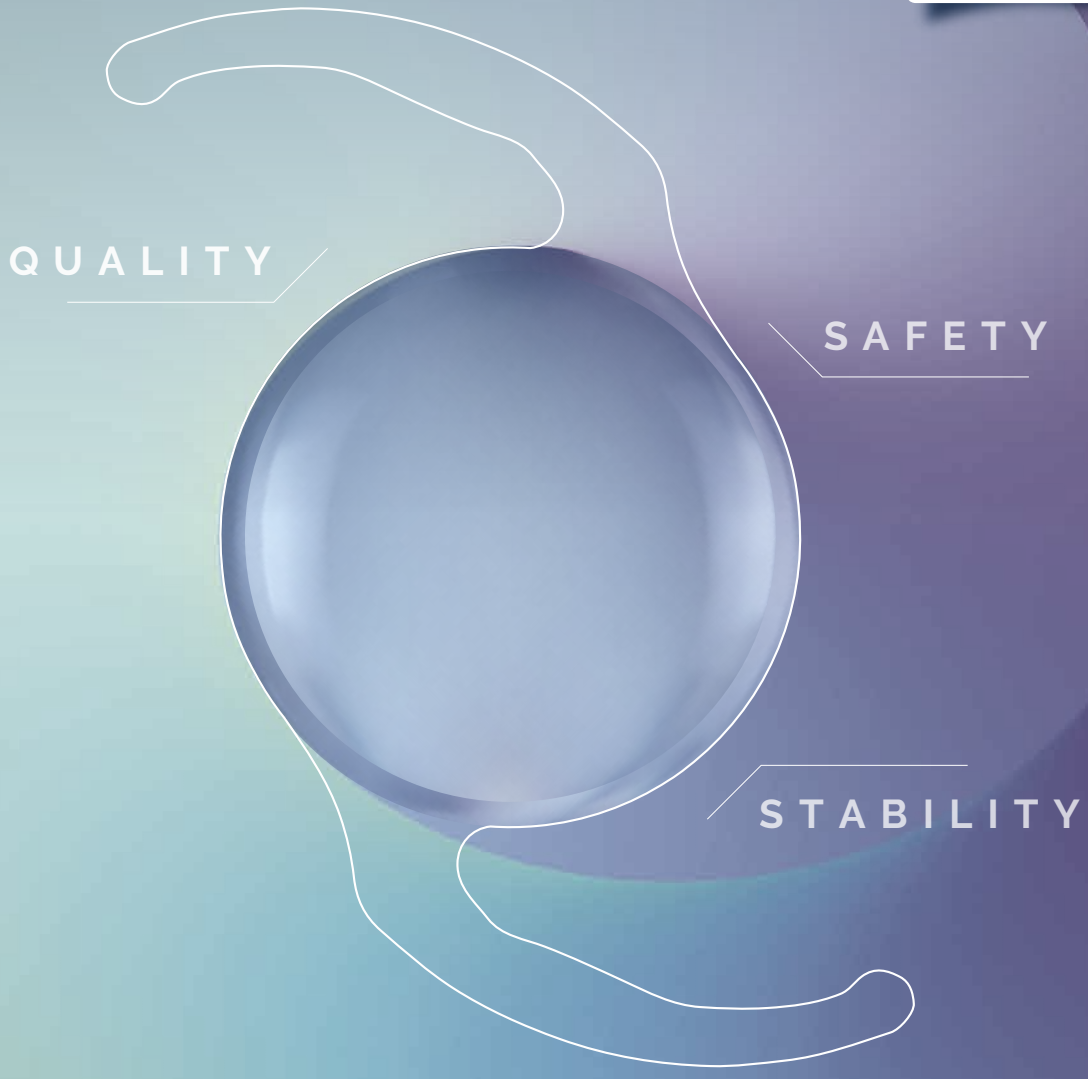
CUTTING EDGE
*sense of innovation*

ENGINEERED AND MADE IN FRANCE

# Genesis®

Hydrophobic monofocal

NEW




TECHNICAL BROCHURE

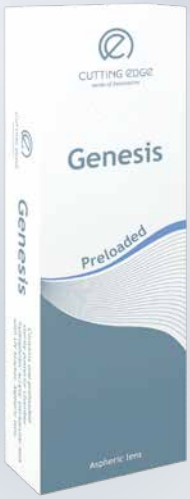
# Genesis®

Hydrophobic monofocal

Genesis, is a **new hydrophobic intraocular lens** developed and manufactured by **CUTTING EDGE** to meet your expectations in terms of:

