

Instructions for Use 1stQ Basis IOL preloaded

Hydrophilic preloaded intraocular lens for implantation into the capsular bag

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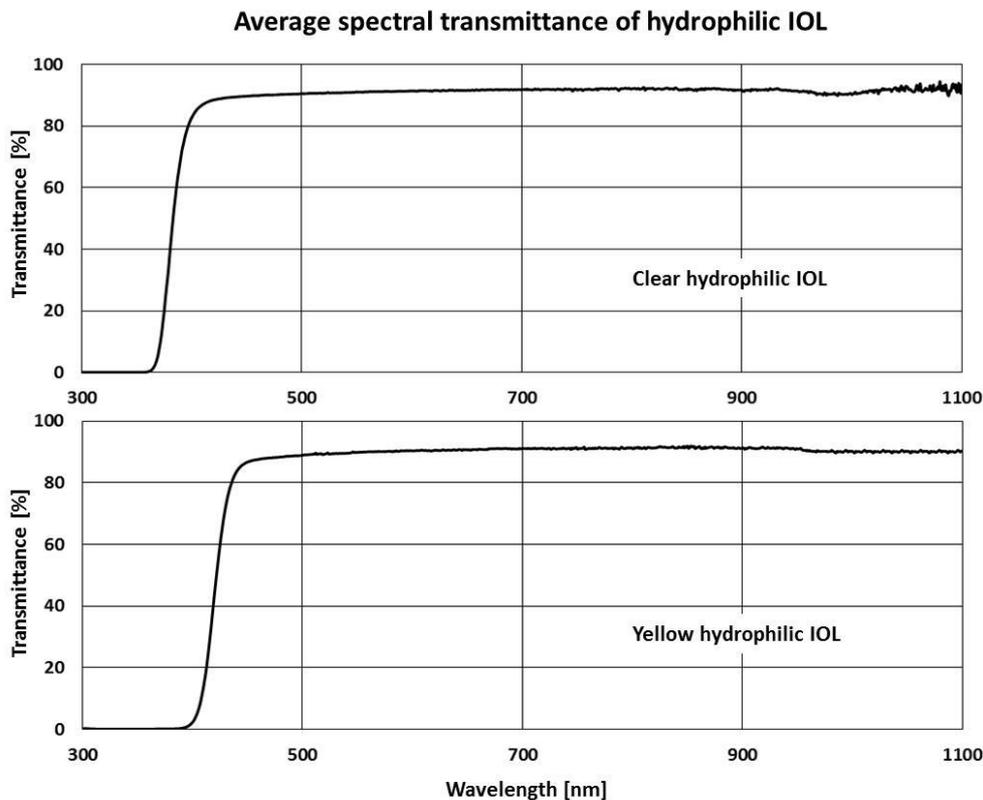
Content:

A sterile one-piece preloaded foldable aspherical intraocular lens (IOL) for single use in combination with a 1st Inject P2.2 instrument, consisting of highly purified hydrophilic acrylate with covalently bonded UV absorber. Yellow IOLs have an additional blue light filtering chromophore covalently bonded to the material.

Description:

This IOL is an optical product of the highest precision. The manufacturing and the quality management system of 1stQ is in accordance with international standards and is certified according to ISO 13485 and 93/42/EEC.

The optical properties of the lens, e.g. refraction power as well as the dimensions (size of optics, total size of IOL) are indicated on the labels on the primary and secondary packaging.



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The sharp edge design of this IOL creates an effective barrier against posterior capsule opacification (PCO) and reduces the rate of PCO development. However it cannot be excluded, that some patients may experience clinically significant PCO after surgery.

Packaging:

The hydrophilic lens is supplied steam sterilized in a container filled with water. The container is sealed with aluminium foil and packed in a protective blister.

The overall packaging contains the product, a set of stickers for administrative purposes identifying the lens and a patient card to be completed and given to the patient.

Transport, storage and waste management:

Handle with care.

Store at room temperature.

Do not expose to direct sunlight or extreme temperatures.

Do not freeze.

Keep dry, protect from moisture/water.

The product or its waste material should be disposed of in accordance with local/national regulations and requirements.

Sterilization and expiration:

After being packed under clean room conditions, hydrophilic IOL have been sterilized by steam. Sterility is guaranteed only when the packaging is neither opened nor damaged. The applied sterilisation procedure and the expiration date is marked on the labels on the primary and secondary packaging. Do not use the IOL after its expiration.

