

CE
2460

Optiflex
GENESIS
comfort NY

PRELOADED ASPHERIC HYDROPHOBIC
NATURAL YELLOW IOL



biotech

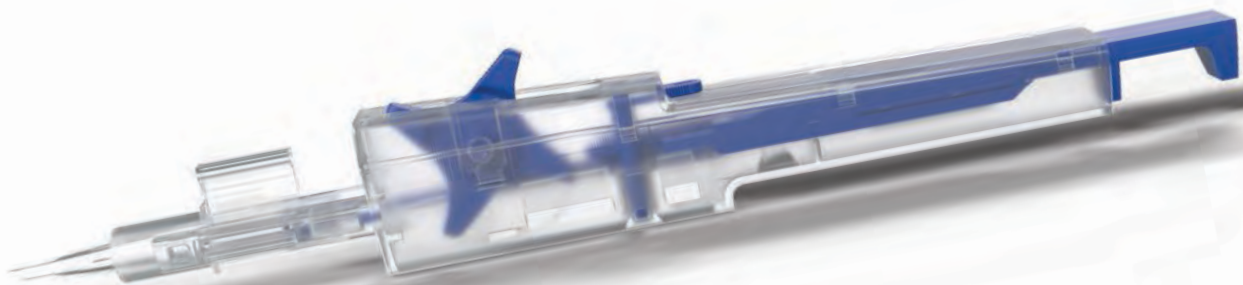
VISION CARE

The Optiflex **GENESIS** *comfort* NY pre-loaded IOL delivery system is easy to use and offers several benefits, such as maintaining IOL sterility from the factory to the operating room.



FEATURES

- The first screw injector enabling single-hand operation for complete control
- 2.2 mm Incision
- Reduced injection pressure by 4 : 1 ratio
- Ergonomic IOL Injection
- In the bag delivery without surgeon's manipulation



IOL implantation is simple using the following steps:

1



Inject adequate amount of any Biotech certified OVD having low to moderate viscosity, as shown here. The OVD should flow up to leading haptic of the IOL. Inject OVD from tip of the cartridge also, to fill the cartridge nozzle. Do not completely fill the chamber as this can move the IOL during insertion.

2



Push the blue injector plunger forward until the front push plate is flush against the injector housing.

3



Close the cartridge flaps. Ensure that the flaps are locked with a "Click" sound.

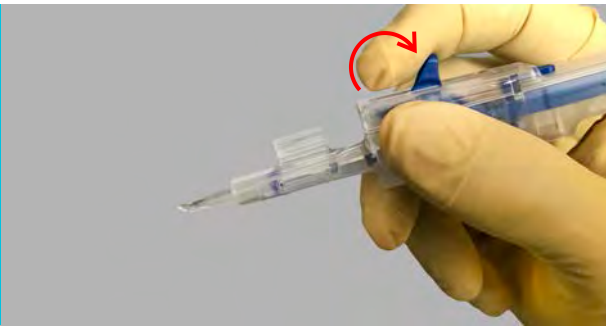
IOL implantation is simple using the following steps:

4



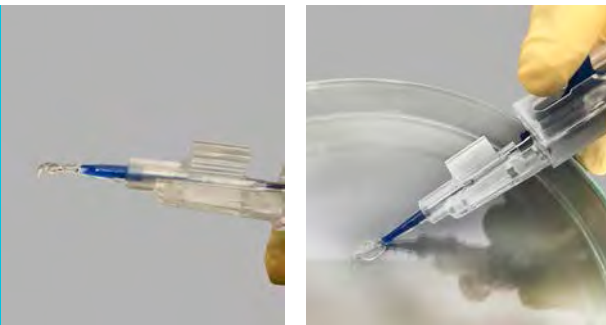
Push the blue injector plunger forward until the rear push plate is flush against the injector housing or until the drive wheel of the injector moves.

5



Hold the delivery system with a "Pen Grip", as shown here and keep your index finger on Drive Wheel.