**QUALITY - SAFETY - STABILITY**

Cutting Edge builds experienced and dedicated teams to design, prototype and manufacture **high-quality Intraocular Lenses**. Our state-of-the-art facility honours the quality and process sophistication of the medical device industry.
The proximity of our Research & Development team to our manufacturing operations is truly significant for building close links and in using a results-orientated approach. **Cutting Edge masters all manufacturing stages in house**, from machining to optical and mechanical tests, through to packaging and international logistics.
**Genesis®** was engineered by a team who fully believe that the human eye is both fragile and precious and requires the utmost in precision, “savoir-faire” and faultless industrial quality.




**From 10 D to 30 D**
**0,5 D increment**

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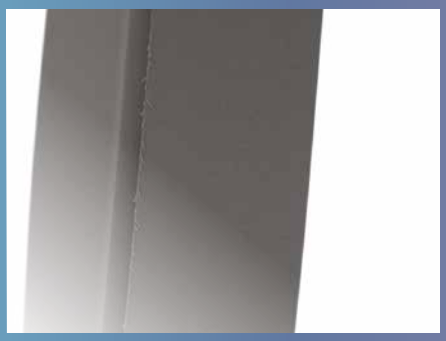
# QUALITY

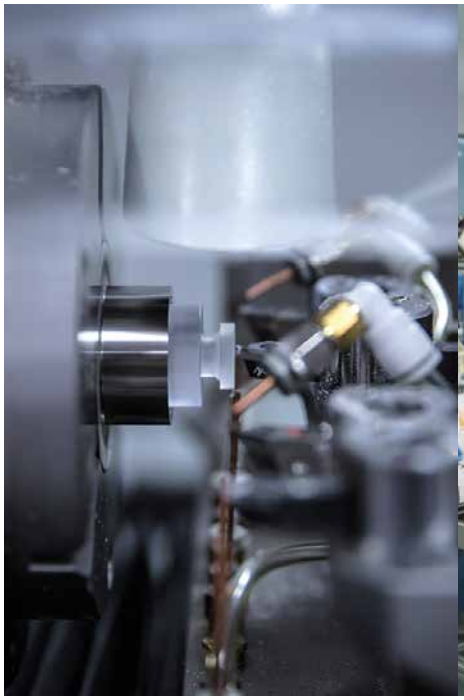
## **Genesis®** is manufactured using a cryo-machining process.

This process **ensures quality of the geometry of the edges and removal of the joint interfaces.**

MAGNIFICATION 250 X



Cryo-machining process (Genesis)

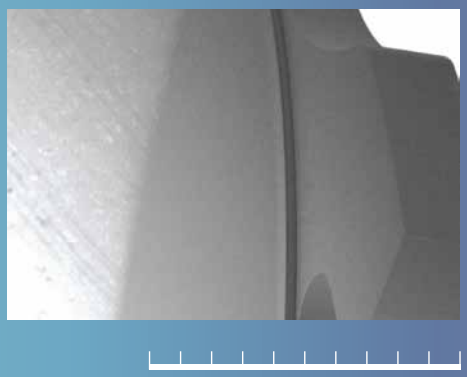


# QUALITY

## ACRYLIC HYDROPHOBIC COPOLYMER MATERIAL PEA / PEMA KNOWN ON THE MARKET

- **An implant deployment time** of 25 sec at 24 ° C
- **A continuous 360° epithelial cell barrier** (including at the junction of haptics and optic)


