



LensWise

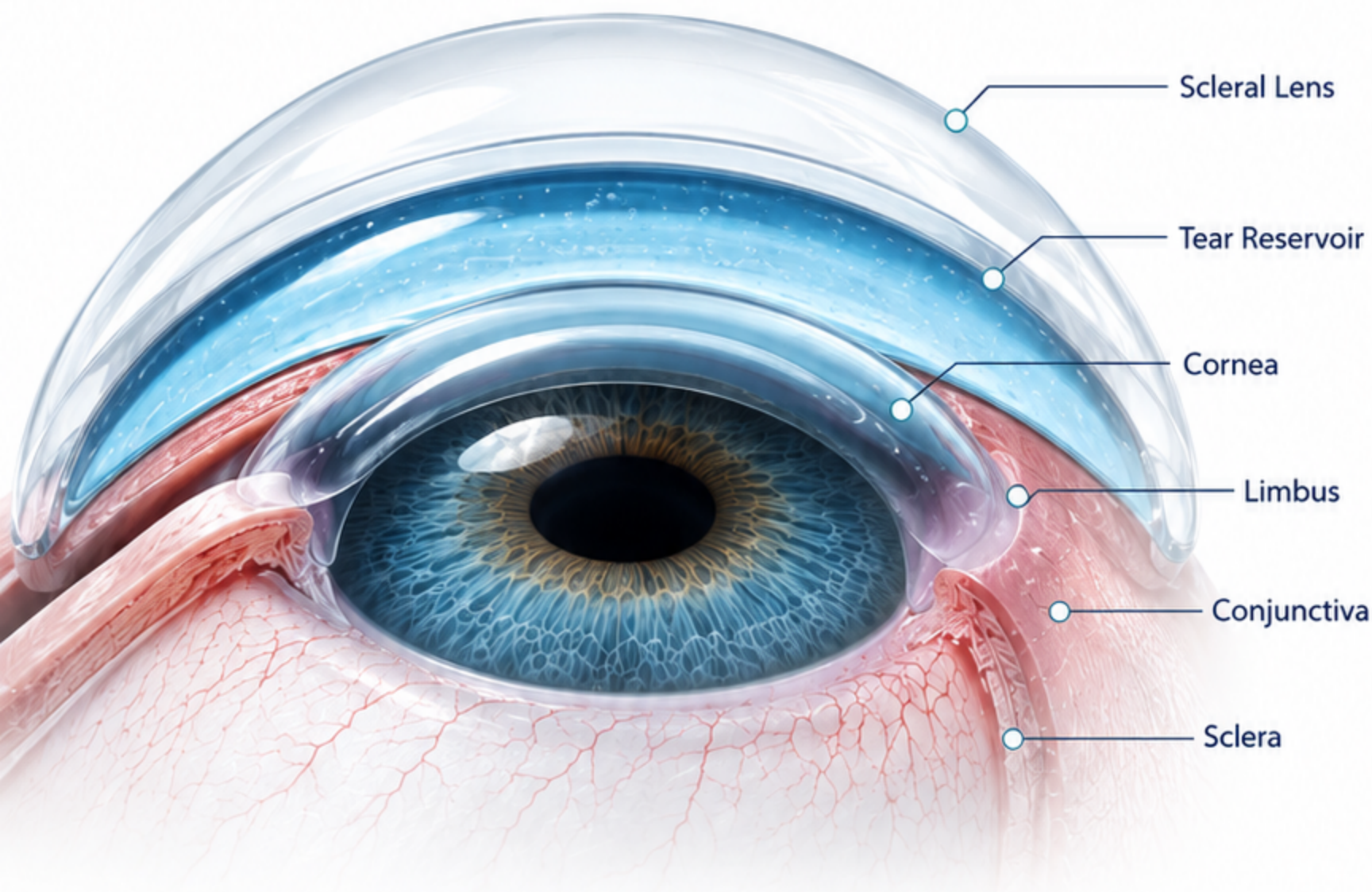
SPECIALITY CONTACT LENS CARE

FITTING • PRECISION • VISION

SCLERAL CONTACT LENS

CLINICAL GUIDE

A Practical Reference for Eye Care Practitioners



*Restoring Vision Beyond
Conventional Contact Lenses*



PREPARED BY

LensWise

SPECIALITY CONTACT LENS CARE



EVIDENCE-BASED



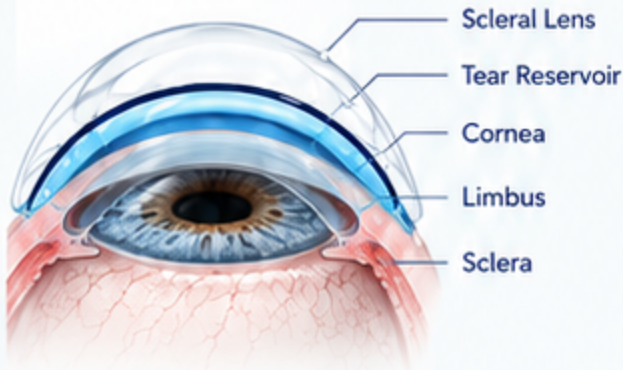
PATIENT-CENTERED



SPECIALITY CONTACT
LENS CARE

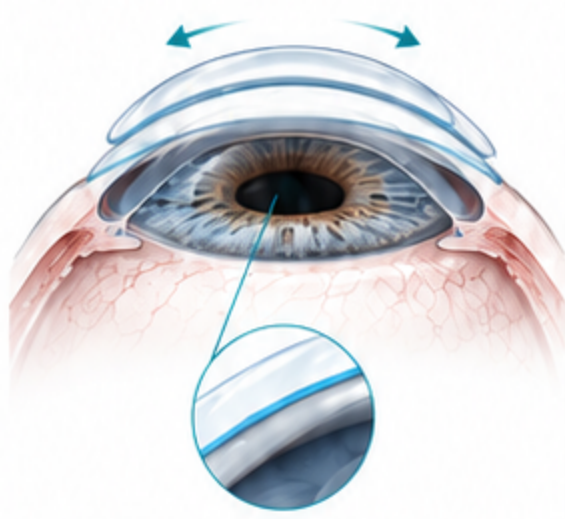
Why Choose SCLERAL LENSES?

A MODERN SOLUTION FOR COMPLEX CORNEAS



