

Supplemental Table 1 Three-piece intraocular lenses reported in the literature for use with the Yamane flanged intrascleral fixation technique

IOL Model	Manufacturer	Haptic Material	Haptic Configuration	Optic Diameter	Overall Length	Haptic Angle	Technical Notes	Ref.
Tecnis ZA9003	Abbott Medical Optics (now J&J Vision)	PMMA	Modified C	6.0 mm	13.0 mm	5°	Early Yamane transscleral fixation reports (2014 study); later noted prone to kinking with aggressive manipulation	Yamane 2014 [1]
Santen X-70 (NX-70)	Santen	PVDF	Modified C	7.0 mm	13.0 mm	5°	Used in the original Yamane clinical series; 7mm optic not widely available outside Japan	Yamane 2017 [2]
Kowa PN6A	Kowa	PMMA	Modified C	6.0 mm	12.5 mm	5°	Shorter overall length; used in Yamane 2017	Yamane 2017 [2]
AcrySof MA60MA	Alcon	PMMA	Modified C	6.0 mm	13.0 mm	10°	Reported in early Yamane series; steeper haptic angle adds difficulty for novice surgeons	Yamane 2017 [2]
AcrySof MA60AC	Alcon	PMMA	Modified C	6.0 mm	13.0 mm	10°	Most widely available 3-piece IOL; PMMA haptics prone to kinking/fracture; higher risk of haptic deformation or fracture in bench testing; 10° angle adds docking difficulty	Zhang 2024 [5]; LoBue 2024 [17]
Sensar AR40e	Johnson & Johnson Vision	PMMA	Modified C	6.0 mm	13.0 mm	5°	5° haptic angle facilitates docking; PMMA material requires gentle passive docking technique	Schranz 2023 [11]; LoBue 2024 [17]
CT Lucia 602	Carl Zeiss Meditec	PVDF	Modified C	6.0 mm	13.0 mm	5°	PVDF haptics strongest in bench testing (1.53 N); rare reports of 'rotisserie' optic tilt due to loose haptic-optic junction	LoBue 2024 [17]; Rocke 2020 [4]
Light-Adjustable Lens (LAL)	RxSight	PMMA	Modified C	6.0 mm	13.0 mm	5°	Postoperative UV-based power adjustment potential; experimental use in flanged intrascleral fixation; lower haptic tensile strength (0.83 N) compared with PVDF haptics.	LoBue 2024 [17]

Haptic tensile strength data from LoBue et al. 2024 [17]: CT Lucia 602 = 1.53 N; MA60AC = 1.00 N; AR40E = 0.87 N; LAL = 0.83 N.

*Peer-reviewed citations correspond to manuscript reference list numbering.

IOL: Intraocular lens; PVDF: Polyvinylidene fluoride; PMMA: Polymethyl methacrylate; UV: Ultraviolet; LAL: Light-adjustable lens.