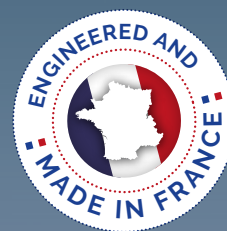




CUTTING EDGE
sense of innovation



Genesis[®]

Hydrophobic monofocal

NEW

QUALITY

SAFETY

STABILITY

TECHNICAL BROCHURE

Genesis[®]

Hydrophobic monofocal

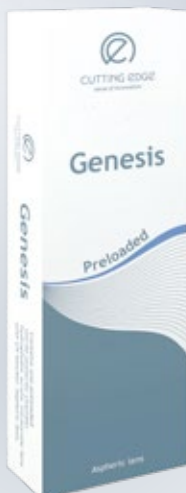
Genesis, is a **new hydrophobic intraocular lens** developed and manufactured by **CUTTING EDGE** to meet your expectations in terms of:

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



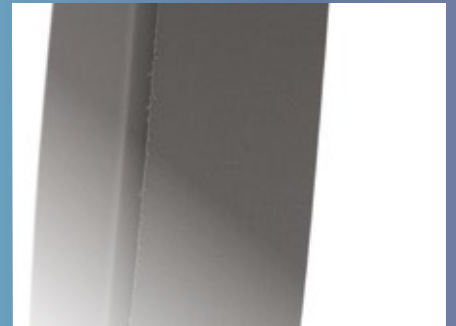
QUALITY

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

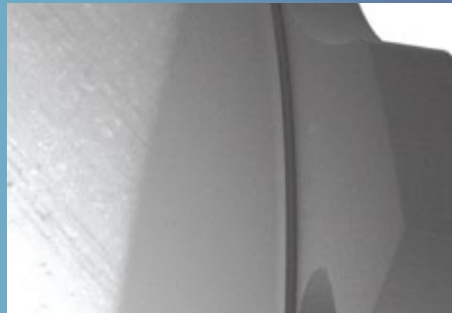
ACRYLIC HYDROPHOBIC COPOLYMER MATERIAL PEA / PEMA KNOWN ON THE MARKET

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



MAGNIFICATION 60 X

1 mm



MAGNIFICATION 120 X

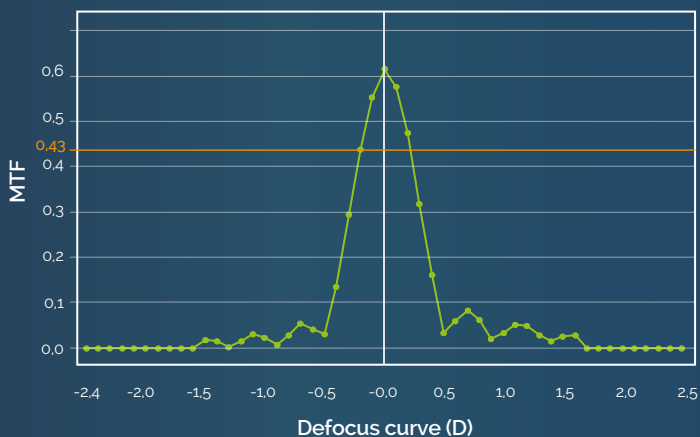
500 µm

Scanning electron microscopy images

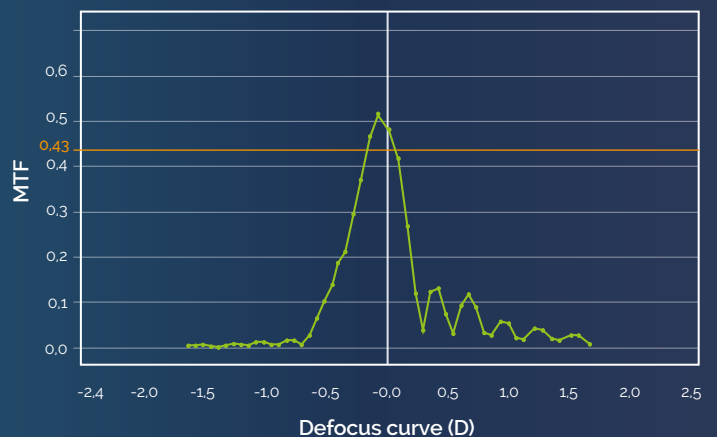
MTF (MODULATION TRANSFER FUNCTION)

