



# FINEVISION HP

Trifocal Hydrophobic IOL



THE STAR TREATMENT

FINEVISION HP  & HP TORIC 



[bvimedical.com](http://bvimedical.com)

**FINEVISION HP & HP TORIC** the evolution of the original FINE trifocal technology that reduce the burden of spectacle, offering continuous vision to accomplish any task at all distances<sup>1</sup> with the advantages of the GFY hydrophobic raw material.

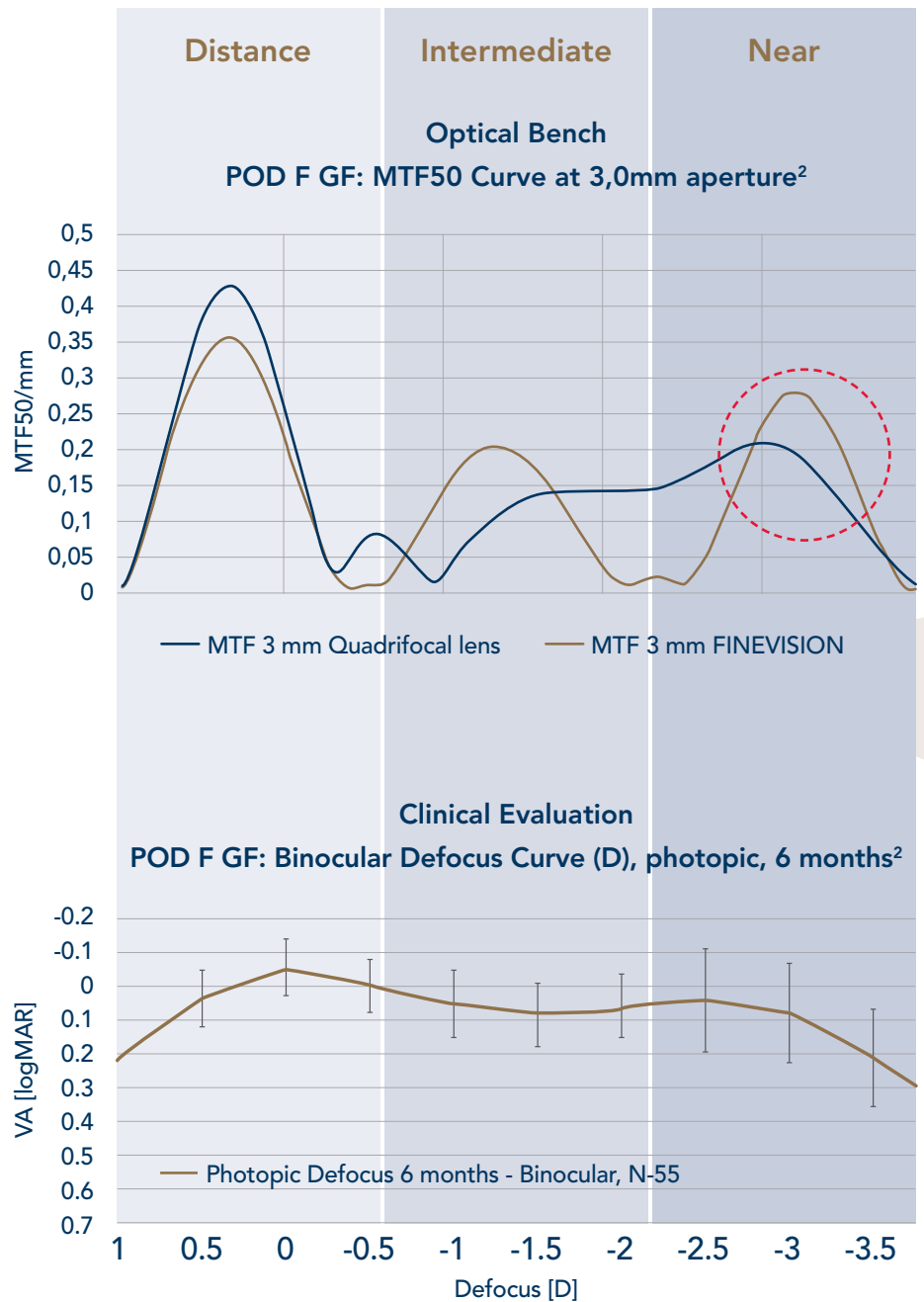
### Optimized near vision

Highest energy split pushed to near vision without compromising distance.

