

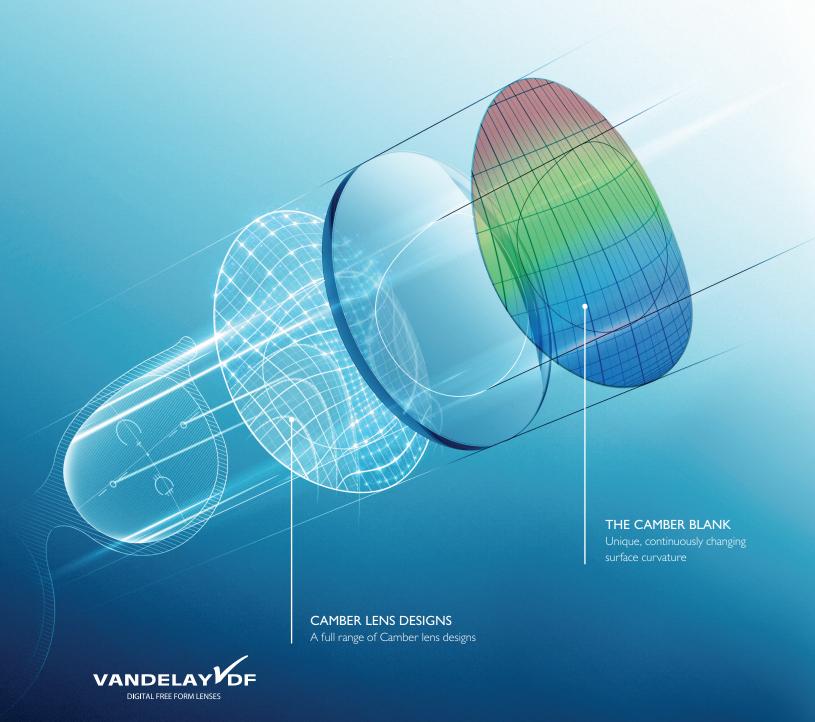




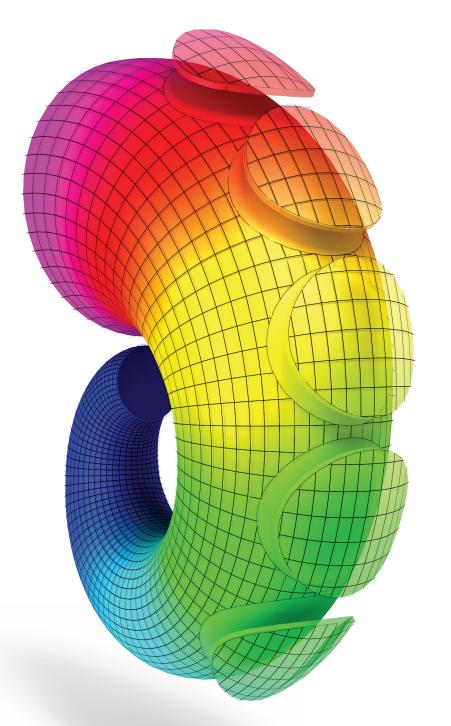


THE ADVANCEMENT OF CAMBER

Discover Vandelay Camber Lens Series







CAMBER TECHNOLOGY

Vandelay Camber is a new family of lenses calculated by Camber Technology, which combines complex curves on both surfaces of the lens to provide excellent vision correction.

The unique, continuously changing surface curvature of the specially designed lens blank allows expanded reading zones with improved peripheral vision.

When combined with a renovated state-of-the-art back surface digital designs, both surfaces work together in perfect harmony to accommodate an expanded Rx range, offer better cosmetics (flatter) for many prescriptions, and yield user-preferred near vision performance.

