

MYOPIA MANAGEMENT

Singular solutions in ortho-K and daytime wear
DRL® RANGE - AMYOPIC RANGE



MYOPIA: A PUBLIC HEALTH ISSUE

- 5 billion people will be affected worldwide in 2050 compared to 2.5 billion today
- 10% of the population will be highly myopic (beyond -6.00 D) compared to 5% today (Sources Brien Holden Institute)

The evolution of myopia is correlated to the increase of the axial length of the eye. The higher the myopia, the greater the risk of ocular pathologies.

	Cataract	Glaucoma	Retinal detachment	Macular degeneration
-1.00 to -3.00 D	2 x	4 x	3 x	2 x
-3.00 to -6.00 D	3 x	4 x	9 x	10 x
> -6.00 D	5 x	14 x	22 x	41 x

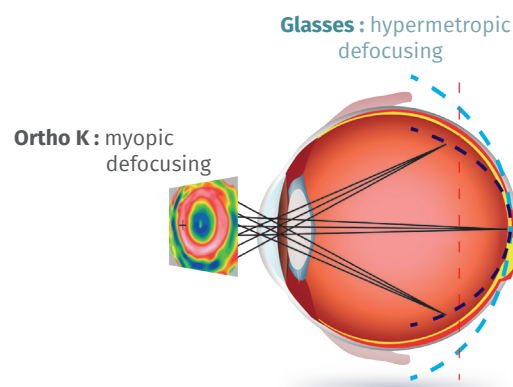
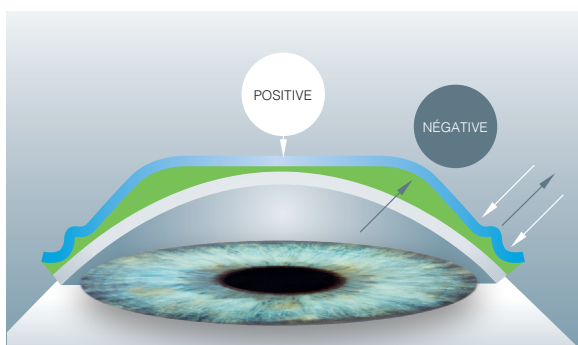
Pathological risks of myopia

ORTHO-K DRL RANGE

The 1st line solution for optimal myopia management

■ A UNIQUE PATENT DESIGN FOR A PERSONALISED TREATMENT

- **1st tear reservoir (red ring on the topographies)**
 - Generates a positive power related to the value of myopia, causing myopic defocusing (retinal image in front of the retina), allowing to control the evolution of myopia
- **Optical zone adapted according to myopia**
 - Addition zone closer to the centre of the pupillary area
- **Double reservoir**
 - Better centring and increased treatment efficiency



Peripheral retinal image according to the optical equipment

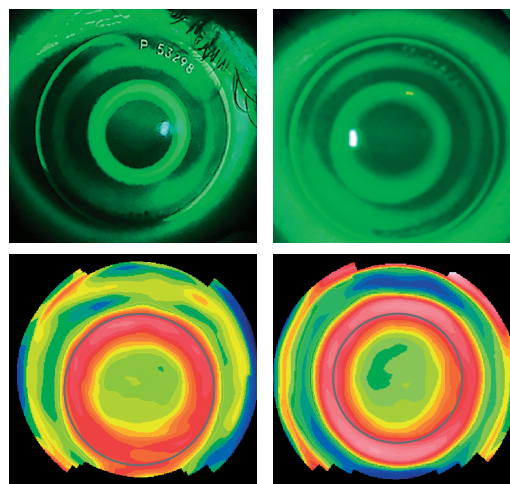
■ TWO SINGLE DESIGNS TAKING INTO ACCOUNT THE LEVEL OF MYOPIA

■ DRL PREVENTION dedicated to low myopia (children up to 16 years)

Myopia Active Care (MAC):

Unique low myopia management system that increases the myopic defocus required for myopias ≤ 4.00 D*

- **Specific 1st reservoir design for increased clearance**
 - Increases the positive power generated
 - Enhances the braking effect
- **Optimised customised optical zone (< 5 mm)**
 - Entire defocus zone in the pupillary area
 - Increased peripheral positive power



PREVENTION -2.00
Defocusing zone
in the pupil area

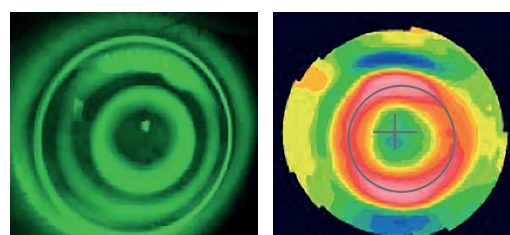
DRL Myopia Control -2.00
Zone of defocus
close to the pupil area

Clinical studies demonstrate
up to 85% reduction of the
axial length.