Quadrifocal lens vs FINEVISION HP MTF50 curve @ 3mm aperture

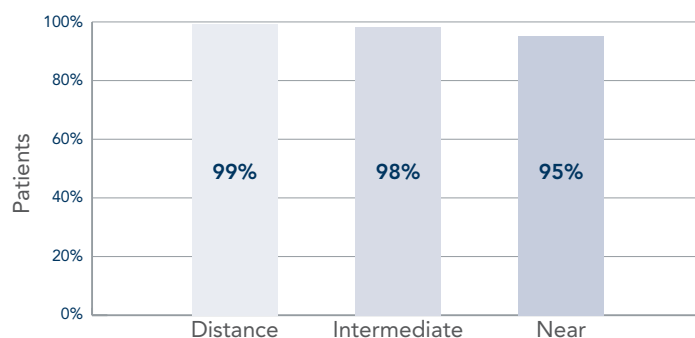
### Optimized range of vision

With two complementing add powers (3.5D & 1.75D) - the FINEVISION HP is creating a smooth, balanced and harmonized performance transition from distance to near; whatever the intermediate distance you are considering (66cm or 80cm), the VA performance is higher than 0.1 logMar from -2.5D to -1.5D on defocus curve.



### What patients say ?

Do you still depend on glasses after FINEVISION treatment? (n=5,802 patients)

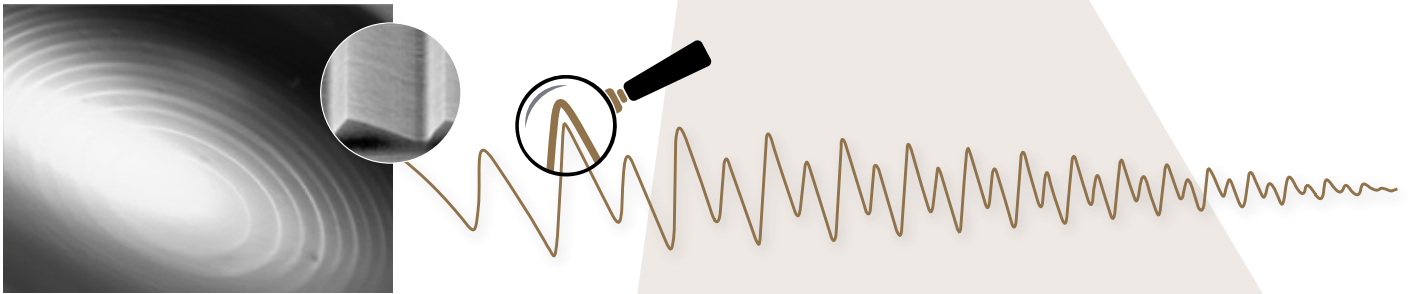


95% of patients reach complete spectacle independence at all distances.

97% of patients treated with FINEVISION would choose the same IOL again!<sup>1</sup>

# CoPODize™ technology

The first and only optic that uses CoPODize technology, that combines both Convolution and Apodization concepts on the entire optic surface. This unique technology is optimized to work in harmony with the pupil - managing the risk of halo and glare when transitioning to mesopic conditions.

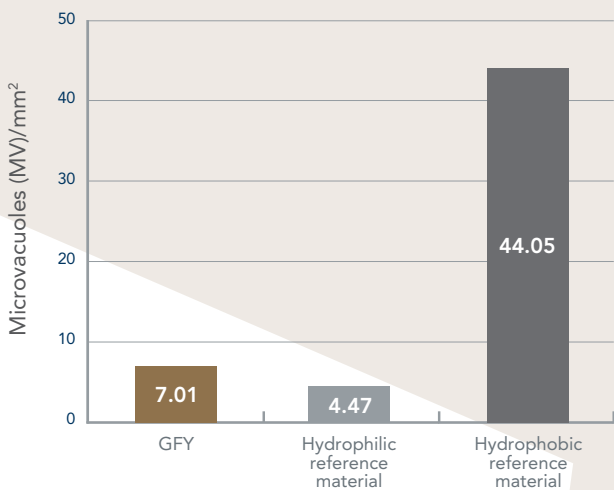


## Hydrophobic raw material (GFY)

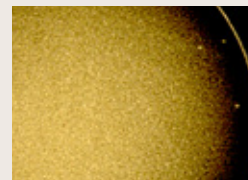
The IOL must withstand the test of time for the life of the patient. Glistenings have been a known phenomena for hydrophobic IOLs, forming over time following implantation, which can impact the quality of vision.<sup>3</sup>

GFY hydrophobic material is unique to BVI. Accelerated age testing at David J. Apple Laboratory demonstrated that GFY material is glistening free.<sup>4,5,6</sup>

