# Table of Contents

- **Loyal Service You Can Count On**  Page 2

- **Manufacturing Excellence**  Page 3

- **PlasmaComfort**  Page 4

- **Custom Gas Permeable Contact Lenses**
  - Spherical  Page 5-6
  - Bifocal/Multifocal  Pages 7-10
  - Irregular Cornea  Pages 11-14
  - Scleral  Pages 15-23
  - Orthokeratology  Pages 24-26

- **Hybrid**
  - SynergEyes  Page 27

- **Custom Soft Contact Lenses**
  - Kerasoft IC / Kerasoft Thin  Pages 28-29
  - DEFINITIVE  Pages 30-31
  - CONCISE Custom / CONCISE Colors  Pages 32-33
  - Rose K2 Soft  Page 34
  - Alden Optical  Page 35

- **Materials & Lens Designs**  Page 36
Loyal Service You Can Count On

Our friendly customer service professionals are happy to help and may be contacted by your preferred method:

**Phone:** 1-800-772-3911, option 3  
**Email:** specialtycontactlenses@abboptical.com  
**Live chat:** Visit our website at www.abboptical.com

Conveniently place orders by calling or simply logging onto our website with your account number anytime, 24/7.

**Do you have a question on a lens design or contact lens fit?**  
Contact us at 1-800-772-3911, option 4 for Specialty Contact Lens Consultation.

Consultation

ABB OPTICAL GROUP Specialty Contact Lens Consultants are experts in their field and have helped thousands of Eye Care Practitioners nationwide fit their patients with specialty lenses, resulting in a high level of patient satisfaction and retention.

Our Specialty Contact Lens Consultants receive extensive training every year from top professors and leaders in the eye care industry. ABB OPTICAL provides education for all of our Specialty Contact Lens Consultants to become NCLE certified.

Our team of 15 consultants, which include consultants from Firestone Optics, MidSouth Premier and Diversified, can help you fit custom design lenses in both gas permeable and soft. You can trust them with your most complicated fits including Scleral and Ortho-K lenses.

I would trust any of ABB OPTICAL GROUP consultants to consult on my specialty contact lens fits. You have an extremely talented team.

Dr. Stephen Cohen, Scottsdale, AZ
Manufacturing Excellence

With 59 years (1959) of experience in manufacturing specialty gas permeable (GP) and custom soft lenses for Eye Care Practitioners, you can count on the extraordinary expertise at ABB OPTICAL GROUP. State of the art equipment, cutting-edge technology, and top quality materials combined with proprietary unique lens designs, allow us to provide exceptional lenses for outstanding vision!

2017 ABB OPTICAL acquired Firestone Optics, MidSouth Premier, and Diversified, adding their designs and manufacturing expertise to our portfolio. Manufacturing facilities are in Alamedia, California and Kansas City, Missouri.

ABB OPTICAL GROUP has consistently earned the Contact Lens Manufacturers Association’s SEAL OF EXCELLENCE Manufacturing Award since conception. The CLMA Certificate of Manufacturing Excellence is a prestigious achievement award and signifies a high degree of manufacturing expertise needed to meet a demanding level of inspection. It also recognizes a manufacturer’s ability to produce high quality contact lenses that meet or exceed applicable industry standards.

Along with providing the finest quality specialty contact lenses, ABB OPTICAL GROUP is dedicated to providing educational tools, programs and resources to Eye Care Practitioners and their practices. We proudly support the GP Lens Institute (GPLI), the educational division of the CLMA, as a specialty lab manufacturer of the CLMA. The GPLI is committed to providing Eye Care Practitioners with education on the many benefits and advantages of GP and custom specialty contact lenses to build their practices. For further information on the CLMA and GPLI, please visit: www.clma.net and www.gpli.info.
PlasmaComfort

PlasmaComfort is a proven plasma treatment that delivers superior wettability and an extra level of cleanliness, resulting in wetter, cleaner and the utmost comfortable lens.

It works at the molecular level of the contact lens surface where cold gas plasma, an energetic process utilizing electrical energy, transforms the molecular structure and thereby creates desirable surface properties engineered to enhance wettability, remove residue on lens and increase comfort.

PlasmaComfort treatment is a very effective cleaning method that eliminates residual contaminants from the lens surface.

It also prepares the surface properties inherent in the lens material for enhanced wettability prior to handling.

PlasmaComfort lenses are ideal for patients with:
- Dry eyes
- Presbyopia
- New GP lenses
- Planned replacement schedules

Patients are happier with clearer vision, better comfort and healthier eyes from PlasmaComfort treated lenses.
**Spherical Signature Lens Designs**

**OXYFLOW**

The Oxyflow design is manufactured for a traditional alignment fit with low to moderate edge lift. This lens design has a spherical base curve with one or more spherical peripheral curves. It allows the Eye Care Practitioner to customize the peripheral curve system or use the standard **ABB OPTICAL GROUP** parameters.

The Oxyflow lens design is best suited for myopic and hyperopic patients with up to 2.00D of corneal astigmatism.

**PURESITE GP**

A spherical single vision lens design manufactured with a carefully calculated geometry between the base curve and peripheral system made up of several cuts providing a maximized fit for superior patient fit and visual acuity.

**EDGELIFT**

The EdgeLift design has a spherical base curve with an aspheric peripheral system which allows for a junction-less transition from base curve. This Axial Edge Lift (AEL) design allows the Eye Care Practitioner to customize and change the lift by 0.01mm increments if desired or to use the standard **ABB OPTICAL GROUP** parameters (.13 mm).

This standard thickness design is best suited for myopic and hyperopic patients with up to 2.00D of corneal astigmatism.

**INSIGHT**

The InSight design has a spherical base curve with an aspheric peripheral system which allows for a junction-less transition from base curve. This Axial Edge Lift (AEL) design allows the Eye Care Practitioner to customize and change the lift by 0.01mm increments if desired or to use the standard **ABB OPTICAL GROUP** parameters (.09 mm).

This standard thickness design is best suited for myopic and hyperopic patients with up to 2.00D of corneal astigmatism.
**Spherical Signature Lens Designs**

**PLIAFLEX®**

The Standard Pliaflex lens offers excellent stability, durability and wettability in a thin lens design. The Pliaflex edge profile reduces lens to lid interaction for faster adaptation and increased initial and long-term comfort. The Pliaflex lens does not work well on spherical corneas or Against the Rule astigmatism. Patients must have a minimum of .75D and up to 2.50D corneal cylinder. Consider this lens design for first time GP lens wearers or current wearers of other thin lens designs. Other ideal Pliaflex candidates are patients whose lenses decenter inferiorly because of excessive weight. Anytime a thin lens is desired, select Pliaflex as it is proven to work.

**PLIAFLEX® PD**

Polycon Design and Thinner Design lenses are considered part of Pliaflex PD design. The Polycon II lens was one of the first ultra-thin gas permeable lens designs which reduces the overall lens mass and thickness, both of which affect lens-to-corneal alignment and lid awareness. The Polycon design is a tricurve design with a standard center thickness of .08mm and an edge thickness of 10mm.

**VERACON® ASPHERIC**

Veracon Aspheric is designed as an aspheric central base curve with a programmed peripheral lift. It delivers great aberration control that can fit up to 2-3 diopters of corneal astigmatism. The VerAcon lens is ideal for emerging presbyopes with up to a +1.00 ADD and may delay the need of a multifocal 4-5 years.

**ULTIMA ASPHERIC**

A proprietary designed aspheric back surface lens precisely designed and manufactured to align with the patients corneal curvature resulting in a comfortable fit for your first time GP lens wearer. Manufactured using state-of-the-art computerized lathes, which enables quality and reproducibly.

**ALLEVO 58**

Low eccentricity back surface aspheric that provides a comfortable fit for patients with up to 3 diopters of corneal astigmatism which also provides a low ADD effect. 4 lens zone design with a 4.0 mm central sphere with an aspheric mid-periphery followed by an aspheric alignment zone and a ski lift edge.
**Bifocal/Multifocal Signature Lens Designs**

**MANDELL SEAMLESS® MULTIFOCAL**

Front Surface Concentric multifocal design. The unique transition zone provides seamless “no jump” transition between distance and near optic zones, which can be customized. The lens is available in a reverse curve and in any astigmatic lens design. An ideal lens choice for patients with specific distance and near requirements with minimal intermediate. Up to +3.00D in ADD power.

> “Because the bifocal optics of the Mandell Seamless Multifocal are formed on the front surface of the lens, the back surface is available for a variety of designs. You can easily refit a patient who is currently wearing GP lenses that needs to progress into a multifocal design.”

Robert B. Mandell, OD, PhD, FAAO  
Accomplished Contact Lens Pioneer, Author, Inventor, and Professor of Berkeley Optometry, University of California, Berkeley, California

**XTRIVISION®**

Versatile lens design offering flexible, simultaneous multifocal vision. This multifocal lens provides consistent, predictable results while allowing you to customize the zone sizes and ADD powers. The XTriVision lens is an ideal lens for patients that require distance, near and intermediate vision with ADD power up to +3.00D.

**XTRIVISION® TETRA**

Similar simultaneous multifocal design as the XTriVision multifocal with a Reverse Geometry design and Tetra-curve assigned PC radii.