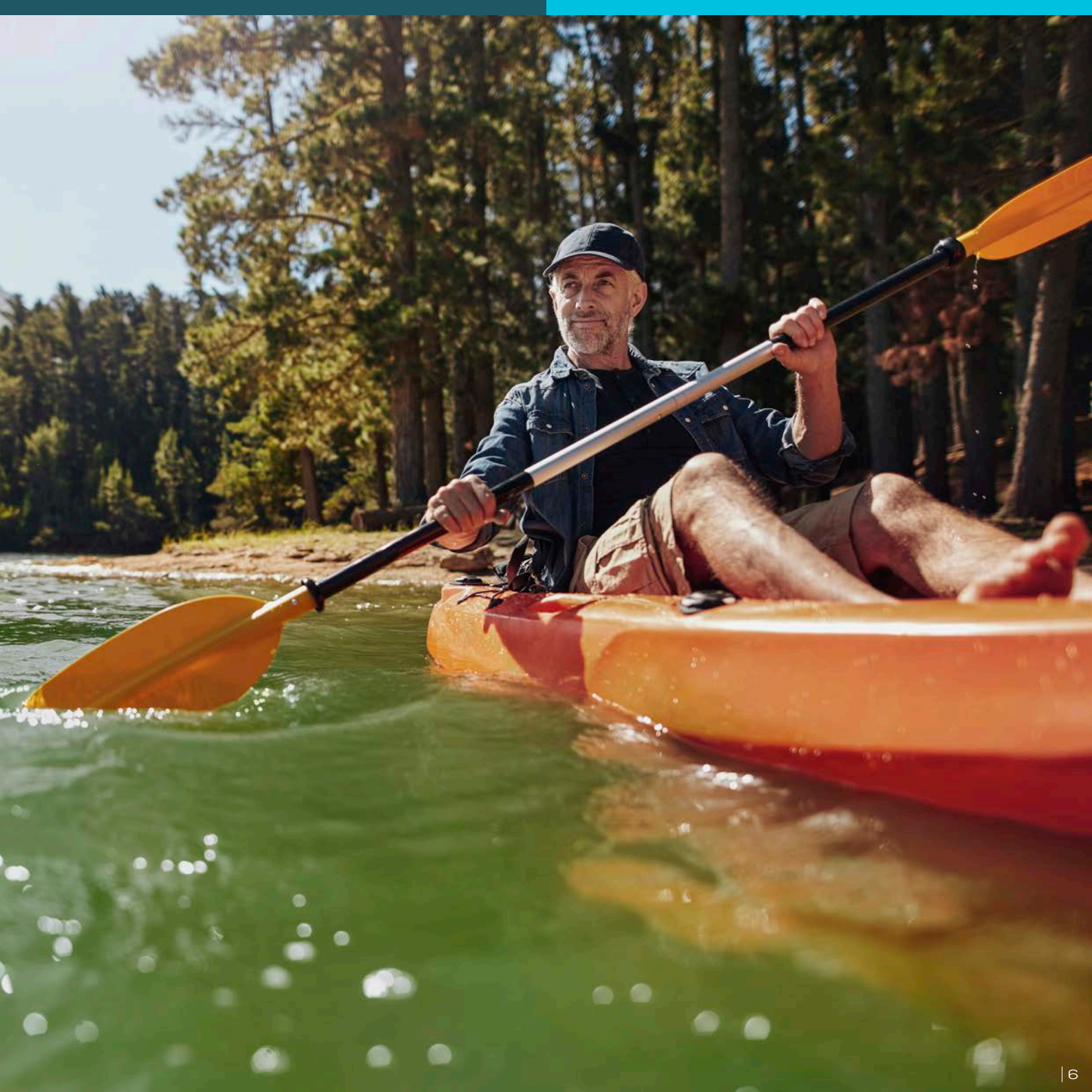
6



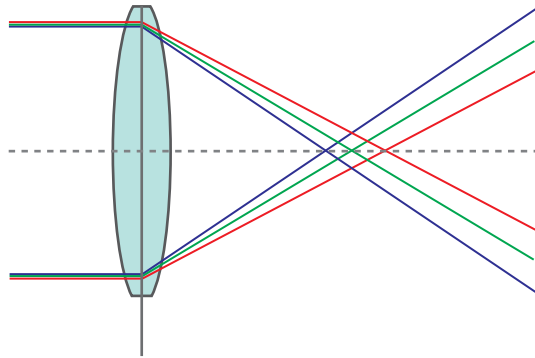
Hold the system with the cartridge tip in a bevel down position. Now using your index finger, pull & rotate the drive wheel back slowly in order to push the lens forward until it is delivered.



