Quarter diopter IOL | Bi-Aspheric

Softec

High definition **Vision**

LENSTEC LENSTEC LENSTEC LENSTEC LENSTEC LENSTEC

Single piece hydrophilic acrylic Lenstec Softec HD

- **Most accurate IOL with patented Bi-aspheric design with Square Edge technology**
- **Greater precision due to quarter diopter increments**
- **Tighter manufacturing diopter tolerance within +/- 0.11 D**
- **FDA Approved quality for the most accurate cataract surgery**

LENSTEC

more information on

www.lenstec.com

Quarter diopter IOL | Bi-Aspheric

Softec HD

Technical Specifications

Optic Size	5.75 mm
Optic Type	Bi-aspheric
Length	12.00 mm
Haptic Style	Modified C
Angulation	0 Degrees
Positioning Holes	0
Construction	1 Piece
Optic Material	Acrylic (26% Water Content)
A/C Depth	5.22 mm
A-Constant(Contact Biometry)	118.00

A-Constant Optimized **(Non-Contact Biometry)**

Haigis	a0 = 1.546 a1 = 0.40 a2 = 0.10
SRK/T	A = 118.43
Holladay1	sf = 1.47
Holladay2	5.22
Hoffer Q	pACD = 5.22

Diopter Steps

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

Softec HD - Designed to be the world's most accurate IOL

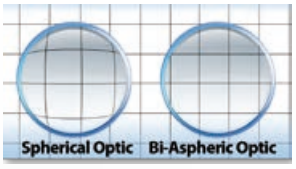
Single piece hydrophilic acrylic (26% Water Content)

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

Industry Standard IOL			Softec HD IOL		
Lens Presciption	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 Presciption	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	

Softec HD is the only IOL designed to address both Spherical Aberration and Defocus. Defocus is a more significant aberration than Spherical Aberration.

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 . [2,12,17]

Softec HD "Zero" Aberration
- » Equal Bi-Aspheric
- » Less sensitive to decentration or tilt[12,13]
- » Ideal for all corneal profiles[12]
- » Enhanced depth of vision [7]

Significant Outcomes. Mean refractive outcome was found to be closer to intended outcome, Depth of field was significantly improved, and Critical print size for fluent reading was smaller when compared to a standard monofocal IOL. [7]

Proven quality - FDA approved

Lenstec is one of eight companies in the world certified 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.

2. Thilos 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, Vol 19. No 21/Dec 2002 » **7.** Craig J, Shah S, Wolffsohn J. Clinical evaluation of the Softec HD aberration-free aspheric intraocular lens. Submitted for publication. » **12.** Sarver E. Theoretical optical performance of an equal conic intraocular lens and comparison to spherical and aspheric IOLs. AAO Presentation 2005 » **13.** Johansson B, Sundelin S, Wikberg-Matsson A, Unsbo P, Behndig A. Visual and optical performance of the Akreos Adapt Advanced Optics and Tecnis Z9000 intraocular lenses: Swedish multicenter study. J Cataract Refract Surg 2007;33:1565-72 » **17.** Nanavaty M, 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: 663 - 671

Lenstec is an ISO 13485 Registered company manufacturing CE Marked products.

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