M-DIFF

Diffractive-Refractive Multifocal IOL

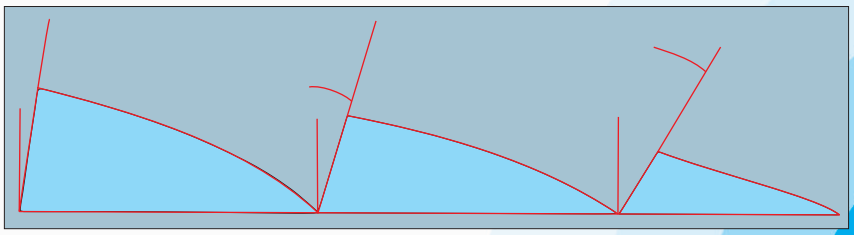
ENJOY THE NATURE NATURALLY

INNOVATIVE OPTIC DESIGN

• M-Diff is a single piece hydrophilic acrylic lens manufactured from ultrapure 26% hydrophilic material with excellent biocompatibility and low inflammatory response. The material is free of microvacuoles and glistenings. Handling characteristics and unfolding are optimal for placement inside the capsular bag.

• Lenses are lathe cut using nano precision machining technology and tumble polished to produce high quality optical surfaces.

• M-Diff combines the diffractive refractive technologies providing best results to the patients. Designed with 20 diffractive rings upto 5.0 mm and from 5.0 mm to 6.0 mm is refractive monofocal zone for distance vision. This unique design reduces dependency on pupil size or lighting conditions and improves the vision in mesopic conditions.



CRYSTAL CLEAR VISION AT ALL DISTANCES:

NEAR

INTERMEDIATE

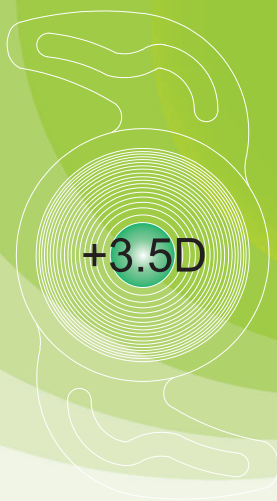
DISTANCE

- Good functional vision at all distance.
- Excellent Patient Satisfaction.
- Enjoy the crystal clear vision at all lighting conditions.

LEAST SPECTACLE DEPENDENT

ADDITION

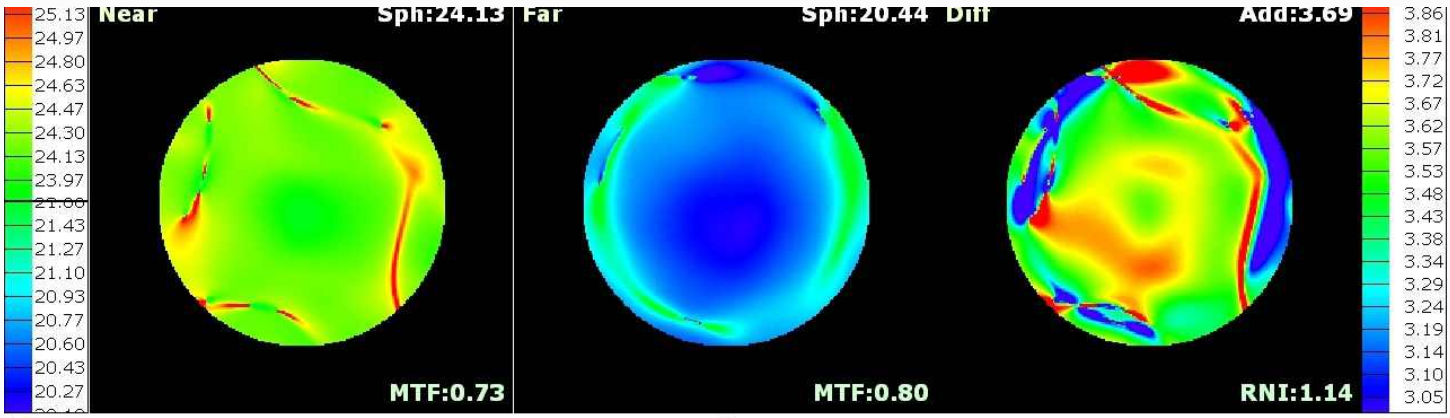
• The add power is +3.50 diopters ensuring comfortable reading and near activities. Implantation with M-Diff increases the chances of spectacle free outcomes.