A scleral contact lens is a large-diameter rigid gas permeable lens that **completely vaults the cornea and limbus** while resting on the sclera, creating a **fluid-filled tear reservoir** between the lens and the cornea.

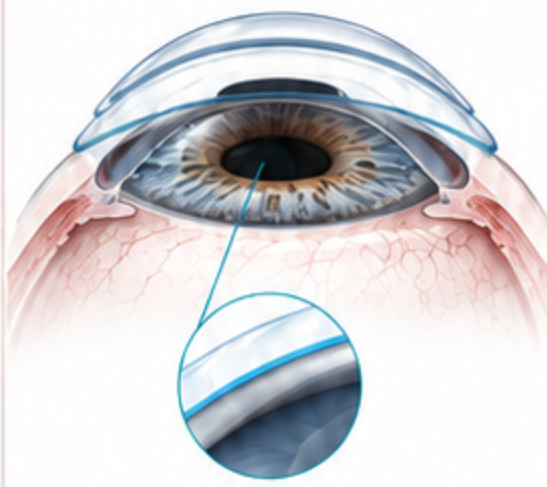
SOFT CONTACT LENS



• Corneal Contact •

Lens rests directly on the cornea and moves with each blink.

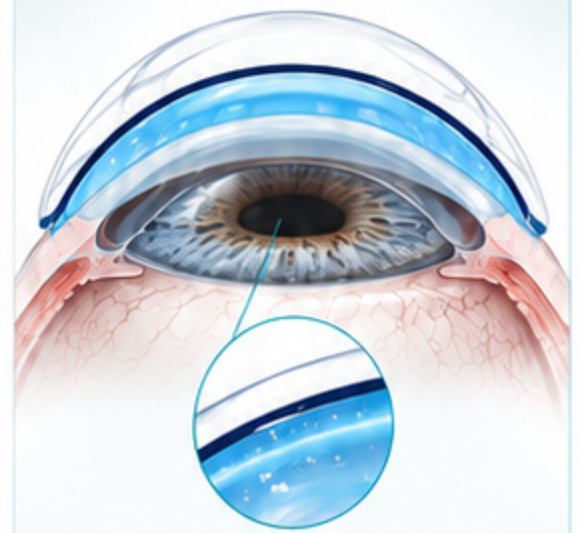
CORNEAL RGP LENS



• Corneal Bearing •

Smaller rigid lens that touches the corneal apex.
Minimal tear layer (< 10 µm).

SCLERAL LENS



• Complete Corneal Vault •

Large diameter lens vaults the cornea and limbus, resting on the sclera with a fluid reservoir (150–300 µm).

