Systematic Approach to Filting

Recommendations

The use of diagnostic lenses is the only way to properly assess the correct fit and final lens power. Topical corneal anesthetic is recommended for new fils to reduce tearing for more accurate filting assessment. Toric peripheral curves and Asymmetric Corneal Technology (ACT) are available on all lens designs.

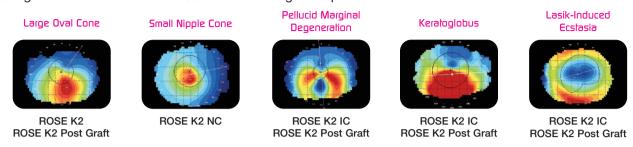
	ROSE K2	ROSE K2 NC	ROSE K2 IC	ROSE K2 POST GR
INDICATIONS	Oval Keratoconus, Nipple Keratoconus	Nipple Cone only	Pellucid Marginal Degeneration, Keratoglobus, LASIK-induced Ectasia and Post Graft	For patients who hav undergone penetration keratoplasty
INITIAL BASE CURVE SELECTION	 For K readings 7.10 mm and flatter, select first trial lens 0.20 mm steeper than the mean K reading. For K readings from 6.00 to 7.00 mm, select the first trial lens equal to the mean K reading. For K readings 5.90 mm and steeper, select the first trial lens 0.40 mm flatter than the mean K reading (less predictable). NB: This is only a guide as the keratometer only measures the central 3 mm along the line of sight. 	 For mild to moderate cases (where mean K reading is flatter than 6.00 mm), select a first trial lens 0.20mm steeper than mean K. For advanced cases (where mean K measures between 5.10- 6.00 mm), select a first trial lens equivalent to the mean K reading. For severe cases (where the mean K reading is steeper than 5.00 mm), select a first trial lens 0.30 mm flatter than the mean K reading. If using a corneal topogra- pher, select the first trial lens based on the 3.00 mm sim K's. 	PMD AND GLOBUS. Select the first trial lens 0.30 mm flatter than steepest corneal meridian. POST LASIK AND GRAFT, refer to ROSE K Post Graft section.	Select the first trial lens 0.30mm steeper than average K reading.
CENTRAL FIT	Ignore peripheral fit at this stage. A Evaluate central fit immediately after blink when lens is centered. B A light, feather touch at the apex of the cone is desired. (See fluorescein images section).	Ignore peripheral fit at this stage. A Evaluate central fit immediately after blink when lens is centred. B Look for similar or slightly greater central touch than with the conventional ROSE K2 design. (See fluorescein images section).	Ignore peripheral fit at this stage. A Evaluate central fit immediately after blink when lens is centered. B FOR PMD AND GLOBUS, a light feather touch is desired. FOR POST LASIK, look for central pooling of 0.20 mm to 0.30 mm. FOR POST GRAFT, refer to ROSE K2 Post Graft section. (See fluorescein images section).	Ignore peripheral fit at this stage. A Evaluate central fit immediately after blink when lens is centered. B Look for central pooling 0.20 mm to 0.30 mm in early flatter grafts; alignment to 0.10 mm flatter in more ma grafts. (See fluorescein images section
PERIPHERAL FIT	increased (flat) or decreased (stee	eved, assess Edge Lift. Look for an ep) Edge Lift accordingly. For asym onsider toric PCs (TP design). For s	nmetric Edge Lift where the lift is e	xcessive at 12 and 6 o'clock
ASSESS THE DIAMETER	Smaller diameters are required for central cones and larger diameters for decentered cones. A larger diameter is often required for early cones and will also tend to make the lens ride higher. The lens should hang off the top lid and be well clear of the lower limbus.	Small, steep Nipple Cones often require a smaller diameter approximately 8.30 mm on average. As a rule flatter Nipple Cones go larger on diameter, steeper Nipple Cones go smaller on diameter. Look for movement on the the blink of 1.00 to 1.50 mm.	The standard diameter is 11.20 mm. Increasing the diameter will help lens location/centration. Make sure the lens is not impinging onto the upper sclera.	The standard diameter is 10.40 mm. Increasing the diameter will help lens location/centration. Make sure the lens is not impinging onto the upper sclera.
ASSESS POWER LAST	Perform over refraction in well-lit ROSE K2 NC: Allow the trial lens push the plus to blur. It is commo			
RESIDUAL ASTIGMATISM (R.A.)	It is usual to leave low amounts of compensate spherically for it (see when it is, toric lenses (front, bac Please consult the Web site at w	Spherical compensation R.A. R.A0.25 to -0.50, add -0.25 D		

