
Vivinex™ Gemetric™
WE SEE EYE TO EYE
INTRODUCING A NEW FAMILY OF PRELOADED TRIFOCAL IOLS

A NEW RANGE OF VISION

Vivinex™
Gemetric™

Vivinex™ Gemetric™ and **Vivinex™ Gemetric™ Toric**
Designed to provide excellent distance vision, and well balanced intermediate and near vision[1]

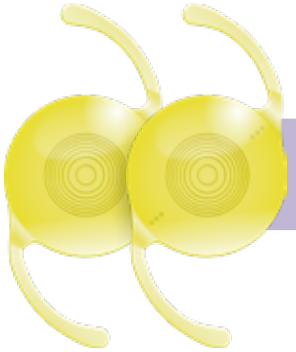
GOOD | GOOD | EXCELLENT

Add power intermediate +1.75 D
Add power near +3.50 D

NEAR | INTERMEDIATE | FAR

Vivinex™
Gemetric™ Plus

Vivinex™ Gemetric™ Plus and **Vivinex™ Gemetric™ Plus Toric**
Designed to provide excellent near vision, while maintaining good distance and intermediate vision[1]



EXCELLENT | GOOD | GOOD

Add power intermediate +1.75 D
Add power near +3.50 D

THE FREEDOM TO CHOOSE

Two complementary profiles to meet individual patient needs

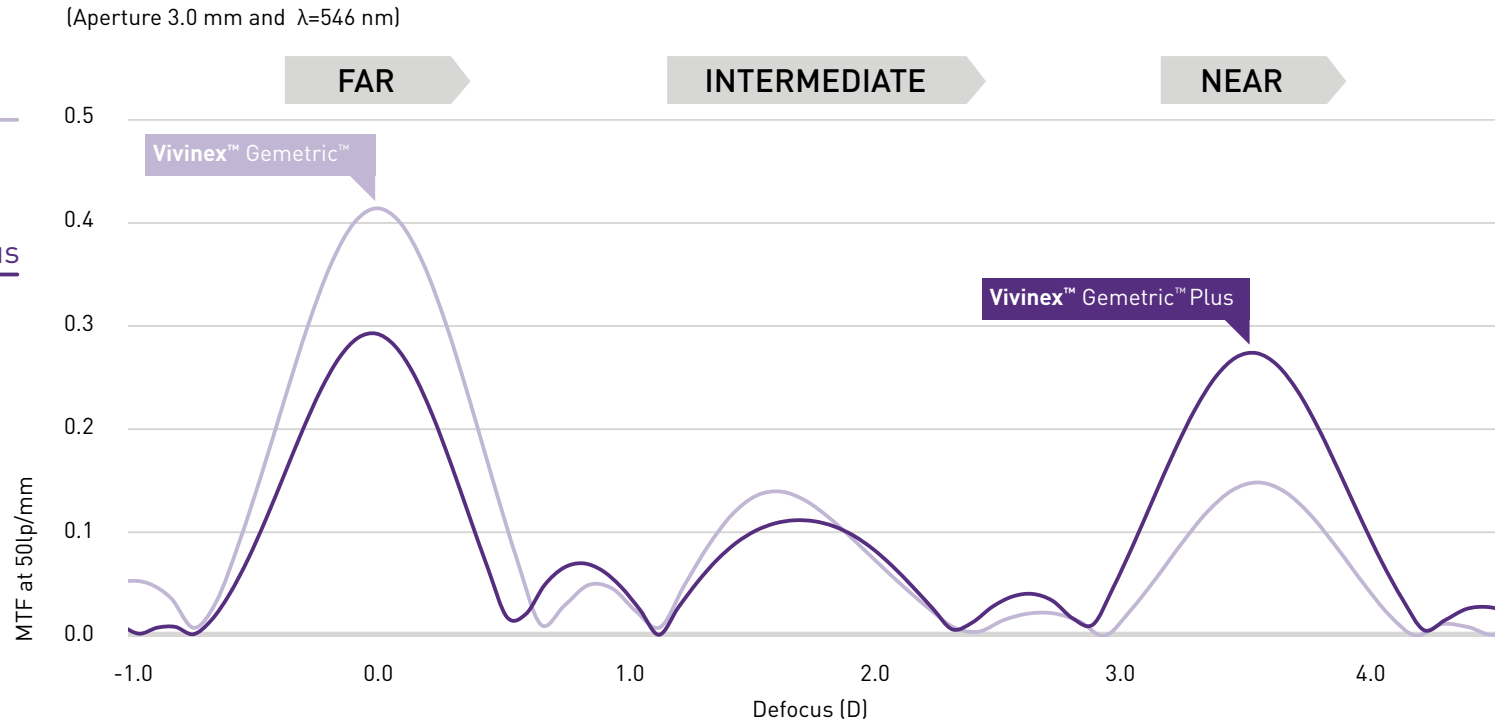
Simulated MTF through focus response showing the difference between Vivinex™ Gemetric™ and Vivinex™ Gemetric™ Plus