COMBINING TRADITIONAL OPTICS WITH THE MOST

ADVANCED DIGITAL DESIGNS

THE ORIGIN OF CAMBER TECHNOLOGY

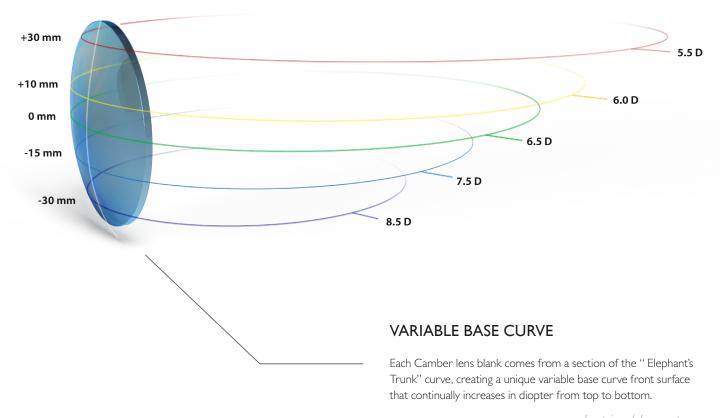
Camber Technology was born from a simple question: How can we combine the best features of both conventional and digitally surfaced progressive lenses, and minimize each one's limitations?

Camber Technology is the answer to this question, solving the challenge by unifying traditional optical principals with today's digital possibilities.

THE CAMBER BLANK

The Camber lens blank has a unique front surface with a variable base curve, which means the power of the front surface increases continuously from top to bottom.

This provides the ideal base curve for all visual areas while reducing oblique aberrations in the lens. Thanks to the unique function of its front surface, all Camber finished lenses offer unbeatable vision quality at any distance, especially in the near zone.



Inspired by nature



EXPLORING VANDELAY CAMBER LENS SERIES

PORTFOLIO

Vandelay Camber lens series is made up of 4 progressive lens designs. Vandelay Camber lens design portfolio allow you to differentiate from the competition and also offer the right lenses for your unique patient's needs.

Series	Design	Туре	Technology*	Personalization	Main Feature	Minimum Fitting Height
	Vandelay Camber Balanced	Dual-Side	Camber / DRP	✓	Image Stability	I4 mm
VANDELAY CAMBER	Vandelay Camber Near	Dual-Side	Camber / DRP	✓	Near enhanced	I4 mm
SERIES	Vandelay Camber Distance	Dual-Side	Camber / DRP	✓	Distance enhanced	I4 mm
	Vandelay Camber First	Dual-Side	Camber / DRP	✓	Extra-Soft	I4 mm

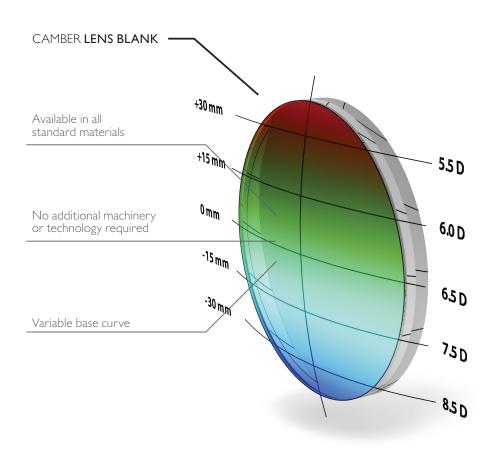


Camber Technology combines complex curves on both surfaces of the lens to provide excellent vision correction.



Digital Ray-Path® (DRP) technology improves the wearer's visual experience from the center to the edge of the lens by compensating the lens point-bypoint, turning the Camber lens into a fully personalized product.

CAMBER TECHNOLOGY



THREE PARTS SYNERGY

The Vandelay Camber finished lens is made up of three essential components:

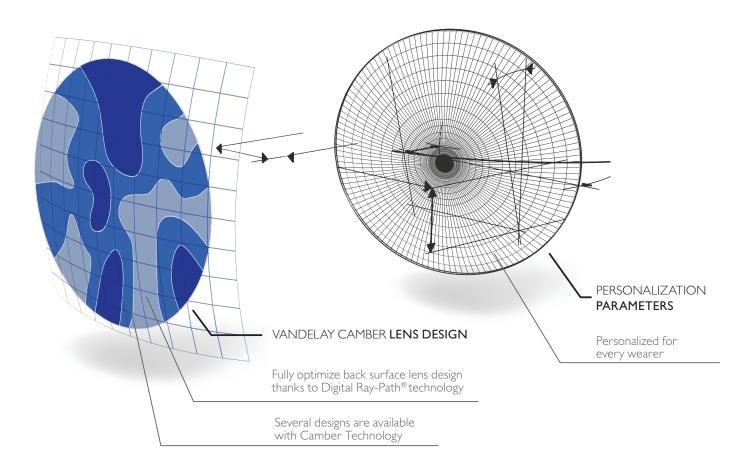
The Camber blank, the Rx Design computation, and the individual wearer's custom parameters.

