

Common Intraocular Lenses (IOLs)

| Platform | Models | Picture | Material/Ctg | Asph/n/D/A | Notes |
|---------------------------------|---|---------|------------------------------|---|---|
| Monofocal | | | | | |
| Tecnis (Tecnis, J&J) | ZCB00 DCB00 (preload) ZCUx/ZCTx (toric) | | Acrylic 1-Piece (Bag) ©/© | -0.27 / 1.47 +5.0 to +34.0 119.3/118.8 | Diameter is 6.0 mm but for powers > +21.00 D the optic is 4.9 mm ("U" for unpolished haptic) -0.27 μm of spherical aberration (SA) |
| AcrySof (Alcon) | SA60WF/SA60AT SN60WF/SN60AT SA6ATx (toric) SN6ATx (toric) | | Acrylic 1-Piece (Bag) ©/© | -0.20/sph/1.55 +6.0 to +34.0 -AT to +40.0 119.0/118.7 | Yellow (Natural) tint blocks blue light, Will be phased out by Alcon for Clareon "AT" series is spherical, © is used for +35 – +40 "WF" is aspheric |
| Clareon (Alcon) | CC60WF/SY60WF CCW0Tx/CNW0Tx CAA0T0/CNA0T0 | | Acrylic 1-Piece (Bag) ©/© | -0.20 / 1.55 +6.0 to +30.0 119.1/118.8 | Replacing the AcrySof platform; 6.0 mm optic -A0T0 as a CO ₂ -powered injector (AutonoMe) for one hand use; "glistening-free" material |
| enVista (B+L) | MX60E MX60PL (preload) MX60ET (toric) MX60PT (preload toric) | | Acrylic 1-Piece (Bag) ©/© | NEUTRAL/1.53 0.0 to +34.0 119.1/118.7 | Doesn't change the asphericity of the eye's optical system; has eyelets for scleral fixation; large range of spherical diopter powers Toric powers down to 1.25D; 6.0 mm optic |
| Light Adjustable (RxSight) | RxLAL | | Silicone 3-Piece (Bag) | NA / 1.43 +4.0 to +30.0 | Adjustable diopter power using UV light after implantation to correct for refractive misses Can also adjust astigmatism correction |
| Akreos (B+L) | AO60 (Akreos AO) MI60P (Akreos MICS) | | Hydrophilic Acrylic (Bag) | NEUTRAL/1.46 0.0 to +30.0 118.5/118.0 119.1/118.4 (AO) (MICS) | AO allows for 4-point scleral fixation; MICS can be implanted through small (1.8 mm) incisions for microincision cataract surgery |
| AcrySof Multipiece (Alcon) | MA60AC (ant convex) MA50BM (post convex) | | Acrylic 3-Piece (Sulcus) © | -0.20 / 1.55 +6.0 to +30.0 119.2/118.8 118.9 | Small haptics of the 3-Piece IOLs minimize contact with uvea in the sulcus; MA60AC is anterior asymmetric biconvex, MA60BM posterior convex |
| CZ70BD (Alcon) | CZ70BD | | PMMA | -0.20 / 1.49 +10.0 to +30.0 118.8 | Nonfoldable and rigid; good for open-sky cases with PKPs; eyelets for fixation |
| SofPort (B+L) | LI61AO (preload) LI61SE (non-preload) | | Silicone 3-Piece © | NEUTRAL/1.43 0.0 to +34.0 118.7/118.0 | Can be placed in the sulcus or bag |
| CT LUCIA (Zeiss) | CT Lucia 202 (spheric) CT Lucia 602 (aspheric) | | Acrylic 3-Piece (Bag) | EITHER/ 1.49 +4.0 to +34.0 117.7 | Very sturdy Polyvinylidene Fluoride (PVDF) 30G haptics; good for unstable bags and fixation |
| Extended Depth of Focus | | | | | |
| Vivity (Alcon) | DFT015/DFTx CCWET0/x (Clareon) | | Acrylic 1-Piece (Bag) © | -0.20 / 1.55 +10.0 to +30.0 119.2/118.8 | Distance and intermediate vision; minimal near; non-diffractive "X-Wave technology" |
| Symfony (Tecnis, J&J) | DXR00V/ZXR00 DXWx/ZXTx (toric) | | Acrylic 1-Piece (Bag) © | -0.27 / 1.47 +5.0 to +34.0 119.3/118.8 | Distance/intermediate; blocks 360-460 nm; diffractive; "D" models are "OptiBlue" |
| Synergy (Tecnis, J&J) | DFR00V DFWx (toric) | | Acrylic 1-Piece (Bag) © | -0.27 / 1.47 +5.0 to +34.0 119.3/118.8 | Has elements of EDOF (near and intermediate) and diffractive multifocal; with OptiBlue UV filter |
| Eyhance (Tecnis, J&J) | DIB00 DIUx (toric) | | Acrylic 1-Piece (Bag) © | -0.27 / 1.47 +5.0 to +34.0 119.3/118.8 | FDA classified and priced as a monofocal with some intermediate using EDOF technology |
| Multifocal | | | | | |
| PanOptix (Alcon) | TFAT00/TFNT00 TFATx/TFNTx (toric) CCWTT0/x (Clareon) | | Acrylic 1-Piece (Bag) © | -0.10 / 1.55 +6.0 to +30.0 119.1/118.7 | Trifocal with true near; rings produce glare and halos around lights, especially at night |
| Tecnis Multifocal | ZxB00 ZLUx (toric) | | Acrylic 1-Piece (Bag) © | -0.27 / 1.47 +5.0 to +3.0 119.3/118.8 | Bifocal with up to +4.00 D add; ZKB00, ZLB00, and ZMB00 for +2.75, +3.75, and +4.00 ADD |
| Accommodating | | | | | |
| Crystalens; Trulign Toric (B+L) | AO1UV/AO2UV BL1UT (toric) | | Silicone (Bag) | NEUTRAL/1.43 +4.0 to +33.0 119.1 | Theoretically accommodates (vitreous pushes lens forward) to provide near vision; evidence for their efficacy was limited, they are not frequently used |