Vivinex™ Gemetric™

More dominant for far distance[1]

Vivinex™ Gemetric™ Plus

More dominant for near distance[1]



Vivinex™ Gemetric™

Vivinex™ Gemetric™ Plus

Vivinex™ Gemetric™ Toric

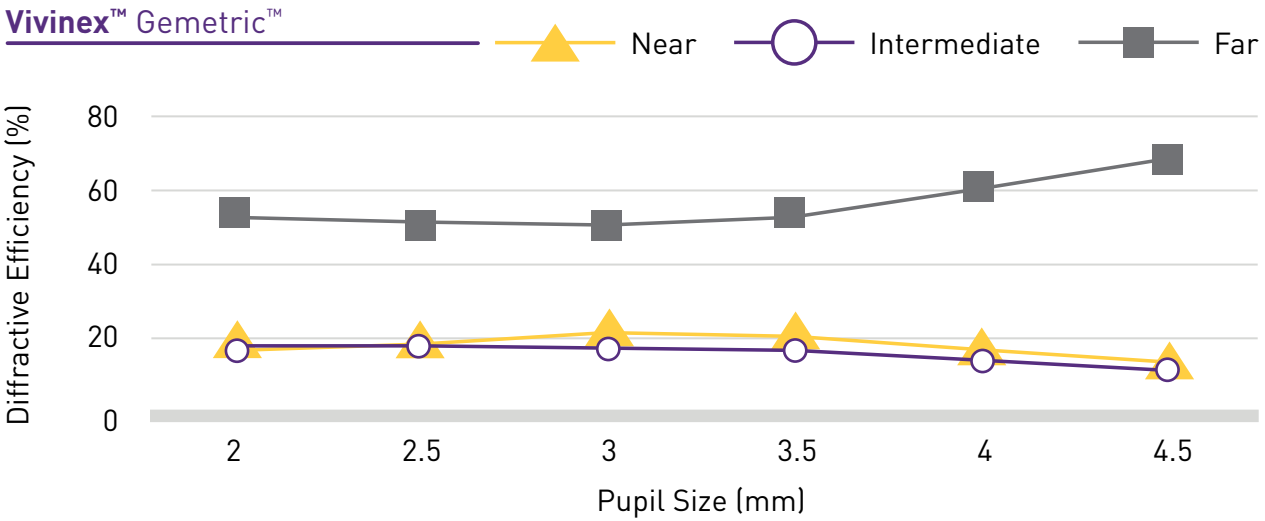
Vivinex™ Gemetric™ Plus Toric

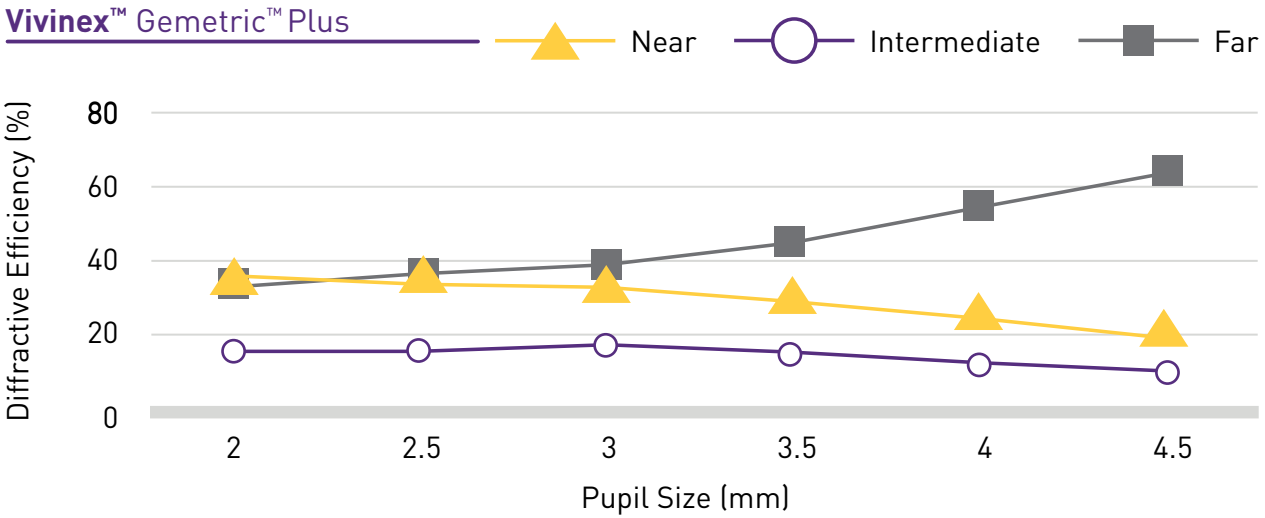
With a choice of products and profiles, patients can experience spectacle independence.

