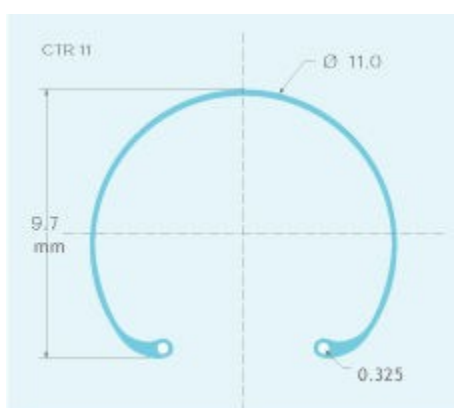


Capsular Tension Rings

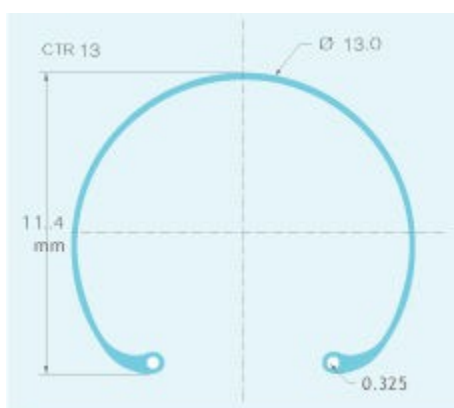
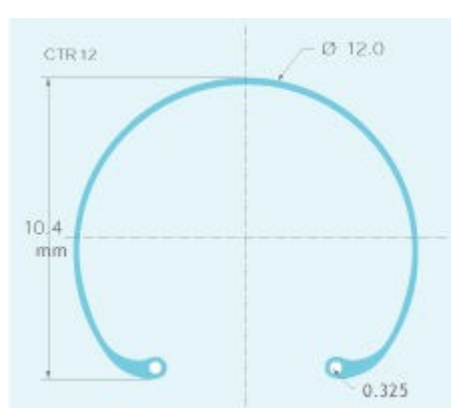
CTR 11 / CTR 12 / CTR 13

We manufacture Capsular Tension Rings in clear as well as Blue PMMA CQ UV, Polymethylmethacrylate (PMMA). Capsular Tension Rings enhance the safety and efficacy during phacoemulsification and posterior chamber intraocular lens implantation. They also prevent vitreous herniation and maintain the circular contour of the capsular bag. CTR's also tend to reduce intraocular lens decentration, which improves vision and gives additional support to the IOL. They may also inhibit epithelial cell proliferation, thus reducing the chances of capsule opacification. Capsular Tension Rings are available in three models CTR 11, CTR 12 and CTR 13.

CTR 11



CTR 12



CTR 13

TECHNICAL SPECIFICATIONS

Model	CTR 11	CTR 12	CTR 13
Material	PMMA CQ-UV	PMMA CQ-UV	PMMA CQ-UV
Overall Diameter	11.0 mm	12.0 mm	13.0 mm
Insertion Diameter	9.7 mm	10.4 mm	11.4 mm
Holes			

Indications:

- Inadequate zonular support causing subluxation of lens
- Patients with pseudoexfoliation syndrome
- Trauma causing zonular dialysis
- Phacodonesis
- Myopic eyes with IOL power of less than 16 diopters
- Repositioning of IOL decentration
- Disorders like: Marfan's syndrome, Scleroderma, Homocystinuria, Spherophakia, Porphyria, Hyperlysinemia, Sulfite Oxidase deficiency

Advantages:

- Circular expansion and stabilization of the periphery of the capsular bag
- Reduced risk of capsular fibrosis and shrinking
- Safe IOL centration in eyes with zonular dehiscence
- Prevents Vitreous Herniation from weak zonular area

Selection of PMMA CTR Model (size):

- CTR 11 has an uncompressed diameter of 11.0 mm and is designed for placement in hyperopic eyes.
- CTR 12 has an uncompressed diameter of 12.0 mm and is designed for placement in average size eyes.
- CTR 13 has an uncompressed diameter of 13.0 mm and is designed for placement in myopic eyes.

Foldable CTR

Foldable capsular Tension Ring (CTR) is a circular ring made of Hydrophilic acrylic CQ UV with two manipulation eyelets on the inner periphery of the ring. Foldable CTR is available in clear colour only. The Foldable CTR is injected into the equator of the capsular bag during cataract surgery by using Bio-Hydroject delivery system through an incision of sub 2.6 mm. Foldable CTR is available in 10.5 mm size.

Application:

The CTR is used for patients who have weakened or missing zonules supporting the capsular bag of the eye. Some complications of cataract surgery with weakened zonules include:

- Dislocation of the nucleus
- Vitreous loss
- Lens subluxation into the vitreous
- The need to position the intraocular lens in another part of the eye
- Loss of optimal visual acuity

Having a capsular tension ring available during all cataract procedures may allow surgeons to increase their overall success rates.

When zonular support of the capsular bag is inadequate, the capsular tension ring can be used to reduce stress on the remaining zonules during phacoemulsification and cortex removal, to increase stability of the capsular bag, and to prevent lens subluxation. Once the ring is placed within the capsular bag, it expands and recruits the remaining intact zonules to support weak areas.