Indications of use:

Implantation into the capsular bag in the posterior chamber of the adult eye after surgical removal of a cataractous lens to replace the human natural crystalline lens. This IOL can correct a previous refraction error.

Precautions:

Careful preoperative evaluation and clinical judgment should be made by the surgeon prior to surgery to decide the benefit/risk ratio of the implantation in the following pre-existing conditions as described in the relevant medical literature:

- choroidal hemorrhage
- extremely shallow anterior chamber
- severe corneal dystrophy
- zonular separation
- uncontrolled glaucoma
- diabetic retinopathy
- recurrent anterior or posterior segment inflammation of unknown etiology
- significant vitreous loss
- posterior capsular rupture
- severe optic nerve atrophy
- color vision deficiencies

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- chronic uveitis
- clinically significant macular/RPE changes
- retinal detachment
- monocular patient
- bleeding disorders
- retinal detachment
- retinopathy of prematurity in the medical history
- current or recent treatment with any anticoagulant or antiplatelet medication or systemic alpha-1a adrenergic antagonists (e.g. tamsulosin)
- prior ophthalmic surgery e.g. keratorefractive surgery, penetrating keratoplasty, pars plana vitrectomy, scleral buckling surgery
- diabetes including its complications, e.g. proliferative diabetic retinopathy
- anatomical variances e.g. difficult access to eye (e.g. deepset eyes), microphthalmos, extremely shallow anterior chamber, small myotic pupil
- any concomitant severe eye disease including uveitis, glaucoma, high hyperopia and myopia, pseudo-exfoliation syndrome
- corneal diseases, like Fuch's corneal endothelial dystrophy, severe corneal dystrophy, irregular corneal astigmatism
- iris disorders, like synechiae, essential iris atrophy, rubeosis iridis
- zonular laxity or dehiscence and potential phacodonesis and lens subluxation
- special cataract types, e.g. hard/dense (brown/brunescent) nuclear cataract, posterior polar cataract, white (mature cortical) cataract, cataract due to rubeola, non-age related cataract
- disorders of the choroid, retina and the optic nerve, e.g. choroidal hemorrhages, retinal detachment, macular degeneration, severe optic nerve dystrophy

Possible complications:

As with any surgical procedure, there is risk involved.

The most common potential complications and undesirable effects accompanying cataract or implant surgery – some of them may lead to a secondary surgical intervention (e.g. IOL replacement or extraction) or medication – may include, but are not limited to the following:

- damage to cornea, Descemet membrane or endothelia
- corneal (stromal) oedema, bullous keratopathy
- haemorrhage, hyphemia
- raised intraocular pressure, secondary glaucoma
- cystoid macular oedema
- uveitis
- iris trauma, pupillary block, iris prolapse, seclusio pupillae, iris capture, iritis, epithelial ingrowth
- intraocular infections, inflammation, endophthalmitis
- dissatisfactory visual outcome (e.g. due to incorrect IOL refraction), visual impairment, glares/blinding, secondary surgical or medicinal intervention
- retinal detachment
- hypopyon
- IOL dislocation, decentration, tilt, axial shift or, rotation of the IOL, incorrect positioning of the IOL during surgery
- unanticipated surgically induced change in the cornea, e.g. astigmatism
- vitreous loss
- cyclitic membrane

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- synechia
- wound gape, wound leak/dehiscence
- thermal burns
- damage to the IOL during implantation
- damage to anterior and posterior capsule (e.g. ruptures, tears) or to the zonules
- capsular phymosis and capsule block syndrome
- posterior capsule opacification (PCO)
- postoperative opacification/calcification of the IOL, deposits, discoloration, decoloration
- asthenopic discomfort, adaption difficulties

Interactions:

No direct interactions of the implanted IOL with drugs are known.

However, the current or previous treatment with systemic alpha-1a adrenergic antagonist (tamsulosin) may increase the perioperative complications of the cataract surgery.

The use of antiplatelet and anticoagulant medications may increase the risk of haemorrhagic anaesthetic or perioperative complications.

The deterioration of the transparency of the IOL implanted into the human eye has been observed after the intraocular administration of SF₆ or C₃F₈ gases. Visually significant haze may develop, that may lead to IOL exchange.