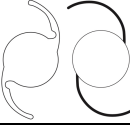






*Asphericity, Power Range, and Optical/US A-Constant; this list is not comprehensive and is not medical advice; it is for medical education reference; cartridges with the most compatibility by the Alcon Monarch system are encircled under "Ctg"

Key: 0/x = spherical/toric; example: CCWTT0/x = CCWTT0 (monofocal) and CCWTTx (toric); © = preloaded or proprietary

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|------------------------------|---|---|-----------------------------------|---|--|
| Small Aperture | | | | | |
| Aphera IC-8 (B+L) | Aphera IC-8 |  | Acrylic 1-Piece (Bag) | Asph/1.483 +10.0 to +30.0 120.5/120.15 | Optic has a nondiffractive 3.23-mm diameter opaque mask with a 1.36-mm central aperture to increase depth of field; aim -0.75 |
| Others | | | | | |
| iPure (BVI) | B1PC (clear) B1PY (yellow) B3PC (clear, 3-piece) |  | Acrylic 1/3-Piece (Bag) | -0.18 +6.0 to +30.0 118.4 | Very similar to PreVue (B+L) and like PreVue also licensed from Hoya in the US. Unlike PreVue it has -0.18 of SA correction |
| Tecnis 3 Piece (Tecnis, J&J) | ZA9003 (acrylic) Z9002 (silicone) |  | Acrylic/Silicone ® | -0.27 / 1.47 +10/6 to +30.0 | 5°/10° of angulation, PMMA haptics |
| Sensar (Tecnis, J&J) | AAB00 AR40E (3-Piece) AR40E (3-piece, low D) AR40M (3-piece, minus) |  | Acrylic (Bag) © (Sulcus) ® | Spherical/1.47 -10.0 to +30.0 119.0 118.7 (1P) (3P) | 3-piece option has 5° angulation and PMMA haptics, one of the rare PCIOLs with minus powers, the AR40M ranges from -10.0D to +1.5D Applanation A-Constant is 118.4 for all Sensars |
| AcrySof EXpand (Alcon) | MA60MA |  | Acrylic 3-Piece (Sulcus) ® | Negative/1.55 -5.0 to +5.0 119.1/118.7 | Meniscus, also a minus powered option |
| RayOne (Rayner) | RAO200E (EMV) RAO600C (aspheric) RAO100C (spheric) |  | Acrylic 1-Piece (Bag) | +0.15/Neut +8.0 to +34.0 118.6 | <i>Hydrophilic</i> acrylic IOLs; EMV = enhanced monovision using positive SA $n = 1.46$ (ABBE 56); small injector nozzle |
| B+L AC (B+L) | S122UV (12.50mm, 4.4°) L122UV (13.75mm, 3.7°) |  | PMMA 1-Piece (AC) | NEUTRAL +5.0 to +30.0 115.8/115.8 | Lathe cut and polished from PPMA with an UV absorbing compound added, S122UV for 10.00mm – 11.49mm WTW, L122UV for 11.50mm – 12.25mm WTW |
| Alcon AC (Alcon) | MTAxU0 |  | Silicone 3-Piece | -0.20 +5.0 to +30.0 115.3 | MTA3U0 (12.5mm), MTA4U0 (13.0mm), and MTA5U0 (13.5mm) for different WTW |
| SBL3 (LensTec) | SBL3 |  | Acrylic 1-Piece (Bag) | Neutral +10.0 to +36.0 118.0 | Hydrophilic acrylic, with a refractive segmental multifocal +3.00 ADD power |
| Visian, EVO Visian (STAAR) | MICLx TMICLx (toric) VICMOx (EVO) VICM5x (EVO+) VTICMOx (EVO toric) VTICM5x (EVO+ toric) |  | Collamer (Sulcus) | Negative -3.0 to -18.0 | ICL (implantable collamer lens) placed in sulcus behind iris vaulted 1.0 ± 0.5 K thicknesses; the old version required LPs, the new EVO version has a 360 µm central port to eliminate this need EVO+ has a 0.1 to 0.5 mm larger optic x represents vault sizing |

® – 3-Piece IOLs, and high powers (35 D - 40 D), © – Any acrylic, © – Most acrylics, some IOLs have a 25 D limit

For detailed IOL Information see www.IOLReference.com