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

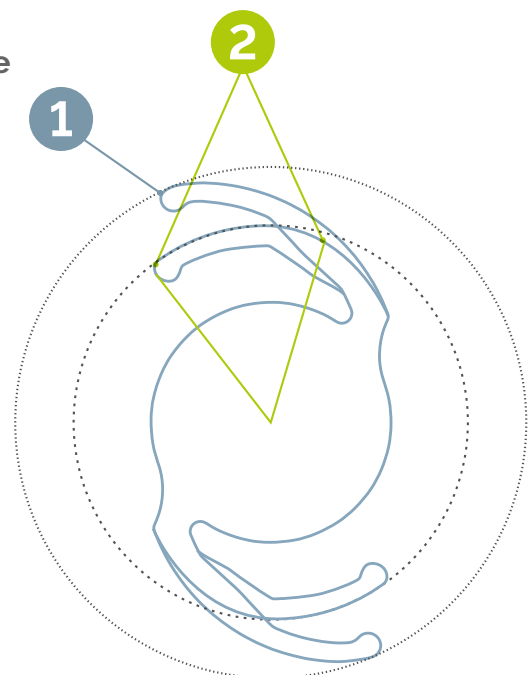
	INJECTION SYSTEM	Wound assisted recommended incision (mm)	In-the wound recommended incision (mm)	In-the-bag recommended incision (mm)
	Medicel Accujet Pro 2.2 - Push	2.0	2.2	2.5
	Medicel Accujet Pro 2.2 - Screw	2.0	2.2	2.5

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

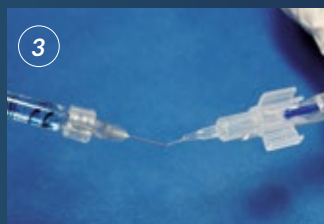
- ① Peel open the blister and transfer the injection system onto the sterile field.



- ② Rinse the lens with sterile balance salt solution.



- ③ Apply a generous amount of viscoelastic through the tip of the cartridge to entirely fill the injector tip and the tunnel.



- ④ Apply viscoelastic at the end of the loading chamber.



- ⑤ 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.



- ⑤¹ Initial position.



- ⑤² Pre-fold position: the silicone cushion has to be positioned in the L shape spacing of the lens protection flap.



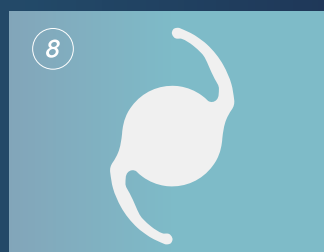
- ⑥ Close the wings of the loading chamber. When the « click-lock » mechanism is engaged, the lens is securely in place.



- 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 IOL should draw an inverted S (haptic insertions top right (A) and bottom left (B)).



TECHNICAL SHEET

Genesis[®]
HYDROPHOBIC MONOFOCAL

References

Genesis preloaded - piston	GOPP
Genesis preloaded - screw	GOPS

DESIGNATIONS	SPECIFICATIONS
Optical diameter	6.00 mm
Total diameter	13 mm
Shape	Monobloc with 360° square edges on the back side, handles in C.
Optic	Aspheric
Angulation	0°
Material	Hydrophobic, clear
Diopter range	From 10D to 30D 0.5D increment
Biometry	US = SRK-T : 118.2, pACD : 5.08, SF : 1.34, Haigis a0 : 1.402, a1 : 0.4, a2 : 0.1 Optical biometry = SRK-T : 118.8, pACD : 5.43, SF : 1.68, Haigis a0 : 1.777, 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 2.0 mm
Injector	Medicel Accuject Pro 2.2 mm (piston or screw) from 10D to 30D



CUTTING EDGE
sense of innovation

SENSE OF EXCELLENCE

SENSE OF INNOVATION

SENSE OF PARTNERSHIP

SENSE OF ETHICS

CUTTING EDGE HEADQUARTERS

770 rue Alfred Nobel - Immeuble le Nobel
34000 Montpellier - France

CUTTING EDGE MANUFACTURING

580 rue Max Planck
31670 Labège
France

KESTREL OPHTHALMICS LTD

Kestrel House, 7 Moor Road, Broadstone, Dorset, BH18 8AZ, United Kingdom
Tel. +44 (0)1202 658 444

CUTTING EDGE SURGICAL

7012Q Local Avinguda Manuel Girona - 08860 Casteldefels - España
Tel. +34 658 208 691

www.cutting-edge.eu - info@cutting-edge.eu

