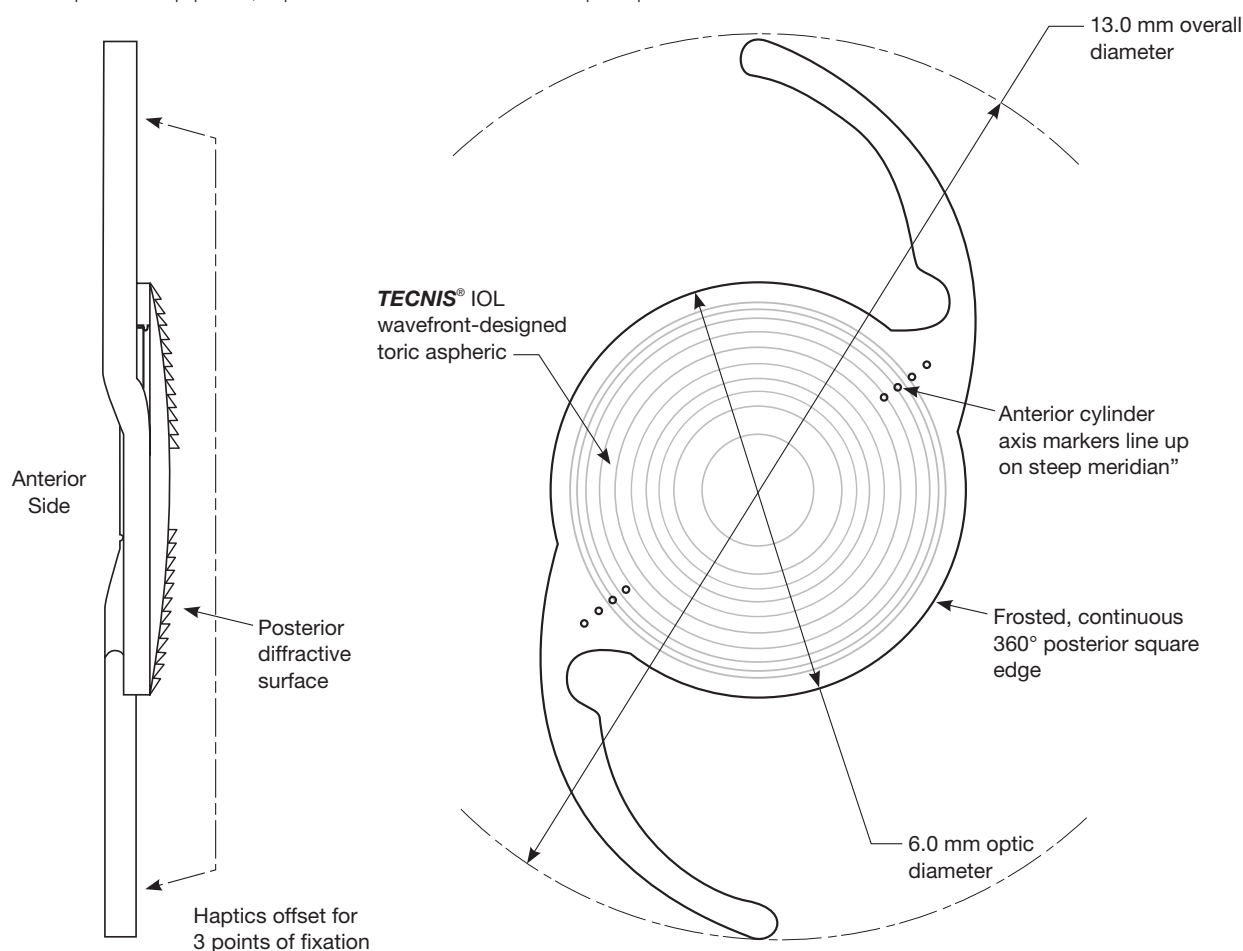


TECNIS® Multifocal Toric 1-Piece Aspheric IOL Specifications

Description

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

*AMO recommends that surgeons personalize their A-constant based on their surgical techniques and equipment, experience with the lens model and postoperative results.



www.TecnisMultifocal.com/Toric • www.amoCalc.com

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2012.07.19-CT5636



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 IOL¹
- Full diffractive surface for pupil independent performance²
- Excellent Rotational Stability³
- 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 migration²
- 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

Lens Model	ZMT150	ZMT225	ZMT300	ZMT400
Cylinder Power	1.50 D	2.25 D	3.00 D	4.00 D
IOL Plane	1.03 D	1.54 D	2.06 D	2.74 D
Corneal Plane*	0.75–1.50 D	1.50–2.00 D	2.00–2.75 D	>2.75 D
Corneal Astigmatism Correction Range				

*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 refractive 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.
2. Terwee T, Weeber H, van der Mooren M, Piers P. Visualization of the retinal image in an eye model with spherical and aspheric, diffractive and refractive multifocal intraocular lenses. *J Refract Surg.* 2008;24:223-32.
3. 140 DOF – TECNIS Toric Rotational Stability Data.
4. Nixon DR, Woodcock MG. Pattern of posterior capsule opacification models 2 years postoperatively with two single-piece acrylic intraocular lenses. *J Cataract Refract Surg.* 2010;36:929-34.

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

TECNIS[®] MULTIFOCAL IOL
DIFFRACTIVE ASPHERIC

TECNIS[®] TORIC

Abbott
A Promise for Life

Support Settings Exit

Toric Multifocal Toric

TECNIS[®] TORIC

Surgeon and Patient Information (I)

Surgeon Name: Dr. Test Date: 10.07.2012
 Patient Information: Case1234 Patient Age: 67
 Eye Selection: OD (Right) OS (Left)
 K Notation: D mm

Keratometry (I)

Surgically Induced Astigmatism (SIA): 0.25 D @ Axis (Incision Location): 180 °
 Flat K1: 42.50 D Flat K1 @ Axis: 90 °
 Steep K2: 45.00 D Steep K2 @ Axis: 0 °
 Preop Corneal Astigmatism: 2.50 D

Biometry (I)

Axial Length: 23.5 mm
 Method: Ultrasound
 A-constant: 118.80

Calculation Preferences (I)

SE IOL power: 20.5 D
 K Index: 1.3375
 Refractive Cylinder Convention: Plus Minus

Final Results (I)

IOL Details		Residual Astigmatism	
IOL Model	Orientation	Cylinder	Axis
<input checked="" type="radio"/> ZMT225	0 °	-0.69 D	90 °
<input type="radio"/> ZMT300	0 °	-0.19 D	90 °
<input type="radio"/> ZMT400	0 °	-0.49 D	0 °

Calculate Results Clear Entries Print Results Order Selected Lens

OD

Temporal

Nasal

90° 45° 135° 180° 0° 0° 225° 270° 315°

Multifocal Toric Calculator required data

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

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