

Newly Patented Free-Form Technology

SEIKO SURMOUNT™

The Thinnest Progressive Addition Lenses

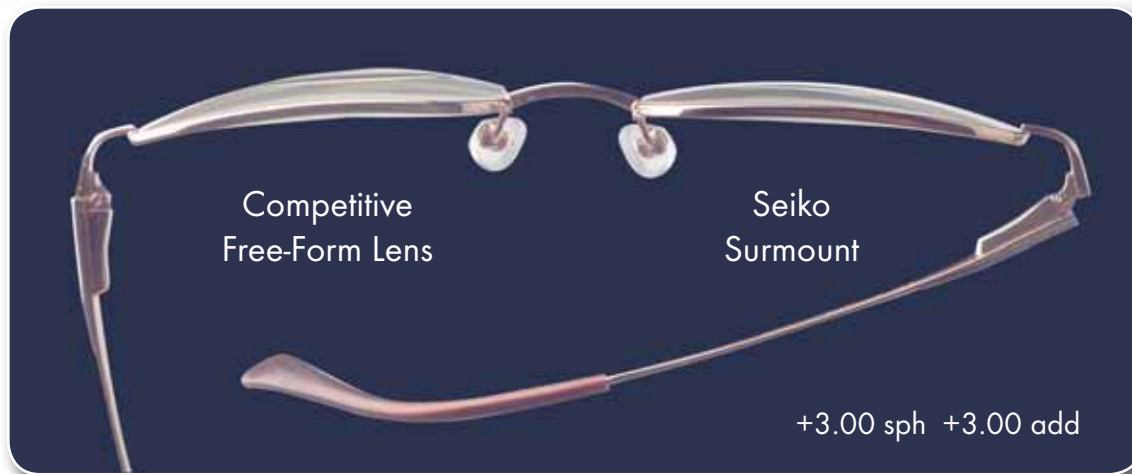
For more information contact Luzerne Optical Laboratories LTD
at 800-233-9637 or on the web at www.LuzerneOptical.com

Competitive
Free-Form Lens



Seiko
Surmount



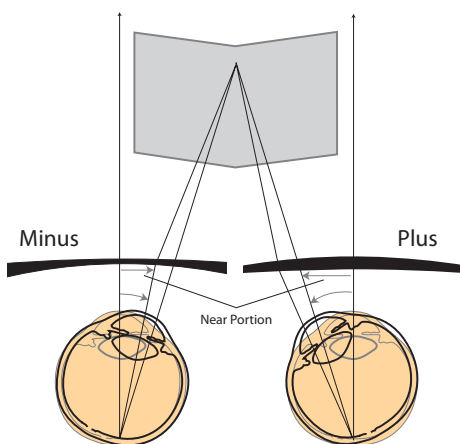


Newly Patented Free-Form Technology Surmounts All Others in Thinness & Design

- Newly patented technology (No. 7,341,344) advancement for internal free-form design
- Ideal for prescriptions with high spheres, cylinder and add powers

Convex Add-Power Curve Technology

Surmount's newly patented technology is able to process complex convex curves onto the concave back surface of the lens blank. This technique, combined with advanced prism thinning calculations creates lenses that are up to 25% flatter in plus prescriptions. The result is a noticeable difference in lens bulge when compared to all other competitive progressive designs.



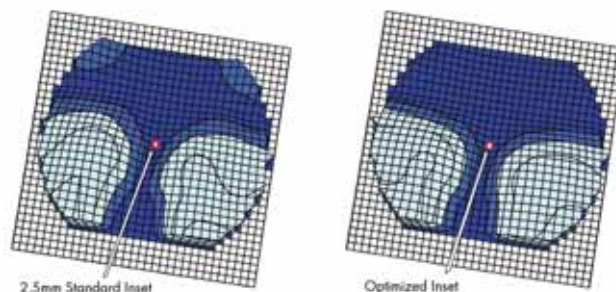
Optimized Variable Inset based on patient distance Rx and PD provides the best possible binocular near vision.

Optimized Automatic Variable Inset

Achieving point focus for near vision objects requires the inset of the reading zone relative to the distance to be precise. Surmount takes into account the wearer's PD and distance lens power and calculates the precise inset needed to give clear binocular vision at the standard 35cm near vision reading distance.