KEY ADVANTAGES



Complete
Corneal
Vaulting



Continuous
Tear
Reservoir



Exceptional
Comfort



Stable
Vision



Superior
Optical
Quality



Supports
Ocular Surface
Healing

IDEAL CLINICAL APPLICATIONS



Keratoconus



Corneal Scar



Pellucid Marginal
Degeneration



Post-LASIK
Ectasia



Severe Dry Eye



Ocular Surface
Disease



Post-Keratoplasty



Neurotrophic
Keratopathy

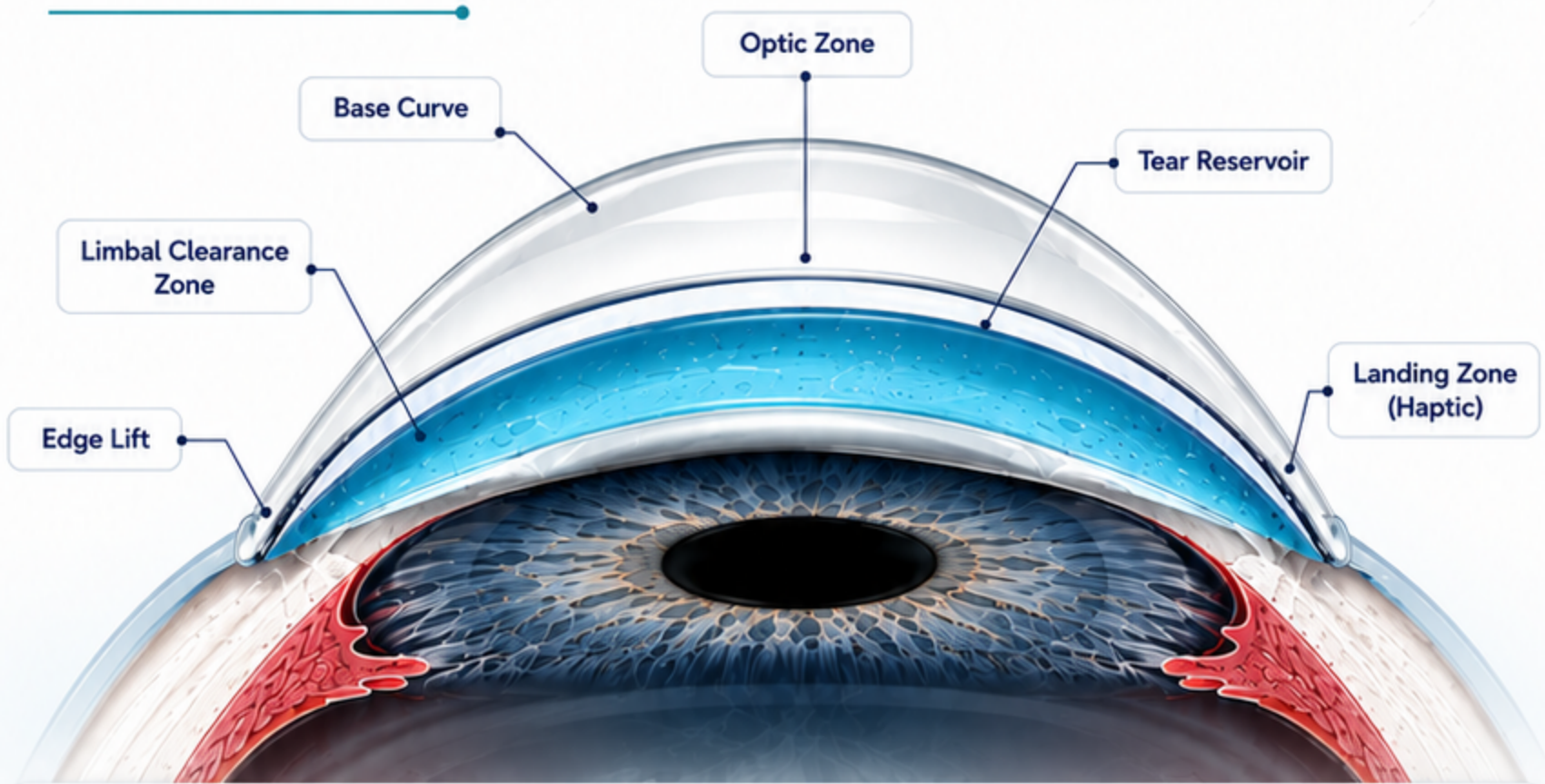


CLINICAL PEARL

“ When conventional contact lenses fail to provide comfort or visual rehabilitation, scleral lenses often become the treatment of choice. ”

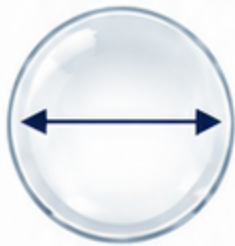
Understanding Scleral Lens Design

The Anatomy Behind Superior Vision and Ocular Surface Protection



KEY MEASUREMENTS

Overall Diameter (OAD)



Overall lens diameter measured from edge to edge.