LIGHT DISTRIBUTION

• Optimal light energy distribution with 60% for far and 40% for near vision with maximum light energy delivered to the retina.

ASSURED QUALITY



• 100% Quality check with IOLA-MFD for diffraction, MTF and Airforce target.

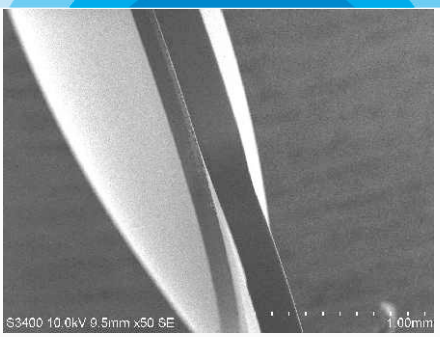
• Each **"M-DIFF"** diffractive-refractive Multifocal IOL is individually tested for MTF.

• Thanks to the HEMA material and smooth surface finish all M-DIFF lenses are assured higher MTF values.

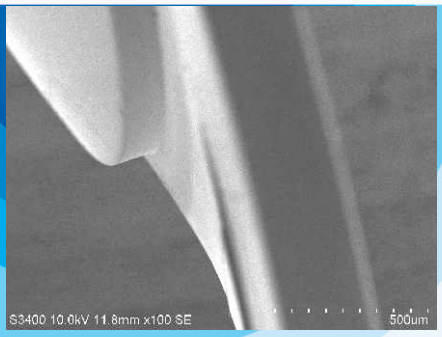
• Higher MTF values ensures that higher contrast at all distances in all light conditions.

ACCURACY AT HIGHEST LEVEL

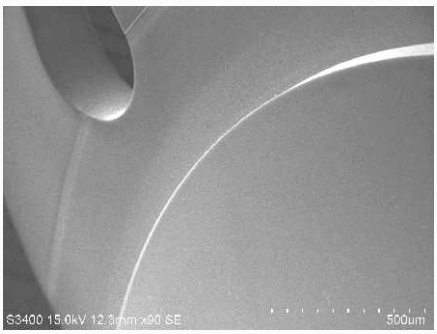
SAY NO TO PCO



• 360 degree square edge design reduces the incidence of PCO and YAG capsulotomy rates.
• The closed loop haptics design ensures reliable centration inside the capsular bag.

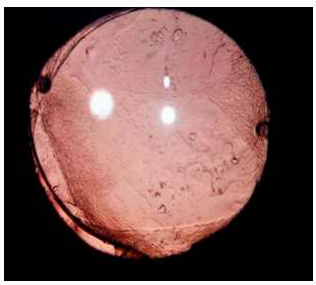


* The posterior capsule securely adheres to the rear surface of the lens.



* Anterior placement of Diffractive optics protects optical properties from yag capsulotomy

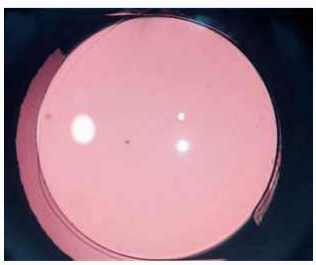
IOL WITH PCO



* No more worries about PCO

* Together with the material the square edge offers excellent barrier to PCO

IOL WITHOUT PCO

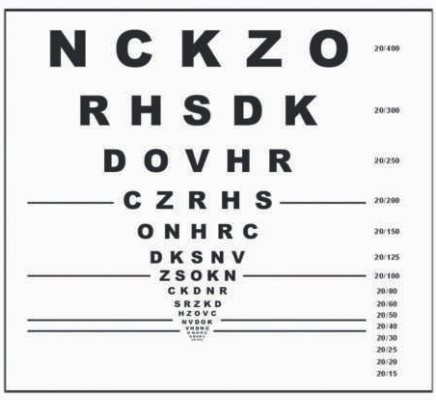


ACCURATE POWER & HIGH CONTRAST

OTHER IOL

•Thanks to latest Nano technology M-DIFF iols always yields accurate refraction

• Aspheric optics & innovative Diffractive-Refractive design gives high contrast in all light conditions



