Smart Evolution Progressive

SWISSCOAT Technical Specification Plastic

Smart E 1.0						
Index	**1.5**	**1.53**	**1.59**	**1.61**	**1.67**	**1.74**
Material	Clear Camber SunAdapt XTRActive Transitions Gen8 Nupolar Drivewear	Clear NXT XTRActive Transitions Gen8	Clear Transitions Gen8 Drivewear	Clear Camber Armour UV++ Armour Sun UV++ SunAdapt XTRActive Transitions Gen8 Nupolar	Clear Camber Armour UV++ Armour Sun UV++ SunAdapt XTRActive Transitions Gen8 Nupolar	Clear Armour UV++ Armour Sun UV++ Transitions Gen8
Max Diameter	75+5	75+5	75+5	75+5	75+5	75+5
Fitting Height	16mm to 20mm	16mm to 20mm	16mm to 20mm	16mm to 20mm	16mm to 20mm	16mm to 20mm
Rx Power Range	+6.00 ~ -8.00	+6.00 ~ -8.00	+6.00 ~ -9.00	+8.00 ~ -10.00	+8.00 ~ -11.00	+7.00~ -12.00
Addition Power	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50
Power Compensation	YES	YES	YES	YES	YES	YES

Any power exceeds the power range, contact SWISSCOAT customer service officer.

Smart Evolution Progressive

SWISSCOAT Technical Specification Plastic

Smart E 2.0						
Index	**1.5**	**1.53**	**1.59**	**1.61**	**1.67**	**1.74**
Material	Clear SunAdapt XTRActive Transitions Gen8 Nupolar Drivewear	Clear NXT XTRActive Transitions Gen8	Clear Transitions Gen8 Drivewear	Clear Armour UV++ Armour Sun UV++ SunAdapt XTRActive Transitions Gen8 Nupolar	Clear Armour UV++ Armour Sun UV++ SunAdapt XTRActive Transitions Gen8 Nupolar	Clear Armour UV++ Armour Sun UV++ Transitions Gen8
Max Diameter	75+5	75+5	75+5	75+5	75+5	75+5
Fitting Height	16mm to 20mm	16mm to 20mm	16mm to 20mm	16mm to 20mm	16mm to 20mm	16mm to 20mm
Rx Power Range	+6.00 ~ -8.00	+6.00 ~ -8.00	+6.00 ~ -9.00	+8.00 ~ -10.00	+8.00 ~ -11.00	+7.00~ -12.00
Addition Power	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50
Power Compensation	YES	YES	YES	YES	YES	YES

Any power exceeds the power range, contact SWISSCOAT customer service officer.

Smart Evolution Progressive

SWISSCOAT Technical Specification Plastic

Smart E 3.0						
Index	**1.5**	**1.53**	**1.59**	**1.61**	**1.67**	**1.74**
Material	Clear SunAdapt XTRActive Transitions Gen8 Nupolar Drivewear	Clear NXT XTRActive Transitions Gen8	Clear Transitions Gen8 Drivewear	Clear Armour UV++ Armour Sun UV++ SunAdapt XTRActive Transitions Gen8 Nupolar	Clear Armour UV++ Armour Sun UV++ SunAdapt XTRActive Transitions Gen8 Nupolar	Clear Armour UV++ Armour Sun UV++ Transitions Gen8
Max Diameter	75+5	75+5	75+5	75+5	75+5	75+5
Fitting Height	16mm to 20mm	16mm to 20mm	16mm to 20mm	16mm to 20mm	16mm to 20mm	16mm to 20mm
Rx Power Range	+6.00 ~ -8.00	+6.00 ~ -8.00	+6.00 ~ -9.00	+8.00 ~ -10.00	+8.00 ~ -11.00	+7.00~ -12.00
Addition Power	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50
Power Compensation	YES	YES	YES	YES	YES	YES

Any power exceeds the power range, contact SWISSCOAT customer service officer.