**VERSARE™**

Featuring Controlled Zone Technology, this lens allows transition from the distance zone through the intermediate zone into the near zone. Suited for emerging presbyopes and patients with up to 2 diopters or less corneal astigmatism. Provides up to +2.00D ADD power.
**Bifocal/Multifocal Signature Lens Designs**

**SPECTRA VUE**
Translating Progressive Multifocal. The upper segment is a constant distance power. It joins seamlessly with the crescent shaped middle section which provides progressive intermediate power change. The crescent lower segment is a constant power for near.

"The SpectraVue lens is a hard working translating lens design offering good distance, near and intermediate powers. It is easy to prescribe and has great comfort. Good choice for demanding patients."

Dr. Dorothy Park
Columbia, South Carolina

**NATURAL VISION™ BIFOCAL**
A translating, prism ballasted lens design. This lens has true monocentric construction to avoid image doubling and virtually no limit to the distance or ADD powers. Controlled lathing allows for crisp optics, thinner lenses and a minimum edge for optimal comfort and centration. Ideal for patients with advanced presbyopia and patients that have fine discriminating needs. Lens is manufactured truncated or round.

**TRIVA**
This new lens design is an exceptionally comfortable translating GP design that combines crisp, spherical distance and near optics with a supplemental intermediate aspheric power, for uncompromising vision in all three areas of gaze. Empirically fit simply with K's and Rx. Patients are amazed when they experience sharp, clear vision distance, intermediate and near.

"Historically, translating GP bifocal lenses have always provided our patients with excellent distance and near optics. The major problem with these lens designs has been lack of intermediate correction. The translating TRIVA design has overcome this obstacle with a unique optical system that provides the presbyope with clear vision at all distances."

Patrick Caroline FAAO
Pacific University College of Optometry, Forest Grove, Oregon

**MENIFOCAL BIFOCAL**
Concentric translating bifocal design improves visual performance for both distance and near vision when compared with other designs which do not adjust for increasing close up reading powers. Menifocal is manufactured exclusively in the Menicon Z material.
**Bifocal/Multifocal Signature Lens Designs**

**TANGENT STREAK NO LINE MULTIFOCAL**

The Tangent Streak No Line multifocal is a back surface aspheric design, providing center distance correction with progressive ADD power to the periphery. Central positioning with moderate central pooling is essential to realize the maximum ADD power of +2.25D.

> I've been fitting the Tangent Streak NO Line Multifocal for most of my 30 years in practice, it is an excellent design choice for early presbyopes. The design is more comfortable than segmented lens designs and it is easy to switch existing Gas Perm wearers into them. Another benefit is that it provides excellent distance, intermediate, and near visual acuity that rivals that of translating segmented designs.

Dr. Timothy Busey, OD
Decatur, Illinois

**TANGENT STREAK AAA**

Anterior Aspheric ADD Multifocal. This lens features concentric zones of power, with distance in the center, surrounded by the intermediate and near power zones radiating outward. The lens simultaneously collects distance, intermediate, and near images.

**TANGENT STREAK BIFOCAL**

Segmented Bifocal. Translating executive lined prism ballasted bifocal. Spherical distance and near vision with up to +4.50D ADD power. This lens has a wide unobstructed field of vision. Lens can be manufactured in back and bitoric designs, and is normally manufactured with truncation but is also available without truncation.

> Never underestimate the success of what is tried and tested. The Tangent Streak Bifocal has provided my patients many years of unsurpassed visual acuity at distance and near. While aspheric designs provide satisfactory vision at all ranges, my more discerning patients prefer the Tangent Streak Bifocal for its uncompromised acuity while driving day and night, and reading in traditional settings.

Dr. Tony Chahine
La Canada, California

**TANGENT STREAK TRIFOCAL**

Segmented Trifocal. Translating executive lined prism ballasted trifocal with spherical optics for distance, intermediate, and near vision. Lens can be manufactured with a back toric or bitoric also with or without truncation.
**Bifocal/Multifocal Signature Lens Designs**

**ULTIMA MULTIFOCAL**

This lens utilizes the back aspheric design of the Ultima lens with an aspheric front surface design for low, moderate, and advanced presbyopes. Ultima multifocal provides an easy transition from a single vision GP and offers near, intermediate and distance vision in all gazes.

"The Ultima Multifocal is an easy to fit RGP Multifocal that gives the patient clear vision at distance, intermediate, and reading. Zones can be specified to maximize vision depending on pupil size. The lens is available in add power up to +3.00D."

Elliot Finkelstein, OD
New Orleans, Louisiana

**PURESITE MULTIFOCAL**

Front surface design with the distance in the center, intermediate and near in the periphery for low, moderate, and advanced presbyopic patients which provides optimum near, intermediate and distance vision.

**PURESITE REVISION PLUS**

A bi-aspheric multi zonal multifocal lens with a distance center. This lens provides distance, intermediate, and near vision ideal for ADD power of +2.00D and above. The central zone can be altered to accommodate larger or smaller pupils.

**DISTRIBUTED BIFOCAL/MULTIFOCAL LENS DESIGNS**

- XCEL Solution Bifocal
- ART OPTICAL Renovations
- ART OPTICAL Renovations E
- Lifestyle Multifocal
- ESSENTIAL Multifocal
- Essential Xtra GP Multifocal
- ESSENTIAL CSA Multifocal
- ESSENTIAL Xtra CSA Multifocal
Irregular Cornea Signature Lens Designs

**cCONE™**
This lens is designed for beginning to moderate Keratoconic patients. The cCONE is constructed in a three zone design. Each zone is clearly labeled for dimensions to enhance fine tuning for the final fit. A performance proven lens that is easy to fit and gentle on the cornea. The lens is a first choice for central or mildly superior conic corneas. However, the cCONE can also be manufactured in any keratoconic design with your customized parameters.

**eCONE™**
For moderate to advanced Keratoconic patients, the eCONE lens features Controlled Zone Technology™ improving the fitting relation between the lens and keratoconic cornea. The net result is enhanced comfort and acuity while simplifying challenging fits. The peripheral curve is an actual edge lift system which can be adjusted to give more or less edge lift depending on the need. This lens is designed for the more centrally located cone.

**XCONETM**
The XCONETM is a reverse geometry design that provides better centration and less tilting or rocking of the lens. The result is a better fit along with enhanced comfort and acuity. This lens is best suited for patients with pellucid marginal degeneration, post surgical, and other irregular corneal applications including some corneal grafts.

**SOPER CONE**
This is a bicurve contact lens with a fitting philosophy based on sagittal depth. The vaulting effect of the lens increases as the base curve decreases. This change in the steep central posterior curvature is what is used to fit the cone. The theory behind the Soper cone design is to avoid apical bearing in keratoconus. There are three groups of a given diameter/optic zone relationship. The steep central posterior curvature varies in order to fit the cone.

**MC GUIRE CONE**
There are three groups of designs in the keratoconic lens system: the well blended zones create an almost aspheric relationship. The fitting philosophy of this design aims to achieve a three-point touch and is predicated upon the size of the of the optic zone in relation to conical size.
**Irregular Cornea Signature Lens Designs**

**DYNA CONE**

The Dyna Cone and Dyna Cone Plus Series are designed for central to mostly central nipple cones, with a light feather apex touch fit. The rest of the pattern should be as close to alignment as possible. Series come in standard diameters of 8.0 mm, 8.4 mm, and 8.8 mm, but are available from 8.0 mm to 9.9 mm. The desired edge lift show 1.0mm width of clearance. Flatter and steeper edge lifts are available in a step system. Quad Sym PC and/or BC options are available in Dyna Cone and Dyna Cone Plus.

**DYNA CONE PLUS**

This small diameter lens, which has varying optical zones, is intended for centrally positioned nipple cones. The peripheral system is a heavily blended series of spherical curves for better centration and maximum alignment. The Dyna Cone Plus has a 0.4 mm larger optical zone than the Dyna Cone lens.

**DYNA INTRA-LIMBAL**

Best on pellucid marginal degeneration, low cones, globus cones, oval cones, post graft and other flat profile corneas. Diameter 10.0 to 12.0. Optical zone is 1.8 mm less than diameter.

**DYNA INTRA-LIMBAL- POST GRAFT - POST LASIK**

These corneas typically require a reverse geometry design due to the flat central area surrounded by a steeper peripheral zone. The best fit should exhibit as close to alignment fluorescein pattern as possible. There should be no bearing on the host/graft. The lens is designed to fit intra-limbal and to achieve 0.5 mm to 1.0 mm of vertical movement. Try this Dyna Intra-Limbal Special Reverse Geometry design.

**PURESITE R-2000**

A Keraoconus lens designed with a spherical optical zone which is surrounded by a zone of variable eccentricity to transition from the cone to the peripheral cornea. The lens presents an aligned cone contour with a mathematically correct paracental pump to effectively refresh the tear supply.
Irregular Cornea Signature Lens Designs

**PURESITE DUAL BASE**
Keratoconus lens with a two zone spherical lens designed to fit the more “normal” cornea around the cone and a central curve to vault the cone with minimal clearance. This spherical central curve has proven to give better optics than an aspheric curve over the optical apex.