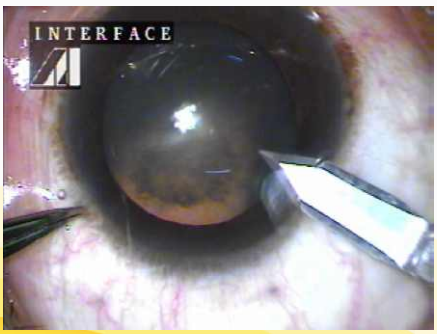
M-DIFF IOL

ASPHERIC OPTICS

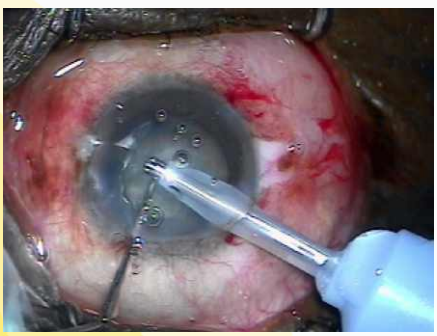
ASPHERIC IOL

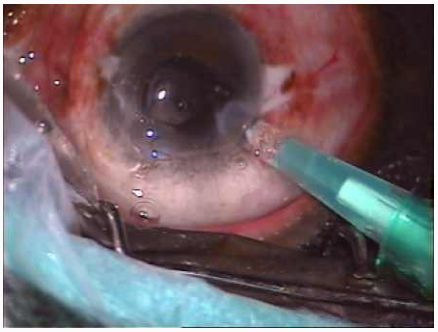
SPHERICAL IOL

- The Aspheric optic of the **"M-DIFF"** IOL design aligns light rays to compensate for positive corneal spherical aberration, resulting in enhanced image quality.
- Negative spherical aberration design improves contrast sensitivity and low light visual acuity compared with spherical IOLs.
- The negative -0.20 asphericity ensures a good balance between aspericity and depth of perception
- The unique anterior diffractive design reduces halos and yields superior vision



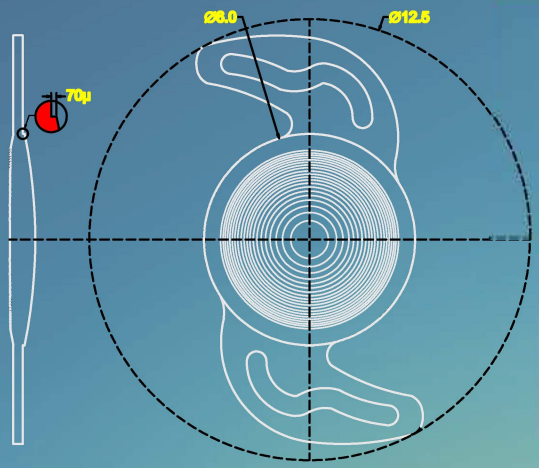
BEST COMPANION





* M-DIFF Complements your phaco surgery.
* Provides best vision in all distances under all lighting conditions.

NEXT GENERATION IOL



Technical Specifications

Model Name	M-Diff
Power Range	-10.0 0 to +50.0 D (In Steps of 0.50 D)
Delivery System Type	Single Use Disposable IOL injector system
Incision Size	2.8mm

Aspheric Monofocal IOL	
Material	Single piece hydrophilic acrylic
Water Content	26% in equilibrium
UV Protection	Yes
UV Light Transmission	UV 10% cut-off is 380 nm
Refractive Index	1.460
Overall Length	12.50 mm
Optic Diameter	6.00 mm
Optic Shape	Biconvex, Anterior Diffractive-Refractive, near add +3.5 Diopter
Asphericity	Aspheric surface with negative aspheric design
Optic Edge Design	360° square edge
A-Constant	118.0*
Haptic Angulation	0°
Haptic Style	Closed loop Design

Estimated Constants for Optical Biometry					
SRK/T	Haigis			HofferQ	Holladay
A-constant	a0	a1	a2	pACD	SF
118.6	1.323	0.578	0.20	5.39	1.63

*Note : * The A Constant mentioned above is presented as a guideline only for lens power calculations. it is recommended that the A-Constant measurement be customized based on the surgeon's experience and measuring equipment.*

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