In reasonably foreseeable environmental conditions, no significant interaction or possible damage caused by exposition to magnetic fields, external electrical influences, electrostatic discharge, pressure or variation in pressure, thermal ignition sources, and acceleration is known.

Warnings:

- Keep these Instructions for use and read it carefully before you apply this medical device.
- The surgeon performing the implantation must inform the patient about the implant and all known side-effects and risks.
- The patient should be instructed to inform the doctor in charge properly about any side-effects after implantation.
- Patients should be advised that unexpected outcomes could lead to continued spectacle dependence or may necessitate additional surgical intervention.
- Do not use if the sterilized package is moist, open or damaged.
- Do not re-sterilize by any means.
- Do not use if expired.
- Do not re-use. Any occasional re-use must be avoided as it may pose serious health risk either by non-sterility or by any mechanical defect caused by the previous use.
- Use only sterile intraocular rinsing solutions such as sterile Ringer's solution or sterile BSS solution.
- Do not use any hydrophilic acrylic IOL if there is no fluid in the lens container.
- Do not use the storage fluid of a hydrophilic IOL.
- A temporary opaqueness of the lens may occur due to a considerable change of temperature (e.g. when stored below room temperature). This phenomenon does not damage the lens material and the lens reverts to transparency after equilibration.

Preoperative calculation of IOL power:

Accurate up-to-date and complete keratometry, biometry, visual acuity data as well as an exact calculation of the needed refraction using the formulas available in the literature are inevitable for optimal visual results. Calculation may need the contribution of properly qualified optometrists.

The label of a 1stQ IOL contains the relevant optical parameters of the lens. The A-constant value specified on the outer label is presented as a guideline. It is advised that surgeons personalize the constants they use based on their surgical techniques, equipment and postoperative results. If available, use an optimized IOL constant:

www.augenklinik.uni-wuerzburg.de/ulib/index.htm

Handling:

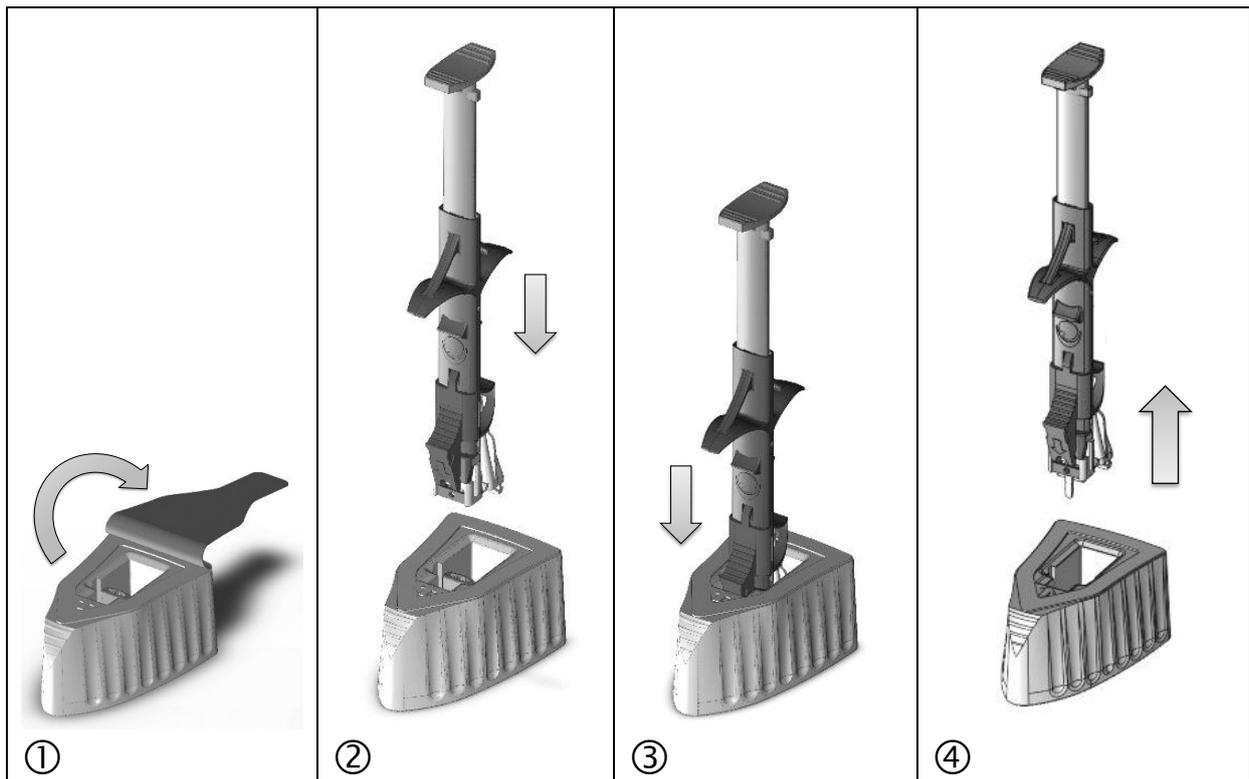
High level of surgical skill is required for proper implantation. The surgeon should have observed and/or assisted in numerous implantations and successfully completed one or more appropriate courses before attempting to perform implantation. Before performing the implantation the surgeon must read these instructions for use.