COMBINING FRONT AND BACK SURFACES

Camber Technology is one of the most advanced digital lens design technology available today. It combines the sophistication and engineering of the unique Camber lens blank with a full range of upgraded and optimized digital designs on the back surface.

Camber's variable base curve significantly reduces oblique aberrations because of its pure and unique geometry, while Digital Ray-Path® technology, compensates and optimizes the back surface of the lens to enhance distance, intermediate and near visual fields. Each wearer receives a fully personalized dual side lens that is more functional and comfortable to wear.

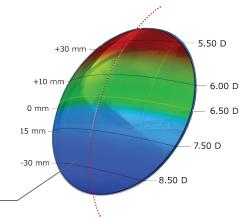




AN ADVANCED LENS LIKE NO OTHER

Vandelay Camber finished lens gives wearers an outstanding visual experience with spacious reading zones, improved peripheral vision, an expanded Rx range, better-looking lenses in many prescriptions, and user-preferred vision performance.

Optimized to benefit from front surface variable base curve



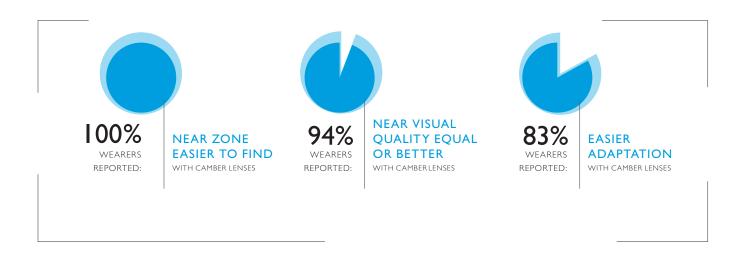
FEATURES AND PROPERTIES

CAMBER IS PREFERRED

In a recent clinical trial, wearers compared lenses made from Camber lens blanks to lenses of the same digital design made from spherical lens blanks. The results of the trial show that 83% of wearers adapted more easily to lenses made from Camber blanks. In addition, all wearers found the near zone of the Camber lenses to be equal to or easier to find than the standard lenses. Overall, wearers preferred the Camber lenses 2 to 1.

UNBEATABLE NEAR VISION

In the near vision zone, the impact of a Camber blank is the most significant. The near visual field is wider and offers better visual acuity. Clinical trials have shown that progressive lenses made with Camber Technology are superior compared to the same design produced with regular spherical blanks. Wearers reported better vision quality and improved levels of comfort while reading with Camber lenses.



OPTIMIZED OPTICS FOR ALL DISTANCES

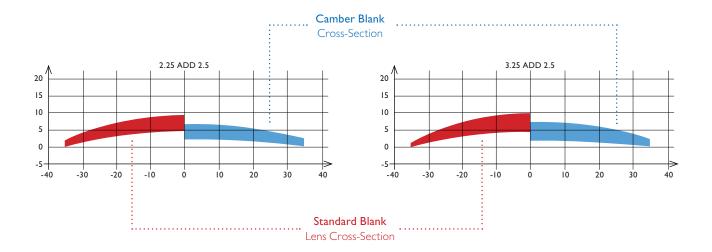
It is well known that there is an ideal base curve for each power, one which minimizes oblique aberrations and maximizes visual acuity. Most digital lenses are made from a spherical or single vision lens blank, which offers only one base curve across the entire lens.

The Camber blank is different because the base curve on the front surface continually increases from top to bottom, providing the lens with the appropriate base curve for the distance, intermediate, and near powers. Wearers enjoy noticeably increased visual acuity for all distances.



BETTER COSMETICS

Digital progressive lenses produced using spherical blanks not only have optical issues, but cosmetic issues as well. The diagram below compares the curvature profiles of two lenses with the same prescriptions- Left is processed from a spherical lens blank and the right is processed from a Camber lens blank. With Camber Technology, it is possible to produce plus progressive lenses from flatter and better-looking base curves because the Camber lens blank has a flatter base curve in the distance zone and a steeper base curve only where it is needed in the reading area.

