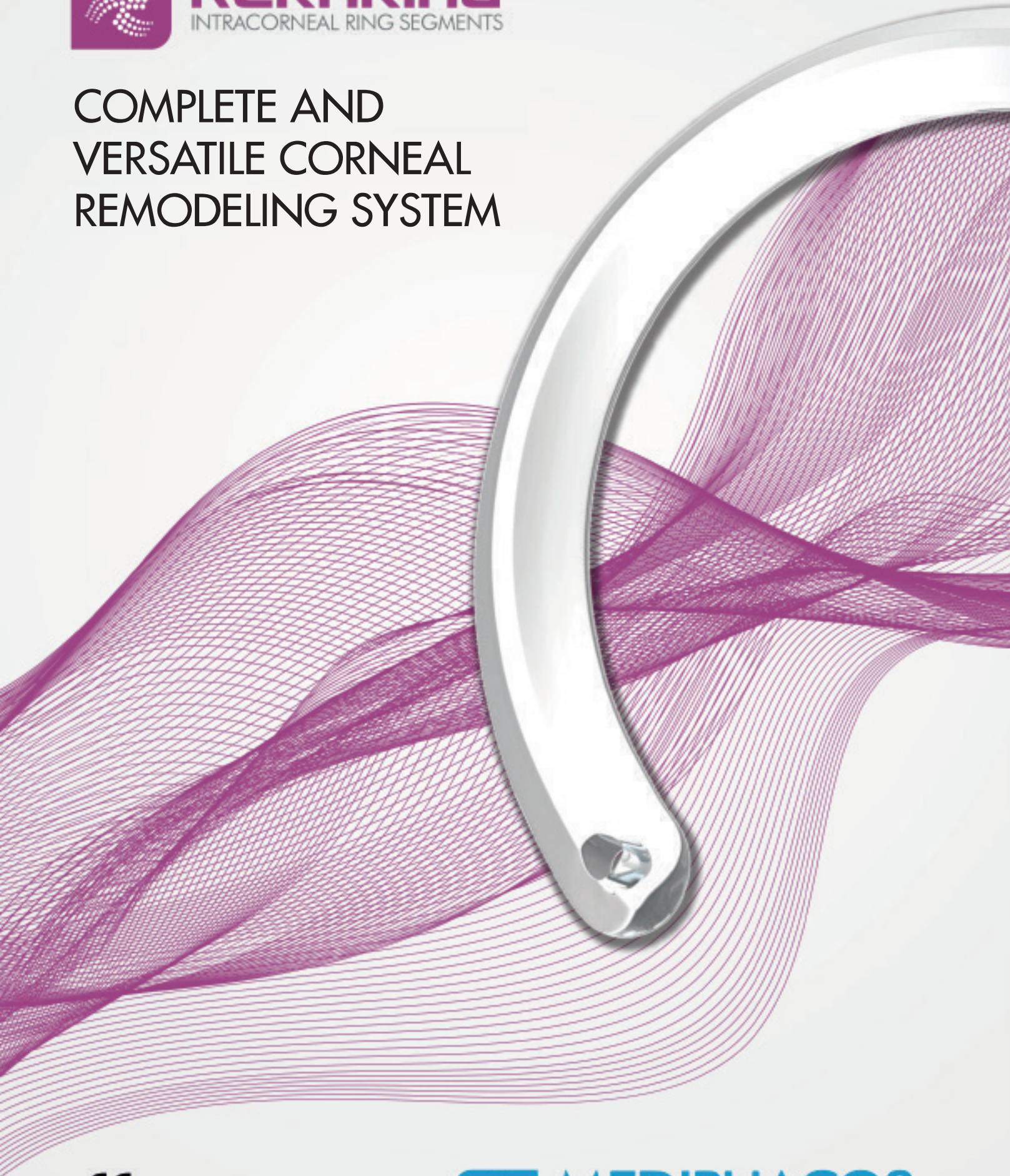




KERARING
INTRACORNEAL RING SEGMENTS

COMPLETE AND VERSATILE CORNEAL REMODELING SYSTEM



CE
2460



MEDIPHACOS
VISION IN EVOLUTION



COMPLETE AND VERSATILE CORNEAL REMODELING SYSTEM

KERARING® intrastromal corneal ring segments are precision implantable devices for the correction of corneal surface irregularities and reduction of refractive errors associated with keratoconus and other corneal ectatic disorders.

