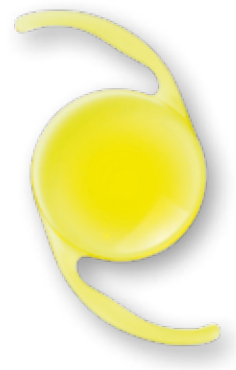




# Primus-HD<sup>®</sup> / Yellow

Premium hydrophobic, aspheric lenses



*100% preloaded*

*Innovative 7 mm implant tip*



*Implantable with a 2.2 mm incision*



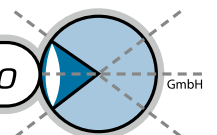
**„Implants with a smile ...“**

**OPHTHALMO**

*Pro*

GmbH

Products for ophthalmic surgery



# Primus-HD<sup>®</sup> / Yellow

Premium hydrophobic, aspheric lenses



**Controlled implantation thanks to precision screw thread**

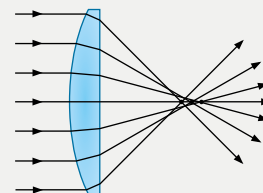
**Extremely high-quality polyethylene housing**

Spherical standard intraocular lenses have been used in cataract surgery for many years. A number of manufacturers offer a large selection of these lenses. However, the disadvantage of using spherical lenses is that they cause certain optical defects that affect the quality of vision. Aspherical **Primus-HD<sup>®</sup>** intraocular lenses prevent these optical defects. This helps improve the general quality of vision, in particular due to their optimisation of contrast sensitivity and night vision.

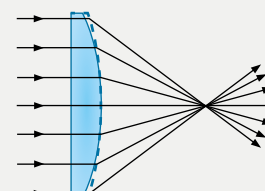
In spherical lenses, incident light passing through the periphery does not converge at the same point as the incident light passing through the centre. The reason for this is that the optical power of the lens rises as the distance of the incident light from the centre of the lens increases. This means that incident light falling in the periphery is more strongly refracted by the lens than incident light falling in the centre. Spherical aberration thus causes blurring in images with wide-open light beams, in other words when the pupils are widely dilated. This causes vision to be blurred. This defect can be eliminated by decreasing the curvature of the lens surfaces towards the edge. This is exactly what aberration correction **Primus-HD<sup>®</sup>** intraocular lenses offer.

In contrast, the aspherical **Primus-HD<sup>®</sup>** intraocular lenses converge all the incident light at the same point. This allows light rays that are far away from the centre of the lens to be focused at the same point as near or central incident light. This is a requirement for achieving the ideal vision sharpness, especially at night, when the pupil grows much larger in the dark and the passing light beams are wide open.

## Spherical intraocular lens



## Primus-HD<sup>®</sup> / Yellow



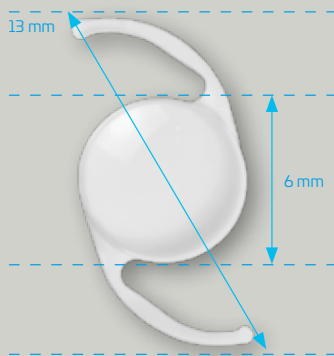
**Optimal lens fit  
100% preloaded**

**Dynamic-Tip ermöglicht  
Implantationen über  
2.0 – 2.2 mm**

## The benefits at a glance:

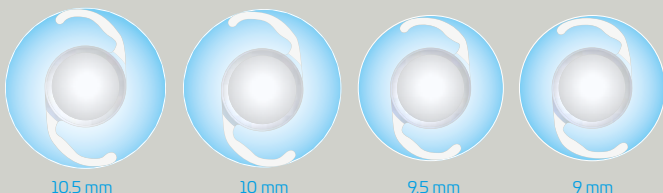
- **360° ultra-sharp square edge**  
(effective protection against after-cataract).
- **100% preloaded system**  
(protection against contamination of the lens implant).
- **Latest generation of aspheric lenses, aberration correction**  
(high-contrast, sharp vision).
- **Designed for high rotational stability**  
(max. stability of the lens implant).
- **Implantable with 2.2 mm small-incision cataract surgery** (into the bag)
- **100% modified surface**  
(effective protection against cell adhesion).
- **Optionally available as Primus-HD®/ Yellow with blue light filter** (filters high-energy blue light effectively).

## Primus-HD®/ Yellow



### Modified L-loop

- Ensures lens adjustment to capsular bags of different sizes
- Ensures excellent centring and stability



360° ultra-sharp square edge design, increased barrier effect against LECs.



Roughened lens edge, effectively prevents glare induced by the lens edge.



360° contact with the posterior capsule, effectively prevents the migration of LECs and reduces the migration of LECs at the area of contact of the haptics and lens.

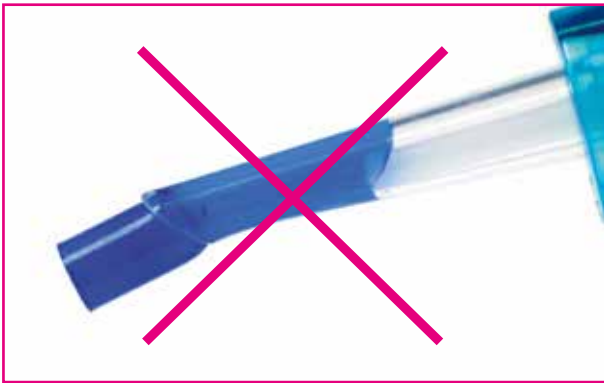


Ultra-pure premium acrylic, glistening-free, no sticking of the haptics, high light transmission.

