**TECNIS® Multifocal Toric 1-Piece Aspheric IOL Specifications**

**Description**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Powers</strong></td>
<td>+5.0 D to +34.0 D in 0.5 diopter increments</td>
</tr>
<tr>
<td><strong>Cylinder Powers</strong></td>
<td>1.50 D, 2.25 D, 3.00 D, 4.00 D</td>
</tr>
<tr>
<td><strong>Near Add</strong></td>
<td>+4.0 D Near Add power at the IOL plane</td>
</tr>
<tr>
<td><strong>Diameter</strong></td>
<td>6.0mm</td>
</tr>
<tr>
<td><strong>Optic Overall Length</strong></td>
<td>13.0mm</td>
</tr>
<tr>
<td><strong>Shape</strong></td>
<td>Biconvex, anterior toric aspheric surface, posterior diffractive surface</td>
</tr>
<tr>
<td><strong>Material</strong></td>
<td>UV-blocking hydrophobic acrylic</td>
</tr>
<tr>
<td><strong>Refractive Index</strong></td>
<td>1.47</td>
</tr>
<tr>
<td><strong>Edge Design</strong></td>
<td>ProTEC frosted, continuous 360° posterior square edge</td>
</tr>
<tr>
<td><strong>Haptic Design</strong></td>
<td>Offset from optic with 3-point fixation</td>
</tr>
<tr>
<td><strong>A-constant</strong></td>
<td>119.3 (optimized value for optical biometry)</td>
</tr>
</tbody>
</table>

*AMO recommends that surgeons personalize their A-constant based on their surgical techniques and equipment, experience with the lens model and postoperative results.*
TECNIS® Multifocal Toric 1-Piece Aspheric IOL
Hydrophobic Acrylic
Quick Start Aid

TECNIS® Multifocal Toric Aspheric IOL is uniquely designed to deliver:

- Designed to provide the same high level of spectacle independence associated with the TECNIS® Multifocal 1-Piece IOL
- Full diffractive surface for pupil independent performance
- Excellent Rotational Stability
- Next-generation one-piece design
  - **Tri-Fix** 3-point fixation allows enhanced contact between the posterior optic surface and anterior surface of the posterior capsule
  - **ProTEC** frosted 360° edge provides uninterrupted contact at the haptic-optic junction to limit LEC migration
- Accurate lens model selection and axis placement through a precise yet simple IOL calculator
- Advanced performance with no change in your preferred implantation technique
- Ease of implantation with the **UNFOLDER** Platinum 1 Series Implantation System

### Cylinder Power Options

<table>
<thead>
<tr>
<th>Lens Model</th>
<th>ZMT150</th>
<th>ZMT225</th>
<th>ZMT300</th>
<th>ZMT400</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder Power</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>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>0.75–1.50 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>Corneal Astigmatism Correction Range</td>
<td></td>
<td></td>
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</tbody>
</table>

*Based on average pseudophakic human eye.

### Indications for use:

The TECNIS® Multifocal Toric 1-piece lens is indicated for the primary implantation for the visual correction of aphakia and pre-existing corneal astigmatism in [1] astigmatic adult patients with and without presbyopia in whom a cataractous lens has been removed by phacoemulsification and [2] aphakia following efractive lensectomy in astigmatic presbyopic adults, who desire improved uncorrected vision, reduction of residual refractive cylinder, useful near vision and reduced spectacle dependence across a range of distances. The intraocular lenses are intended to maintain rotational stability after implantation in the capsular bag.

### References

1. TECNIS Multifocal 1-Piece Intraocular Lens [package insert], Santa Ana, Calif: Abbott Medical Optics Inc.
3. 140 DOF – TECNIS Toric Rotational Stability Data.
Patient Selection Criteria

- Patient who is motivated to be spectacle-independent
- Understands he or she may initially observe rings around light at night that typically subside over time
- Patient should have realistic expectations and understand that the complete range of vision may not immediately be perfect
- 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
- Identify corneal irregularities using topography
- Utilize the TECNIS® Multifocal 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 Multifocal Toric Calculator print out to verify the TECNIS® Multifocal 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.amocalc.com

The TECNIS® Multifocal Toric IOL calculator is a single use software application that helps you select the most appropriate TECNIS® Multifocal Toric IOL for your patient. The calculator takes into account surgeon preferences accepting the spherical equivalent IOL power as an input for each patient. This allows the surgeons to use the power calculation method and formula of their choice. The TECNIS® Multifocal Toric IOL calculator then calculates cylinder IOL power options for you, as well as the orientation in which the IOL should be implanted to achieve optimum results. In addition, predicted postoperative residual astigmatism is calculated for each cylinder IOL power suggested.

Example of TECNIS® Multifocal Toric IOL Calculator Data Results

Multifocal Toric Calculator required data

- Steep K reading
- Flat K reading
- IOL spherical equivalent power
- Biometry method
- Surgically induced astigmatism estimate
- Incision site
- Axial length
- K index

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