An intraocular lens represents highly innovative technology – both in terms of its corrective power and the vision quality it can provide. In addition to treating cataracts, certain types of IOLs also enable correction of other vision disorders such as presbyopia. Modern intraocular lenses simulate the refractive properties of the natural lens, and can enable good vision at one, two or three distances.

Commonly made of a soft, synthetic and biocompatible material, a typical intraocular lens measures approximately 11 mm in diameter. The thickness of the optic can vary, depending on the lens power. The corrective power of the lens is individually calculated for each eye and may differ for each eye.

**Intraocular lenses with added benefits**
Different types of intraocular lenses are available today to suit the various vision needs of cataract patients. Lenses are classified by the number of focal points and can be either monofocal or multifocal (bifocal or trifocal).

**Main types of intraocular lenses**
- **Monofocal lenses** with one focal point for far or near vision
- **Bifocal lenses** with two focal points for near and far vision
- **Trifocal lenses** with three focal points for near, intermediate and far vision
- **Toric lenses** for astigmatism correction

Modern intraocular lenses can also have additional functions, enabling them to better match the unique requirements of each patient.
Monofocal intraocular lenses
The most common type of intraocular lens has a monofocal optic with a single corrective power (focal point). Monofocal lenses are designed to provide clear vision for one distance, usually far, which is important for tasks such as driving. However, patients with monofocal IOLs may continue to need glasses for activities at other distances, for example, reading.

Bifocal intraocular lenses
Similar to bifocal glasses, bifocal intraocular lenses have two focal points to provide clear vision for both distance and up close. Patients treated with bifocal IOLs may need to wear glasses for certain intermediate-range tasks (approx. 80 cm) such as computer work.

Trifocal intraocular lenses
Trifocal intraocular lenses are designed to enable not only clear far vision and a comfortable reading distance, but also good intermediate vision. Intermediate vision is essential for performing daily activities such as cooking or computer work. As a result, many patients with trifocal lenses no longer need to wear glasses.