SEE MORE

OPTIMIZED TO SUIT DIFFERENT PATIENT LIFESTYLES

Vivinex™ Gemetric™ and Vivinex™ Gemetric™ Plus show different light distribution profiles for different pupil sizes[1]

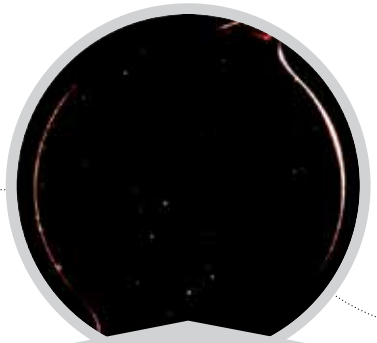




BUILT ON THE VIVINEX™ PLATFORM

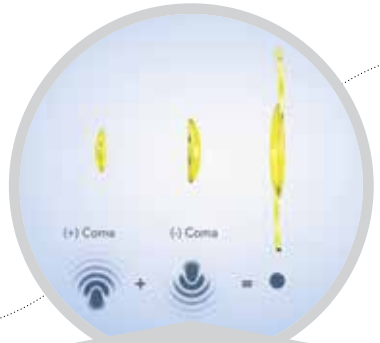
All Vivinex™ IOLs offer:

- Glistening-free hydrophobic acrylic IOL material[2,3]
- Proprietary aspheric optic design for improved image quality[4]
- Active oxygen processing treatment, a smooth surface and square optic edge to reduce PCO[3,5,6,7,8,9,10,11]
- Textured-rough haptic surface for better grip inside the capsular bag and designed to reduce the potential for adhesion to the optic surface
- Reliable outcomes through outstanding rotational stability[12]



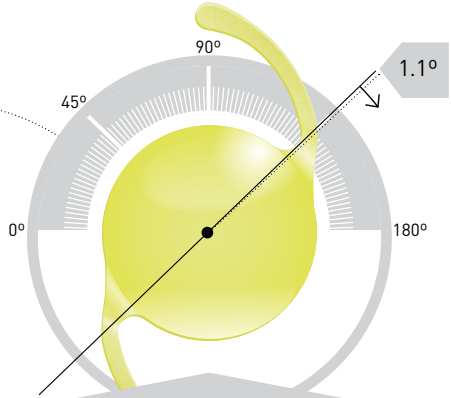
Glistening-free IOL material

Grade 0
based on Miyata et al.[13]
with 11.6 ± 5.7 MV/mm²



Improved image quality

The proprietary aspheric optics of Vivinex™ reduce spherical aberration without incurring significant susceptibility to decentration associated coma.[4]