**G.B.L.**
A large gas permeable contact lens, the G.B.L. is designed to center well on the corneas of patients for whom conventional lenses often decenter. This lens is also available in a reverse geometry design. The G.B.L. lens gives the fitter a new dimension to successfully provide a healthy corneal response together with improved vision. The diameter range of the G.B.L. is 10.8mm to 12.5mm. It may be used for any patient with lens decentration, but is especially effective in the correction of irregular corneas, including keratoconus and pellucid marginal degeneration.

**SURGILENS™**
The SurgiLens incorporates a reverse geometry curve on the posterior surface which results in an improved fit over conventional designs, providing enhanced comfort and optimal visual acuity. This lens is also available in an aspheric design. The SurgiLens is designed for the post refractive surgical cornea (post lasik/post graft).

**EKF POST SURGICAL DESIGN**
Use on Post Refractive corneas and on sunken or raised grafts. Manufactured with high amounts of reverse geometry curves.

**PKP**
This “bridge” design is intended for rehabilitation of post-graft corneas. It offers ease of fit, comfort and excellent stability of vision.

**REVERSE GEOMETRY**
Reverse geometry lens designs have secondary and/or mid-peripheral curves that are steeper than the base curve. Reverse geometry designs can provide increased comfort, stability and improve the quality of vision. Reverse Geometry lens designs are available in many of our Signature Lens Designs.
Irregular Cornea Signature Lens Designs

**ROSE K™**

Easy-to-fit using a simple systematic approach for all Rose K lens designs. Simple to use flexible edge lift system. Aberration control aspheric optics providing outstanding acuity, reduced flare and glare and minimum lens mass. Advanced fitting options including:

- Toric peripheral curves
- Asymmetric Corneal Technology or ACT
- Front, back and bi-toric designs available for Rose K2™, Rose K2 NC™, Rose K2 IC™ and Rose K2 PG™. Extensive diameter and base curve range. Fits most corneal shapes, sizes and stages of keratoconus because of the unique design that changes as the base curve steepens.

<table>
<thead>
<tr>
<th>ROSE K2</th>
<th>ROSE K2 NC</th>
<th>ROSE K2 IC</th>
<th>ROSE K2 PG</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Primary Application</strong></td>
<td>Oval keratoconus</td>
<td>Moderate and steep nipple cones</td>
<td>Pellucid marginal degeneration, keratoglobus, lasik induced ectasia and post graft</td>
</tr>
<tr>
<td><strong>Secondary Application</strong></td>
<td>Early pellucid marginal degeneration</td>
<td>All nipple cones</td>
<td>Oval keratoconus</td>
</tr>
<tr>
<td><strong>Advanced Fitting Options</strong></td>
<td>- Toric Peripheral curves (TP)</td>
<td>- Quadrant specific Asymmetrical Corneal Technology (ACT)</td>
<td>- Toric: back, front and bi-toric surfaces</td>
</tr>
<tr>
<td><strong>Trial Sets</strong></td>
<td>26 lenses from 5.10 to 7.60 mm in a variable diameter from 8.5 to 9.2 mm, with variable power to approximate the final lens power.</td>
<td>25 lenses from 4.60 to 7.40 mm in variable diameter from 8.1 to 8.9 mm with variable power to approximate the final lens power.</td>
<td>18 lenses from 6.00 to 8.40 mm in an 11.2 mm diameter, with variable power to approximate the final lens power.</td>
</tr>
</tbody>
</table>

Dr. Paul Rose, Hamilton, New Zealand

"It is a systematic approach when fitting keratoconus, irregular and post surgical corneas by using a simple 5 step system. This applies to all ROSE K2 designs."
Scleral

**ROSE K2 XL™**

The ROSE K2 XL lens is part of the successful, easy to fit ROSE K family of lens designs with a simple systematic approach. It features an aspheric back optic zone which decreases as the BC steepens, front surface aberration control, precise edge lift control and reverse geometry in flatter base curves too. With a minimized center thickness and apical clearance, 1mm of lens movement on blink and the industry leading Dk of Menicon Z, all combined to maximize oxygen transmission to the cornea from this lens design.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Secondary Indications</th>
<th>Daily Wear</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keratoconus, pellucid marginal degeneration (pmd), post graft, post- lasik ectasia and any irregular corneal condition that cannot be successfully fitted within the limbus.</td>
<td>Polluted work conditions, stability for sport or working environment. Corneal GP intolerance, Piggyback substitute.</td>
<td>Made in Menicon Z material, this lens design delivers the maximum oxygen transmissibility to easily meet the daily wear requirements.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter Range</th>
<th>Daily Wear</th>
</tr>
</thead>
<tbody>
<tr>
<td>- BC range: 5.80 to 8.40 mm</td>
<td>- Edge lifts:</td>
</tr>
<tr>
<td>- Diameter range: 13.6 to 16.0 mm</td>
<td>- 13 options</td>
</tr>
<tr>
<td>- Standard diameter 14.6 mm</td>
<td>- 5 standard lifts will optimally fit 90% of cases Other options are available on request.</td>
</tr>
</tbody>
</table>

**Diagnostic Set**

- 16 lenses manufactured in Menicon Z or Lagado ONSI 56 material
- BC: from 6.00 to 8.00 mm
- Standard diameter: 14.6 mm
- Edge lift: Standard Lift (0)

Recommended in **Menicon Z**

**Note:** edge lifts in 0.5 steps are also available from -3.0 to +3.0.
Scleral

**ICD™ FLEXFIT™**

Superior scleral lens design gives you the ability to fit Irregular and Regular corneas.

### IRREGULAR CORNEAS

16.3mm

- **Flexibility**
  - FlexFit’s Auto-Adjusting design allows you to order custom diameters from 15.5mm to 17.0mm in .1mm increments while maintaining desired apical clearance.
  - Incremental adjustments to the fit can be accomplished through changes to the Central Clearance, Peripheral Corneal Clearance, Limbal Clearance and Scleral Landing Zones.
  - Available in a front surface toric design.

- **Dual Depth Periphery™**
  - This feature allows ICD FlexFit™ to land appropriately on the sclera, delivering:
    - Rotational stability
    - Extended wear time
    - Improved lens comfort

### REGULAR CORNEAS

14.8mm

- **Auto Adjusting Features**
  - FlexFit diameter from 14.5mm to 15.5mm in .1mm increments to maintain apical clearance.
  - Innovative scribe mark technology on trial lenses ensures quick, accurate limbal clearance.

**ICD™**

The original ICD Family of Lens Designs has been an optimal treatment suitable for a wide range of patients.
Scleral

**INFINITY SCLERAL**

ABB OPTICAL GROUP’s Infinity Scleral Lens assists with managing corneal irregularity such as keratoconus, corneal surgery, corneal transplants, trauma, or other corneal complication, including patients that have previously failed in corneal GP lenses. Very simple lens to use to get started fitting Scleral lenses.

**Design:** Spherical Back Optic Zone, Peripheral System Generated in Relation to Base Curve, Edge Lift Options available as needed, Limbal Relief Zone (2 optical zones, average and large)

**Parameter Range:** BC Range: 5.60 mm to 8.50 mm, Average or Large (Limbal Relief) Optical Zones, Diameter Range: 14.5 mm to 18.2 mm, Standard Diameter: 16.0 mm, Back Vertex Power

**DYNA SCLERAL**

The Dyna Family designs incorporates scleral designs for irregular cornea fitting and therapeutic conditions. This design is especially helpful for therapeutic needs like severe dry eye syndrome and Stevens-Johnson syndrome. This design has spherical front and back surfaces with a spherical, multi-curve PC system. It is designed to completely vault the cornea and allows for a comfortable fit. No touch should be observed on the cornea. Typically, the diameter should be about 1.5 mm larger than the cornea. Diameters of 16.1 to 20.5 mm should accomplish this.

Lenses are Plasma Treated and available in premium high DK materials of your choice: Bitoric - Back Toric - Front Toric – Multifocal – Quad Sym Edge Treatment

<table>
<thead>
<tr>
<th>Diameter/BOZ</th>
<th>16.1/9.4 – 16.5/9.4 – 17.0/11.0 – 17.5/11.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>18.0/11.0 -18.5/11.0 – 19.0/11.0 – 20.0/.11.0</td>
</tr>
<tr>
<td><strong>Base Curve</strong></td>
<td>5.50 mm to 8.50 mm in .05 mm steps</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>+12.00 to -20.00</td>
</tr>
<tr>
<td><strong>Edge Lift</strong></td>
<td>Increased and decreased as needed in steps.</td>
</tr>
<tr>
<td></td>
<td>Quad Sym edge treatment available</td>
</tr>
</tbody>
</table>

**DYNA SEMI-SCLERAL**

DYNA Semi-Scleral design is a smaller version of the DYNA Scleral design. The design has spherical front and back surfaces with a spherical, multi-curve PC system. Diameters range from 12.6 to 16.0 mm. The diameter of this lens should be about 3.0 mm larger than the cornea in this design.