**MAGNIFICATION 60 X**



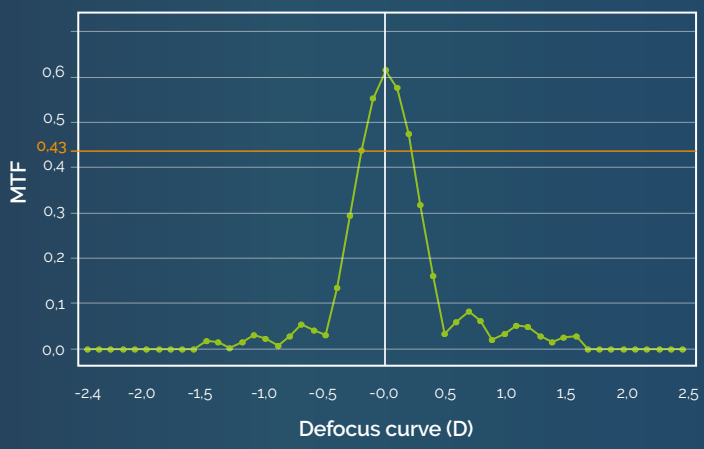

**MAGNIFICATION 120 X**

Scanning electron microscopy images

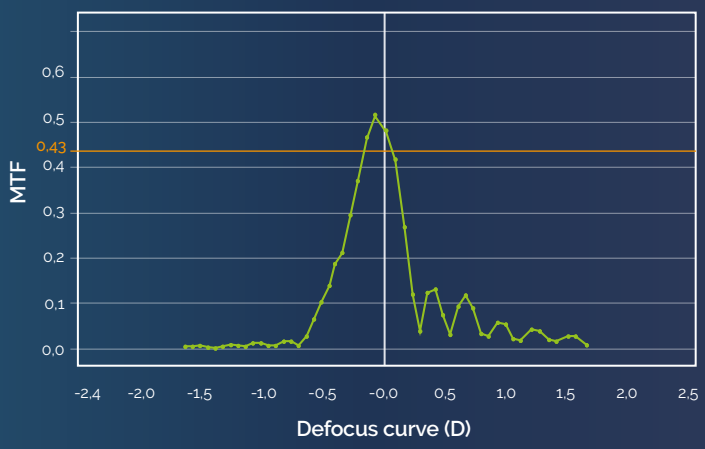
## MTF (MODULATION TRANSFER FUNCTION)

**Genesis exceeds ISO 11979-2 standard requirement for optical properties and test methods** (0.43 at 100 cycle/mm) at all light conditions and pupil diameter.

**GENESIS® MTF**
**IN DAY LIGHT CONDITIONS**
(3 mm pupil diameter)




**GENESIS® MTF**
**IN DIM LIGHT CONDITIONS**
(4,5 mm pupil diameter)



# SAFETY & STABILITY

## A COMPLETE INJECTION SYSTEM PRELOADED WITH PUSH AND SCREW

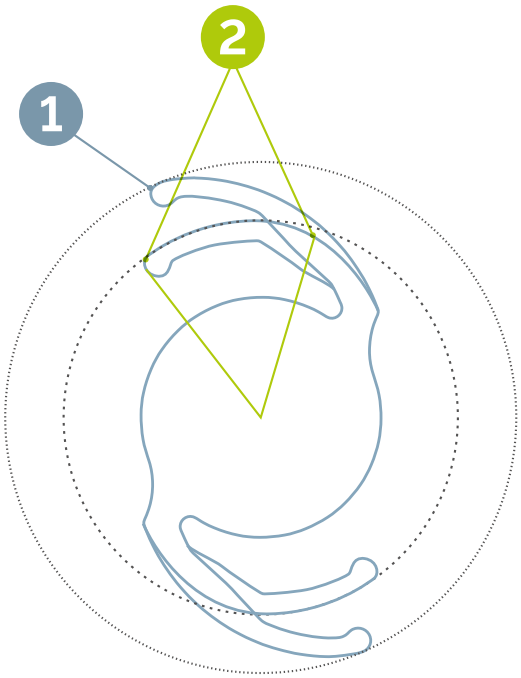
| | INJECTION SYSTEM | In-the wound recommended incision (mm) | In-the-bag recommended incision (mm) |
|---|---|---|---|
|  | Medicel Accujet Pro - Push | 2.2 | 2.4 - 2.5 |
|  | Medicel Accujet Pro - Screw | 2.2 | 2.4 - 2.5 |