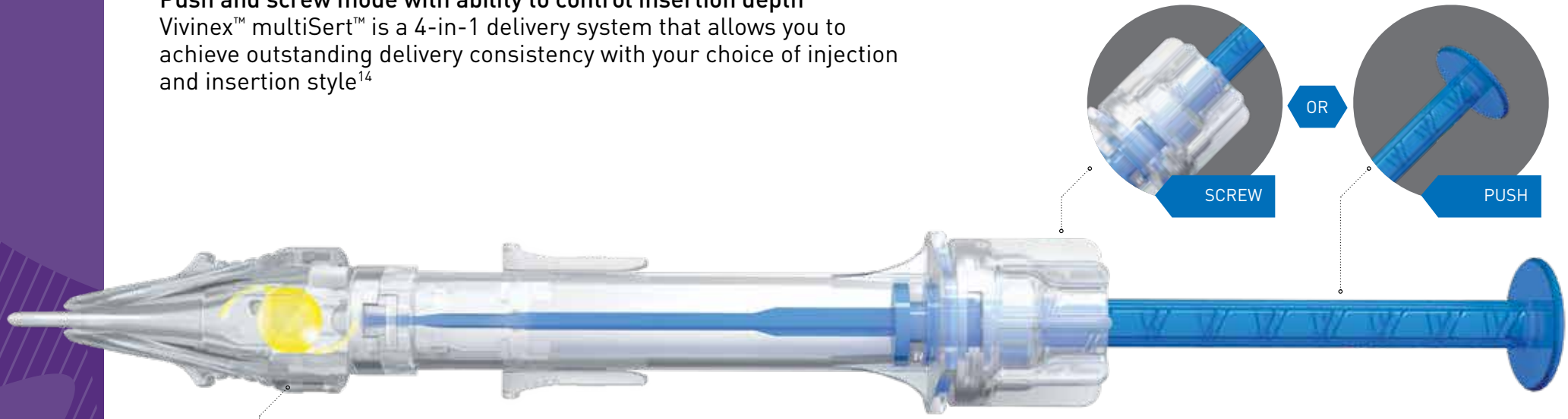
Outstanding rotational stability

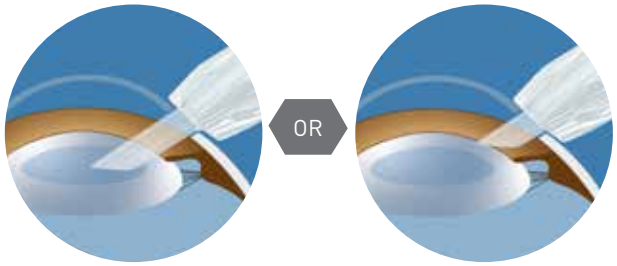
Median rotation 1.1°
(range: 0.0° – 5.0°)
100% of lenses (n=103) had ≤ 5° of rotation from their initial axis at end of surgery through all follow up visits at 1 hour, 1 week, 1 month and 6 months[12]

SEE MORE

DELIVERED IN THE PRELOADED MULTISERT™ INJECTOR

Push and screw mode with ability to control insertion depth
Vivinex™ multiSert™ is a 4-in-1 delivery system that allows you to achieve outstanding delivery consistency with your choice of injection and insertion style[14]





Delivery into capsular bag
insert shield:
Default position

Delivery through incision wound tunnel
insert shield:
Advanced position

The Vivinex™ Gemetric™ and the multiSert™ injector are a perfect combination. The product combines an excellent optic with an excellent material and an excellent IOL delivery device.[15]
Ramin Khoramnia, Head of the Cataract and Refractive Surgery Department at the University Eye Hospital Heidelberg, Germany.

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HOYA Toric Calculator

- The HOYA Toric Calculator can take account of posterior corneal astigmatism in the calculation by giving the option to apply the Abulafia-Koch Regression formula.
- The Abulafia-Koch Regression, applied to a clinical patient cohort, has been shown to improve predictability of TIOL refractive outcomes.[16]

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HOYA Surgical Optics is devoted to delivering the world's leading **preloaded IOLs, personalized services** and **specialized support**.

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SEE MORE

AVAILABLE IN

Vivinex™ Gemetric™ | Vivinex™ Gemetric™ Plus	
Model name	XY1-G | XY1-GP
IOL power (Spherical equivalent)	+10.00 D to +30.00 D in increments of 0.50 D
Add power at IOL plane	Intermediate: +1.75 D Near: +3.50 D
Nominal A-constant*	119.0
Injector	**multiSert™** preloaded
Front injector tip outer diameter	1.70 mm
Recommended incision size	2.20 mm

* The A-constant is presented as a starting point for the lens power calculation. When calculating the exact lens power, it is recommended that calculations be performed individually, based on the equipment used and operating surgeon's own experience.

Vivinex™ Gemetric™ Toric | Vivinex™ Gemetric™ Plus Toric	
Model name	XY1-GT | XY1-GPT
IOL power (Spherical equivalent)	+10.00 D to +30.00 D in increments of 0.50 D
Add power at IOL plane	Intermediate: +1.75 D Near: +3.50 D
Nominal A-constant*	119.0
Injector	**multiSert™** preloaded
Front injector tip outer diameter	1.70 mm
Recommended incision size	2.20 mm
Cylinder power at IOL plane	1.00 D 1.50 D to 3.75 D in 0.75 D increments

Model XY1-GT, XY1-GPT	**Cylinder power at IOL plane**	**Cylinder power at corneal plane[17]**
T2	1.00 D	0.69 D
T3	1.50 D	1.04 D
T4	2.25 D	1.56 D
T5	3.00 D	2.08 D
T6	3.75 D	2.60 D

> Refer to the datasheet for full specifications

Vivinex™ Your companion to renew sight | Delivered by **multiSert™**

HOYA SURGICAL OPTICS

CE 0123 2022-06-01_HSOE_XY1-G_XY1-GP_XY1-GT_XY1-GPT_BR_EN

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