INDICATIONS

- Keratoconus in contact lens intolerant patients;
- Astigmatism following penetrating keratoplasty;
- Corneal ectasia following Lasik;
- Pellucid marginal degeneration.

DOES NOT COMPROMISE CORNEAL GRAFT

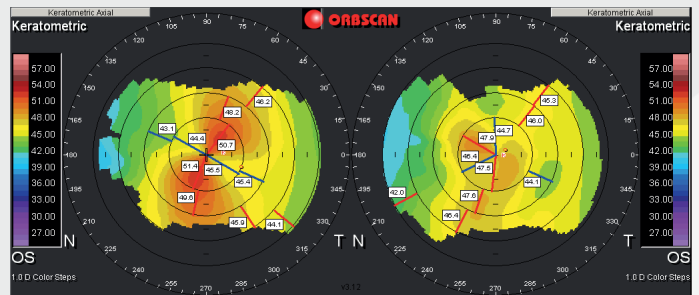
KERARING® does not interfere with the normal execution of lamellar or penetrating keratoplasty procedures, if and when needed.

COMPATIBLE WITH COMPLEMENTARY TECHNIQUES

KERARING® implantation may be synergistically combined with other techniques such as corneal collagen crosslinking, PRK and phakic IOL implantation.

MECHANISMS OF ACTION

- Corneal remodeling;
- Corneal topographic regularization;
- Corneal stabilization;
- Improvement of contact lens tolerance.

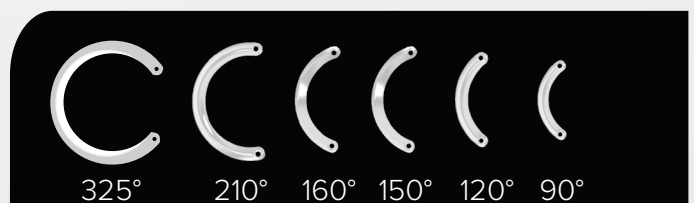


REVERSIBILITY

KERARING® may be explanted at any time, allowing the cornea to return to its original characteristics.

ADJUSTABILITY

Refractive and topographic effects can be easily adjusted by exchanging and or repositioning the implant.





KERARING AS

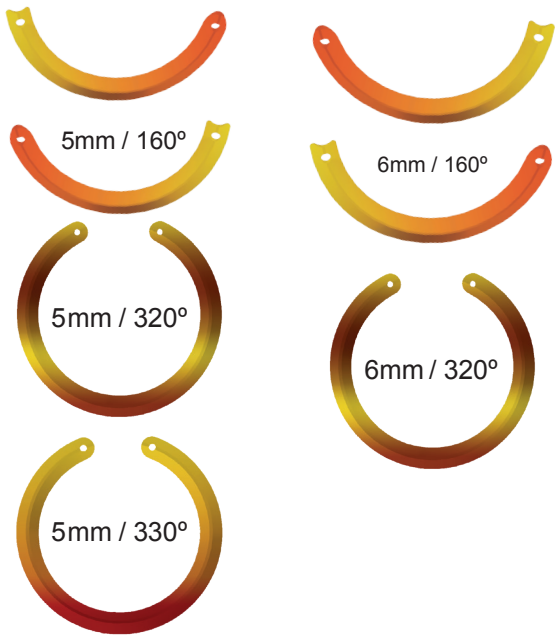
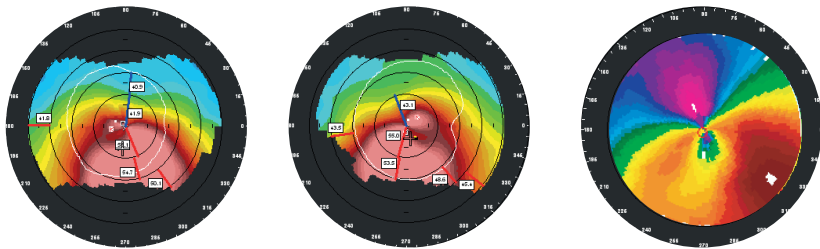
INTRACORNEAL RING SEGMENTS

KERARING® AS is the first and only intrastromal ring segment with progressive thickness. It allows for even greater treatment customization options when planning to achieve optimal visual and refractive outcomes for each individual case. The KERARING® AS is implanted by using existing techniques and instrumentation.

