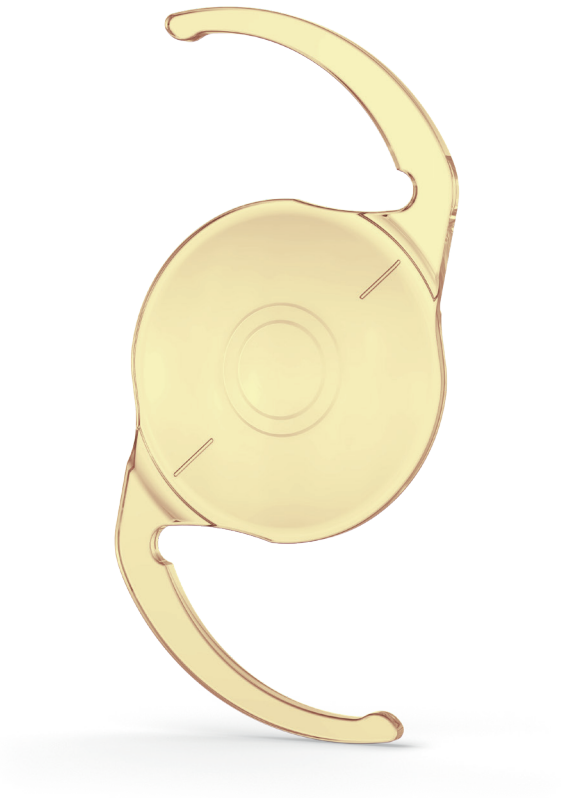
1st Q Leading IOL solutions

Basis Z

EDOF toric

Single piece, sterile, foldable aspheric hydrophobic acrylic intraocular lens (IOL) with UV blocker and blue light filter. The optic is EDOF toric, with refraction-based central Wavefront Linking zones The IOL is available as part of a preloaded injector system.



MATERIAL

Hydrophobic acrylic with UV blocker and blue light filter	
Refractive Index	1,47
Abbe Number	58

DESIGN

Optic Diameter Overall Diameter	6 mm	13 mm
Optic Design	Aspheric - Aberration Neutral Biconvex (+10.0 D → +30.0 D)	
Nominal A-constant	118,9	
Haptic Design	Posterior vaulting Z-haptic with 0° angulation	
PCO Prevention	360° sharp edge	
Shelf Life	2.5 years after sterilization	

INJECTION

Estimated Incision Size	2.2 mm
Compatible Injector	POB-MA SINGLE-USE PRELOADED INJECTOR

CONSTANTS
for optical and immersion ultrasound measurements

SRK/T A-Constant	Haigis	Hoffer Q
A = 118.824*	a0 = 0.3136 a1 = 0.1158 a2 = 0.1758	pACD = 5.411

Holladay I	Barrett Universal II	Holladay II
SF = 1.662	LF = 1.79	ACD = 5.444

*Based on IOL Con 03.2023

The safety and performance of 1stQ IOLs have been tested in clinical investigations and the clinical data demonstrate that these IOLs meet the requirements of the state of the art.

MA-IOL-ELONP-MD135-DTS-EN 202608
Rev: 1075-V02-03/2026

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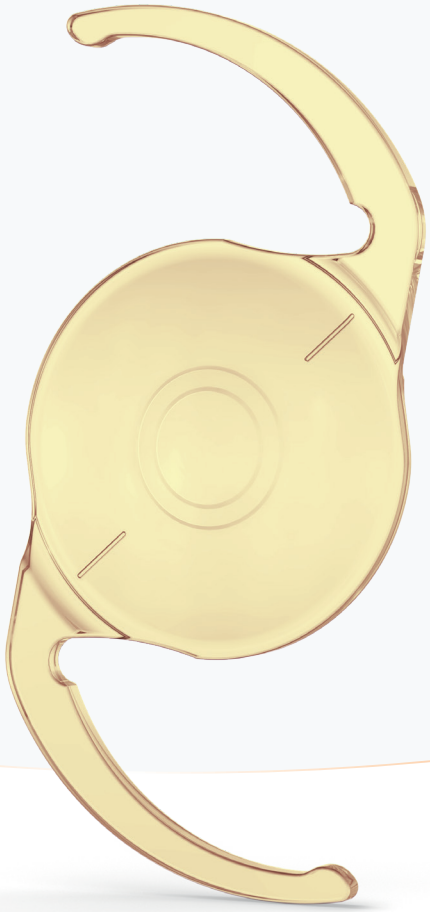

POWER RANGE

Article No. Yellow	SEQ/Powers	Steps	Cylinders	Steps	Addition
B1ZBY0	+10.0 D to +30.0 D	0.5 D	1.00 D to 1.50 D	0.50 D	
B1ZBY0	+10.0 D to +30.0 D	0.5 D	2.25 D to 4.50 D	0.75 D	
S1ZBY0	+11.0 D to +30.0 D	0.5 D	5.25 D to 6.00 D	0.75 D	

Please find the online AddOn Calculator here: https://www.1stq.de/en/iol-calculators/

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