



## IPCL★ visual correction, offering the highest quality

### Performance

- ★ High quality vision correction
- ★ Invisible in the eye
- ★ Preservation of accommodation capacity
- ★ No corneal tissue removed
- ★ High-level long-term stability
- ★ No regression
- ★ Preservation of corneal asphericity

### Why IPCL★?

- ★ Simple user friendly injection system
- ★ Extensive diopter range
- ★ Rapid recovery
- ★ Unique presbyopic model available
- ★ Predictable and reliable results
- ★ High level of patient satisfaction
- ★ No induced dry eyes
- ★ Suitable for all types of corneas including thin corneas

- ★ Appealing solution for patients who are highly myopic and presbyopic

### Main properties

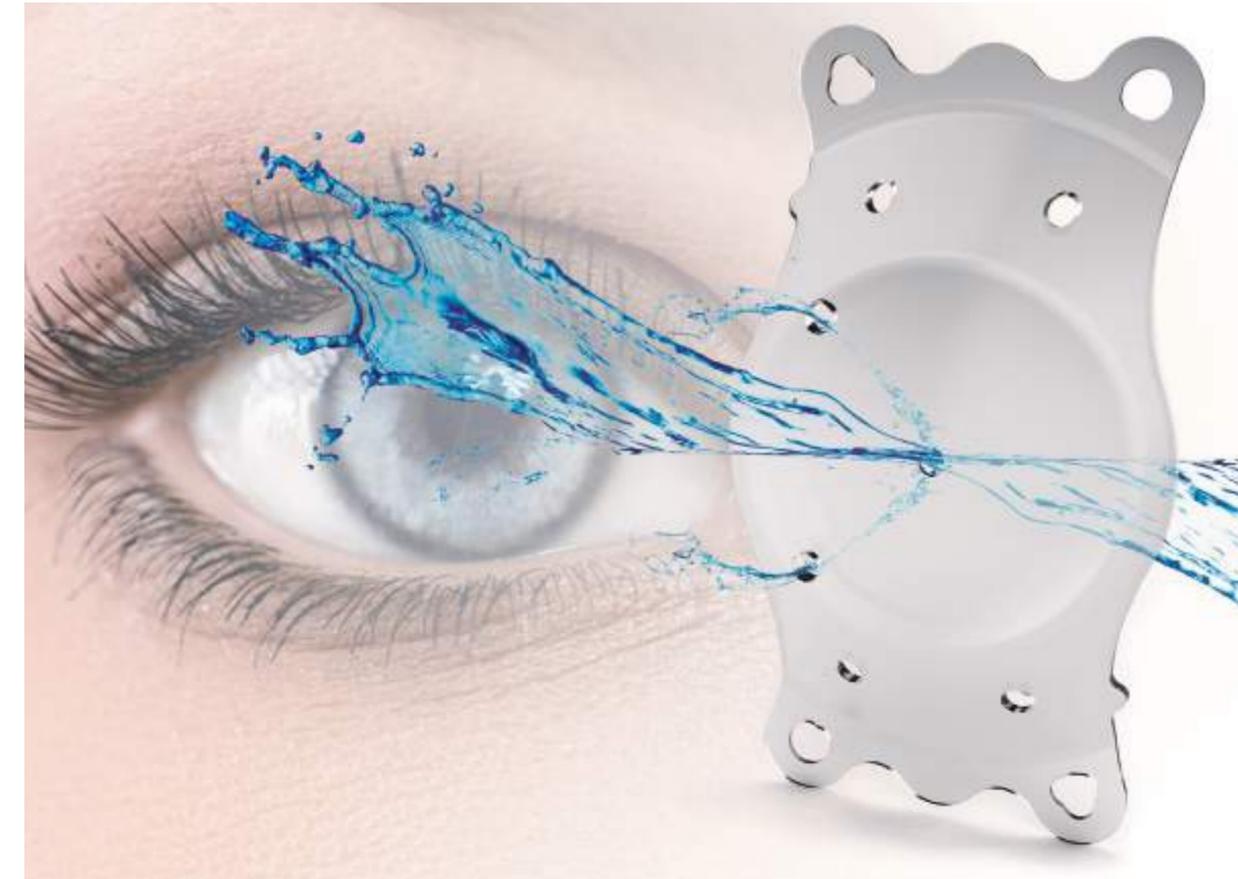
- ★ Outstanding depth of focus
- ★ Best contrast vision possible
- ★ No induced spherical or chromatic aberration
- ★ Correction of astigmatism and presbyopia
- ★ Broad range of individual solutions for all kinds of visual defects

