The image below shows OPHTEC’s CTR.

NOTE: perfectly circular capsular bag.

OPHTEC tension rings are designed to be more flexible and not deform the capsular bag.

OPHTEC’s unique and proprietary process

OPHTEC unique and proprietary process allows our CTR to be extremely flexible with incredible strength. ONLY OPHTEC can tie its tension rings in a knot.

ONLY OPHTEC has the unique “ski tip” feature

The ends of the rings are gradually formed to “tip up” like a ski tip - this allows the CTR to be easily guided in the capsular bag as the ring is dialed in. The ‘ski tips’ allow the tips to flow unimpeded in the capsular bag and not become ‘snagged’.

Compression Molding Technology

OPHTEC has developed a unique production process for the manufacturing of CTRs: Compression Molding Technology. During the compression molding process the molecular structure of PMMA is enhanced by redistributing the molecules into longer chains, resulting in a much stronger material.

The Pre-compression shape (oval) becomes perfect circle under full compression. The circular shape keeps the capsular bag perfectly symmetrical.

OPHTEC BV

PO Box 398
9700 AJ Groningen
Swarteweerlaan 15
9728 NR Groningen
The Netherlands

T: +31 50 525 1944
F: +31 50 525 4386
E: info@ophtec.com

Order lines in The Netherlands:
T: +31 50 527 5400
F: +31 50 527 4996

For more information on our products and our worldwide offices please go to:

www.ophtec.com

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RingJect™

Preloaded Capsular Tension Ring in a single use injector

Key Opinion Leaders from around the world routinely use Capsular Tension Rings (CTRs) with all premium IOLs
The OPHTEC CTR is a high precision medical device for insertion in the capsular bag and made from highly flexible compression molded polymethylmethacrylate (PMMA). It is self-loading for the surgeon's convenience.

The OPHTEC CTR is a tension ring designed to be prepositioned in the injector and is designed to be self-loading for the surgeon's convenience.

The OPHTEC CTR is a preloaded Capsular RingJect™ system.

Monofocal intraocular lenses as the lens is especially placed in the frontal plane avoiding decentrations cannot be easily observed with the slit lamp, small tilts or dysphotopsia related problems. On clinical observation at the slit lamp, small tilts or dysphotopsia related problems. On clinical observation at the slit lamp, small tilts or dysphotopsia related problems.

1. Better outcomes: we have been able to demonstrate in two different intracocular lenses (Acrylsa Zeiss and Mplus Oculentis), that the use of a CTR creates a better outcome for far and near vision. These results are related to the better performance of multifocal intracocular lenses as the lenses are better placed in the eye.


3. A second chance for the patient is that they are unlucky and the patient is unable to tolerate the multifocal image (failure of neuroadaptation), something that happens seldomly today but still has to be considered, to explain the IOL and substitute it with a monofocal lens is feasible with a CTR even after 2 or 3 years, as in my experience. Heterotopic, without a CTR, to reopen a capsular bag and to explant the lens, especially a plate haptic one, is associated the major complications, visual loss and can compromise the future of the eye.

4. Delayed posterior capsule opacity: the use of CTRs has been associated to delayed PCO.

5. Delayed posterior capsule opacity: the use of multifocal IOLs is important as a tilt or decentration can degrade the quality of vision and produce photic phenomena, causing subjective symptoms and decreased patient satisfaction. Perfect centration of multifocal IOLs is crucial to their optical performance. J Refract Surg. 2011 Apr;27(4):217-22


References:


About the author:

S. Shah, UK

"I use CTRs routinely for my premium IOLs. I believe this ensures good centration and prevents late movement from capsule contraction. In the rare occurrence that the lens needs to be explanted, it also facilitates surgery as the bag opens up very easily."

I prefer OPHTEC CTR because they are preloaded, relatively pliable out of injector so they insert without any additional tension on the bag and they unhook without manipulation. Hence they add no significant time on for the surgical procedure."

Cataract Refract Surg. 2009 Sep;56(9):1269-75

Dr. C.K. Joo, Korea

"Postioning of multifocal IOls is important as a tilt or decentration can degrade the quality of vision and produce photic phenomena, causing subjective symptoms and decreased patient satisfaction. Perfect centration of multifocal IOls is crucial to their optical performance."

"I use CTRs regularly on my premium lens cases, CTRs allow for short and long term rotational stability for toric IOls, and positional stability for presbyopic IOls. Furthermore CTRs give extra assurance in the rare instance a toric IOl has to be adjusted or presbyopic IOl needs to be exchanged for these reasons, I have never regretted a prophylactic placement of a CTR."

"It’s very convenient in case of deep set eyes because it has long small tip."

Dr. F. Wiley, US

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Dr. E. Mortensen, Belgium

"I use CTR with all of my Premium IOls. I have tried different types of CTR, but my favorite one is the Ophtec CTR, which is “easy to implant and gives the best results.”"

"It is very convenient in case of deep set eyes because it has long small tip."

And we can easily control the speed and the action/retraction of the CTR injection. Also, it’s very convenient in case of deep set eyes because it has long small tip."

"I routinely use CTRs in my premium IOL cataract and lens surgery. The reasons for this are four."

"I prefer OPHTEC CTR because they are preloaded, relatively pliable out of injector so they insert without any additional tension on the bag and they unhook without manipulation. Hence they add no significant time on for the surgical procedure."

"I use CTRs with all of my Premium IOLs. It may be possible that every IOL, especially a toric IOL has to be adjusted or presbyopic IOl needs to be exchanged for these reasons, I have never regretted a prophylactic placement of a CTR."

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