### Simulation of the accelerated ageing in vitro glistening formation<sup>7</sup>



GFY hydrophobic material



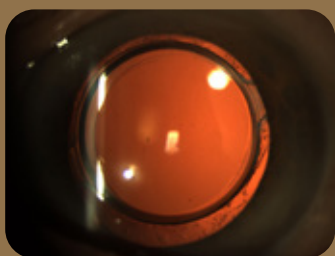
Hydrophobic raw material

The GFY raw material is a Grade 0 based on the Miyata glistening scale (in vitro)<sup>4,5,6</sup>

No significant difference in microvacuoles formation was observed with the GFY material compared to the hydrophilic reference material (in vitro).<sup>8</sup>

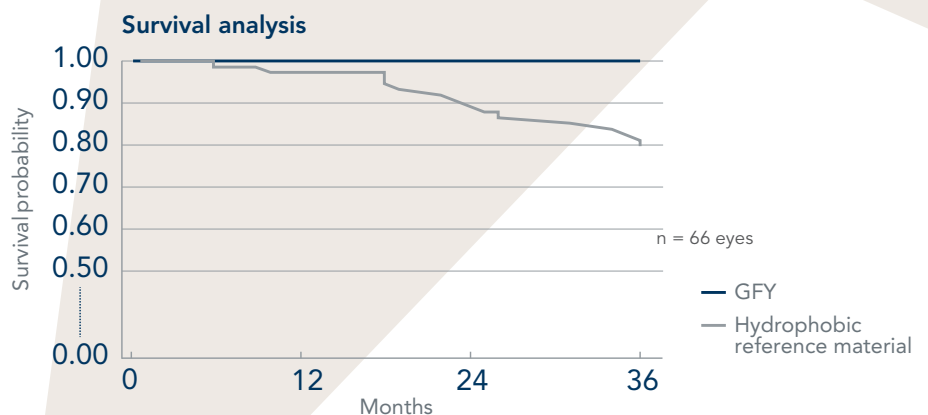
## 😊 What are the patient's benefits

"The GFY material showed its effectiveness in the absence of glistening. This survival analysis shows no glistening event during 36 months follow-up."<sup>9</sup>



"One YAG has been made in the GFY IOL cohort after the third year (n = 43 eyes)."<sup>9</sup>

Over a million GFY IOLs have been implanted since its first use in 2010 and a clinical study<sup>9</sup> showed no glistenings after a 3 year follow-up. Within this publication, a rate of 2.3% of YAG capsulotomy was recorded over a 3 years period.

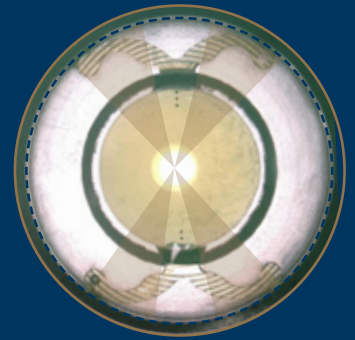


# ★ Give every patient's eyes the star treatment

## Unique haptic design for Toric version

POD platform is designed with a unique double C-loop haptics configuration for excellent fixation within the capsular bag, with an increased contact angle<sup>12</sup> as well as 4-point contact versus conventional C-loop designs. This platform is designed to:

- Allow for even distribution of the compression forces at the haptic-capsular bag junction<sup>10</sup>
- Maintain low tilt and axial displacement<sup>11</sup>
- Provide excellent centration and rotation stability<sup>11</sup>

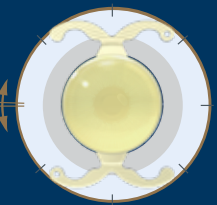


POD haptic platform has **70%** greater contact angle vs C-loop IOL platform<sup>12</sup>

POD platform with  
**Over 8 years**

of experience with IOLs, providing reliability in terms of clinical outcomes<sup>13</sup>

**1.75°**



POD L GF - Absolute postoperative IOL axis rotation (°) at 4-6 months compared to the day of surgery.<sup>14</sup>

**BVI toric calculator** has been developed to account the posterior corneal curvature by creating an indirect benefits on the postoperative astigmatic patient outcomes.<sup>15</sup>

[Go to Physioltoric.eu](http://Physioltoric.eu)

😊 "Easy control during the procedure"<sup>16</sup>

(Classic C-loop can only rotate clockwise)

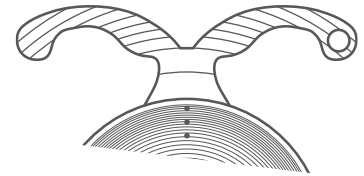
**Easy placement is MANEUVERABILITY**



Rotation to align the IOL cylinder, either clockwise OR counter-clockwise reducing the risk of misalignment.