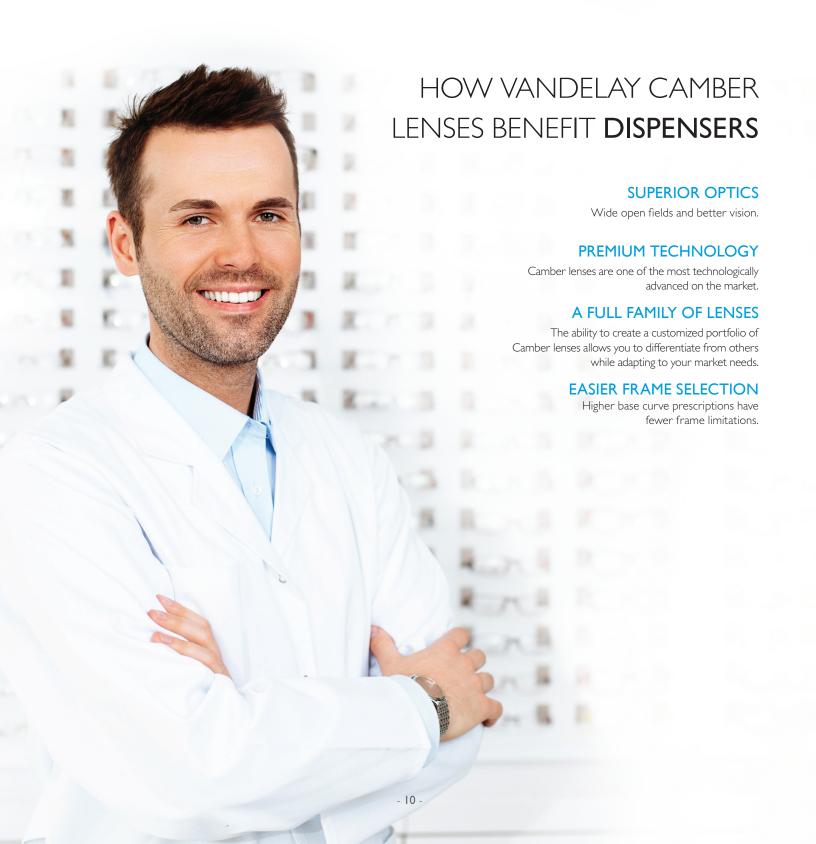


FLEXIBLE OPTIONS

Wide Availability: Camber blanks are available in a wide range of materials, coatings and base curves, allowing you more prescribing options.

Wide Product Range: Vandelay Camber lens series provides many design options to make sure you, as an eye care professional and doctors can prescribe the right lens according to the unique user's lifestyle.

BENEFITS







BETTER VISION

The exclusive front surface matches perfectly with the back digital design and is 100% customizable to each patient, allowing exceptional visual quality.

UNBEATABLE NEAR VISION QUALITY

Greater visual acuity in near vision for a better comfort in tasks like reading thanks to the Camber front surface.

BETTER COSMETICS

Camber lenses are thinner in most prescriptions than other progressive lenses - especially for plus prescriptions.

EXPANDED VISUAL FIELDS

The final lens is fully compensated point-by-point to offer wider and clearer visual fields for all zones.

EASIER ADAPTATION

A clinical trial shows quicker adaptation for most wearers.

WEARERS PREFER CAMBER

A clinical trial shows more wearers prefer lenses made from Camber blanks to lenses made from single vision blanks.



EXPLORING VANDELAY CAMBER LENS SERIES



VANELAY CAMBER BALANCED

More efficient vision through superior image stability



VANDELAY CAMBER NEAR

Delivering more comfortable near vision

TYPE OF LENS: Progressive TYPE OF LENS: Progressive TARGET Expert or beginner wearers looking for a Experienced progressive wearers looking premium lens who need extended visual fields for a premium lens with prolonged use and minimal lateral distortion. of near vision. VISUAL PROFILE VISUAL PROFILE FAR FAR **NEAR NEAR** COMFORT COMFORT PERSONALIZED 🗸 PERSONALIZED 🗸 TECHNOLOGY TECHNOLOGY Camber™ · Digital Ray-Path® Camber™ · Digital Ray-Path® Steady Method MFH MFH 14 mm 14 mm