C€0120 - Manufactured by Menicon Europe

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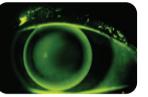
CORNEAL TOPOGRAPHY

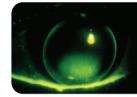
along with the recommended ROSE K2 lens design for optimal fit.



CORNEAL TOPOGRAPHY

ROSE K2

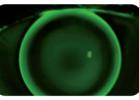




Optimum fit immediately after . blink.

Optimum fit a few seconds after blink. Don't judge fit in this downward location.

ROSE K2 NC





Excessive Edge Lift.

Nipple Cone. Optimum fit.

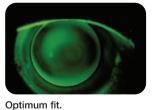
ROSE K2 IC

Edge Lift.



11.20 diameter lens on PMD. Proper central touch, insufficient lift.

ROSE K2 POST GRAFT





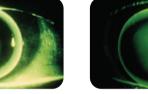
Early graft - good location and central fit, excessive Edge Lift.





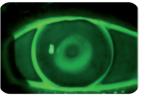
Corneal topography is a very useful and effective tool in determining irregular corneas and different cone shapes and sizes. The images below represent typical cones and irregular corneas encountered in a practice

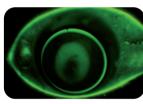




Good fit centrally - loose peripherally.

Steep centrally - good fit peripherally.



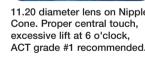


Nipple Cone Tight Edge Lift. Nipple Cone Low location.

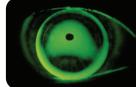




11.20 diameter lens on PMD. Proper central touch, too much Edge Lift.



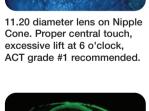
Good central fit, tight periphery.



Early Graft - steep centrally, loose periphery.

Menicon

www.menicon.com







Keraloconus Irregular Cornea Post Graft

PRACTITIONER'S FITTING GUIDE

ROSE K2[™]

ROSE K2 NC™

ROSE K2 IC™ IRREGULAR CORNEA

ROSE K2 Post Graft[™]





Four lens designs to fit all corneal shapes...

One simple systematic approach to fitting

Featuring

Easy-to-fit using a simple systematic approach for all designs.

Simple to use flexible Edge Lift system.

Aberration control aspheric optics providing outstanding acuity, reduced flare and glare and minimum lens mass (ROSE K2, ROSE K2 NC, ROSE K2 IC, ROSE K2 Post Graft).

Advanced fitting options* including:

- Toric peripheral curves
- Asymmetric Corneal Technology or ACT
- Front, back and bi-toric design

Extensive diameter and base curve range.

Fits all corneal shapes, sizes and stages of keratoconus because of the unique design that changes as the base curve steepens.