Unique *RidgeTech* technology reduces the risk<sup>17</sup> of sticky haptics on the optics during and after injection.



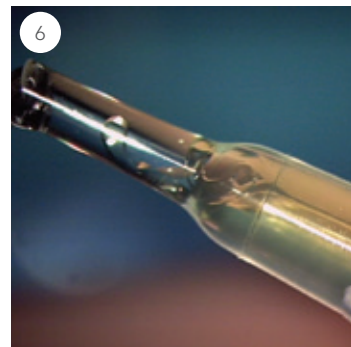
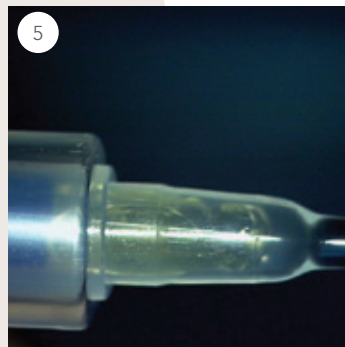
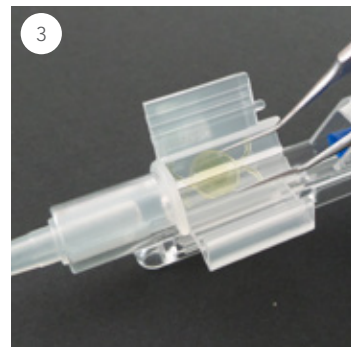
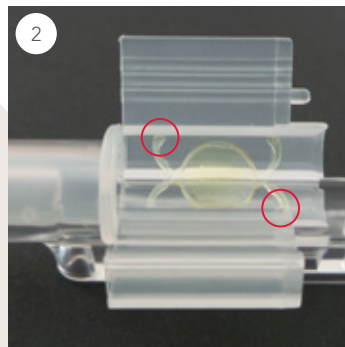
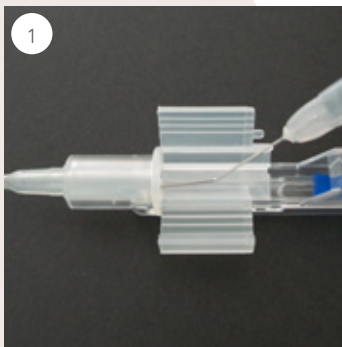


# Medical Accuject injector guidelines with POD platform

This fully single-use system represents reliable and effective lens injections with POD platform.

Their compact design with integrated cartridge enables predictable loading and positioning of the lens.

Guidelines steps with Accuject:



1. Apply ophthalmic viscoelastic device (OVD) into the tip and the loading chamber of the injector cartridge.
2. Remove the lens from the lens holder. Position the lens into the cartridge in such way that the two haptics with the notches are pointing at 1 and 7 o'clock.
3. Exert slight pressure onto the lens optic and make sure that all haptics are inside before further closing the cartridge. Close the cartridge and check the position of the lens.
4. Once the "click-lock" mechanism engages, the lens is securely loaded and ready for injection.
5. Press the injector plunger forward and push the lens into the conical tip of the cartridge.
6. Pull the plunger back a few millimeters and then inject the lens in one continuous motion. For gentle implantation, it is not necessary to fully push the plunger to the bottom of the cartridge.

<sup>1</sup> R. Bilbao-Calabuig, MD et al.: Visual outcomes following bilateral implantation of two diffractive trifocal intraocular lenses in 10,084 eyes, American Journal of Ophthalmology, July 2017. | <sup>2</sup> MDR CER Report: RA\_302\_1\_2021\_144 Clinical Evaluation | <sup>3</sup> E. DeHoog, PhD, A. Doraiswamy, PhD: Evaluation of the impact of light scatter from glistenings in pseudophakic eyes, J Cataract Refract Surg 2014; 40:95–103. | <sup>4</sup> Miyata A, Jpn J Ophthalmol 2001, 45(6):564-569. | <sup>5</sup> <https://www.eurotimes.org/capsular-bag-stability-find1> | <sup>6</sup> CER F2 (MIC-GFY) | RD-REP-210-1-2021 | V1.0 | 27.04.2021 | <sup>7</sup> Biomaterial Optical Purity. The David J Apple International Laboratory for Ocular Pathology, 3 MAY 2017 | <sup>8</sup> Biomaterial Optical Purity Report & Appendix 1, G.U. Auffarth, University Hospital Heidelberg, May 2017. | <sup>9</sup> C. Chassain, France Journal of Ophthalmology (2018) 41, 513–520 | <sup>10</sup> POD T 49P mechanical properties 11979-3 (RD-REP-19-09Sv02). | <sup>11</sup> Draschl P, J Cataract Refract Surg 2017, 43(2):234-238. | <sup>12</sup> Mechanical properties according to 11979-3 of Double C Loop (ID: 99B8EB20-C5D6-418E-A4DA-348E1114C396) | <sup>13</sup> Periodic Clinical Evaluation Report | <sup>14</sup> Clinical Evaluation Report POD-GFY, Family 1 ID: 287C9C9A-A937-4CC3-AC3F-06FE3D432663 | <sup>15</sup> Abulafia A, Koch DD, J Cataract Refract Surg 2016, 42(5):663-671. | <sup>16</sup> Philipp J Ophthalmol 2014;39:67-72 | <sup>17</sup> Physiol Report 002, 9 nov 2012.