VANDELAY CAMBER DISTANCE

An improvement for distance vision



VANDELAY CAMBER FIRST

Softer design for an easier adaptation

TYPE OF LENS: Progressive TYPE OF LENS: Progressive TARGET Experienced progressive wearers looking Beginners and non-adapted wearers looking for a premium lens who desire a larger for a premium lens. distance visual field. VISUAL PROFILE VISUAL PROFILE FAR FAR NEAR NEAR COMFORT COMFORT PERSONALIZED 🗸 PERSONALIZED 🗸 TECHNOLOGY TECHNOLOGY Camber™ · Digital Ray-Path® Camber™ · Digital Ray-Path® MFH MFH 14 mm 14 mm

VANDELAY CAMBER BALANCED

More efficient vision through superior image stability

DESIGN DETAILS

Progressive lenses have always had two distorted lateral zones that are visually ineffective and cause the unwanted swim. These lateral zones cause a peripheral power error from both cylindrical and spherical error components.

Vandelay Camber Balanced is our most advanced design. It has been developed by applying the latest innovation in lens design methodology - Steady method - which utilizes a strict control of the spherical power. As a result, the spherical power errors at the periphery tend to be zero, significantly reducing the overall lateral distortion and swim.

The Vandelay Camber Balanced lens provides wearers better peripheral vision – wearers get the benefit of superior image stability, even in dynamic conditions – while also enjoying maximized visual fields for all distances.

FEATURES

- Daily use progressive lens
- Wide near and distance visual fields
- Swim minimization
- Better peripheral vision
- Better image stability, even in dynamic conditions

TECHNOLOGIES







TARGET

 Ideal for all progressive lens wearers, experts and beginners, looking for a premium progressive lens that offers both extended visual fields and minimal lateral distortion.

Far			1
Near	1	1	
Comfort	1	1	



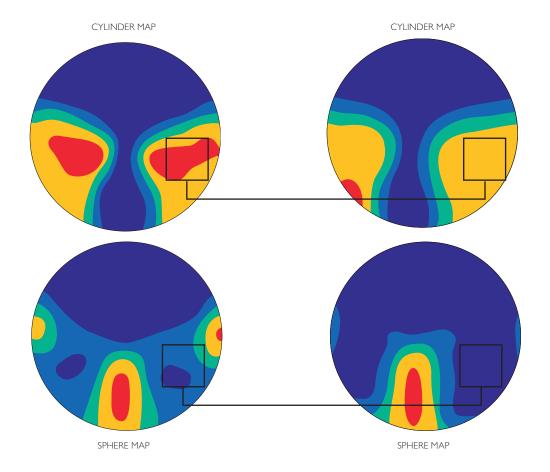
OTHER PROGRESSIVES

In other lenses, some lateral power errors can be found when looking at the mean power map. Those errors are strongly related to the undesired maximum astigmatism lobes which directly affect the wearer's visual comfort.

STEADY METHOD

The unique design methodology applied in Vandelay Camber Balanced gets rid of the mean power errors at both edges of the lens. Thanks to this improvement, a significant reduction of the maximum astigmatism lobes is achieved, delivering a superior lens that provides better image stability and superior comfort.

Steady method* applied in Vandelay Camber Balanced



*Patent pending

VANDELAY CAMBER **NEAR**

Delivering more comfortable near vision

DESIGN DETAILS

Vandelay Camber Near is a premium progressive lens that provides an enhanced reading zone while keeping good intermediate and near visual areas.

Wearers can take advantage of a stable and wider near visual zone that makes it easier to read for long periods of time, or perform close-up activities.

FEATURES

- Daily use progressive lens
- Enhanced near vision
- More comfort while performing close-up visual activities

TECHNOLOGIES







TARGET

• Ideal for experienced progressive wearers with prolonged use of near vision.

Far			
	'	'	
Near			
Comfort			



EXPLORING VANDELAY CAMBER

VANDELAY CAMBER **DISTANCE**

An improvement for distance vision

DESIGN DETAILS

Vandelay Camber Distance is a progressive lens design with an extra-large distance visual field delivering more freedom for lateral movements of the eyes. Wearers will get superior comfort and high definition vision, especially when performing distance visual activities like enjoying landscapes or watching movies.