Thanks to the advanced design of the cartridge tip of the Primus-HD preload system, all Primus-HD® Preload IOLs can be implanted with 2.0 mm (wound-assisted) and 2.2 mm (into the bag) incisions. The tip of the cartridge adjusts individually to the incision.



### Injector tip comparison:



#### ***Negative example of a silicone tip***

Silicone tips often „mushroom“ and act like barbed hooks in an incision. They can very often trap the haptics of the lens or even tear it off.

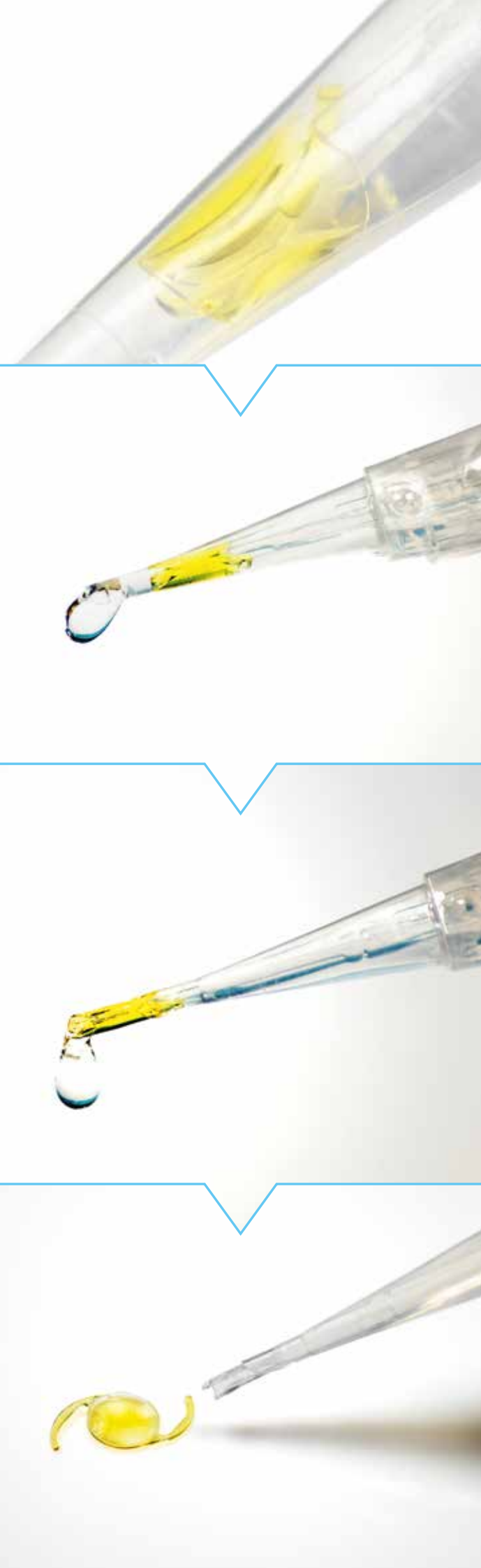
They are often too short and are not able to properly eject the lens, or can detach from the guide and come loose in the eye.



#### ***Primus-HD injector***

The innovative Implant-Tip® can be turned approx. 7 mm out of the cartridge tip. This allows the IOL to be manipulated and rotated intraocularly.

No „mushrooming“ or pinching of the haptics or lens is possible. Controlled, consistent implants are achieved through nano-coating of the cartridge.



## Functionality

After engaging the precision screw thread, the Primus-HD® IOL is folded in the shape of a „taco“, allowing both haptics to adhere to the lens and to be safely implanted.

After emerging from the cartridge, the Primus-HD® IOL unfolds dynamically and comfortably, and can be easily and safely positioned and rotated using the innovative Implant-Tip®.

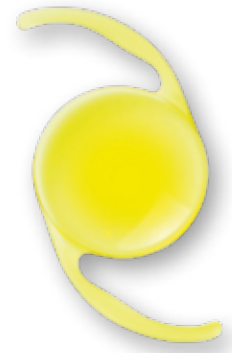
## Technical data for Primus-HD®/Yellow

Model	<b>Primus-HD®/Yellow</b>
IOL type	100 % preloaded, single piece
Material	Ultra-pure, hydrophobic acrylic
Filter	UV-filter ( <b>Primus-HD® Yellow</b> with blue light filter)
Lens type	Biconvex, posterior convex, aspheric but corrective
Powers	-10.0 to +34.0 in 0.5 D steps
A-constant	118.2 (nominal)
Lens diameter	6.0 mm optic zone
Total diameter	13.00 mm
Haptic design and angularity	Modified „L-Loop“, 1.5°
Edge design	360° ultra-sharp square edge, roughened edge



# Primus-HD<sup>®</sup> / Yellow

Premium hydrophobic, aspheric lenses



## The benefits at a glance:

- **360° ultra-sharp edge** (effective protection against after-cataract).
- **100% preloaded system** (protection against contamination of the lens implant).
- **Latest generation of aspheric lenses** (high-contrast, sharp vision).
- **Designed for high rotational stability** (maximum stability of the lens implant).
- **Implantable with 2.2 mm small-incision cataract surgery.**
- **100% modified surface** (effective protection against cell adhesion).
- **Optional Natural-Yellow<sup>®</sup> blue light filter** (filters high-energy blue light effectively).

## Contact:

OPHTHALMO Pro GmbH  
Im Reihersbruch 1, 66386 Sankt Ingbert  
Owner: Thomas Zimmer  
Tel.: +49 (68 94) 99 88 770  
Fax: +49 (68 94) 99 88 777  
E-mail: [office@ophthalmo-pro.de](mailto:office@ophthalmo-pro.de)  
[www.ophthalmo-pro.de](http://www.ophthalmo-pro.de)