Sagittal Height



Distance from the center of the back surface of the lens optic zone to the front surface of the cornea.

Central Clearance



Distance between posterior lens surface and central cornea.

LENS GEOMETRY



Optic Zone

Provides refractive correction and high-quality optics.



Limbal Clearance Zone

Maintains adequate clearance over limbal stem cells.



Landing Zone (Haptic)

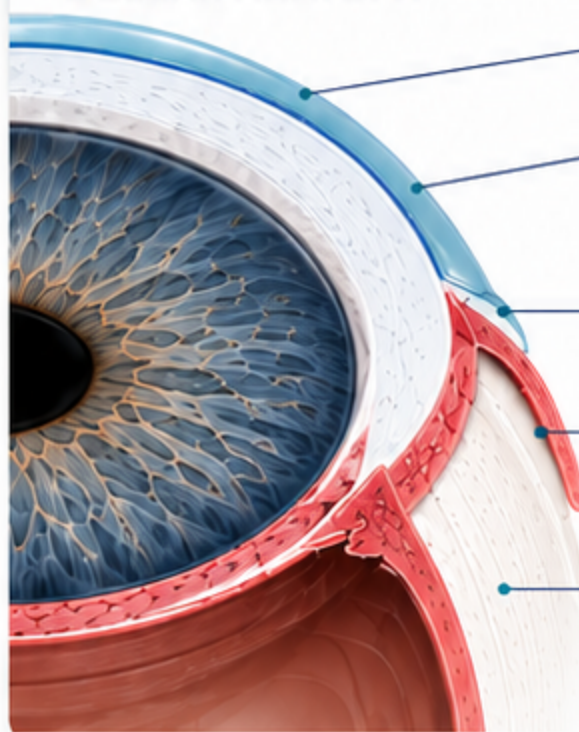
Distributes pressure evenly across the sclera.



Edge Lift

Allows minimal lift of the lens edge to avoid conjunctival impingement and promote tear exchange.

OCULAR ANATOMY



Tear Film

Thin pre-corneal tear layer.

Cornea

Transparent, avascular tissue providing the eye's principal refractive power.

Limbus

Anatomic junction between cornea and sclera.

Conjunctiva

Mucous membrane covering the sclera and inner eyelids.

Sclera

Opaque, fibrous outer layer that provides structural support to the eye.



CLINICAL INSIGHT

Unlike corneal contact lenses, scleral lenses completely vault the cornea and limbus while distributing bearing over the sclera. This unique design minimizes corneal interaction and creates a stable fluid reservoir for optical rehabilitation and ocular surface support.



