

Common Posterior Chamber 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 dioptric powers Toric powers down to 1.25D; 6.0 mm optic
Light Adjustable (RxSight)	RxLAL		Silicone 3-Piece (Bag)	NA / 1.43 +10.0 to +30.0	Adjustable dioptric 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"
Symphony (Tecnis, J&J)	ZXR00/ZXR00V ZXTx/ZXWx (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; "V" and "W" 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) ©	-0.20 / 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

Update Version: October 2022

Other FDA Approved and Currently Marketed* IOLs

Platform	Models	Picture	Material	Asph/n/D/A	Notes
Aphera IC-8 (AcuFocus)	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
PreVue (B+L)	PREVUEC (clear) PREVUEY (yellow)		Acrylic 1-Piece (Bag)	NEUTRAL/1.52 +6.0 to +30.0 118.5/118.4	Haptics are modified-C loop, blue PMMA tips to increase surgeon visibility within the inserter and the eye; preloaded; minimizes "hand holding"
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
iSert (B+L)	iSERT 230 (clear) iSERT 231 (yellow)		Acrylic 3-Piece (Bag)	-0.18/1.52 +6.0 to +30.0 118.6/118.4	Blue PMMA modified-C loop haptics, corrects the spherical aberration of the cornea, preloaded
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
UltraSert (Alcon)	AU00T0 (yellow) ACU0T0 (clear)		Acrylic 1-Piece (Bag) ©	Negative/1.55 +6.0 to +30.0 119.9/118.7	Preloaded version of AcrySof IQ
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)	Pos/Neut/Neg +8.0 to +34.0 118.6	Hydrophilic acrylic IOLs; EMV = enhanced monovision like Eyhance but +SA n = 1.46 (ABBE 56); small injector nozzle
ReSTOR Multipiece (Alcon)	MN6AD1		Acrylic 3-Piece (Bag) ®	Negative/1.55 +6.0 to +34.0 119.2	Bifocal with +3.00 D add power, anterior diffractive rings (most are posterior)
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
Verisyse (J&J)	VRSMxUS		PMMA (AC)	Negative -5.0 to -20.0 116.8	Attaches to the iris by "enclavation"; more visible than the ICL; x = 5 or 6 for mm sizing

*Based on current year product catalogs and spec sheets

® – 3-Piece IOLs, and high powers (35 D - 40 D)

© – Any a©rylic

Ⓢ – Most acrylics, some IOLs have a 25 D limit