CE
2460

Optiflex

GENESIS

comfort NY

PRELOADED ASPHERIC HYDROPHOBIC
NATURAL YELLOW IOL

SAFEST DEVICE
DESIGNED FOR
COMPLETE CONTROL

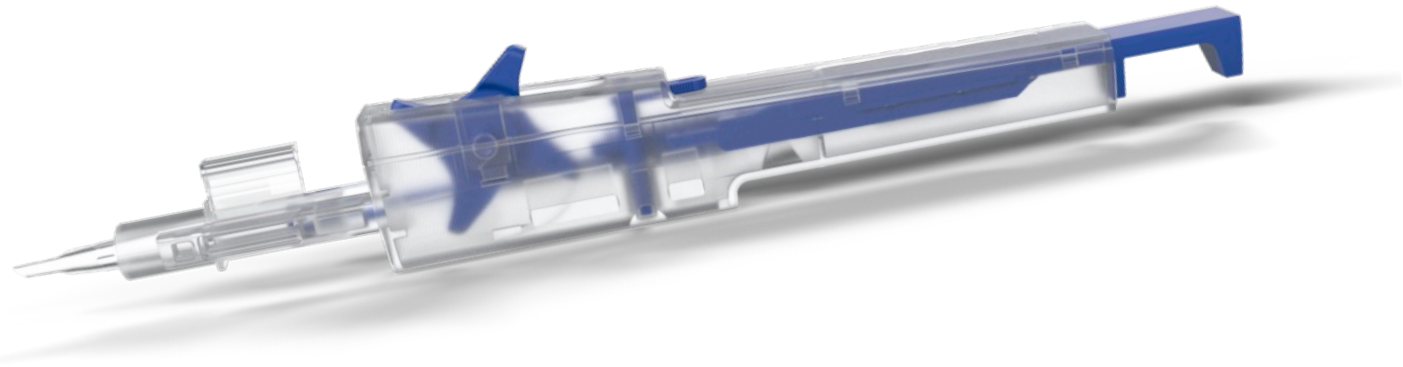
MICS
Compatible

biotech
VISIONCARE

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
- Compatible with 2.2 mm incision
- Reduced injection pressure
- Ergonomic IOL Injection
- Advantages of push & screw type injectors
- In the bag delivery possible without surgical manipulations



IOL implantation is simple using the following steps:

01

Completely fill the entire length of the lens with BSS (don't use chilled BSS) until the entire lens is wrapped and lubricated. Also add lubrication to the tip of the injector until it is completely filled.

02

Push the blue injector plunger forward until the front push plate is flush against the injector housing. It is recommended to execute this step slowly and gently.

03

Inject adequate amount of any Biotech certified OVD having low to moderate viscosity, as shown here. Hydroxypropyl methylcellulose is recommended. 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.

04

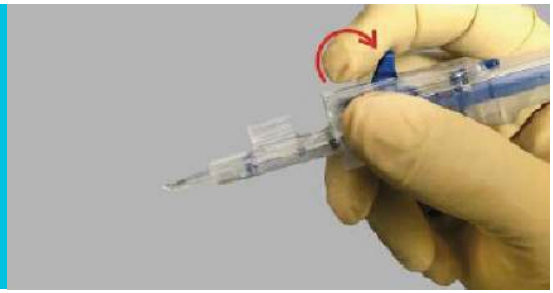
Close the cartridge flaps. Ensure that the flaps are locked with a "Click" sound.

IOL implantation is simple using the following steps:

05

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.
It is recommended to execute this step slowly and gently.

06



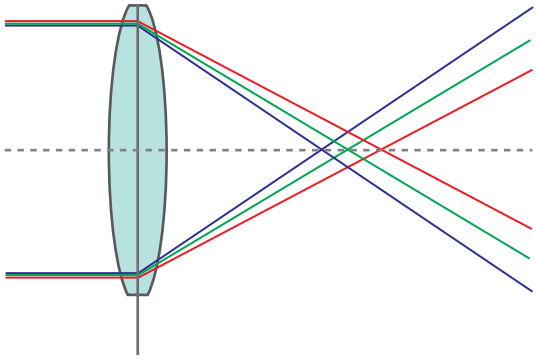
Hold the delivery system with a "Pen Grip", as shown here and keep your index finger on Drive Wheel.