Lenses are Plasma Treated and available in premium high DK materials of your choice: Bitoric - Back Toric - Front Toric – Multifocal – Quad Sym Edge Treatment

<table>
<thead>
<tr>
<th><strong>Diameters</strong></th>
<th>12.6 mm to 16.0 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Base Curve</strong></td>
<td>5.50 mm to 8.50 mm in .05 mm steps</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>+10.00 to -20.00</td>
</tr>
<tr>
<td><strong>Edge Lift</strong></td>
<td>Increased and decreased as needed in steps.</td>
</tr>
<tr>
<td></td>
<td>Quad Sym edge treatment available</td>
</tr>
</tbody>
</table>
**Scleral**

**EUROPA SCLERAL**

Using the platform of the very popular Jupiter Scleral lens, the Europa Scleral lens is designed to optimize fit, comfort, and vision as well as to simplify the fitting process. Performance is maximized in 3 ways:

**LARGER OPTIC ZONE**
Increases the overall sagittal depth of the lens to optimize corneal clearance.

**MID-PERIPHERAL REVERSE CURVE**
Successful fitting for prolate and oblate corneas with a single lens fitting set.

**ENHANCED HAPTIC PROFILE**
Significantly reduces compression and lens tightening.

Successfully managing patients with a wide range of irregular corneal conditions and OSD. Efficient and easy-to-fit lens with advanced customization options, when needed.

**CUSTOMIZE FOR ALL EYES. MODIFY FIT IN EVERY PARAMETER**
front surface toric • toric haptics • center thickness • optic zone • peripheral curves

<table>
<thead>
<tr>
<th>Full Customization</th>
<th>Base Curve, Sag, Power, CT, Peripheral Curve</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toric Haptic</td>
<td>up to 800µ in 50µ steps</td>
</tr>
<tr>
<td>Diameter</td>
<td>15.0 - 22.0mm</td>
</tr>
<tr>
<td>Material</td>
<td>Full range of material (Dk 100 - 200)</td>
</tr>
<tr>
<td>Plasma</td>
<td>All lenses are plasma-treated</td>
</tr>
<tr>
<td>Hydra-PEG</td>
<td>Tangible Hydra-PEG available upon request</td>
</tr>
</tbody>
</table>

**SCLERAL ASYMMETRY**

- QUAD SPECIFIC
- MULTI-MERIDIAN
  - No limitations to the standard 90° quadrants

**SCLERAL OBSTACLES**

- NOTching
- PRECISION LIFT
  - Notch (around) & Precision Lift (vault over)

**OPTICAL PERFORMANCE: PRESBYOPIA | FRONT & BACK TORICITY**

- Presbyopia Add Power: +1.00 to +3.50D in 0.50D steps
- Presbyopia Add Zone:
  - 2 mm near (or distance) center zone
  - 1.0 to 3.5mm in steps of 0.5mm

*Bi-Toric  Toricity can be added on both front & back of lens*

**20 LENS FITTING SETS AVAILABLE**
Scleral

ELARA SCLERAL
The Elara lens is designed for the regular cornea. With an increased corneal zone design that allows the lens to successfully vault small to large corneal diameters, it offers:

**ESSENTIAL HYDRATION**
Providing relief with a liquid reservoir continuously hydrating the cornea surface.

**CONTINUOUS COMFORT**
Wears all day with complete comfort.

**OPTIMIZED VISION**
Provides the clear, crisp vision of a GP lens.

Successfully managing OSD & patients who have failed with traditional GP or Soft lenses.

**Elara for Presbyopia** is available in a concentric bifocal design with a center near (or distance) front surface.

12 LENS FITTING SET AVAILABLE

JUPITER SCLERAL
The Jupiter 15mm and 18mm series lenses have 5 curves organized into 3 zones: corneal zone, limbal zone, and scleral zone. The Jupiter series comes in three configurations to address different corneal geometries by varying the posterior design.

**STANDARD DESIGN**
The central corneal curve has a slightly steeper radius than the peripheral corneal curve. Most cases of corneal irregularity (keratoconus, post-surgical, etc.) are fit with the Standard Design.

**ADVANCED KERATOCONIC DESIGN**
The central curve is relatively STEEPER than the peripheral corneal curve.

**REVERSE GEOMETRY DESIGN**
The central curve is relatively FLATTER than the peripheral corneal curve.

Successfully managing patients with a wide range of irregular corneal conditions and OSD. Full range of Visionary Optics’ customization options are available.

14 LENS FITTING SETS AVAILABLE
Scleral

ATLANTIS SCLERAL

Atlantis™ Scleral, the easiest to fit scleral lens on the market, comes as easy as 1-2-3. The Atlantis fitting philosophy is based on the premise of customizing the lens fit by manipulating 3 zones to control the sagittal height relationship of the lens to the anterior ocular surface. The Atlantis design offers 3 proprietary zones, with each having a specific function that is independent of each other and offers a wide range of diameters (15.0 to 17.5) and sagittal heights.

The Atlantis product line continues to expand and now offers:

• Atlantis Multifocal, a unique bi-aspheric design that allows a controllable center distance zone resulting in superior distance, near, and intermediate vision
• Atlantis 3D-Vault, with Limbal Control Technology (More than oblate), a revolutionary enhancement which allows the limbal sag apex to be adjusted in/out or up/down optimizing peripheral clearance
• Front toric and toric scleral zone options
• Tangible™ Hydra-PEG custom contact lens coating, available on the entire Atlantis product line

Atlantis Scleral is indicated for the correction of many ocular conditions and sagittal depths. Atlantis was designed for both irregular and regular corneas.

<table>
<thead>
<tr>
<th>Base Curve</th>
<th>Diameter</th>
<th>Multifocal diameter options are 15.0, 16.0, and 16.5 only</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.50 mm to 9.12 mm</td>
<td>15.0</td>
<td></td>
</tr>
<tr>
<td>7.03 mm to 9.12 mm</td>
<td>16.0</td>
<td></td>
</tr>
<tr>
<td>7.18 mm to 9.12 mm</td>
<td>16.5</td>
<td></td>
</tr>
<tr>
<td>7.20 mm to 9.12 mm</td>
<td>17.0</td>
<td></td>
</tr>
<tr>
<td>7.45 mm to 9.12 mm</td>
<td>17.5</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Limbal Vault Zone</th>
<th>Standard, 1 Steep, 2 Steep, 1 Flat, 2 Flat, 3D Vault 1, 3D Vault 2, 3D Vault 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scleral Zone</td>
<td>Standard, 1 Flat, 2 Flat, 3 Flat, 1 Steep</td>
</tr>
<tr>
<td>Power</td>
<td>+20.00D to -20.00D in 0.25 steps</td>
</tr>
<tr>
<td>Toric Scleral Zone</td>
<td>Factor 1, Factor 2, Factor 3</td>
</tr>
<tr>
<td>Cylinder</td>
<td>-1.00D to -5.00D in 0.25 steps</td>
</tr>
<tr>
<td>Axis</td>
<td>Any</td>
</tr>
<tr>
<td>Multifocal Distance Zone Options</td>
<td>3.6, 4.0, 4.4</td>
</tr>
<tr>
<td>Multifocal Add Power</td>
<td>+0.75D to +4.00D</td>
</tr>
<tr>
<td>Material</td>
<td>Optimum Extra, Optimum Extreme Boston XO®, Boston XO2®, and Paragon HDS</td>
</tr>
</tbody>
</table>
Scleral

**AMPLEYE SCLERAL**

*Ampleye is a 4-Zone fully vaulting and completely customizable scleral lens ideal for:*
- All patients with irregular corneas
- Corneal GP intolerance
- Lens stability issues
- Presbyopes with regular or irregular corneas
- Patients with dry eye conditions or ocular surface disease - FDA Indicated!

**AMPLEYE LENS DESIGN FEATURES**
- Fitting by patient condition and not K-readings
- Independent zone control
- 16.5 mm optimal diameter - easy fit adjustments through full 15.0-17.0 mm range
- 9 lens diagnostic set with built-in toric haptic covers both prolate and oblate corneas
- HydroLock chamber secures fluid for soothing relief of DED/OSD symptoms
- Available with Tangible Hydra-Peg surface treatment for a further enhanced wearing experience!
- Front Toric option
- Quadrant Specific Control feature
- Front surface, center near, simultaneous vision multifocal available

<table>
<thead>
<tr>
<th>Parameter Availability</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sagittal Depth</td>
<td>3,800 um to 5,600 um (3,200 um to 4,800 um in 15.0/15.5 mm)</td>
</tr>
<tr>
<td>Base Curve</td>
<td>6.04 to 8.44; 1.00 = 50 um</td>
</tr>
<tr>
<td>Power</td>
<td>Made to Order</td>
</tr>
<tr>
<td>Diameters</td>
<td>16.5 mm standard; 15.0, 15.5, 16.0 &amp; 17.0 mm available</td>
</tr>
<tr>
<td>Cylinder Axis</td>
<td>10 to 180 in 10 steps</td>
</tr>
<tr>
<td>Thickness</td>
<td>.30 mm standard; in .01 mm steps</td>
</tr>
<tr>
<td>PCZ, LLZ, SLZ</td>
<td>Standard = 0; adjustable in 1.0 steps (25 um)</td>
</tr>
<tr>
<td>Multifocal Add</td>
<td>+1.00 to +3.50 (.25 steps)</td>
</tr>
<tr>
<td>Multifocal CN Zone</td>
<td>2.00 mm; adjustable from 1.00-4.00 mm in 0.50 mm steps</td>
</tr>
<tr>
<td>Material</td>
<td>Optimum Extra, Optimum Extreme; Boston XO®, Boston XO2®, and Paragon HDS</td>
</tr>
</tbody>
</table>
Scleral

