Visionary Optics
uniquely specialized contact lenses

K-Max™

full corneal contact lens

Indications

- The K-Max contact lens is intended for fitting regular to mildly irregular corneas.
- Designed to be easy to fit and easy to wear, with very little adaptation time needed.
- Indicated when the benefits of a GP are desired but other rigid lenses cause comfort or centration problems.

Description

The K-MAX is a large diameter, full cornea GP lens. The standard overall lens diameter is 11.5 mm, with smaller and larger diameters available when corneal size dictates. The large size reduces movement so the lens is designed to flex during the blink for tear exchange.

The posterior surface is comprised of a central OPTICAL ZONE surrounded by an aspheric BEARING ZONE and an aspheric EDGE CURVE. The shape of the bearing zone is a function of the radius of the central optical zone.

The anterior surface has a large optical zone corrected for spherical aberration in order to enhance visual acuity. This is surrounded by a flange area designed to minimize awareness of the lens by the lids and to maximize oxygen to the cornea.

Fitting Theory

- The K-MAX is designed so that the lens rests primarily on the para-central bearing zone.
- The ideal appearance is one where there is slight central clearance.

Parameters Available

Base curves	6.85 mm to 8.80 mm
Diameter	10.5, 11.0, 11.5, 12.0, 12.5 mm
BV powers	+50.00 D to –75.00 D in 0.25 D steps
Cylinder (toric)	–0.25 D to –15.00 D in 0.25 D steps
Axis (toric)	1° to 180° in 1° steps
Diagnostic lenses	Basic K-Max set: 14 lenses, 11.5 mm diameter, with 2 each of 7 base curves BCs: 8.4, 8.1, 7.9, 7.7, 7.5, 7.3 and 7.1 mm

Our guarantee: All lenses are manufactured to specification and free from defects.

Diagnostic Lens Fitting Method

- The K-MAX is designed so that the lens rests primarily on the para-central bearing zone.
- The ideal appearance is one where there is slight central clearance.

1. Diameter
   - The 11.5 mm K-Max is appropriate for most patients
   - Lens diameter should be within 0.5 mm of HVID (horizontal visible iris diameter).
   - Larger corneas may do better with the 12.0 or 12.5 K-Max Lens.
   - Smaller corneas may do better with the 11.0 or 10.5 K-Max Lens.

2. Base curve
   - Select the Base Curve which is close to the AVERAGE corneal radius.
   - Select a FLATTER lens if there is excessive vault, as evidenced by a central bubble.
   - Select a STEEPER lens if there is excessive edge lift or central bearing

3. Power
   - Perform a refraction over the K-Max of the final Base Curve and add this to the lens power.
   - For slightly astigmatic over-refraction, use the spherical equivalent.

4. Color
   - The lens colors may be varied to easily avoid switching the right and left lenses.

5. Note
   - If the lens is significantly de-centered, the design may be adjusted.

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Materials

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Please contact our consultants for design assistance at 877.533.1509.

We can adjust the parameters of the lens to accommodate most situations.

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