07

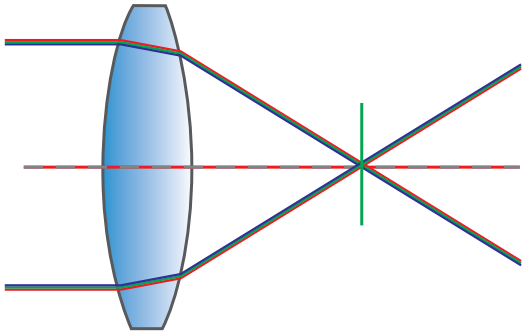
Hold the system with the cartridge tip in a bevel down position. Now using your index finger, pull and rotate the drive wheel back slowly in order to push the lens forward until it is delivered.

Safest device designed
for ***complete control***

CHROMATIC ABERRATION

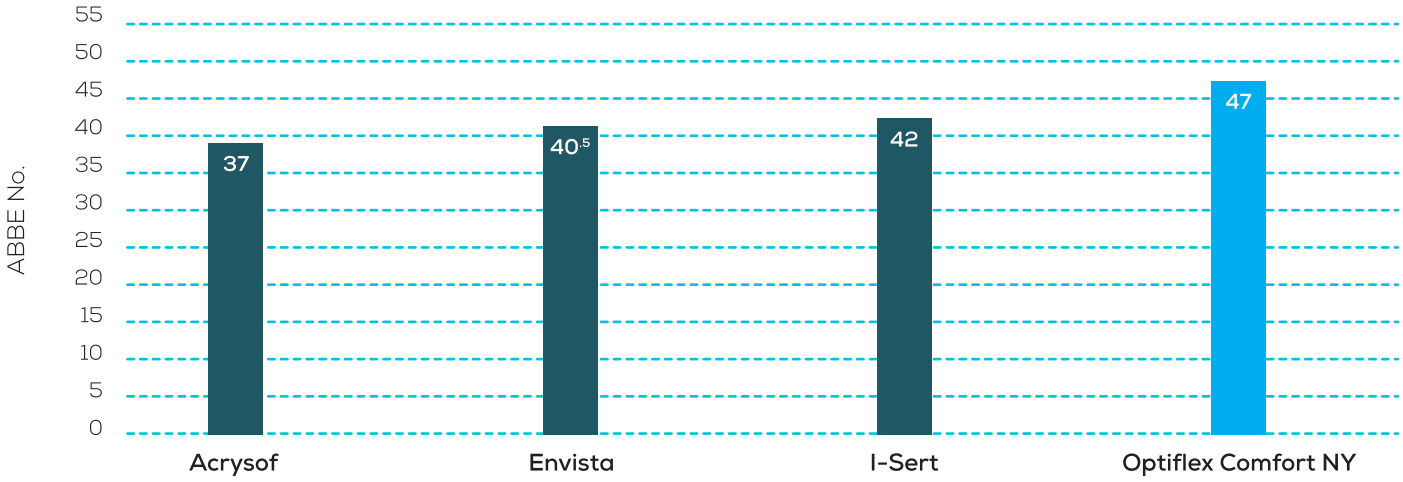


Chromatic Aberration arised through IOL material having low ABBE No.



Reduced Chromatic Aberration through IOL material having higher ABBE No.