### The key to success

- ★ Patient selection
- ★ Accurate eye measurements
- ★ Patient counselling
- ★ Training of practice personnel
- ★ Certification of surgeons, OR- and practice personnel

## IPCL★ technical characteristics

<b>Materials</b>	Hydrophilic acrylic hybrid
<b>Total diameter</b>	11 mm to 14 mm
<b>Optical diameter</b>	6.6 mm
<b>Optical zone</b>	6.6 mm
<b>Refractive index</b>	1.465
<b>Abbe number</b>	60
<b>Distance between optics/ haptics levels</b>	1.20 to 1.70 mm
<b>Standard diopter range</b>	+0.5 D to +6 D and -0.5 D to -22 D (in 0.5D increments)
<b>Custom diopter range</b>	+6.5 D to +15 D and -22.5 D to -30 D (in 0.5D increments)
<b>Standard cylindrical range</b>	+0.5 D to +8 D (in 0.5D increments)
<b>Custom cylindrical range</b>	+8.5 D to +12.00 D (in 0.5D increments)
<b>Near-vision addition</b>	+1 D to +3.5 D (custom + 4 D) (in 0.5D increments)
<b>Incision size</b>	2.8 mm



## IPCL★ the one step refractive solution

Precise. Safe. Reversible.



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Patented technology product by:





### IPCL★ features

- ★ **IPCL★** is a hydrophilic, one-piece, implantable posterior chamber lens which can be implanted through a 2.8 mm incision.
- ★ The lenses are manufactured from a hybrid acrylic material with proven long term safety results.
- ★ Largest dioptric range available on the market, customisation up to -30 diopters.
- ★ All **IPCL★** lenses are aspheric and available for myopia, hyperopia, astigmatism and presbyopia.
- ★ Smart Toric **IPCL★**, customisation of every lens on the 0-180 axis, only reference marking required and no rotation needed.
- ★ Customised larger optics are available up to 7.25 mm.
- ★ The unique patented refractive-diffractive trifocal optic has an effective light transmission of 92%.
- ★ **IPCL★** provides excellent contrast sensitivity.
- ★ Each lens is delivered with a back up.

### IPCL★ innovative design

- ★ Haptic markings and notches aid orientation during lens positioning and loading of the lens in the cartridge.
- ★ Better stability because of 3 haptic pad design.
- ★ Specially engineered spring haptic pads for more accurate white to white sizing. Angled optic-haptics ensure optimal distance (vaulting) from the natural lens.
- ★ The **IPCL★** myopia models all have a central conical hole to optimise aqueous flow. The hole has been designed to minimise light scattering and disturbances.
- ★ Two holes at the edge of the optics guarantee an uninterrupted anterior chamber aqueous flow. The holes are in an upper position in order to avoid light reflexes or scattering.
- ★ The **IPCL★** lenses have specially created smooth edges which have been thinned to eliminate iris trauma.
- ★ The four optic haptic holes are designed to control IOP and equalising of pressures.

### IPCL★ presbyopic

- ★ Depending on the patient's condition and the accommodation capacity of the lens, an individual solution can be found for any given patient.
- ★ The lens has a patented refractive-diffractive trifocal design, ensuring good vision at far, intermediate and near.
- ★ With the choice of different near-vision additions, adaptation to the accommodation capacity and the condition of the patient is possible.
- ★ Over 2000 implantations of the presbyopic **IPCL★** worldwide.

#### REFERENCES

1. Refractive and visual outcomes with diffractive posterior chamber implantable phakic contact lens (IPCL) for presbyopia treatment: one year follow up. M Tomita, Japan, MD, Minoru Tomita Eye Clinic, Tokyo, Japan.
2. A new implantable phakic intraocular lens (IPCL): a preliminary report. S. Patwardhan, India. Nandadeep Eye Hospital and Institute, Sangli, Maharashtra, India.
3. IPCL (Implantable phakic contact lens) results in refractive correction of myopic and hypermetropic eyes. J Thind, India. Thind Eye Hospital, Jalandhar, Punjab, India.