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

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.

**Before**

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

**After**

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.

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OPHTEC’s Capsular Tension Rings are indicated for the stabilization of the capsular bag.

The RingJect™ system is an OPHTEC preloaded Capsular Tension Ring (CTR) in a single use injector. The CTR is prepositioned in the injector and is designed to be self-loading for the surgeon’s convenience. The OPHTEC CTR is a high precision medical device for insertion in the capsular bag and made from highly flexible compression molded polymethylmethacrylate (PMMA). Clockwise or counterclockwise insertion is possible.

The RingJect™ system is provided in a sterile blister, prepositioned in the injector and is designed to be self-loading for the surgeon’s convenience. The unique feature associated with the Ringject product is the proprietary manufacturing process that provides a tension ring with total flexibility which ensures that each ring can be manipulated during surgery without the need to augment the planned refraction close the planned refraction of multifocal IOLs. This process provides a tension ring with total flexibility which ensures that each ring can be manipulated during surgery without the need to augment the planned refraction close to the planned refraction of multifocal IOLs and increased patient satisfaction. Perfect centration of multifocal IOLs is crucial to their optimum optical functioning and to preventing problems related to decentration and tilt, especially night-vision complaints. Capsular tension rings were developed to stabilise the capsular bag.

They have been shown to inhibit posterior capsule opacification, may play a role in the stability and positioning of multifocal IOLs, and may prevent IOL rotation caused by capsular bag contraction, thus providing good correction. The more complex the optics, the greater the need for perfect IOL centration. When it happens it very early, dysphotopsia related problems. On clinical examination, the patient is unable to focus on near objects. Prof. J.L. Alió, Spain

1. Better outcomes: we have been able to demonstrate in two different intracocular lenses (Acrylisa 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 lens is better placed in the eye.

2. More stable IOL, less induction of aberrations: IOL malpositioning is one of the reasons for dysphotopsia related problems. On clinical observation at the slit lamp, small tilts or decentrations cannot be easily observed especially in refractive optics such as the Mplus. In these cases, the CTR makes the lens exactly placed in the frontal plane avoiding the induction of position induced aberrations and subjective symptoms.

3. A second chance for the patient is that you are unlucky and the patient is unable to focus on near objects. Prof. J.L. Alió, Spain

1. Use CTRs routinely for my premium IOL patients as 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.

2. 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.

3. CTRs allow for short and long term rotational stability for toric IOLs, and positional stability for presbyopic IOLs.

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

5. Positioning 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 optimum optical functioning and to preventing problems related to decentration and tilt, especially night-vision complaints. Capsular tension rings were developed to stabilise the capsular bag.

Further studies have shown that CTRs can help achieve a postoperative refraction close the planned refraction without the need to augment the planned postoperative refraction. This supports the hypothesis that the CTR plays a role in stabilizing the IOL and improving outcomes.

OPHTEC CTR provides an easy self-loading for the surgeon’s convenience. The unique feature associated with the Ringject product is the proprietary manufacturing process used to manufacture each Ringject capsular tension ring - compression moulding. This process provides a tension ring with total flexibility which ensures that each ring can be manipulated during surgery without the fear of snapping, unlike most other tension rings which can be brittle and can snap when inserted under stress.

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

Dr E. Mertens, 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.”

Dr F. Wiley, US

I use OPHTEC 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.

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Cataract Refract Surg. 2008 Sep;34(9):1468-75

Alió JL, Elkady B, Ortiz D, Bernabeu G Microincision multifocal IOLs in different types of CTR, but my favorite one is the Ophtec CTR, which is “easy to implant and gives the best results.”

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