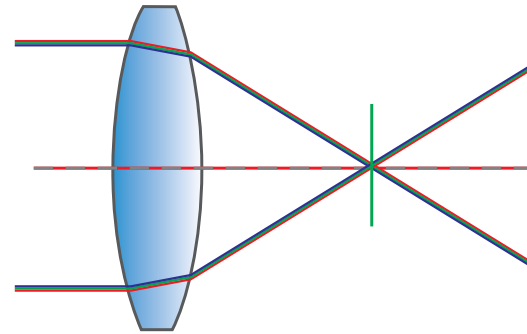
Safest device designed for complete control



CHROMATIC ABERRATION

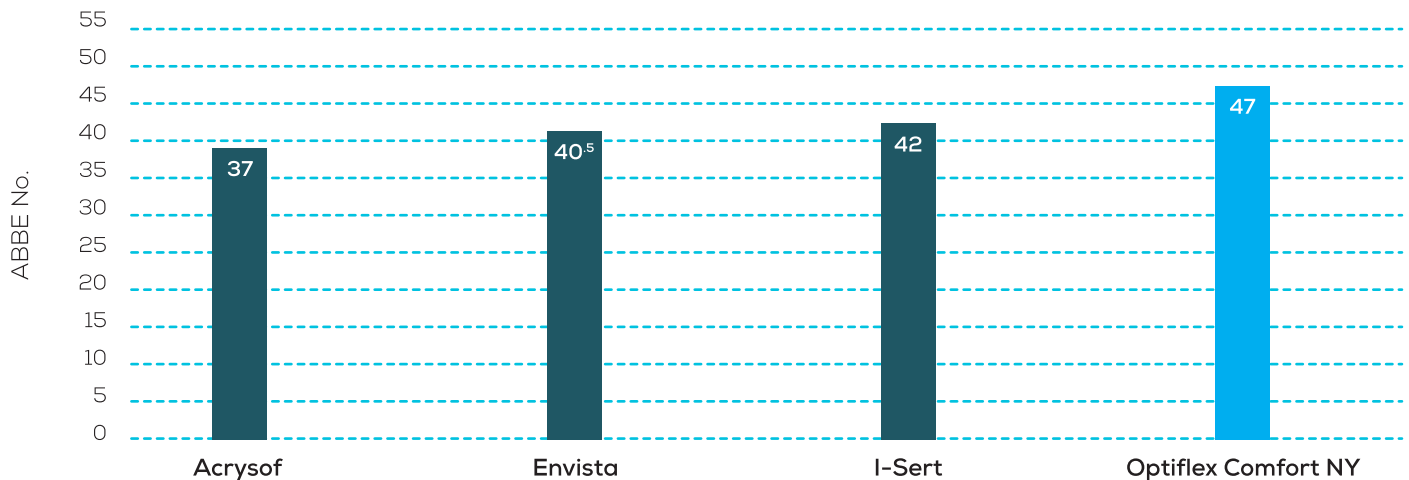


Chromatic Aberration arises through IOL material having low ABBE No.



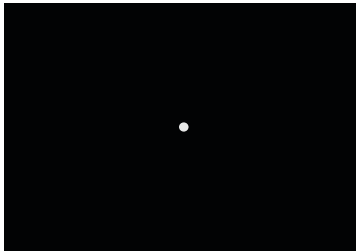
Reduced Chromatic Aberration through IOL material having higher ABBE No.

ABBE No. is a number given to quantify the amount of chromatic aberration of a specific ophthalmic lens material. With a higher ABBE No., there is less chromatic aberration. **Optiflex** IOLS are manufactured using Natural Yellow Hydrophobic material having ABBE No. of 47. This results in decreased amount of Chromatic Aberration & provides excellent visual outcomes post-operatively.

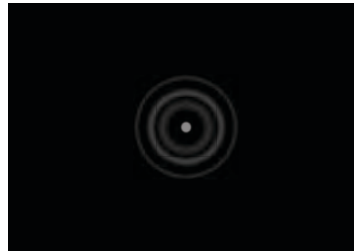


High ABBE No. indicates low degree of Chromatic Aberration

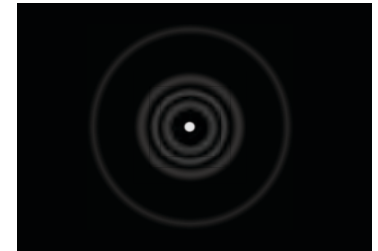
EFFECTS OF RESIDUAL SPHERICAL ABERRATION (SA) ON POINT SPREAD FUNCTION (PSF) AND VISUAL ACUITY (AT 4 MM PUPIL SIZE)