# FINEVISION HP & HP TORIC

## Description FINEVISION HP

Model	POD F GF		
Material	GFY Hydrophobic Acrylic <sup>18</sup>		
Overall diameter	11.40mm		
Optic diameter	6.00mm		
Optic	Biconvex Aspheric Trifocal		
Haptic design	POD (Double-C-loop) with Ridgetech® & Posterior Angulated Haptic		
Filtration	UV & Blue Light		
Refractive index	1.53		
Abbe number	42		
Additional power (IOL plane)	+1.75D & +3.50D		
Injection system	Medicel Accuject 2.0 up to 24.5D - Medicel Accuject 2.1/2.2 up to 35D		
Spherical power	+10D to +35D (0.5D steps)		
Suggested A constant <sup>19</sup>			<b>Interferometry</b>
	Hoffer Q: pACD	5.85	
	Holladay 1: Sf	2.06	
	Barrett: LF	2.09	
	SRK/T: A	119.40	
	Haigis <sup>20</sup> : a0; a1; a2		1.70; 0.4; 0.1

<sup>18</sup> The PhysiOL GFY® is patented since 2010. Patent number: EP1830898. | <sup>19</sup> Values estimated only: surgeons are recommended to personalize their A-constant based on their surgical techniques and equipment, experience with the lens model and postoperative results. | <sup>20</sup> Not optimized.

## Description FINEVISION HP TORIC

Model	POD FT 49P								
Material	GFY Hydrophobic Acrylic <sup>18</sup>								
Overall diameter	11.40mm								
Optic diameter	6.00mm								
Optic	Biconvex Aspheric Toric Trifocal								
Haptic design	POD (Double-C-loop) with Ridgetech® & Posterior Angulated Haptic								
Filtration	UV & Blue Light								
Refractive index	1.53								
Abbe number	42								
Additional power (IOL plane)	+1.75D & +3.50D								
Injection system	Medicel Accuject 2.1/2.2								
Spherical power	+10D to +35D (0.5D steps)								
Cylinder power (IOL plane) <sup>21</sup>	1.00 - 1.50 - 2.25 - 3.00 - 3.75 - 4.50 - 5.25 - 6.00D								
Suggested A constant <sup>19</sup>									<b>Interferometry</b>
	Hoffer Q: pACD								5.85
	Holladay 1: Sf								2.06
	Barrett: LF								2.09
	SRK/T: A								119.40
	Haigis <sup>20</sup> : a0; a1; a2								1.70; 0.4; 0.1
Cylinder power at IOL plane	POD FT 49P 1.0	POD FT 49P 1.5	POD FT 49P 2.25	POD FT 49P 3.0	POD FT 49P 3.75	POD FT 49P 4.5	POD FT 49P 5.25	POD FT 49P 6.0	
Cylinder power at corneal plane <sup>22</sup>	0.68D	1.03D	1.55D	2.06D	2.57D	3.08D	3.60D	4.11D	

<sup>18</sup> The PhysiOL GFY® is patented since 2010. Patent number: EP1830898. | <sup>19</sup> Values estimated only: surgeons are recommended to personalize their A-constant based on their surgical techniques and equipment, experience with the lens model and postoperative results. | <sup>20</sup> Not optimized. | <sup>21</sup> Please read the directions for Use for important safety information and consult our specialists on the spherical and cylinder powers availability. | <sup>22</sup> Savini G., J Cataract Refract Surg 2013; 39:1900–1903.

Please check the availability of the products on your market with your sales representative.

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