	ROSE K2	ROSE K2 NC	ROSE K2 IC	ROSE K2 POST GRAFT		
PRIMARY APPLICATION	Oval Keratoconus, Nipple Keratoconus.	Moderate and steep Nipple Cones.	Pellucid Marginal Degeneration, Keratoglobus, LASIK induced Ectasia and Post Graft.	For patients who have undergone penetrating keratoplasty.		
SECONDARY APPLICATION	Early Pellucid Marginal Degeneration.	All Nipple Cones.	Oval Keratoconus.	Oval Keratoconus, Nipple keratoconus and Lasik.		
PARAMETERS AVAILABLE	BASE CURVE 4.30 mm to 8.55 mm DIAMETER 7.90 mm to 10.40 mm POWER +25.00 to -25.00 EDGE LIFT Standard, standard flat, standard steep. More lifts are available - see section on Edge Lift.	BASE CURVE 4.30 mm to 7.70 mm DIAMETER 7.60 mm to 9.00 mm POWER +10.00 to -35.00 EDGE LIFT Standard, standard flat, standard steep. More lifts available - see section on Edge Lift.	BASE CURVE 5.70 mm to 9.30 mm DIAMETER 9.40 mm to 12.0 mm* POWER +25.00 to -25.00 EDGE LIFT Standard, standard flat, standard steep, double flat, double steep. $* \varnothing_T 11.20 \text{ mm}$ $\varnothing_T 12.00 \text{ mm}$	BASE CURVE 5.70 mm to 9.30 mm DIAMETER 9.40 mm to 12.00 mm POWER +25.00 to -25.00 EDGE LIFT Standard, standard flat, standard steep, double flat, double steep. $m, BC \ge 6,00 mm$ $m, BC \ge 6,70 mm$		
advanced Fitting Options	 Toric Peripheral curves (TP) Asymmetric Corneal Technology Toric: back, front and bi-toric surfaces *Note: Advanced fitting options not currently available on ROSE K2 NC design. 					
TRIAL SETS	26 lenses ranging from 5.10 to 7.60 mm in a variable dia- meter from 8.50 to 9.20 mm, with variable power to approxi- mate the final lens power.	25 lenses from 4.60 to 7.40 mm in variable diameter from 8.10 to 8.90 mm with varia- ble power to approximate the final lens power.	19 lenses ranging from 6.50 to 8.60 mm in an 11.20 mm diameter, with variable power to approximate the final lens power.	22 lenses from 6.00 to 9.00 mm in an 10.40 mm diameter, with variable power to approximate the final lens power.		

FLEXIBLE EDGE LIFT SYSTEM

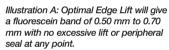
The peripheral fit is the single most important fitting factor for a successful, comfortable GP fit. Rather than standard, increased lift (flat) or decreased lift (steep) can be ordered (see illustrations A, B, C). change in Edge Lift (which alters the sagittal height) does not affect the central fit!

With ROSE K2 lenses, 85% of all lenses dispensed use either the standard edge, standard flat (increased) or standard steep (decreased) Edge Lift to achieve the desired peripheral fit. However, other Edge Lift values can be specified in 0.1 increments ranging from -1.3 decreased (steep) to +3.0 increased (flat) (see illustration D1).

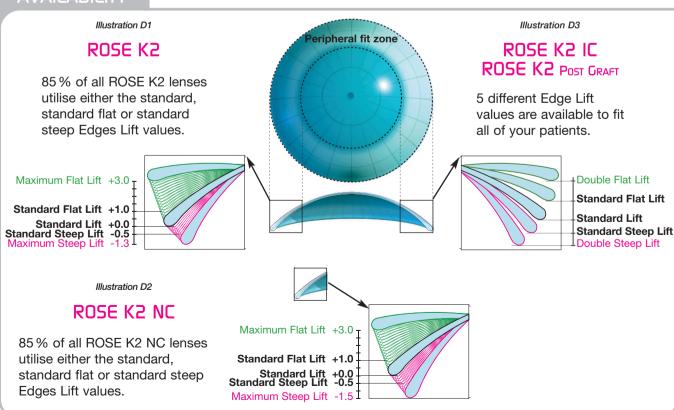
ROSE K2 NC presents a very rapid peripheral flattening with also a high percentage of all lenses dispensed using either the standard edge lift, standard flat (increased) or standard steep (decreased) for optimum peripheral fit. Other Edge Lift values are available in 0.1 increments ranging from -1.5 decreased to 3.0 increased (see illustration D2).