**ZENLENS™**

Zenlens™ scleral lens, co-designed with Jason Jedlicka, OD, FAAO, FSLS, fully vaults the cornea and allows you to fit a wide variety of corneal shapes and sizes using a single fitting set and fitting philosophy. It offers you:

- Lens diameters of 16.0 mm and 17.0 mm - appropriate for a wide range of corneal sizes
- Prolate and oblate designs to fit a wide range of corneal shapes
- SmartCurve™ technology: modify only the parameter you want, not the ones you don’t
- Custom design options to fine-tune optics and physical fit
- A comprehensive 28-lens diagnostic set for efficient fitting

**ZEN™ RC**

Get all the benefits of Zenlens™ scleral lenses in a smaller diameter. The Zen™ RC lens gives you a scleral lens option for regular corneas. Purposely built for the normal cornea where excessive diameter and vault are unnecessary, Zen™ RC provides a smaller diameter for easy patient insertion and removal, plus a reduced nominal center thickness designed specifically for this emerging segment.

- Lens diameters of 14.8 mm and 15.4 mm to fit a wide range of normal corneal sizes
- One profile design
- Reduced nominal center thickness to increase oxygen transmission
- SmartCurve™ technology: simplify your fitting by modifying only the parameter you want, not the ones you don’t

Zenlens™ and Zen™ RC are indicated for Ocular Surface Disease, including dry eye, and are featured in Boston XO® Materials with a Dk of 100; also available in Boston XO₂® with a Dk of 141.

**BOSTON XO® AND BOSTON XO₂®**

Boston XO® and Boston XO₂® materials have received FDA clearance for therapeutic use in ocular surface diseases. These two specific GP lens materials enable Zenlens™ and Zen™ RC scleral lenses to be utilized for certain ocular surface conditions, including those where the ocular surface may benefit from the presence of an expanded tear reservoir and the saline-hydrated environment inherent in a scleral lens design.
Scleral

Delivering Targeted Fitting

Key to the power of Zenlens™ is the ability to zero in on only the parameter modifications you need to make. When a parameter modification is made, the Zenlens™ scleral lens, with the SmartCurve™ design, automatically engages to ensure all other design attributes remain consistent. SmartCurve™ allows you to focus on only the parameter requiring modification (effective sag, base curve, limbal clearance curve or APS peripheral curves).

- Especially convenient when best fit Dx lens requires sag modification, as the BC remains constant so your over-refraction remains valid
- The SmartCurve™ will simplify your scleral fitting
- Whether you’re experienced in the art of scleral lens fitting or considering adding scleral lenses to your practice, make Zenlens™ your go-to scleral lens

MicroVault™ Technology

We use CAD/CAM technology, instead of traditional hand notching, to fully vault the lens over elevations that might interfere with a proper landing.

5000 sag
4800 sag (standard)
4600 sag

SmartCurve™ Technology

Simplify your fitting.
Modify only those parameters that need to change.

The SmartCurve™ in action, ensures only intentional changes to lens fit.

Zenlens™ and Zen™ RC

Straight. Forward. Technology.
For Straightforward Scleral Lens Fitting.
Orthokeratology

THE MYOPIA EPIDEMIC
More than just a vision issue, it’s a major health issue!

Rates of myopia are increasing at alarming rates worldwide. Clinical studies show that in the United States myopia has increased by 66%, since 1971. Recent global projections suggest that by 2050, up to 5 billion people—50% of the world’s population will be myopic.

While many consider myopia a harmless visual inconvenience, it is not. Myopia in children is of special concern as onset of the disease can begin as early as age 6, and carries with it a host of short and long-term complications such as:

- Impaired ability to learn
- Retinal detachment
- Premature cataracts
- Glaucoma

Discover how Paragon Vision Sciences’ CRT® and CRT Dual Axis® lenses are helping fight this global epidemic and, at the same time, giving patients freedom from glasses and daytime contacts.

CONSIDER THE FACTS

SCIENCE: The only lens design featuring Proximity Control Technology™ which allows each parameter to be changed... INDEPENDENTLY.

SAFETY: Over 1.5 million lenses have been prescribed in over 50 countries worldwide.

EFFICACY: In a study where 296 patients were followed over 4 years of PARAGON CRT® lens wear, 84% had an average acuity of 20/25, or better, in each eye.

Orthokeratology

**PARAGON CRT® CONTACT LENS**

Setting the Global Standard in Ortho-K

Paragon CRT® Contact Lenses are innovative corneal refractive therapy lenses that offer patients a non-surgical treatment option to correct their myopia.

Paragon CRT® lenses are worn overnight and gently correct the curvature of the patient’s cornea, resulting in a corneal shape that focuses light properly onto the back of the retina. When the contact lenses are removed in the morning patients can see clearly throughout the day without the use of glasses or daytime contacts. Paragon CRT® lenses can be customized in a variety of aspects. Of important note is Ortho-K lenses like Paragon CRT® may manage the progression of myopia.

**The System That Works**

- Fitting and dispensing Paragon CRT® lenses is quick and accurate with Paragon’s unique Diagnostic Dispensing System (DDS). Fit up to 80% of your Rx’s during the patient’s first visit. Fit faster and reduce chair time with Paragon’s DDS.

**PARAGON CRT DUAL AXIS®**

Enhance Your Fitting Success with Astigmatic Patients

Studies prove that all corneas have elevation differences. It’s a fact that spherical designs can only be effective on corneas with lower elevations at a given chord length. These fundamental challenges are addressed with Paragon CRT Dual Axis®.

CRT Dual Axis® Proximity Control Technology™, which allows independent manipulation without affecting the base curve radius of a second RZD/LZA. CRT Dual Axis® lenses are engineered to automatically rotate and properly situate on the cornea improving ease of application for your patients and proper centration.

The diagrams below demonstrate how CRT Dual Axis® provides an effective fit and optimal treatment zone for astigmatic patients.
Orthokeratology

EMERALD

Reshape the way patients see

Emerald contact lenses are FDA approved and provide easy vision correction by gently re-shaping the cornea overnight while the patient sleeps. It is safe, reversible, and has been successfully fit on almost a million eyes around the globe with outstanding results.

Advanced corneal reshaping made simple

- Simple fitting with only Rx, Keratometry and HVIS needed
- Empirically Fit- no trial lenses required

<table>
<thead>
<tr>
<th>UNIQUE MULTI-ZONE DESIGN</th>
</tr>
</thead>
<tbody>
<tr>
<td>BACK OPTIC ZONE RADIUS</td>
</tr>
<tr>
<td>REVERSE CURVE</td>
</tr>
<tr>
<td>ALIGNMENT ZONE</td>
</tr>
<tr>
<td>PERIPHERAL CURVE</td>
</tr>
</tbody>
</table>

Empirically Fit. Clinically Proven. Outstanding Results.
SynergEyes® Hybrid Contact Lenses

**ASTIGMATISM**

**DUETTE**
The unique advanced-technology Duette hybrid contact lens is ideal for patients with astigmatism. Lens design has a dual aspheric GP center with a silicone hydrogel soft skirt.

**SYNERGEYES A**
First hybrid contact lens with FDA clearance specifically designed for patients with high astigmatism or mildly irregular corneas.

**PRESBYOPIA**

**DUETTE PROGRESSIVE**
Providing a seamless progression of power from near to distance, a choice of three add powers gives each patient a personalized solution for their vision needs.

**DUETTE MULTIFOCAL**
Add power for the Duette Multifocal contact lens is a single progressive Add zone, with a small and large add zone.

**SYNERGEYES MULTIFOCAL**
Add powers for SynergEyes Multifocal lenses are +0.75 D, +1.25 D, +1.75 D, +2.25 D, with a 100 DK GP center and a Hema soft skirt.

**IRREGULAR CORNEA**

**ULTRAHEALTH CONTACT**
2nd generation UltraHealth contact lens is indicated for patients with Keratoconus, as well as many other irregular corneas. GP lens center, with a silicone hydrogel soft skirt, designed to vault the corneal ectasia.

**CLEAR KONE CONTACT LENSES**
Clear Kone lenses are the first FDA cleared hybrid contact lenses specifically designed for keratoconus and other corneal irregularities. 100 DK GP lens center, with a Hema soft skirt.

**ULTRAHEALTH FC**
The UltraHealth FC is an extension of the UltraHealth. It is indicated for eyes with refractive errors resulting from corneal surgery or trauma including hyperopia, myopia, astigmatism and irregular astigmatism. The design works well with oblate corneas that may need more peripheral lift. Aspheric, reverse geometry vaulted lens design.