PROTECTS
THE OCULAR SURFACE



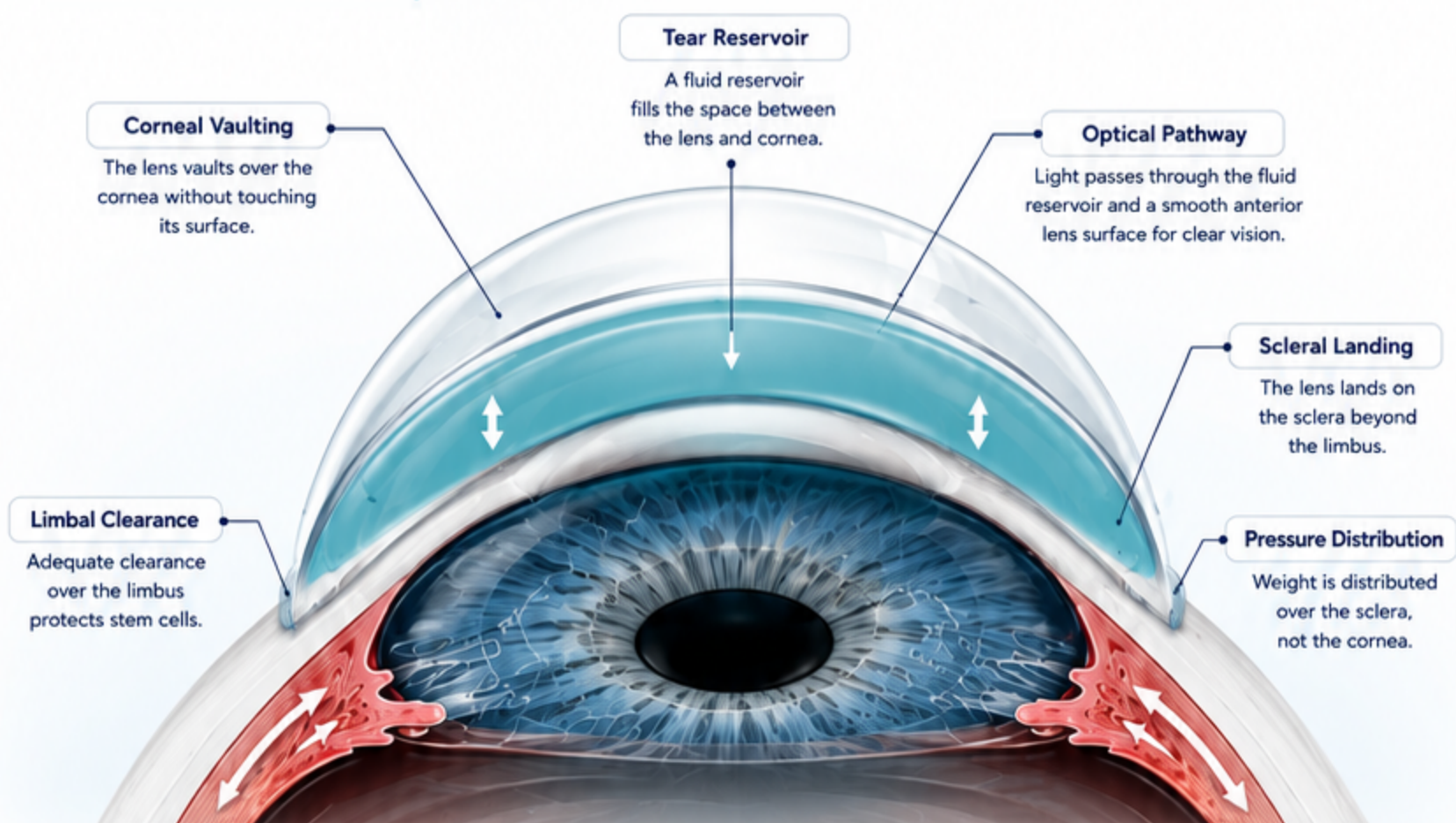
ENHANCES
VISUAL QUALITY



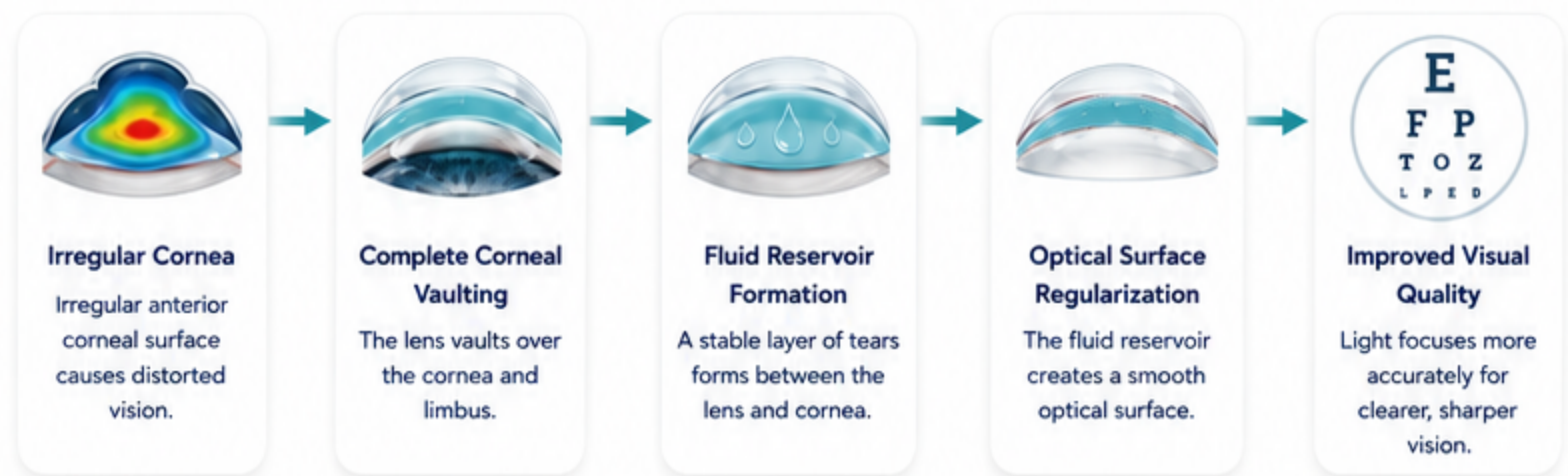
SUPPORTS LONG-TERM
OCULAR HEALTH

How a Scleral Lens Works

Optical Rehabilitation Through Corneal Vaulting
and a Fluid Reservoir



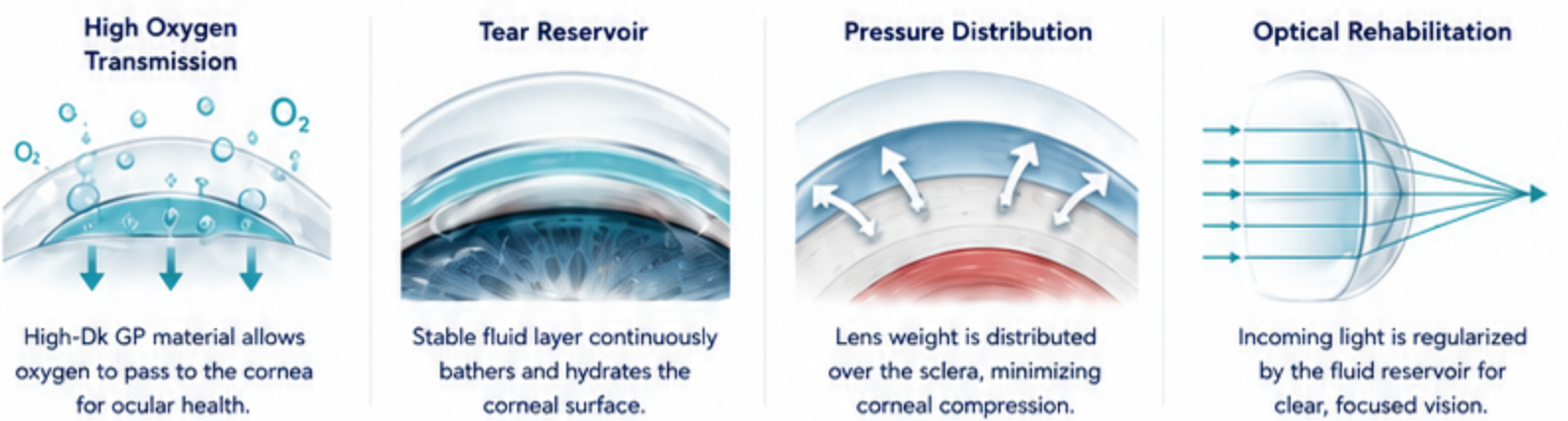
MECHANISM OF ACTION