With ROSE K2 IC and ROSE K2 Post Graft lenses, the flexible Edge Lift system is available in 5 different values: standard, standard steep (decreased), standard flat (increased), double steep or double flat (see illustration D3).





AVAILABILITY



2

a complicated series of radii and diameters, all ROSE K2 lenses use a simple value referred to as Edge Lift to determine the optimal peripheral configuration. From the trial lens, an Edge Lift value referred to as The final lens is automatically compensated (base curve and power, no calculations are required), so the

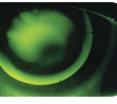




Illustration B: When the fluorescein pattern indicates Edge Lift in excess of 0.50 mm to 0.70 mm, a standard steep Edge Lift value is recor

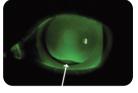
Illustration C: When the fluoresceir pattern indicates an Edge Lift less than 0.50 mm to 0.70 mm, a standard flat Edge Lift value is reco

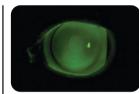
ACT ASYMMETRIC CORNEAL TECHNOLOGY

By nature, the keratoconic cornea is asymmetric, where the inferior quadrant is frequently significantly steeper than the superior portion, causing the GP lens to lift off at 6 o'clock (see illustration E). ROSE K2 lenses incorporating ACT are designed to accommodate this asymmetry (good edge fit at 3, 9 and 12 o'clock but lift at 6 o'clock). The inferior quadrant of the lens is steeper than the superior

quadrants, providing a more accurate fit at 6 o'clock making the lens more comfortable and stable (see illustration F) and often providing superior vision. ACT is independent of the primary base curve and Edge Lift value and is available for ROSE K2, ROSE K2 IC, ROSE K2 Post Graft lens designs.

ACT is quadrant specific and allows the steepening of the inferior quadrant on





F: Incorporating ACT into the

design improves the fit at

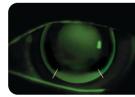
o'clock, making the lens

more comfortable and stable

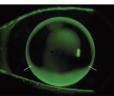
and providing superior vision

E: A spherical ROSE K2 lens (symmetric) fitted on this asymmetric keratoconic con fits well at 3. 9 and 12 o'clock but causes the lower edge to lift off at 6 o'clock.

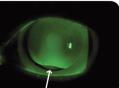
AVAILABILITY



ACT GRADE #1 (0.70 mm) Slight edge stand off with pooling at or around 6 o'clock (between 5 and 7 o'clock). Specify: ACT grade #1



ACT GRADE #2 (1.00 mm) Moderate edge stand off with pooling and possible bubble at of around 6 o'clock (between 4 and 8 o'clock). The tear meniscus may also start to break up on blinking. Specify: ACT grade #2



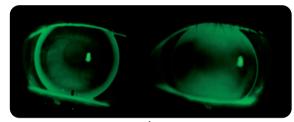
ACT GRADE #3 (1.30 mm) Significant edge stand off or lift off (tear meniscus breaks up at around 6 o'clock. Specify: ACT grade #3

Note: other grades of ACT are available (0.40 mm to 1.50 mm), please call us 6 for further information on +44(0)1604 646216

TORIC PCS

A toric periphery (TP) is where the optical zone is spherical and approximately the last 1 mm of the peripheral curve is toric although this is variable dependent on the overall diameter of the lens. With Keratoconus, the tight areas, usually within 20 degrees of 180° (3 and 9 o'clock), will be eliminated with a TP design (see illustration G). In PMD there is often significant against-the-rule astigmatism making the lens tight at 12 and 6 o'clock and loose at 3 and 9 o'clock. A lens that is tight at 12 o'clock causes discomfort, so a TP design is often useful here.

The TP design is available on ROSE K2, ROSE K2 IC. ROSE K2 Post Graft lenses and will greatly enhance lens fit, stability, comfort, vision and wearing time.



G: With Rose K2 standard peripheral toric

No peripheral toric

AVAILABILITY

Other values are

available between

0.40 mm to 1.30 mm