**SYNERGEYES KC**
First hybrid contact lens with FDA clearance specifically designed for patients with keratoconus.

**SYNERGEYES PS**
A hybrid contact lens that offers vision correction after having surgery.
KERASOFT® IC / KERASOFT® THIN

Keracos IC and Keracos Thin silicone hydrogel lenses delivering comfort, health, and excellent visual acuity for your keratoconus and other irregular cornea patients. These soft contact lenses feature a front surface asphere or aspheric toric design. The patented design offers balanced overall thickness with spherical aberration control and two sectors of independently modifiable periphery – making it able to conform to the shape of any cornea.

**Lens Designs Features**

**FITTING SET PARAMETERS**
The standard Fitting Set is available with 8 x 14.5mm diameter lenses comprising:

- 6 x STD periphery  Base Curve 7.80 to 8.80 on 0.20 mm steps
- 1 x FLT2 periphery  Base Curve 8.20 (for Nipple Cones)
- 1 x STP2 periphery  Base Curve 8.60 (for post graft and other reverse geometry corneas)

It is possible to order a powered Keracos Thin lens design from Kerisoft IC Plano Trial Lens. However if a Keracos IC powered lens is ordered from Keracos Thin Plano Trial Lens the final lens may fit differently due to the thicker profile shape.

**DIAMETER & PERIPHERY GUIDE**

Keracos Thin’s increased flexibility improves drapage over the peripheral cornea. This reduces the need for peripheral changes, which can often be better managed by moving to a larger diameter lens. The guide below suggests where larger diameters or different peripheries may be appropriate. Fitting Lenses with different diameters or peripheries are available on request.

<table>
<thead>
<tr>
<th>CORNEAL TYPE</th>
<th>PERIPHERY</th>
<th>DIAMETERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central (mild to moderate)</td>
<td>Standard</td>
<td>14.50</td>
</tr>
<tr>
<td>Nipple Cone (advanced)</td>
<td>Flat 2 or Flat 3</td>
<td>14.50 &amp; 15.00</td>
</tr>
<tr>
<td>Low or Decentered Cone (mild to moderate)</td>
<td>Standard</td>
<td>14.50 &amp; 15.00</td>
</tr>
<tr>
<td>Low or Decentered Cone (advanced)</td>
<td>SMC (STD:STP1 or STD:STP2)</td>
<td>14.50 &amp; 15.00</td>
</tr>
<tr>
<td>Post-graft</td>
<td>post-refractive surgery</td>
<td>Standard</td>
</tr>
<tr>
<td>Complex post-graft</td>
<td>post-refractive surgery</td>
<td>Steep 2 or SMC design</td>
</tr>
</tbody>
</table>
**KERASOFT® THIN**

**ULTRA-THIN DESIGN DELIVERS ENHANCED PERIPHERAL FIT**
Kerasoft Thin’s unique, thinner design increases lens flexibility, allowing it to drape better over the peripheral cornea. This directly reduces the need for peripheral changes on complex corneas such as Post Graft and Nipple Cones. Compared to thicker soft lens designs, Kerasoft Thin is quicker and easier to fit, reducing chair time.

**COMPLEX CASES BENEFIT FROM UNIQUE KERASOFT THIN DESIGN**
Research and development has proven that fitting thin can provide optimal VA together with lifestyle enhancing comfort for even the very complex corneas. Improved drapage reduces tear pooling under the lens which in turn stabilizes visual acuity.

**THINNER LENSES DELIVER INCREASED OXYGEN TO THE CORNEA**
Increased oxygen supply helps maintain a healthy cornea – particularly important for Post graft cases. Many cases of keratoconus require high minus powers which adds overall thickness to the final powered lens. Kerasoft Thin works to reduce this thickness and therefore improves wearing time.

**Why choose thin? On-Eye Investigation**
Kerasoft Thin has approximately half the center thickness (0.20CT) of Kerasoft IC, making it the thinnest soft specialty contact lens for Irregular Corneas. An internal study was conducted to compare the two designs for on-eye-performance. The majority of subjects had keratoconus and a small number of patients with PMD / INTACS /Post Graft were also included. All had already been successfully fitted with Kerasoft IC lenses and wearing them for several months. New lenses of both designs, using the same parameters were issued to each subject.

**RESULTS**
70% of subjects returned wearing Kerasoft Thin as their preferred lens type. 20% reported they found no difference between designs and returned wearing their original Kerasoft IC lenses. 10% reported that they preferred their original Kerasoft IC design.

**VISUAL ACUITY**
All subjects had unchanged or improved VA with the Kerasoft Thin design.

**COMFORT**
On comparing overall comfort between the two designs, all subjects felt that comfort was either equal to (17%) or superior to (83%) with Kerasoft Thin compared to Kerasoft IC design.

**CONCLUSION OF STUDY**
Comparison of both lens designs in this study demonstrated that the reduced thickness of Kerasoft Thin improves VA and comfort for most irregular conditions without impacting negatively on fit.
**Signature Lens Designs**

**DEFINITIVE**

Definitive custom specialty contact lenses are made in the silicone hydrogel 60Dk, 74% H2O Definitive™ material. With an exclusive blend of fluorosilicone and hydrophilic monomers, these lenses offer some of the highest oxygen permeability. These custom soft silicone hydrogel lenses are FDA approved for spherical, toric, multifocal, multifocal toric and irregular cornea indications for use. The Definitive custom specialty contact lenses deliver excellent optical performance and extraordinary on-eye comfort.

<table>
<thead>
<tr>
<th>Definitive Family of Lenses</th>
<th>BC</th>
<th>Diameter</th>
<th>Power</th>
<th>Cylinder</th>
<th>Axis</th>
<th>Add</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Definitive Sphere</strong></td>
<td>8.1 to 9.2 mm .1 steps Standard 8.3, 8.6, 8.9</td>
<td>14.0 to 15.0 mm .1 steps Standard 14.2, 14.5</td>
<td>+10.00 to -10.00D .25D steps</td>
<td>8.6, 8.9, 9.2</td>
<td>15.0</td>
<td></td>
</tr>
<tr>
<td><strong>Definitive MTO Sphere</strong></td>
<td>6.5 to 11.5 mm .1 steps</td>
<td>10.0 - 16.0 mm .1 steps</td>
<td>+20.00 to -20.00D .25D steps</td>
<td>8.6, 8.9, 9.2</td>
<td>15.0</td>
<td></td>
</tr>
<tr>
<td><strong>Definitive Toric</strong></td>
<td>8.1 to 9.2 mm .1 steps Standard 8.3, 8.6, 8.9</td>
<td>14.0 to 15.0 mm .1 steps Standard 14.2, 14.5</td>
<td>+10.00 to -10.00D .25D steps</td>
<td>8.6, 8.9, 9.2</td>
<td>15.0</td>
<td></td>
</tr>
<tr>
<td><strong>Definitive MTO Toric</strong></td>
<td>6.5 to 11.5 mm .1 steps</td>
<td>10.0 - 16.0 mm .1 steps</td>
<td>+20.00 to -20.00D .25D steps</td>
<td>8.6, 8.9, 9.2</td>
<td>15.0</td>
<td></td>
</tr>
<tr>
<td><strong>Definitive Multifocal</strong></td>
<td>Standard 8.1, 8.4, 8.7 mm</td>
<td>Standard 14.2, 14.5 mm</td>
<td>+10.00 to -10.00D .25D steps</td>
<td>8.6, 8.9, 9.2</td>
<td>15.0</td>
<td></td>
</tr>
<tr>
<td><strong>Definitive MTO Multifocal</strong></td>
<td>7.5 to 9.6 mm .3 steps</td>
<td>13.5 - 15.5 mm .3 steps</td>
<td>+10.00 to -20.00D .25D steps</td>
<td>8.6, 8.9, 9.2</td>
<td>15.0</td>
<td></td>
</tr>
<tr>
<td><strong>Definitive Multifocal Toric</strong></td>
<td>Standard 8.4, 8.7, 9.0 mm</td>
<td>Standard 14.2, 14.5 mm</td>
<td>+10.00 to -10.00D .25D steps</td>
<td>8.6, 8.9, 9.2</td>
<td>15.0</td>
<td></td>
</tr>
<tr>
<td><strong>Definitive MTO Multifocal Toric</strong></td>
<td>7.5 to 9.6 mm .3 steps</td>
<td>13.5 - 15.5 mm .3 steps</td>
<td>+10.00 to -20.00D .25D steps</td>
<td>8.6, 8.9, 9.2</td>
<td>15.0</td>
<td></td>
</tr>
</tbody>
</table>

Please call our Consultation department regarding any parameters not listed above.

<table>
<thead>
<tr>
<th>Single Lens</th>
<th>Lenses are fully warranted 100 days/100% credit on returned lenses</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 PK</td>
<td>Requires a single lens purchase with same parameters. The 3-pk and single lens(es) are non-warranted</td>
</tr>
<tr>
<td>4 PK</td>
<td>Quarterly replacement are non-warranted</td>
</tr>
</tbody>
</table>
DEFINITIVE MULTIFOCAL AND DEFINITIVE MULTIFOCAL TORIC

The Definitive Multifocal and Multifocal Toric lens is a patented lens design with a unique central near zone, comprising concentric zones which accommodate changes in lighting as well as near, intermediate and distance vision.