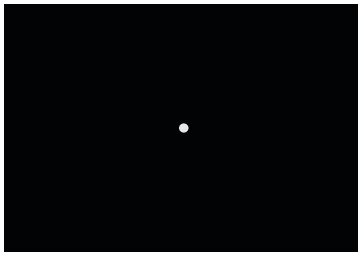
ABBE No. is a number given to quantify the amount of chromatic aberration of a specific ophthalmic lens material. With a higher ABBE No., there is less chromatic aberration. Optiflex IOLS are manufactured using Natural Yellow Hydrophobic material having ABBE No. of 47. This results in decreased amount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



High ABBE No. indicates low degree of Chromatic Aberration

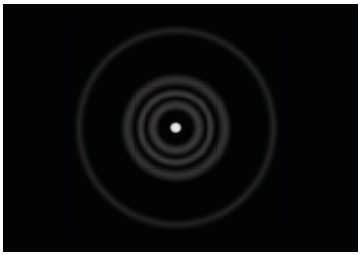
EFFECTS OF RESIDUAL SPHERICAL ABERRATION (SA) ON POINT SPREAD FUNCTION (PSF) AND VISUAL ACUITY

(AT 4 MM PUPIL SIZE)

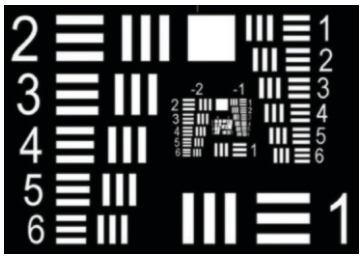


PSF with Optiflex IOL

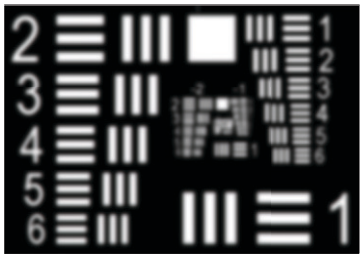
PSF with Zero SA Lens



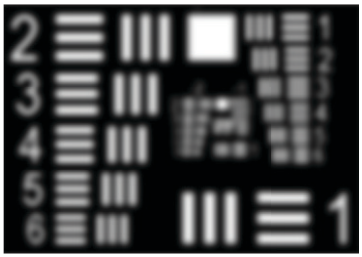
PSF with Positive SA Lens



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 Optirlex 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 Optirlex 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.

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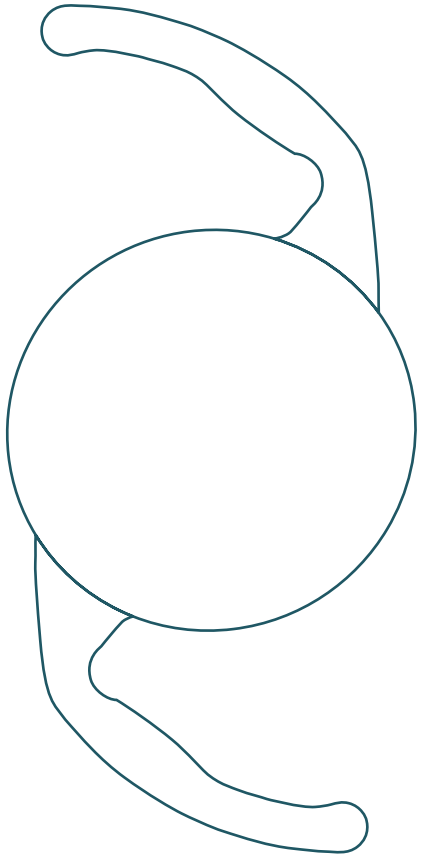
SPECIFICATIONS

MATERIAL	Hydrophobic Acrylic containing Natural Yellow Chromophore		
OPTIC TYPE	Single Piece, 360° Square Edge with Aspheric Optic		
OPTIC SIZE	6.00 mm		
OVERALL SIZE	13.00 mm		
ANGULATION	0°		
ACD	5.28		
REFRACTIVE INDEX	1.524		
RECOMMENDED ULTRASOUND A-CONSTANT	SRK-T 118.40		
RECOMMENDED OPTICAL A-CONSTANTS	HAIGIS a0:1.177, a1:0.400, a2:0.100	HOFFER Q ACD: 5.39	
	Holl 1 : 1.61	Holl 2 : 1.68	SRK – T 118.80
	SRK – II 119.15	Barrett: 1.78	
DIOPTER RANGE	+5.0 D to +30.0 D (with 0.5 D steps)		
IMPLANTATION SITE	Capsular Bag		
STERILIZATION	EO		
SHELF LIFE	3 years from date of manufacture		

Model: LMFA6



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