Although this lens offers a significantly wider distance visual field, intermediate and near areas are efficient and comfortable for using this lens all day.

FEATURES

- Daily use progressive lens
- Enhanced distance vision
- Panoramic distance field

TECHNOLOGIES





TARGET

• Ideal for experienced progressive wearers who desire a larger distance visual field.

Far		ı
Near		
Comfort	1	





VANDELAY CAMBER FIRST

Softer design for easier adaptation

DESIGN DETAILS

Vandelay Camber First is an extra-soft lens design specifically developed to reduce lateral aberration, providing a more realistic view of the environment. The lateral distortion of the lens has been minimized, making this lens the softest of all the Vandelay Camber lens series.

Its smooth transition between distance and near vision along with minimum lateral distortion make this lens a great option for first-time progressive lens wearers looking for a very comfortable lens.

All visual fields are perfectly balanced to provide comfortable vision for performing all activities.

FEATURES

- Daily use progressive lens
- Extra-soft lens design
- More dynamic and natural vision
- Great comfort
- Promotes easy and quick adaptation
- Good near and distance visual fields

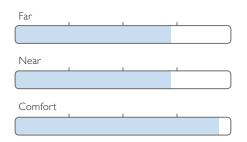
TECHNOLOGIES





TARGET

• Ideal for beginners and non-adapted patients.





HOW TO ORDER A VANDELAY CAMBER LENS

I. PERSONALIZED PARAMETERS

When ordering any Vandelay Camber lens, it is recommended to include all personalization parameters to get a fully customized lens.



PRESCRIPTION & ADDITION

Digital Ray-Path® calculates the power that the wearer will truly perceive once the lenses are fitted on the frame.



PANTOSCOPIC TILT

This is the angle in the vertical plane between the optical axis of a spectacle lens and the visual axis of the eye in primary position.



MONOCULAR PUPILARY DISTANCE

Is defined as the distance from the axis of symmetry of the face to the center of the pupil.



WRAP ANGLE

Frame curvature.



FITTING HEIGHTS

Is the vertical distance between the pupil center and the deepest part of the lens shape.



BACK VERTEX DISTANCE

Distance between the cornea and the back surface of the lens.



FRAME DIMENSIONS

Frame dimensions are used to calculate the final diameter, thickness of the lens and improve the efficiency of the optimization.



NEAR WORKING DISTANCE

This is the distance from the lens to the typical reading position for the wearer.

When some personalization parameters are not available, the final lens will be manufactured using standard values.

HOW TO ORDER A VANDELAY CAMBER LENS

2. CORRIDOR LENGHTS

Vandelay Camber lenses are available in multiple corridor lengths that allow ECPs to prescribe the right choice for each patient.

AUTOMATIC

When ordering the Vandelay Camber lens, the corridor can be automatically selected by the software depending on the pupil height (minimum pupil height should be 14mm)

3. VARIABLE INSET

The near reference point of the lens can be automatically adjusted for each individual patient, delivering a personalized lens that will provide patients with maximum binocular near visual field for any Vandelay Camber lens.

AUTOMATIC

The correct inset value is automatically calculated according to the personalization parameters.

MANUAL

If a specific inset is necessary, Vandelay Camber lenses can be calculated with the desired inset value indicated by the ECP upon ordering.



VANDELAY CAMBER BLANK AVAILABILITY

Camber blanks are available in different materials and base curves.