CLINICAL BENEFITS



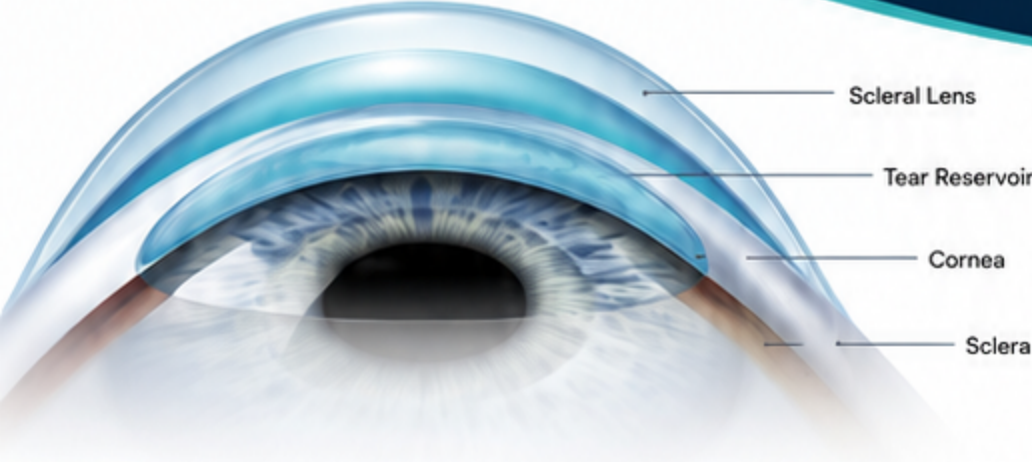
PHYSIOLOGICAL ADVANTAGES



CLINICAL PEARL

The fluid reservoir between the scleral lens and the cornea functions as a liquid optical surface, masking corneal irregularities while simultaneously protecting the ocular surface and enhancing patient comfort.