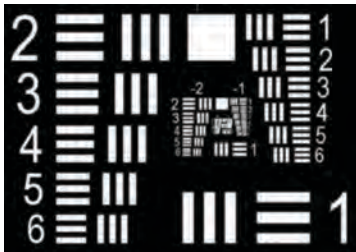
PSF with Optiflex IOL



PSF with Zero SA Lens



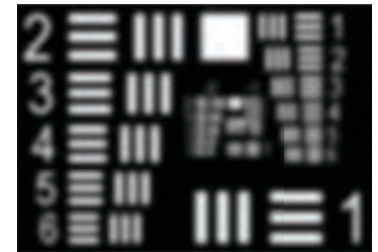
PSF with Positive SA Lens



Visual Acuity through
Optiflex IOL



Visual Acuity through
Zero SA Lens



Visual Acuity through
Positive SA Lens

* The images shown are simulated and not actual.

The human cornea has an average of 0.27 microns of spherical aberration throughout life. At young age, negative spherical aberration of crystalline lens is able to compensate this spherical aberration whereas the ability of lens to compensate spherical aberration decreases with age. This causes degradation of image quality and contrast sensitivity especially in mesopic & scotopic lighting conditions.

The conventional Zero spherical aberration lenses do not compensate corneal spherical aberration whereas positive spherical aberration lenses increase residual spherical aberration of eye and make situation even worse.

The important feature of **Optiflex GENESIS** *comfort* NY IOL is its aspheric design of the optic. The lens is characterized with negative spherical aberration to compensate positive spherical aberration of the cornea. The **Optiflex GENESIS** *comfort* NY IOL acts like young crystalline lens and...

- Reduces overall spherical aberration of eye
- Improves image quality and contrast sensitivity
- Enhances vision in mesopic & scotopic lighting conditions.



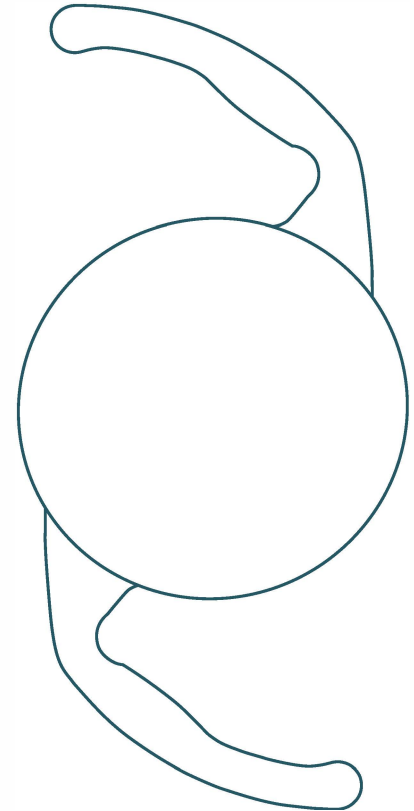
Optiflex
GENESIS
comfort NY



SPECIFICATIONS

MATERIAL	Natural Yellow Hydrophobic									
OPTIC TYPE	Aspheric Optic									
OPTIC SIZE	6.00 mm									
OVERALL SIZE	13.00 mm									
ANGULATION	0°									
ACD	5.28									
REFRACTIVE INDEX	1.524									
ESTIMATED A-CONSTANT	118.5									
RECOMMENDED OPTICAL A-CONSTANTS	<table border="1"> <tr> <td>SRK - T 118.4</td> <td>SRK - II 118.6</td> <td>Holl 1 Const SF : 1.46</td> </tr> <tr> <td colspan="2">HOFFER Q ACD : 5.25</td> <td>HAIGIS $\alpha_0:1.03, \alpha_1:0.40, \alpha_2:0.10$</td> </tr> <tr> <td colspan="3">Barrett: 1.57</td> </tr> </table>	SRK - T 118.4	SRK - II 118.6	Holl 1 Const SF : 1.46	HOFFER Q ACD : 5.25		HAIGIS $\alpha_0:1.03, \alpha_1:0.40, \alpha_2:0.10$	Barrett: 1.57		
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	HOFFER Q ACD : 5.25		HAIGIS $\alpha_0:1.03, \alpha_1:0.40, \alpha_2:0.10$							
	Barrett: 1.57									
DIOPTER RANGE	+5.0 to +30.0 D (with 0.5 D steps)									
IMPLANTATION SITE	Capsular Bag									
STERILIZATION	EO									
SHELF LIFE	4 years from date of manufacture									

Model: LMFA6





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