MATERIALS AND COATINGS

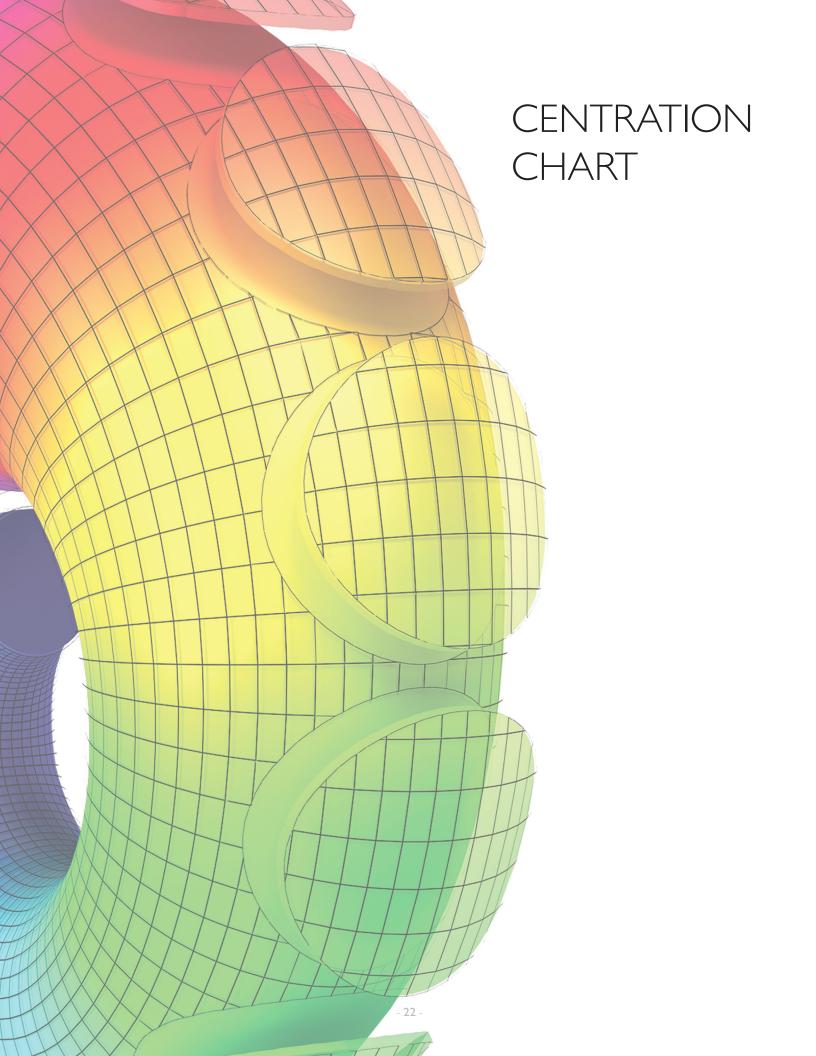
	Clear	Transitions [®] Signature [®] VII Gray & brown	NuPolar® Gray & brown	Transitions® Drivewear®
HARD RESIN	•	•	•	
POLYCARBONATE	•	•	•	•
TRILOGY® TRIVEX®	•	•	Future release	
I.60 HI-INDEX	•	•	•	
I.67 HI-INDEX		•	•	
I.74 HI-INDEX	•	•		



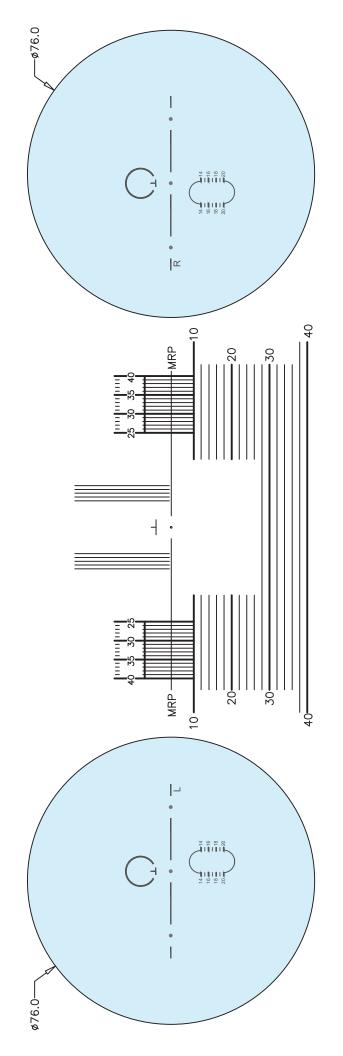
BASE CURVES

All materials and styles listed above are available in all base curves.

0.50	2	3	4	5	6	7	8



VANDELAY CAMBER Centration Chart



Camber lenses come with two engraving marks at the front side of the lens (🕾) that should not be considered for mounting purposes.