- It is recommended to store the lens the day before implantation at room temperature.
- Examine the package labels carefully for information about the lens model, power and expiration date
- Ensure that the IOL model and power corresponds with the results of the preoperative biometry.
- For the implantation of the preloaded hydrophilic IOL use the 1stInject P2.2 instrument. Check its expiration date.
- Open the outer package to remove the protective peel-pouch or blister and verify that the IOL container information is consistent with the outer package labeling (power, model and serial number).
- In a sterile environment open the protective peel-pouch or blister and remove the lens container from the packaging
- Check the consistency of the information (model, power and serial number) provided on the label affixed on the container, primary packaging and folding box.
- Remove the peel-off aluminium foil from the wet lens container while holding the container horizontally.
- Transfer the lens to an appropriate injection device. For loading and injection of the lens follow the Instructions for Use of the injector (also see figures below).
- Inject the lens in a controlled manner. Do not use too much pressure. Anticipate a slight initial resistance. Excessive resistance could indicate a trapped lens. If the injector is blocked by the IOL, discard it.
- The entire injection should be one continuous process without interruption. Never pull the plunger back; otherwise the haptics might become damaged.
- When the lens exits the cartridge nozzle, stop pressing the plunger.
- The surgeon must achieve perfect placement, orientation and centration in the capsular bag and emmetropia, for optimal results.
- Discard the injector after use.