Smart Evolution Progressive

SWISSCOAT Technical Specification Plastic

Smart E Drive						
Index	**1.5**	**1.53**	**1.59**	**1.61**	**1.67**	**1.74**
Material	Clear SunAdapt XTRActive Transitions Gen8 Nupolar Drivewear	Clear NXT XTRActive Transitions Gen8	Clear Transitions Gen8 Drivewear	Clear Armour UV++ Armour Sun UV++ SunAdapt XTRActive Transitions Gen8 Nupolar	Clear Armour UV++ Armour Sun UV++ SunAdapt XTRActive Transitions Gen8 Nupolar	Clear Armour UV++ Armour Sun UV++ Transitions Gen8
Max Diameter	75+5	75+5	75+5	75+5	75+5	75+5
Fitting Height	17mm	17mm	17mm	17mm	17mm	17mm
Rx Power Range	+6.00 ~ -8.00	+6.00 ~ -8.00	+6.00 ~ -9.00	+8.00 ~ -10.00	+8.00 ~ -11.00	+7.00~ -12.00
Addition Power	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50	A+0.75 ~ A+3.50
Power Compensation	YES	YES	YES	YES	YES	YES

Any power exceeds the power range, contact SWISSCOAT customer service officer.

LENS TYPE

SWISSCOAT® Better Vision

Smart Evolution 3D digital progressive + camber™

LAB BRAND™ DIGITAL LENSES WITH CAMBER™ TECHNOLOGY

State-of-the-art digital lens design combined with sophisticated new lens blank technology

Smart Evolution 3D digital progressive lenses are lenses are now available with Camber Technology, representing a breakthrough in combining digital processing with an innovative new lens blank design. The specially designed Smart Evolution 3D digital progressive lens blank features a increasing base curve that provides the optically correct curvature in each zone of the lens. This allows expanded reading zones with improved peripheral vision. The asvanced, digitally designed back surface can be comprehensively customized to each patient through a complete set of individualization parameters. Complex curves on both surfaces of the lens work together to provide excellent vision correction and a progressive lens experience like no other.

camber™ Availability

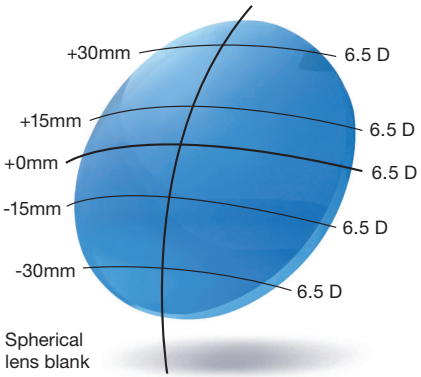
Styles	Materials	Base Curves
Clear	Hard Resin	0.50, 2, 3, 4, 5, 6, 7, 8
Transitions® Signature™ Gray & Brown	1.60 High Index	
	1.67 High Index	

Compare Front Surfaces

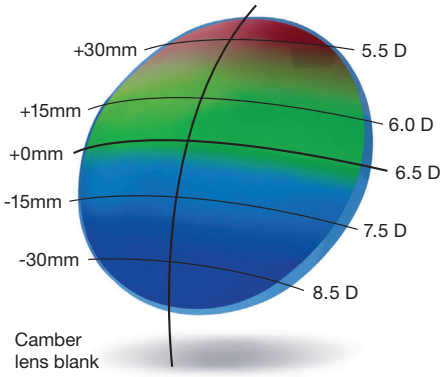
Most digital progressive lenses are processed from a single vision lens blank, which has just one base curve from top to bottom.

In this case, the base curve in the reading area is not ideal, and oblique astigmatism results.

The Camber lens blank has a patented, continuously increasing base curve, ideal for the increasing power profile of digital progressive lenses.



Spherical lens blank

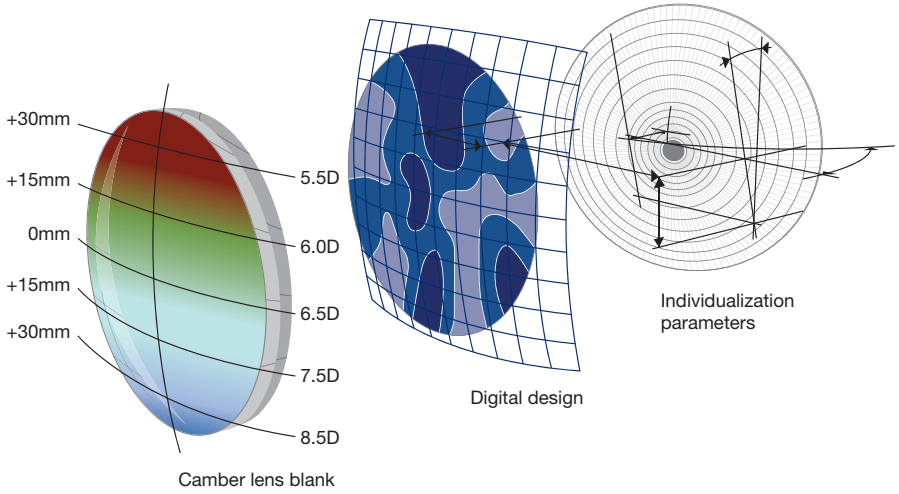


Camber lens blank

A Combination of Complex Curves

When the unique front surface is combined with a sophisticated back-side digital design, both surfaces work together to become the Camber finished lens.