“The world’s thinnest scleral lens designed to provide **twice the oxygen permeability** compared to any available lens in India and around, ensuring superior ocular health and comfort.

KEY FEATURES



ULTRA THIN DESIGN
200 µm central thickness for enhanced oxygen transmission.



HIGH OXYGEN PERFORMANCE
Twice the oxygen permeability compared with conventional scleral lenses.



11-POINT CUSTOMISATION
Precision customisation at 11 different points to address complex corneal geometries.



PREMIUM MATERIALS
• Contamac (UK)
• Boston (USA)



PLASMA TREATMENT
Enhanced surface wettability for improved comfort and lens performance.



CE / ISO APPROVED
Manufactured using internationally certified materials and processes.

TECHNICAL SPECIFICATIONS

	Diameter (mm)	14.50 mm to 16.40 mm
	Central Thickness	200 µm
	Sag Range (µm) - Prolate	3600 to 6600
	Central Zone (7.5 mm) - Oblate	70 – 230 µm
	Mid-Periphery Zone (9.5 mm)	Sph. + 300 µm
	Limbus Zone (12 mm)	8 Quadrant + 300 µm
	Haptic Zone	8 Quadrant + 300 µm
	Triangle Mark	Quadrant Mdf. at 6 O’ Clock (of the Eye)
	Spherical Power	+40.00 D sph
	Cylindrical Power	-6.00 D cyl
	Design Options	See below
	Laser Marking	At Mid Periphery Zone and Limbal Zone
	Toric Haptic - Axis Marking	To assess lens orientation and stabilisation
	Plasma Treatment	Available
	Certification	CE / ISO Approved
	Material	Contamac (UK) / Boston (USA)

DESIGN OPTIONS



Spherical



Oblate



Multifocal



Multifocal Oblate



Anterior Toric



By Quadrants

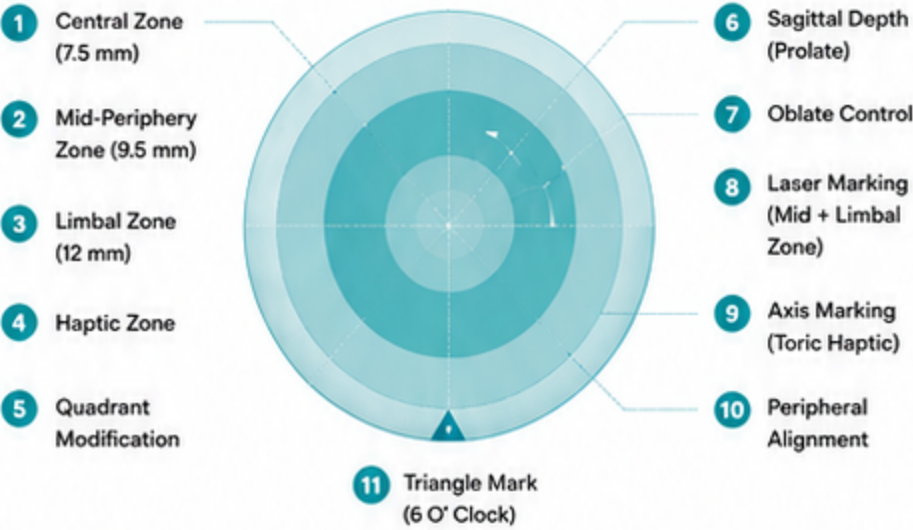


Toric on the Periphery



Controlled Peripheral Recess (Notch)

CUSTOMISATION AT 11 POINTS



WHY CHOOSE OUR CUSTOM SCLERAL LENS?



SUPERIOR OXYGENATION
Ultra thin profile ensures maximum oxygen delivery to the cornea.



EXCEPTIONAL COMFORT
Precise vault and edge alignment for all-day wearing comfort.



ENHANCED STABILITY
Custom haptic design ensures excellent lens stability and centration.



OPTIMAL VISUAL OUTCOMES
Tailored optics for improved vision in complex corneal conditions.