Source : Medicel

## GEOMETRIC HAPTIC DESIGN ALLOWS EASY FLEXION AND EVEN FORCE DISTRIBUTION

1. **Punctual contact in the uncompressed state** at 13 mm

2. **Increased contact angles** under compression at 10 mm (standard)



# LOADING GUIDE

Genesis®
HYDROPHOBIC MONOFOCAL

## RINSE THE LENS

1. Peel open the blister and transfer the injection system onto the sterile field.
2. Carefully rinse the lens with balanced salt solution through the tip of the cartridge.

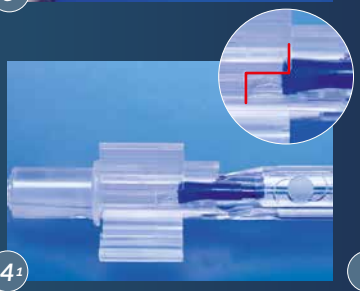


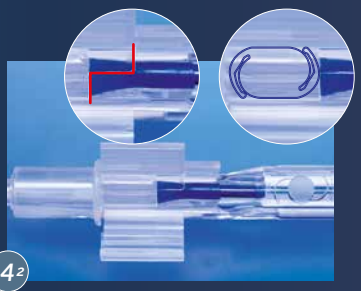
## PREFOLD THE LENS

3. Holding the injector body with one hand and the plunger with the thumb and forefinger of the other hand, slowly advance the plunger in pre-fold position.


4¹ Initial position.

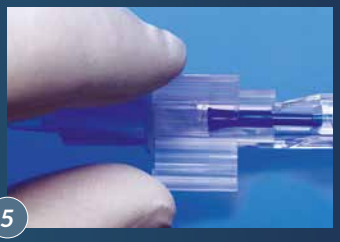
4² Pre-fold position: the silicone cushion has to be positioned in the L shape spacing of the lens protection flap.




## CLOSE THE WINGS

5. Close the wings of the loading chamber. When the « click-lock » mechanism is engaged, the lens is securely in place.




## FILL WITH VISCOELASTIC

6. Apply a generous amount of viscoelastic through the tip of the cartridge, fully inserting the cannula into the tunnel and entirely filling including the tip.
7. Push and/or screw the plunger forward until the lens enters the storage area (tunnel of the cartridge). The system is ready for injection. The lens should be injected in the shortest possible time after preparing the device.
8. The lens is to be implanted with the anterior side of the lens facing up towards the anterior side of the eye. The orientation of the lens should look like an inverted S.



# TECHNICAL SHEET

## Genesis®
HYDROPHOBIC MONOFOCAL

| *References* | |
|---|---|
| Genesis preloaded - push | **GOPP** |
| Genesis preloaded - screw | **GOPS** |

| DESIGNATIONS | SPECIFICATIONS |
|---|---|
| Optical diameter | 6 mm |
| Total diameter | 13 mm |
| Shape | Monobloc C-loop with 360° square edge on the posterior surface including at the junction of haptics and optic |
| Optic | Aspheric |
| Angulation | 0° |
| Material | Hydrophobic, clear |
| Diopter range | From 10D to 30D in 0.5D increments |
| Biometry | US = SRK-T : 118.2, pACD : 5.08, SF : 1.34, Haigis a0 : 1.402, a1 : 0.4, a2 : 0.1<br>Optical biometry* = SRK-T: 118.975, pACD: 5.6334, SF: 1.8232, Haigis a0: 1.4582, a1: 0.4, a2 : 0.1 |
| Refractive index | 1,555 at 35° C |
| Sterilization | Ethylene oxide |
| Conditioning | Box of 1 unit with injector |
| Size of the incision | From 2.2 mm |
| Injector | Medicel Accujet Pro (Push or Screw) |

*Available on www.iolcon.org (Dec. 2018)

CUTTING EDGE
*sense of innovation*

SENSE OF EXCELLENCE
SENSE OF INNOVATION
SENSE OF PARTNERSHIP
SENSE OF ETHICS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