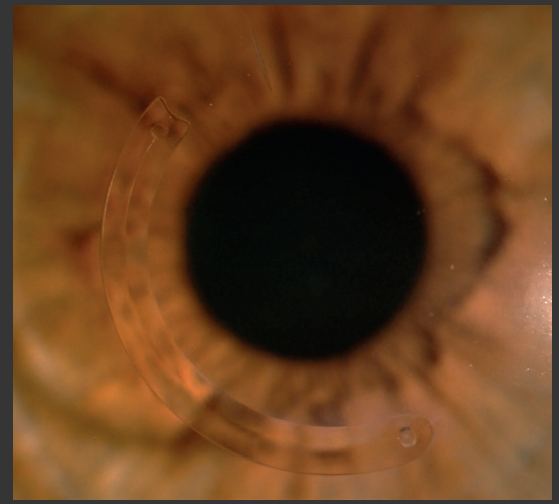


160° segments can have clockwise or counterclockwise direction of thickness progression. The direction of the "arrow" indicates the direction of the thickness increase.

INDICATIONS: ASYMMETRIC TOPOGRAPHIC PATTERNS; NON COINCIDENT TOPOGRAPHIC CYLINDER AND COMA AXIS

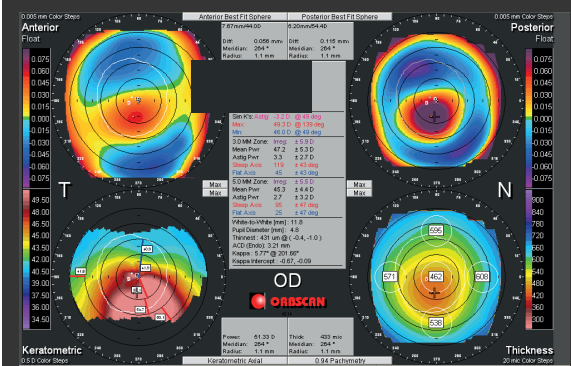


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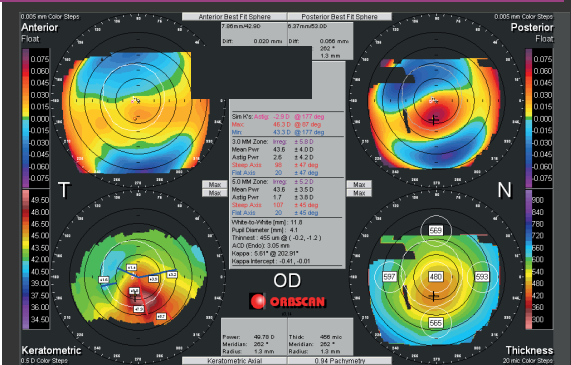
PREOP:

Rx: -5,75 -3,25 @ 138°
UCVA:0,1 BCVA:0,4
K =49 x 46 @ 50°

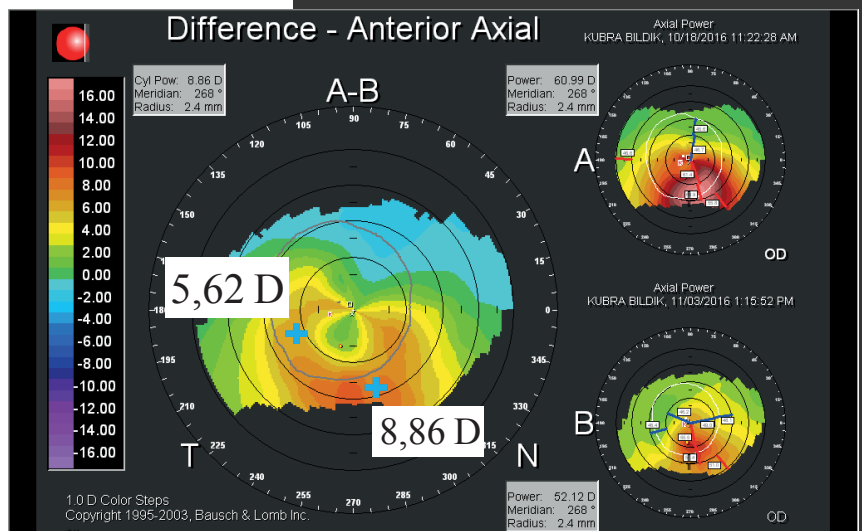


POSTOP:

Rx: -0,25 -1,75 @ 150°
UCVA:0,4 BCVA:0,9
K =46 x 44 @ 170°



DIFFERENCE:



Type	REF	Description	Diameter (mm)	Arc Length (degrees)	Thickness (µm)		
Constant Thickness	5 mm Diameter	SI5A90M150	INTRASTROMAL CORNEAL RING KERARING - SI5-90 - Symmetric - 5mm	5	90	150	
		SI5A90M200	INTRASTROMAL CORNEAL RING KERARING - SI5-90 - Symmetric - 5mm	5	90	200	
		SI5A90M250	INTRASTROMAL CORNEAL RING KERARING - SI5-90 - Symmetric - 5mm	5	90	250	
		SI5A90M300	INTRASTROMAL CORNEAL RING KERARING - SI5-90 - Symmetric - 5mm	5	90	300	
		SI5A120M150	INTRASTROMAL CORNEAL RING KERARING - SI5-120 - Symmetric - 5mm	5	120	150	
		SI5A120M200	INTRASTROMAL CORNEAL RING KERARING - SI5-120 - Symmetric - 5mm	5	120	200	
		SI5A120M250	INTRASTROMAL CORNEAL RING KERARING - SI5-120 - Symmetric - 5mm	5	120	250	
		SI5A120M300	INTRASTROMAL CORNEAL RING KERARING - SI5-120 - Symmetric - 5mm	5	120	300	
		SI5A120M350	INTRASTROMAL CORNEAL RING KERARING - SI5-120 - Symmetric - 5mm	5	120	350	
		SI5A160M150	INTRASTROMAL CORNEAL RING KERARING - SI5-160 - Symmetric - 5mm	5	160	150	
		SI5A160M200	INTRASTROMAL CORNEAL RING KERARING - SI5-160 - Symmetric - 5mm	5	160	200	
		SI5A160M250	INTRASTROMAL CORNEAL RING KERARING - SI5-160 - Symmetric - 5mm	5	160	250	
		SI5A160M300	INTRASTROMAL CORNEAL RING KERARING - SI5-160 - Symmetric - 5mm	5	160	300	
		SI5A160M350	INTRASTROMAL CORNEAL RING KERARING - SI5-160 - Symmetric - 5mm	5	160	350	
		SI5A210M150	INTRASTROMAL CORNEAL RING KERARING - SI5-210 - Symmetric - 5mm	5	210	150	
		SI5A210M200	INTRASTROMAL CORNEAL RING KERARING - SI5-210 - Symmetric - 5mm	5	210	200	
		SI5A210M250	INTRASTROMAL CORNEAL RING KERARING - SI5-210 - Symmetric - 5mm	5	210	250	
		SI5A210M300	INTRASTROMAL CORNEAL RING KERARING - SI5-210 - Symmetric - 5mm	5	210	300	
		SI5A210M350	INTRASTROMAL CORNEAL RING KERARING - SI5-210 - Symmetric - 5mm	5	210	350	
		SI5A325M150	INTRASTROMAL CORNEAL RING KERARING - SI5-325 - Symmetric - 5mm	5	325	150	
		SI5A325M200	INTRASTROMAL CORNEAL RING KERARING - SI5-325 - Symmetric - 5mm	5	325	200	
		SI5A325M250	INTRASTROMAL CORNEAL RING KERARING - SI5-325 - Symmetric - 5mm	5	325	250	
		SI5A325M300	INTRASTROMAL CORNEAL RING KERARING - SI5-325 - Symmetric - 5mm	5	325	300	
		6 mm Diameter	SI6A90M150	INTRASTROMAL CORNEAL RING KERARING - SI5-90 - Symmetric - 6mm	6	90	150
			SI6A90M200	INTRASTROMAL CORNEAL RING KERARING - SI5-90 - Symmetric - 6mm	6	90	200
			SI6A90M250	INTRASTROMAL CORNEAL RING KERARING - SI5-90 - Symmetric - 6mm	6	90	250
			SI6A90M300	INTRASTROMAL CORNEAL RING KERARING - SI5-90 - Symmetric - 6mm	6	90	300
			SI6A90M350	INTRASTROMAL CORNEAL RING KERARING - SI5-90 - Symmetric - 6mm	6	90	350
			SI6A120M150	INTRASTROMAL CORNEAL RING KERARING - SI5-120 - Symmetric - 6mm	6	120	150
			SI6A120M200	INTRASTROMAL CORNEAL RING KERARING - SI5-120 - Symmetric - 6mm	6	120	200
			SI6A120M250	INTRASTROMAL CORNEAL RING KERARING - SI5-120 - Symmetric - 6mm	6	120	250
			SI6A120M300	INTRASTROMAL CORNEAL RING KERARING - SI5-120 - Symmetric - 6mm	6	120	300