“With **years** of clinical trials and real-world success, we specialize in advanced **scleral lens** technology, ensuring optimal vision correction and superior wearing comfort.

Clinical Indications & Referral Guide

Identify the Right Patients for Scleral Lens Rehabilitation

COMMON CLINICAL INDICATIONS



Keratoconus

Progressive corneal ectasia requiring optical rehabilitation.



Pellucid Marginal Degeneration

Irregular corneal shape causing high irregular astigmatism.



Corneal Scarring

Visual impairment due to corneal opacity or surface irregularity.



Post-LASIK Ectasia

Irregular corneal biomechanics following refractive surgery.



Severe Dry Eye Disease

Persistent ocular surface symptoms requiring continuous hydration.



Ocular Surface Disease

Protection of compromised corneal tissue.



Post-Keratoplasty

Visual rehabilitation following corneal transplantation.



Neurotrophic Keratopathy

Promotes ocular surface healing while protecting the cornea.

CONTRAINDICATIONS

⚠ Active ocular infection

⚠ Poor hand hygiene

⚠ Severe untreated blepharitis

⚠ Inability to handle lenses

⚠ Poor compliance with follow-up



IDEAL CANDIDATES

✓ Irregular corneas

✓ Poor spectacle vision

✓ Contact lens intolerance

✓ Ocular surface disease

✓ Motivated patients

✓ Good follow-up compliance



WHEN SHOULD YOU REFER?



Refer to LensWise for Comprehensive Scleral Lens Evaluation



LENS CARE ESSENTIALS



Wash Hands

Always wash and dry hands before handling lenses.



Clean Daily

Clean lenses daily with recommended lens cleaner.



Fill with Preservative-Free Saline

Always fill the bowl with preservative-free saline.



Disinfect Overnight

Disinfect lenses overnight using approved solution.



Replace Lens Case Regularly

Replace lens case every 1-3 months.



CLINICAL PEARL

Successful scleral lens outcomes depend on appropriate patient selection, meticulous fitting, and regular follow-up. Early referral can significantly improve visual rehabilitation and quality of life in patients with complex corneal conditions.



Thank You

Thank you for exploring the LensWise
Scleral Contact Lens Clinical Guide.

• SPECIALTY CONTACT LENS SERVICES



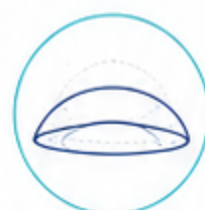
SCLERAL CONTACT LENSES

Advanced visual rehabilitation
for irregular corneas and
ocular surface disease.



RIGID GAS PERMEABLE (RGP) LENSES

Precision optics for
complex refractive
conditions.



HYBRID CONTACT LENSES

Rigid optics with
soft-lens comfort.



ORTHOKERATOLOGY (ORTHO-K)

Overnight corneal
reshaping for myopia
management.



KERATOCONUS MANAGEMENT

Comprehensive specialty
lens rehabilitation for
ectatic corneas.

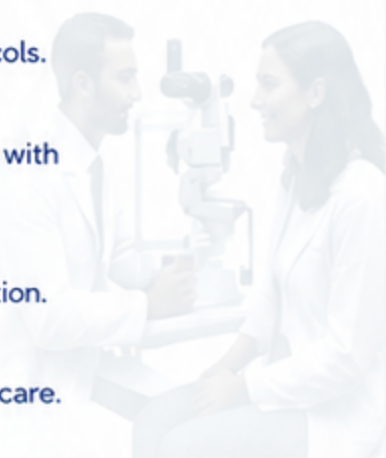


MYOPIA MANAGEMENT

Evidence-based strategies
for slowing childhood
myopia progression.

• WHY REFER TO LENSWISE?

- ✓ Expertise in specialty contact lens fitting.
- ✓ Personalized fitting strategies for complex eyes.
- ✓ Evidence-based clinical protocols.
- ✓ Collaborative co-management with referring practitioners.
- ✓ Comprehensive patient education.
- ✓ Long-term follow-up and aftercare.



• CONTACT US



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Instagram
Lens.Wise



REFERRAL PARTNERSHIP

LensWise works collaboratively with ophthalmologists,
optometrists, and eye care professionals to provide
advanced specialty contact lens solutions for patients with
complex corneal and ocular surface conditions.



SMART SOLUTIONS FOR COMPLEX EYES

EVIDENCE-BASED • PATIENT-CENTERED • SPECIALTY CONTACT LENS CARE