Everyday Progressives

CROSSBOWS optical

Custom Delux

BUILT IN SMOOTH OPTICS TECHNOLOGY

- Combines all of Crossbows premium technologies
- Unique technology minimizing swim effect
- Excellent binocular balance

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crossbowsoptical.com

Custom Delux

SO EV EP CF

Custom Delux seamlessly integrates all of Crossbows leading technologies to create the best possible experience for every patient.

Delux, our premium design for the discerning wearer, was created using our “Smooth Optics” design system. This radical approach reverses the normal design process and has allowed Delux to be designed from the outset with a very smooth mean power profile, thus minimizing swim effects and providing excellent patient comfort and rapid adaptation. The design also sports excellent binocular balance.

Power Range	Not limited by CrossbowsRx
Corridor	Delux - 12, 13, 14, 15, 16, 17, 18, 19, 20mm Mini - 10, 11mm
Additions	+0.75D to +3.50D in steps of 0.25D
Index	All indices are available

Fields of Vision

Ideal For

Experienced progressive wearers looking for the best quality design. Sports wrap and fashion frame wearers.

Additional Features

- MaxView
- Automatic Corridor
- Variable Decentration
- Variable Inset
- OptiEdge
- OptiPrism

Performance

Built In Technologies

SO SMOOTH OPTICS

CF CUSTOMFORM

EV EyeView

EP EyePower

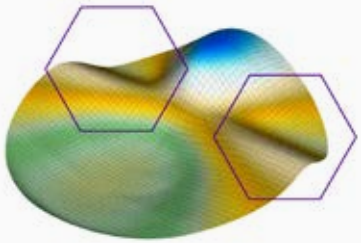
Custom Delux SO EV EP CF

SO SMOOTH OPTICS

The process for creating Smooth Optics designs starts by defining the lens surface in terms of its optical properties. This unique approach reverses the normal design process, so rather than create a surface and analyse to determine its optical performance, the starting point is describing the Mean Power required by the eye at all points of the lens and then deriving the surface to match this ideal.

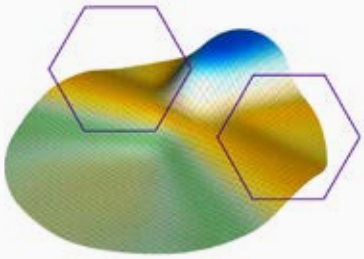
The Mean Power profile is more even and smooth, not only in the principal viewing zones, but also the peripheral areas.

Without Smooth Optics



Regions of uneven mean power variation

With Smooth Optics



Much smoother power variation

Key Features

- Enhanced patient comfort
- Sharp viewing in all directions
- Minimizes blurring experienced with traditional progressives
- Faster patient adaptation times and greater patient satisfaction

EV EyeView

Ophthalmic lenses have power errors when viewing away from the optical centre of the lens.

EyeView technology uses specially developed software which modifies the entire lens to correct power errors. Each lens is customized to the prescription.

EP EyePower

EyePower is an extension of the EyeView principles, where the unique and comprehensive raytracing analysis considers the patient's parameters and individual's choice of frame (back vertex distance, pantoscopic tilt and face wrap) to compensate the prescription.

CF CUSTOMFORM

CustomFORM is a cohesive approach to lens design, which considers a progressive lens as a single entity rather than an accumulation of individual points. It utilizes geometric building blocks (continuous splines and ellipses instead of separate points) at the time of creation to define the whole lens surface rather than simply minimizing distortion in primary parts of the lens.

Binocular Balance

A progressive lens is not symmetrical in design: there is an inset that matches our eyes' convergence when reading. This asymmetry means that the optical performance either side of the central corridor and reading zone may differ. With Binocular Balance the inevitable distortion of the peripheral regions has been remodelled so that the temporal and nasal sides of the lens are closer matched than before.