■ DRL Myopia Control dedicated to myopias up to -7.00 D* (children and young people)

- **1st tear reservoir adjusted to the correction**
 - Positive power generated by myopia creates sufficient defocus
- **Customised optical zone (5 mm)**
 - Defocus zone close to the pupil area



DRL Myopia Control

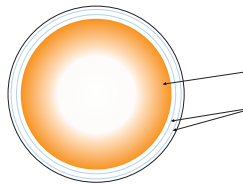
*Astigmatism up to -4.00 D

AMYOPIC RANGE FOR DAYTIME WEAR

The solution when night-time wear is not suitable

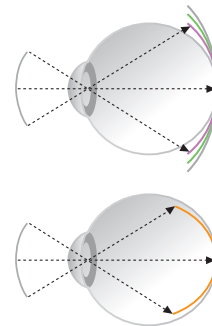
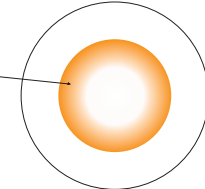
■ A UNIQUE ADJUSTABLE POWER GRADIENT CONCEPT

PRE AMYOPIC
RGP lens



Power Gradient
2 micro tanks

AMYOPIC Silicone
Quarterly soft lens



HYPEROPIC retinal peripheral defocusing :

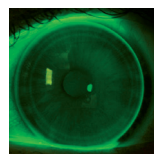
- In classical rigid lenses
- In classical soft lenses
- In glasses

MYOPIC retinal peripheral defocusing with **AMYOPIC Range** ⁽¹⁾⁽²⁾

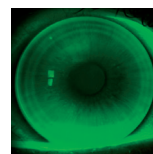
- Power gradient re-evaluated according to the age of the wearer to guarantee the best compromise between myopia control and visual comfort

	PRE AMYOPIC	PRE AMYOPIC toric
Material	First intention Boston XO2 with UV filter (DK 141) or Optimum 125 with UV filter (DK 125) / other on request	
Handling tint	RE Violet / LE Blue	
Geometry	Bi-aspheric with 2 micro reservoirs	
r_o	7.20 to 8.60 per 0.05	
Excentricities	Periphery can be changed in steps of 0.10	
ϕ_T	9.00 to 11.10 per 0.30	
Spheres	Plan to -20.00	
Cylinders	TI: -1.50 to -8.00 per 0.25 TE: -0.75 to -4.00 per 0.25	
Fitting	$\phi_T = 10.20$ Toricity < 30/100 $r_o = K$ ϕZ_o constant: no change in r_o if change in ϕ_T Toricity $\geq 30/100$ TI calculated by the laboratory	

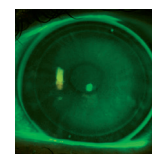
- Hyper DK for a safe wear
- Changeable periphery



ALIGNED



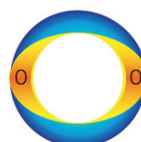
FLAT 10/100



TIGHT 10/100

	AMYOPIC Silicone	AMYOPIC Silicone toric
Material	Definitive SiHy 74%	
Geometry	Anterior profile Aspherical profile Bi curve	Aspherical anterior profile (and DNS) Toric back profile Engraving : 0° and 180°
r_o	7.50 to 9.60 per 0.30 mm	
ϕ_T	13.80 / 14.30 / 14.80	
Spheres	-0,25 to -15,00 per 0,25D	
Cylinders	-0,75 to -6,00 per 0.25D	
Axis	0 to 180° per 5°	
Fitting	$r_o = Km + 0.70 \phi_T = HVID + 3.00$ mm $F'v =$ Glasses refraction taking into account the vertex distance	
Optimisation	- Acuity: add -0.25 D in trial glasses and/or reduce the power gradient - Centring: increase the ϕ_T and/or tighten the r_o	

- Comfort Edge Plus (CEP) and Nano Design
- Dynamic Nanotechnology Stabilization (DNS) for immediate stabilization regardless of cylinder value



1) Efficacy of a gas permeable contact lens to induce peripheral myopic defocus, Optometry and Vision Science, Vol 92, May 2015, Jaume PAUNÉ, Antonio QUEIROS, Daniela LOPES-FERRERA, Miguel FARRIA-RIBEIRO, Lluís QUEVEDO, Jose Manuel GONZALES-MEIJOME
2) Myopia Control with a Novel Peripheral Gradient Soft Lens and Orthokeratology: A 2-Year Clinical Trial, BioMed Research International Volume 2015, Jaume Pauné, Harí Morales, Jesús Armengol, Lluís Quevedo, Miguel Faria-Ribeiro, and José M. González-Mejome.

MYOPIA MANAGEMENT

in ortho-K and daytime wear

DRL® range in ortho-K

First intention for optimal myopia control

- **Renewal:** annually to ensure safety and effectiveness of the treatment
- **Lens care:**
The recommended solutions care are:
 - Peroxide solution for decontamination
 - Preservative-free comfort drops for insertion and removal
 - Subtilisin deproteinization tablets for weekly deproteinization

These solutions care are the only ones suitable for ortho-K Precilens lenses. Use of other system may cause complications.



Handling and lens care videos:

www.lentilledenuit.com | www.precilens.com

AMYOPIC range in daytime wear

When night-time wear is not suitable

- **Renewal:** annually to ensure safety and effectiveness of the treatment
- **Lens care:**
The recommended solutions care are:
 - Peroxide solution for decontamination
 - Subtilisin deproteinization tablets for weekly deproteinization



Flash the QR code below to discover them



Renewal and lens care

Order

CLICK & FIT software

or : technique@precilens.com

Essential data :

- Refraction under cycloplegic
- Export of topographies
- HVID measured with a ruler

Please refer to the technical data sheets which can be downloaded from the professional area of the website www.precilens.com



ORDER

commande@precilens.com

Essential data :

- Maxi-convex distance vision refraction
- Keratometry
- HVID measured with a ruler

Technical Support:

Ph. +33 (0)1 45 13 18 45 - E-mail: technique@precilens.com