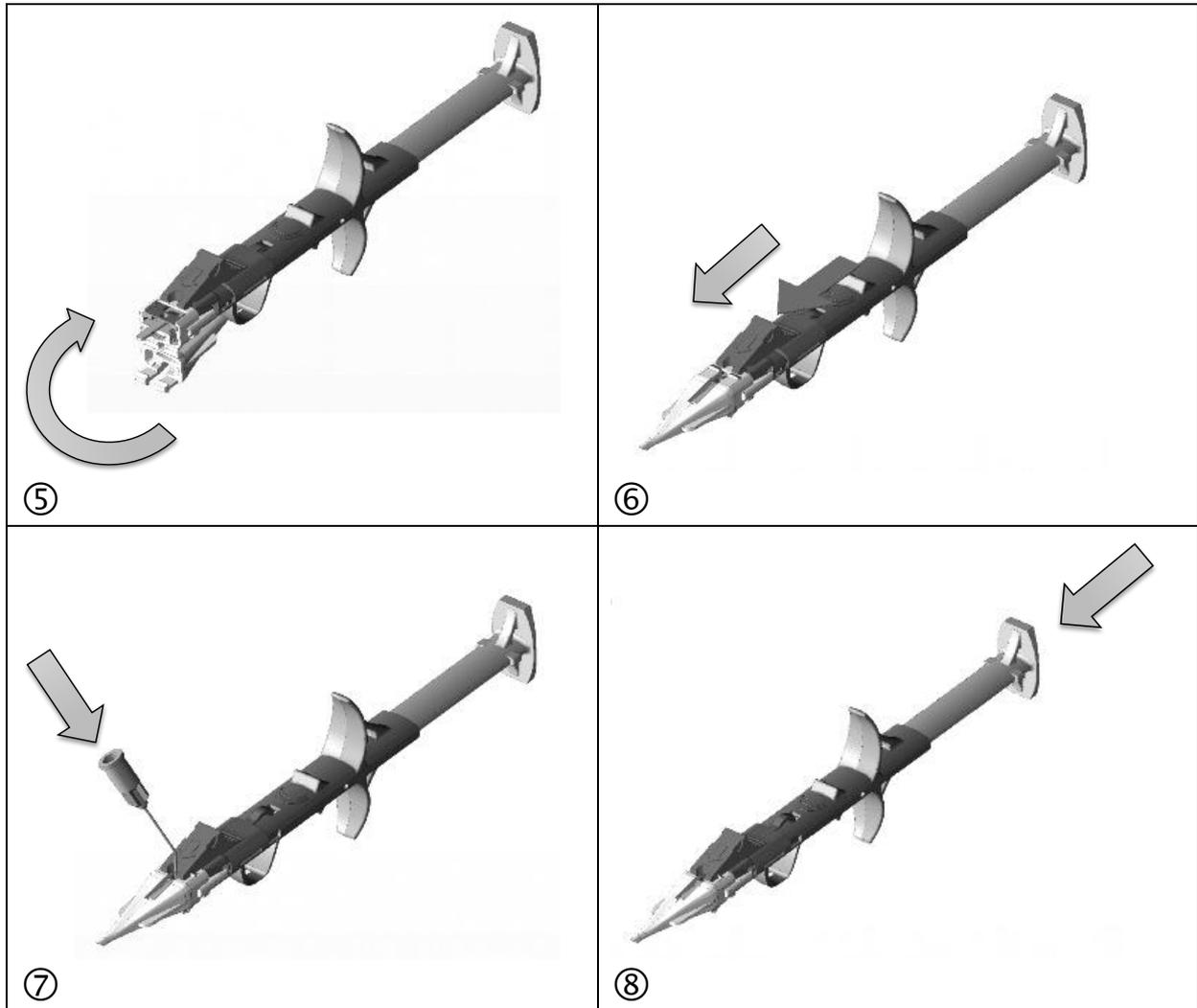
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Description of Figures:

1. Open the container of the preloaded IOL (Figure 1).
2. Align the arrows on the injector's red stopper and the open wet IOL container for correct positioning (Figure 2).
3. Insert the injector with a firm downward motion until it clicks (Figure 3).
4. Pull out the injector (Figure 4) and check that the lens holder is loaded in the injector.
5. Carefully release the cartridge nozzle from the hook. Make sure you do not damage the nozzle tip. Fold up the cartridge nozzle by 180 degrees until it snaps into place (Figure 5).
6. Push the red stopper forward until it clicks to secure the cartridge nozzle and at the same time to unblock the pushing rod (Figure 6). Avoid premature pushing of the rod which is freely movable after this action.
7. Introduce the cannula (23G) of a syringe filled with viscoelastic material into the small aperture in front of the red stopper. Inject the viscoelastic material (HPMC) through the aperture (Figure 7) and completely fill the cartridge until it leaves the tip. Then additionally fill the tip of the cartridge with HPMC. Balanced Salt Solution or water should not be used as lubricant.
8. Push the plunger to inject the IOL (Figure 8)



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Patient card:

The relevant details should be entered onto the patient card enclosed. One of the stickers with the IOL details from the label set enclosed should be affixed on the back of the patient card. This card is to be given to the patient, who should take care of it so as to present it to any eye specialist in the future.

References:

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Reporting customer complaints and return of product:

Customer complaints including quality complaints, adverse events and other medical device related observations should be reported to 1stQ without delay. A report describing the details of the complaint/event, the applied therapy, the product type, LOT/serial number of the medical device used is requested.

If possible, return the medical device and/or its original container and/or any part of the packaging, as well as the used injection instrument to 1stQ or to your local distributor.

Symbols used:

	Do not resterilize		Serial number
	For single use		Sterilized using steam or dry heat
	Keep away from sunlight		Do not used if package is damaged
	Keep dry		Manufacturer
	Use by (date)		CE certified
	Consult Instructions for use		

Liability:

1stQ does not bear any responsibility for improper model selection by the physician, for improper handling, use, surgical technique applied or for any other iatrogenic error caused by the implanting surgeon.

This product is subject to change with or without prior notice. Improvement changes may be made in specification, shape and material.

All translations of this text are derived from the original English text. Should you face any discrepancy or problem in interpretation, please consult the English version for guidance.

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