The design may be further enhanced by a complete set of individualization parameters to comprehensively customize the lens for each individual patient.



Camber lens blank

The combination of the Camber variable base curve front surface and the enhanced digital back surface design creates the Camber finished lens, an advanced digital progressive that provides remarkable visual acuity in every viewing zone.

Visit CamberLens.com for more information about Camber lens technology. Camber is a trademark and NuPolar is a registered trademark of Younger Mfg. Co. Transitions is a registered trademark and Signature is a trademark of Transitions Optical, Inc.

LENS TYPE

SWISSCOAT® Better Vision

In a double-blind study, test wearers compared conventional single vision blanks with Camber blanks, each processed with same digital progressive design.

STUDY PROCEDURE:

- **Test wearers wore each pair of glasses for the duration of one week, but were not aware of which lenses they were wearing for the entirety of the study.**
- **Both pairs of lenses were of identical material and base curve, and mounted in the same frame.**
- **Wearers were surveyed about their experience with the lenses after testing both.**

TEST LENS **A**

[PROCESSED FROM SINGLE VISION LENS BLANKS]

TEST LENS **B**

[PROCESSED FROM CAMBER LENS BLANKS]

"DOUBLE-BLIND" RESEARCH

To prevent bias, neither the wearers nor study administrators are aware of which lenses are being tried during either week.

RESULTS OF WEARER STUDY

100%
WEARERS REPORTED:
NEAR ZONE EASIER TO FIND
WITH CAMBER LENSES

83%
WEARERS REPORTED:
EASIER ADAPTATION
WITH CAMBER LENSES

94%
WEARERS REPORTED:
NEAR VISION QUALITY EQUAL OR BETTER
WITH CAMBER LENSES

HIERARCHY OF IMPORTANCE

FOR MAKING A SUCCESSFUL PROGRESSIVE Rx

There is lot of confusion in optical industry about which parameters are the most important towards supplying a successfully dispensed Rx progressive. Not surprisingly, those items directly controlled by the ECP are still the most important! Base curve and lens index material play a more important role than factors such as customization and individualization.

MOST IMPORTANT	Proper refranction Fitting Height PD Measurement
IMPORTANT	**Base Curve Selection** Design of Progressive Corridor Length Index of Lens Material
NICE TO HAVE	Customization Individual Wearer;s Parameters

SWISSCOAT® Better Vision

Advanced Curve Technology for Progressive Rx Wearers

camber™ + Smart Evolution
3D digital progressive

HOW CAMBER LENSES BENEFIT OPTICIANS AND LABS

SUPERIOR OPTICS
Wide open fields of vision

PREMIUM TECHNOLOGY
Feel confident that the product you are dispensing is as technologically advanced as any lens in the market

EASIER FRAME SELSCTION
Higher base curve prescriptions have fewer frame limitations

BETTER LOOKING
More cosmetically appealing front curve for many high plus and high add prescriptions

HOW CAMBER LENSES BENEFIT PATIENTS

BETTER VISION
In all zones, compared to SV Blank

LATEST TECHNOLOGY
Camber's two-surface design is unique and patented

FULLY CUSTOMIZABLE
Every variable that affects vision can be individualized to patient

IMPROVED READING AREA
More spacious, easier to find with the eye

EASIER ADAPTATION
Study shows quicker adaptation for most wearers

WEARERS PREFER CAMBER
Study shows more wearers preferred lenses made from Camber blanks to lenses made from single vision blanks

OMNI Parameters

Pupil Distance	✓
Segment Height	✓
Vertex Distance	✗
Pantosopic Angle	✗
Wrapping Angle	✗

Camber Parameters

Pupil Distance	✓
Segment Height	✓
Vertex Distance	✓
Pantosopic Angle	✓
Wrapping Angle	✓
Near Working Distance	✓