelastic removal. During OVD removal with preferred technique, take care not to allow the IOL to rotate beyond the calculated position.
3. Final alignment. Using your preferred technique, rotate the IOL clockwise until it is precisely aligned with the final calculated position.

Access highly accurate calculations at www.TecnisToricCalc.com

The TECNIS® Toric IOL Calculator takes into account surgeon preferences, while providing TECNIS® Toric Lens model recommendations, ideal spherical equivalent lens power, and precise axis placement in the capsular bag.

This information is calculated with required data, including preoperative keratometry (to determine existing corneal astigmatism), biometry (to determine spherical equivalent IOL power), incision location, and surgically induced astigmatism estimate. For accurate results, keratometry and biometry results should be as precise as possible.

Example of TECNIS® Toric Calculator Data Results

Toric calculator required data

• Steep K reading
• Steep K meridian/axis
• Flat K reading
• Flat K meridian/axis

• Surgically induced astigmatism estimate
• Incision site

The TECNIS® Toric IOL Calculator is not intended to be used for final diagnosis or as a substitute for surgeon expertise.
TECNIS® Toric Aspheric IOL
Quick Start Aid

TECNIS® Toric IOL is uniquely designed to deliver:

• Precise astigmatism correction
• Excellent rotational stability via a next-generation one-piece design
  - TriFix 3-point fixation allows enhanced contact between the posterior optic surface and anterior surface of the posterior capsule
  - ProTEC 360° edge provides uninterrupted contact at the haptic-optic junction to limit LEC migration
• Sharper vision due to spherical aberration correction
• Accurate lens model selection and axis placement through a precise yet simple IOL calculator
• A far-reaching astigmatism solution through a wide spectrum of cylinder power options
• Advanced performance with no change in your preferred technique

Lens Model

<table>
<thead>
<tr>
<th>Lens Model</th>
<th>ZCT100</th>
<th>ZCT150</th>
<th>ZCT225</th>
<th>ZCT300</th>
<th>ZCT400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder Power</td>
<td>1.00 D</td>
<td>1.50 D</td>
<td>2.25 D</td>
<td>3.00 D</td>
<td>4.00 D</td>
</tr>
<tr>
<td>IOL Plane</td>
<td>0.69 D</td>
<td>1.03 D</td>
<td>1.54 D</td>
<td>2.06 D</td>
<td>2.74 D</td>
</tr>
<tr>
<td>Corneal Plane*</td>
<td>0.50–0.75 D</td>
<td>0.75–1.50 D</td>
<td>1.50–2.00 D</td>
<td>2.00–2.75 D</td>
<td>&gt;2.75 D</td>
</tr>
</tbody>
</table>

Indications:

The TECNIS® Toric 1-Piece lens is indicated for the visual correction of aphakia and preexisting corneal astigmatism in adult patients with or without presbyopia, in whom a cataractous lens has been removed by extracapsular cataract extraction and who desire improved uncorrected distance vision, reduction of residual refractive cylinder, and increased spectacle independence for distance vision. This device is intended to be placed in the capsular bag.

References:

2. TECNIS Toric Foldable Posterior Chamber Intraocular Lens (package insert). Santa Ana, Calif: Abbott Medical Optics Inc.
3. Zhao H, Pflug R, Marletz MA. The additive effects of different optical design elements contributing to contrast loss in pseudophakic eyes implanted with different aspheric IOLs. Presented at 27th Congress of the ESCRS; 2006 Sep 4-8. Barcelona, Spain.