- The base curve geometry is made up of a spherical optic zone and an aspheric periphery
- Unique aspheric front curve has multi-optic zones
- A back toric design with prism ballast, marked with an engraved dot at 270°

### Lens Specifications

<table>
<thead>
<tr>
<th>Material</th>
<th>Efrosilicon A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Content</td>
<td>74%</td>
</tr>
<tr>
<td>Handling Tint</td>
<td>Visi-Standard, Clear (upon request)</td>
</tr>
<tr>
<td>Visible Light Transmission</td>
<td>99.3%</td>
</tr>
<tr>
<td>Modulus (MPa)</td>
<td>0.35</td>
</tr>
<tr>
<td>Base Curve</td>
<td>7.5mm – 9.3mm in .3 steps</td>
</tr>
<tr>
<td></td>
<td>8.1, 8.4, 8.7 mm Standard Multifocal BC</td>
</tr>
<tr>
<td></td>
<td>8.4, 8.7, 9.0 mm Standard Multifocal Toric BC</td>
</tr>
<tr>
<td>Standard Diameter</td>
<td>14.2 &amp; 14.5mm</td>
</tr>
<tr>
<td>Diameter Range (available upon request)</td>
<td>13.5mm - 15.5mm</td>
</tr>
<tr>
<td>Center Thickness</td>
<td>0.15mm @ -3.00DS</td>
</tr>
<tr>
<td>Optic Zone</td>
<td>8.00mm @ -3.00DS</td>
</tr>
<tr>
<td>Oxygen Permeability (DK)</td>
<td>60.0 x 10^-11 @ 35°</td>
</tr>
<tr>
<td>Oxygen Transmissibility (DK/L)</td>
<td>40.5 x 10^-9 @ -3.00DS</td>
</tr>
<tr>
<td>Sphere Power</td>
<td>+10.00 to -20.00 in 0.25DS Steps</td>
</tr>
<tr>
<td>Add</td>
<td>Low Add up to +2.25DS</td>
</tr>
<tr>
<td></td>
<td>High Add up to +2.75DS</td>
</tr>
<tr>
<td>Cylinder Power</td>
<td>Up to -4.50D</td>
</tr>
<tr>
<td>Axis</td>
<td>Any</td>
</tr>
<tr>
<td>Packaging</td>
<td>Vial, 3-pk, 4-pk</td>
</tr>
</tbody>
</table>

The Definitive Multifocal and Definitive Multifocal Toric lenses are manufactured from a new generation of silicone hydrogel material that increases ocular health. These lenses are produced utilizing advanced C.N.C. diamond turning machines for greater accuracy and repeatability.
### Signature Lens Designs

**CONCISE CUSTOM**

Our family of CONCISE CUSTOM soft signature lens designs consists of Sphere, Toric, Multifocal, Toric Multifocal, and Keratoconus.

<table>
<thead>
<tr>
<th><strong>SPHERE</strong></th>
<th>BC</th>
<th>Diameter</th>
<th>Power</th>
<th>Cylinder</th>
<th>Axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCISE SPHERE</td>
<td>8.0 to 9.2 mm</td>
<td>.1 steps Standard 8.3, 8.6, 8.9</td>
<td>14.0 to 15.0 mm</td>
<td>.1 steps Standard 14.2, 14.5,</td>
<td>+10.00 to -10.00D .25D steps</td>
</tr>
<tr>
<td>CONCISE MTO SPHERE</td>
<td>8.6, 8.9, 9.2</td>
<td>15.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONCISE MTO SPHERE</td>
<td>6.5 to 11.5 mm</td>
<td>.1 steps</td>
<td>10.0 to 16.5 mm</td>
<td>.1 steps</td>
<td>+20.00 to -20.00D .25D steps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>TORIC</strong></th>
<th>BC</th>
<th>Diameter</th>
<th>Power</th>
<th>Cylinder</th>
<th>Axis</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCISE TORIC</td>
<td>8.0 to 9.2 mm</td>
<td>.1 steps Standard 8.3, 8.6, 8.9</td>
<td>14.0 to 15.0 mm</td>
<td>.1 steps Standard 14.2, 14.5</td>
<td>+10.00 to -10.00D .25D steps</td>
</tr>
<tr>
<td>CONCISE MTO TORIC</td>
<td>8.6, 8.9, 9.2</td>
<td>15.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CONCISE MTO TORIC</td>
<td>6.5 to 11.5 mm</td>
<td>.1 steps</td>
<td>10.0 to 16.5 mm</td>
<td>.1 steps</td>
<td>+20.00 to -20.00D .25D steps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>MULTIFOCAL</strong></th>
<th>BC</th>
<th>Diameter</th>
<th>Power</th>
<th>Cylinder</th>
<th>Axis</th>
<th>Add Power</th>
<th>Distance Zones</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCISE MULTIFOCAL</td>
<td>8.4, 8.6 mm</td>
<td>14.5 mm</td>
<td>+6.00 to -8.00D .25D steps</td>
<td></td>
<td>+0.50 to +3.00D .25D steps</td>
<td>1.5, 1.9, 2.18 or 2.50 mm</td>
<td></td>
</tr>
<tr>
<td>CONCISE MULTIFOCAL MTO</td>
<td>7.8 to 10.0 mm</td>
<td>.1 steps 13.0 to 16.0 mm</td>
<td>+20.00 to -20.00D .25D steps</td>
<td></td>
<td>+0.50 to +3.50D .25D steps</td>
<td>1.5, 1.9, 2.18 or 2.50 mm</td>
<td></td>
</tr>
<tr>
<td>CONCISE TORIC MULTIFOCAL</td>
<td>8.4, 8.6 mm</td>
<td>14.5 mm</td>
<td>+4.00 to -7.00D .25D steps</td>
<td>-0.75 to -3.00D</td>
<td>Any</td>
<td>+0.50 to +3.00D .25D steps</td>
<td>1.5, 1.9, 2.18 or 2.50 mm</td>
</tr>
<tr>
<td>CONCISE TORIC MULTIFOCAL MTO</td>
<td>7.8 to 10.0 mm</td>
<td>.1 steps 13.0 to 16.0 mm</td>
<td>+20.00 to -20.00D .25D steps</td>
<td>-0.50 to -8.00D</td>
<td>Any</td>
<td>+0.50 to +3.50D .25D steps</td>
<td>1.5, 1.9, 2.18 or 2.50 mm</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>KERATOCONUS</strong></th>
<th>BC</th>
<th>Diameter</th>
<th>Power</th>
<th>Cone Alignment Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONCISE K</td>
<td>8.6 mm</td>
<td>14.5, 15.0 mm</td>
<td>Plano to -20.000 .25D steps</td>
<td>Sag Depth Series A-D Series A= Emerging cone / Series D Mature cone</td>
</tr>
<tr>
<td>CONCISE K MTO</td>
<td>Custom Parameters available outside of parameters listed above. Toric not available at this time.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

**Standard material used is Methafilcon A 55%.** Also available in Benz 49% and Polymacon 38%. Colors are Standard Clear and in Visibility Tint upon request.

<table>
<thead>
<tr>
<th><strong>Single Lens</strong></th>
<th><strong>3 PK</strong></th>
<th><strong>4 PK</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Lenses are fully warranted 100 days/100% credit on returned lenses</td>
<td>Requires a single lens purchase with same parameters. The 3-pk and single lens(es) are non-warranted</td>
<td>Quarterly replacement are non-warranted</td>
</tr>
</tbody>
</table>
Signature Lens Designs

**CONCISE COLORS**

CONCISE Colors cosmetic and prosthetic tinted contact lenses combine an advanced tint process with highly customized lens designs that allow almost any patient to be fit in natural opaque tints. The exceptional custom lens designs feature a unique stabilization property and offer full custom parameters to easily deliver remarkable results.

**CONCISE Colors Tint Range**

Select from 16 beautiful tint colors along with starburst and/or limbal ring feature options:

![Tint Colors](image)

**CONCISE Colors Colorblends**

CONCISE Colors feature a proprietary processing technique developed by Orion Vision Group utilizing sub-micron size pigments. This revolutionary process results in an incredibly smooth, vibrant pigment layer, and delivers outstanding comfort. In addition to base tint options, at no additional charge, you may choose a starburst effect, limbal ring, or both for blending to a natural eye color.

![Colorblends](image)

**BASE CURVE SELECTION CHART**

<table>
<thead>
<tr>
<th>Average K</th>
<th>Lens Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.5 &amp; Smaller</td>
<td>14.0 &amp; 14.5</td>
</tr>
<tr>
<td>50</td>
<td>7.7</td>
</tr>
<tr>
<td>49</td>
<td>7.7</td>
</tr>
<tr>
<td>49</td>
<td>8.0</td>
</tr>
<tr>
<td>47</td>
<td>8.0</td>
</tr>
<tr>
<td>46</td>
<td>8.0</td>
</tr>
<tr>
<td>45</td>
<td>8.0</td>
</tr>
<tr>
<td>44</td>
<td>8.0</td>
</tr>
<tr>
<td>43</td>
<td>8.0</td>
</tr>
<tr>
<td>42</td>
<td>8.0</td>
</tr>
<tr>
<td>41</td>
<td>8.0</td>
</tr>
<tr>
<td>40</td>
<td>8.0</td>
</tr>
<tr>
<td>39</td>
<td>8.0</td>
</tr>
<tr>
<td>38</td>
<td>8.0</td>
</tr>
</tbody>
</table>

**TINT SPECIFICATIONS**

- **Iris Diameter**: 12.25
- **Limbal Diameter**: 12.75
- **Clear Pupil**: 2.8, 3.3, 4.2, 5.0, 5.5, 6.0 (4.2 standard)
- **Cosmetic Feature Options**:
  - Starburst
  - Limbal Ring
  - Starburst and Limbal Ring
ROSE K2 SOFT™

The comfort of a soft lens, the simplicity of ROSE K.

