



Orthokeratology

- Planned corneal molding with RGPs
- Hydraulic Push & Pull dual forces
- Epithelial and superficial stromal redistribution

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Double Reverse Geometry Ortho-K lens

- B.C. Flatter than K. for 3~5 D
- Fitting Curve : 8 ~ 12 D steeper
- Alignment Curve 3 ~ 5 D steeper
- Bulls eye F.S. pattern
- 1~2 Pairs for -5.00 D



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Basic 4-Curve OK Lens

- Optical zone (BC, Base curve) Central Push or Positive force
- Fitting zone (FC, Fitting curve) Connecting OZ & AZ Pull or Negative force Space for tear & tissue redistribution

Alignment zone (AC, Alignment curve)
 Peripheral Push force

Basic 4-Curve OK Lens

- Adhesive force for centration
- Peripheral zone (PC, peripheral curve)
 Form edge lift
 Tear pumping







Optical zone & Base curve

- Determine B.C. by
 - BOZR (D) = K-code (Target power + Over target)
 Vertex Target power
 Available from B.C. table
 - Compensate Over target in front (Lens power)
 - eg. / K-code = 44.0 / Power-code = -3.00
 - B.C.= 44 Vertex (3.00) 1.25 = 39.85D (8.47mm) • Lens power = +1.25

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Optical zone: 5.2 ~ 6.0mm

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E-va	alue &	R ₀ for	KSD	
R ₀ e	e=0.4	e=0.5	(per 0.1 e-value)	
43.00	1.727	1.691	0.036 mm	
43.25	1.740	1.703	0.037 mm	
43.50	1.751	1.713	0.038 mm	
43.75	1.765	1.726	0.039 mm	
44.00	1.776	1.736	0.040 mm	
44.25	1.787	1.747	0.040 mm	
per 0.25D	$0.012 \mathrm{~mm}$	0.011 mm	Tolerable if <0.01	
			GLO	





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Tissue change					
Peripheral	Mid Peripheral	Central Cornea	Mid Peripheral	Peripheral	

	Reformu	late Munner	vn's formula
•	<i>Tung's formu</i> – Epithelial thir	/a: nning = (RD² / 3) * (1/2) = RD ² / 6
	Target power	Munnerlyn's	Tung's
	3 D	4.5 mm	6.3 mm
	4 D	3.9 mm	5.5 mm
	6 D	3.2 mm	4.5 mm
	8 D	2.7 mm	3.9 mm
	10 D	2.4 mm	3.5 mm
	12 D	2.2 mm	3.2 mm























































Central Island

Cause:

- Alignment curve too tight
 Excessive uncorrected astigmatism resulting in unequal forces on the cornea
- Solution:
- Decrease sagittal depth of lens by flattening alignment curve
- move up the column
- Decentered lens must be centered
- Flatten the BC if caused by uncorrected astigmatism - move one column right.

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