



1/4
DIOPTER



Designed to be the World's Most Accurate,
Bi-Aspheric IOL:

- » Greater precision due to 1/4 diopter increments
- » Patented bi-aspheric design with square edge technology
- » Tighter manufacturing diopter tolerance within +/- 0.11 D
- » Designed to address spherical aberration and defocus





Softec HD Technical Specifications†

Optic Size	5.75 mm
Optic Type	Equal Conic Bi-aspheric
Length	12.00 mm
Haptic Style	Modified C
Angulation	0 Degrees
Positioning Holes	0
Construction	1 Piece
Optic Material	Acrylic Hydrophilic

†The A-Constant and ACD values printed are estimates only. It is recommended that the surgeon determine his or her own values based on their individual clinical experience.

Constants (Optical Interferometry):*

Immersion	A= 118.3
SRK/T	A = 118.3
Holladay1	sf = 1.39
Hoffer Q	pACD = 5.14

*i.e. Using IOL Master, LENSTAR Optical Biometers

Diopter Steps

Whole	+5.00 to +36.00
Half	+10.50 to +29.50
Quarter	+15.00 to +25.00

Softec HD - When it comes to power, what you see is definitely not what you get with standard IOLs.

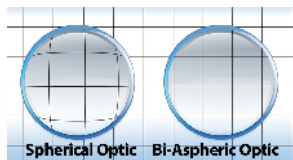
Softec HD New Gold Standard: 0.11 D Tolerance - 3x More Precise! Optical Prescription Selection and Tolerance Example: eye requires 24.25 D Prescription to achieve optimal vision.

Industry Standard IOL			Softec HD IOL		
Lens Prescription	Allowed Tolerance	Max. Variance for a standard IOL in an eye that requires a 24.25D lens is 0.65D . (smaller number is better)	Lens Prescription	Allowed Tolerance	Max. Variance for a Softec HD IOL in an eye that requires a 24.25D lens is 0.11D . (smaller number is better)
24.00	±0.4		24.00	±0.11	
			24.25	±0.11	
24.50	±0.4		24.50	±0.11	
			24.75	±0.11	

The Softec HD, Softec HDO, and Softec HDM are the only IOLs designed to address both Spherical Aberration and Defocus. Defocus is a more significant aberration than Spherical Aberration.¹



Bi-Aspheric Equal Conic Zero aberration IOL. Softec HD addresses the issue of spherical aberration inherent in conventional monofocal spherical IOLs by adjusting the optic with a patented design on both the anterior and posterior surfaces.



Studies have shown that Aspheric IOLs provide patients with significant optical benefits over traditional spherical surface IOLs.^{1,3,5}

Softec HD "Zero" Aberration:

- » Equal Conic Bi-Aspheric
- » Less sensitive to decentration or tilt^{3,4}
- » Ideal for all corneal profiles³
- » Enhanced depth of vision²

Significant Outcomes. The Softec HD has been shown to help achieve refractive outcomes closer to intended⁶, significantly improve depth of field and decrease critical print size required for reading², compared to a standard monofocal IOL.

Proven quality - FDA approved

Lenstec is one of eight companies in the world approved by FDA (Food and Drug Administration) to sell intraocular lenses in the U.S. market. All products have CE certificate, are approved by BSI (British Standards Institute) and are ISO quality system certified.

Stability of the biomaterial from which the intraocular Lenstec lenses are made, is proven by a long term study and confirmed by millions of implanted lenses worldwide.

1. Tibbos L, Hong X, Bradley A, Chang X. Statistical variation of aberration structure and image quality in a normal population of healthy eyes. *J Opt Soc Am A Opt Image Sci Vis* 2002; 19(12): 2329-48. » 2. Craig JP, Shah S, Wolffsohn JS. Clinical evaluation of the Softec HD aberration-free aspheric intraocular lens. *Clin Experiment Ophthalmol* 2011; 39(3): 281-3. » 3. Sarver E. Theoretical optical performance of an equal conic intraocular lens and comparison to spherical and aspheric IOLs. AAO Presentation 2005 » 4. Johansson B1, Sundelin S, Wikberg-Matsson A, et al. Visual and optical performance of the Akreos Adapt Advanced Optics and Tecnis Z9000 intraocular lenses: Swedish multicenter study. *J Cataract Refract Surg* 2007; 33(9): 1565-72. » 5. Nanavaty MA1, Spalton DJ, Boyce J, et al. Wavefront aberrations, depth of focus, and contrast sensitivity with aspheric and spherical intraocular lenses: fellow eye study. *J Cataract Refract Surg* 2009; 35(4): 663-71. » 6. Zudans JV, Desai NR, Trattler WB. Comparison of prediction error: labeled versus unlabeled intraocular lens manufacturing tolerance. *J Cataract Refract Surg* 2012;38(3):394-402.

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