ROSE K2 Soft is a daily wear soft lens for irregular corneas. ROSE K2 Soft is a 3 month replacement lens manufactured from a silicone hydrogel material.

**Primary indications:** Intolerance to GP lenses, new contact lens wearers with irregular corneas, early to moderate irregular corneas, if acuity with conventional soft lenses is unsatisfactory, if the environment is unsuitable for GP wear, if a GP lens may be unstable, e.g. sport.

**DESIGN FEATURES**
- ROSE K2 Soft uses the same simple, proven 5-step fitting method common to all ROSE K designs
- ROSE K2 Soft features an aspheric back optic zone, front surface toricity and front surface aberration control for optimal visual acuity.
- ROSE K2 Soft offers precise edge lift control, prism ballast stabilization and reverse geometry for a trouble-free fit.

<table>
<thead>
<tr>
<th>Parameter Availability</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Base Curve</strong></td>
<td>7.40 to 9.00 in 0.20 increments</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>-30.00D to +30.00D in 0.25D increments</td>
</tr>
</tbody>
</table>
| **Diameters**          | 14.30 to 15.30mm in 0.10 increments  
                         | Standard diameter: 14.80 mm |
| **Cylinder**           | -0.25D to -10.00D in 0.25D increments |
| **Cylinder Axis**      | 0° to 180° in 1° increments |
| **Center Thickness**   | 0.25mm to 0.60mm in 0.01 steps  
                         | Standard Centre Thickness: 0.35mm |
| **Edge Lifts**         | **5 Options:**  
                         | Standard (0)  
                         | Standard Increased (+1.0)  
                         | Double Increased (+2.0)  
                         | Standard Decreased (-1.0)  
                         | Double Decreased (-2.0)  |
| **Material**           | Contamac Definitive 74 (efrofilcon A): Water content 74%, Dk 60, handling tint |
**NOVAKONE**

**Soft Contact Lens for Keratoconus**

The NovaKone® custom soft lens design is specifically for the keratoconic eye, with advanced design features and flexible parameters that give you precise fitting control. NovaKone® offers the comfort of a soft lens, custom parameters, including cylinder correction to -10.00D. NovaKone® soft lenses can be a viable solution for many stages of keratoconus and are an alternative for patients who have failed to tolerate GPs or hybrids.

- Dual Elliptical Stabilization™
- Cylinder powers to -10.00D, to help address residual astigmatism
- Variable lens center thickness to help neutralize irregular astigmatism
- Indicated for patients with keratoconus
- Well-suited for cases where corneal GPs or hybrids have not been tolerated

**ALDEN HP 49 & ALDEN HP 59**

These specialty contact lenses are available in almost any base curve or diameter. Choose from a wide range of sphere powers, cylinder powers and axes. Choose from annual, quarterly, bi-monthly, or monthly replacement schedules.

- A soft lens for high power prescriptions or astigmatism
- Broad range of sphere powers, cylinder powers and axes
- Available in a wide range of base curves or diameters
- 15 and 24 Dk options to meet specific patient needs

**ASTERA®**

**Multifocal Toric**

The ASTERA® Multifocal Toric lens provides you with fitting flexibility for your presbyopes who would benefit from a custom lens prescription and astigmatism correction. This lens is designed to give you the ability to adjust near and distance parameters independently, and ADD profiles to fit a wide range of patients.

- A soft lens for presbyopes
- Dual Elliptical Stabilization™
- Aspheric multifocal design for vision at near, intermediate and distance
# Materials & Lens Designs

ABB OPTICAL GROUP manufactures the industry’s most exclusive brands of custom gas permeable and custom soft contact lenses for your patients.

<table>
<thead>
<tr>
<th>GP Materials</th>
<th>Dk/L</th>
<th>Specific Gravity</th>
<th>Wetting Angle</th>
<th>GP Materials</th>
<th>Dk/L</th>
<th>Specific Gravity</th>
<th>Wetting Angle</th>
</tr>
</thead>
<tbody>
<tr>
<td>PARAGON HDS100</td>
<td>101</td>
<td>1.10</td>
<td>42°</td>
<td>BOSTON X02</td>
<td>141</td>
<td>1.19</td>
<td>38°</td>
</tr>
<tr>
<td>PARAGON HDS</td>
<td>40</td>
<td>1.16</td>
<td>14.7°</td>
<td>BOSTON X0</td>
<td>100</td>
<td>1.27</td>
<td>49°</td>
</tr>
<tr>
<td>PARAGON THIN</td>
<td>23</td>
<td>1.15</td>
<td>12.8°</td>
<td>BOSTON E0</td>
<td>58</td>
<td>1.23</td>
<td>49°</td>
</tr>
<tr>
<td>FLUOROPERM 92</td>
<td>64</td>
<td>1.10</td>
<td>16°</td>
<td>BOSTON ES</td>
<td>18</td>
<td>1.22</td>
<td>52°</td>
</tr>
<tr>
<td>FLUOROPERM 60</td>
<td>43</td>
<td>1.15</td>
<td>14.7°</td>
<td>BOSTON IV</td>
<td>19</td>
<td>1.10</td>
<td>17°</td>
</tr>
<tr>
<td>FLUOROPERM 30</td>
<td>30</td>
<td>1.14</td>
<td>12.8°</td>
<td>BOSTON II</td>
<td>12</td>
<td>1.13</td>
<td>20°</td>
</tr>
<tr>
<td>PARAPERM EW</td>
<td>50</td>
<td>1.07</td>
<td>26°</td>
<td>BOSTON EQUALENS</td>
<td>85</td>
<td>1.24</td>
<td>30°</td>
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<tr>
<td>PARAPERM 02</td>
<td>16</td>
<td>1.12</td>
<td>23.1°</td>
<td>BOSTON EQUALENS</td>
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<td>1.19</td>
<td>30°</td>
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<tr>
<td>OPTACRYL 60</td>
<td>14</td>
<td>1.13</td>
<td>25°</td>
<td>BOSTON ENVISION</td>
<td>58</td>
<td>1.23</td>
<td>49°</td>
</tr>
<tr>
<td>MENICON Z</td>
<td>163</td>
<td>1.20</td>
<td>24°</td>
<td>OPTIMUM EXTREME</td>
<td>125</td>
<td>1.155</td>
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<tr>
<td>MENICON Z ALPHA 1</td>
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<td>OPTIMUM EXTRA</td>
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<td>MENICON Z ALPHA 6</td>
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<td>OPTIMUM COMFORT</td>
<td>65</td>
<td>1.178</td>
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<tr>
<td>MENICON Z THIN</td>
<td>163</td>
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<td>24°</td>
<td>OPTIMUM CLASSIC</td>
<td>26</td>
<td>1.189</td>
<td>12°</td>
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<tr>
<td>BIONITE</td>
<td>163</td>
<td>1.20</td>
<td>24°</td>
<td>HYBRID FS</td>
<td>31</td>
<td>1.183</td>
<td>Immeasurable</td>
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<tr>
<td>ACUITY 100</td>
<td>111</td>
<td>1.27</td>
<td>23°</td>
<td>HEXA 100</td>
<td>113</td>
<td>1.27</td>
<td>49°</td>
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<td>1.24</td>
<td>29°</td>
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<tr>
<td>ACUITY 18</td>
<td>21</td>
<td>1.22</td>
<td>25°</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>ACUITY 85</td>
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<td>1.23</td>
<td>35°</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>SGP III</td>
<td>43.5</td>
<td>1.126</td>
<td>&lt;20°</td>
<td>GT LABS</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>SGP II</td>
<td>43.5</td>
<td>1.126</td>
<td>&lt;30°</td>
<td>FLUOREX 700</td>
<td>70</td>
<td>1.097</td>
<td>15.30°</td>
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<tr>
<td>SGP I</td>
<td>22</td>
<td>1.126</td>
<td>&lt;30°</td>
<td>FLUOREX 500</td>
<td>50</td>
<td>1.105</td>
<td>13.30°</td>
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<tr>
<td>HYDRO 02</td>
<td>50</td>
<td>1.146</td>
<td>&lt;5°</td>
<td>FLUOREX 300</td>
<td>30</td>
<td>1.13</td>
<td>12.60°</td>
</tr>
<tr>
<td>ACCUCON</td>
<td>25</td>
<td>1.16</td>
<td>25°</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**ABB Optical Group**

Manufacturers of the industry's most exclusive brands of custom gas permeable and custom soft contact lenses for your patients.
ABB OPTICAL GROUP Specialty Contact Lens Labs

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Alameda, CA 94502

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