Advanced Aspheric Compensation

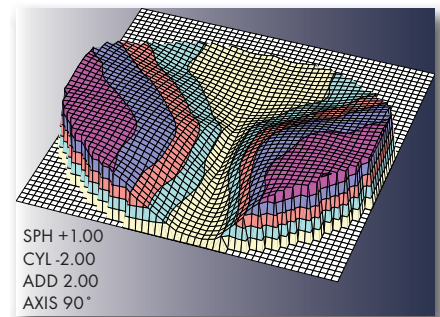
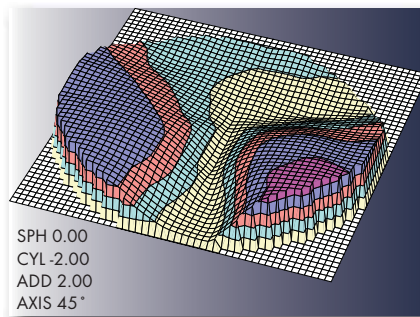
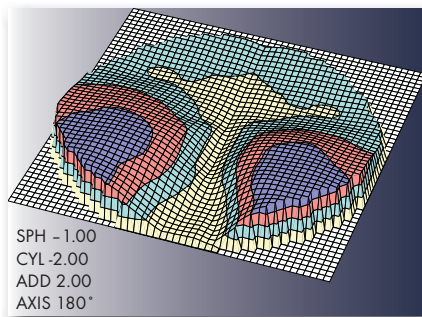
Surmount uses advanced aspheric compensation to improve vision throughout the entire lens. Even in prescriptions with high cylinder, Surmount offers wider areas of clear vision than ever possible before.



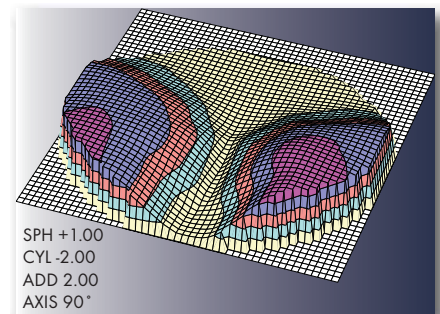
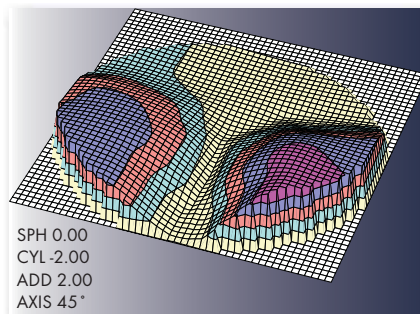
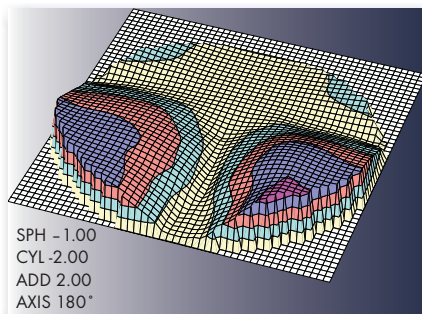
Advanced Aspheric Compensation increases field of vision throughout the entire lens up to 45%.

Improved Performance for High Cylinder Prescriptions

Conventional Internal Free-Form Lens



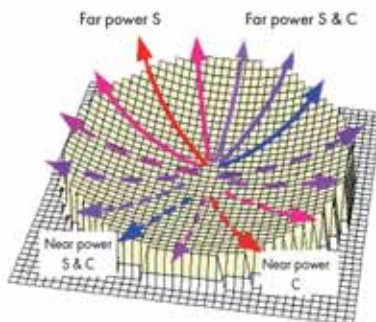
Seiko Surmount Internal Free-Form Lens



This advanced compensation factors in eye rotation, vertex distance and the small changes in effective power when the lenses are tilted relative to the eye (pantoscopic tilt). It modifies the power in both the distance and near zones to achieve the optically precise correction for the as-worn position. The wearer experiences increased visual comfort, with wider areas of stable vision.

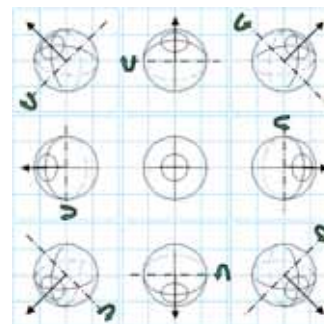
Advanced Multi-Polar Astigmatic Correction

Oblique astigmatism and distortion in the peripheral areas of a lens force the wearer to constantly move his/her head to maintain a clear image. Surmount's multi-polar astigmatic correction manages unwanted cylinder in all meridians, reducing oblique astigmatism. This creates a balanced progressive design that increases wearer comfort by reducing the need for head movements.



Multi-Polar Astigmatic Correction results in a balanced progressive lens design that increases wearer comfort.