			SI6A120M350	INTRASTROMAL CORNEAL RING KERARING - SI5-120 - Symmetric - 6mm	6	120	350
			SI6A150M150	INTRASTROMAL CORNEAL RING KERARING - SI5-150 - Symmetric - 6mm	6	150	150
			SI6A150M200	INTRASTROMAL CORNEAL RING KERARING - SI5-150 - Symmetric - 6mm	6	150	200
SI6A150M250	INTRASTROMAL CORNEAL RING KERARING - SI5-150 - Symmetric - 6mm		6	150	250		
SI6A150M300	INTRASTROMAL CORNEAL RING KERARING - SI5-150 - Symmetric - 6mm		6	150	300		
SI6A150M350	INTRASTROMAL CORNEAL RING KERARING - SI5-150 - Symmetric - 6mm		6	150	350		
SI6A210M150	INTRASTROMAL CORNEAL RING KERARING - SI5-210 - Symmetric - 6mm		6	210	150		
SI6A210M200	INTRASTROMAL CORNEAL RING KERARING - SI5-210 - Symmetric - 6mm		6	210	200		
SI6A210M250	INTRASTROMAL CORNEAL RING KERARING - SI5-210 - Symmetric - 6mm		6	210	250		
SI6A210M300	INTRASTROMAL CORNEAL RING KERARING - SI5-210 - Symmetric - 6mm	6	210	300			
SI6A210M350	INTRASTROMAL CORNEAL RING KERARING - SI5-210 - Symmetric - 6mm	6	210	350			
Progressive Thickness (AS)	5 mm	AS5160M15-25C	INTRASTROMAL CORNEAL RING KERARING - AS5-160 - Asymmetric - 5mm	5	160	150-250	
		AS5160M15-25W	INTRASTROMAL CORNEAL RING KERARING - AS5-160 - Asymmetric - 5mm	5	160	150-250	
		AS5160M20-30C	INTRASTROMAL CORNEAL RING KERARING - AS5-160 - Asymmetric - 5mm	5	160	200-300	
		AS5160M20-30W	INTRASTROMAL CORNEAL RING KERARING - AS5-160 - Asymmetric - 5mm	5	160	200-300	
		AS5320M152515	INTRASTROMAL CORNEAL RING KERARING - AS5-320 - Asymmetric - 5mm	5	320	150-250-150	
		AS5320M203020	INTRASTROMAL CORNEAL RING KERARING - AS5-320 - Asymmetric - 5mm	5	320	200-300-200	
		AS5330M15-25	INTRASTROMAL CORNEAL RING KERARING - AS5-330 - Asymmetric - 5mm	5	330	150-250	
	AS5330M20-30	INTRASTROMAL CORNEAL RING KERARING - AS5-330 - Asymmetric - 5mm	5	330	200-300		
	6 mm	AS6160M15-25C	INTRASTROMAL CORNEAL RING KERARING - AS6-160 - Asymmetric - 6mm	6	160	150-250	
		AS6160M15-25W	INTRASTROMAL CORNEAL RING KERARING - AS6-160 - Asymmetric - 6mm	6	160	150-250	
		AS6160M20-30C	INTRASTROMAL CORNEAL RING KERARING - AS6-160 - Asymmetric - 6mm	6	160	200-300	
		AS6160M20-30W	INTRASTROMAL CORNEAL RING KERARING - AS6-160 - Asymmetric - 6mm	6	160	200-300	
		AS6320M152515	INTRASTROMAL CORNEAL RING KERARING - AS6 - 320 - Asymmetric - 6mm	6	320	150-250-150	
		AS6320M203020	INTRASTROMAL CORNEAL RING KERARING - AS6 - 320 - Asymmetric - 6mm	6	320	200-300-200	

Remarks:	Keraring AS with arcs of 160 degrees have increasing thickness according to the direction - W (clockwise) or C (counterclockwise). Example: AS5-160 15-25W - Thickness increases from 150µm to 250µm in clockwise direction.
	Keraring AS with arcs of 330 degrees have increasing thickness from tips to the center. Example: AS5-330 15-25 - Thickness increases from 150µm to 250µm and from the tips to the center of the arc.

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