This advanced correction also takes into account Listing's Law, which governs the three-dimensional orientation of the eye and its axis of rotation. It provides proper eye to lens alignment in all directions, significantly improving panoramic vision and image stability, especially in prescriptions with high cylinder.



Advanced Material For A Custom Fit

Surmount is available in premium high index materials: 1.74 Clear, 1.67 Clear, Polarized and Transitions VI, 1.60 Clear and Transitions VI, and Trivex® Clear and Transitions VI. Transitions XTRActive® lenses are also available in 1.67 and Trivex lenses.

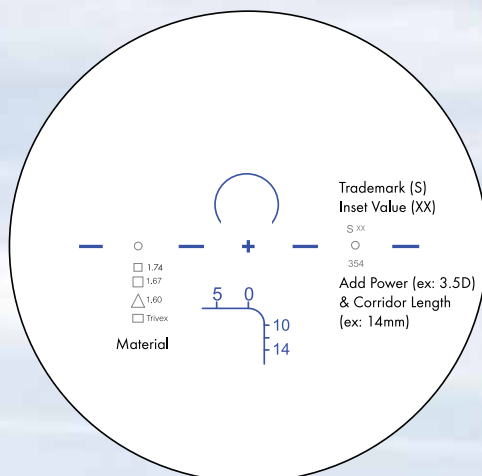
Product range is from +6.50 to -12.50, out to a -5.00 cylinder (refer to production range chart). Seiko Surmount lenses are also compatible with quality aftermarket AR coatings.

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Technical Information

Material: 1.74 Clear
 1.67 Clear, Transitions Gray & Brown,
 Transitions XTRActive Gray,
 Polarized Gray & Brown
 1.60 Clear, Transitions Gray & Brown
 1.53 (Trivex®) Clear,
 Transitions Gray & Brown
 Transitions XTRActive Gray,
Corridor Length/Minimum Fitting Height: 10mm/14mm,
 12mm/16mm, 14mm/18mm
Add Powers: +0.50 to +3.50D in 0.25 diopter steps
Prism: 0.25 to 3.00D
Inset: Automatic inset placement based on distance
 prescription and PD

Lens Engraving & Stamp

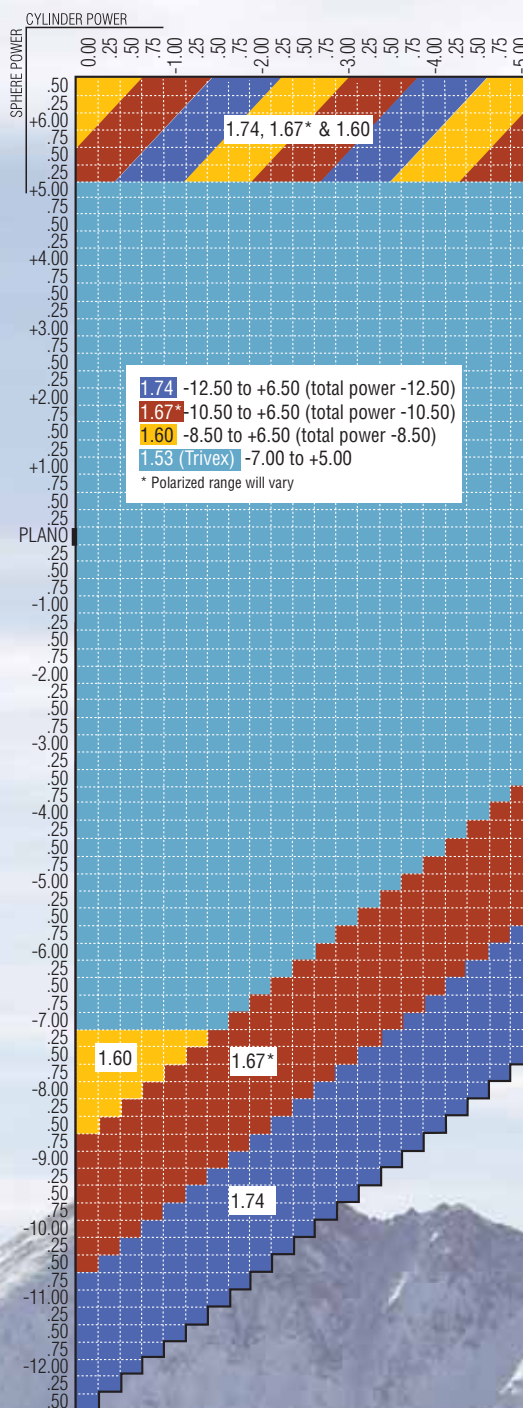


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Production Range



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