An Industry Leader in GP Design and Manufacturing

Proudly Serving Eye Care Professionals Since 1986
About ABBA

ABBA Optical, located in Stone Mountain, Georgia, was founded in 1986 by Lee & Marie Dickerson. ABBA began business exclusively manufacturing GP lenses and today offers a wide array of custom GP & soft lenses, supplies, accessories, equipment and pharmaceuticals. The concept of ABBA is a simple one; “Deliver more than we promise our customers.” ABBA provides outstanding customer service representation, unmatched quality of products, and a fast delivery time that exceeds customer expectations. The products we manufacture help people see the beautiful things GOD placed on the Earth. We take pride in our work, knowing that we are helping someone with one of the most precious gifts of GOD, the gift of sight.

Our Service

Even the best equipment and software cannot, and should not take the place of our most precious asset, our personnel. The Customer Service Representatives at ABBA are trained to help with designing lenses based on corneal topographical information and spectacle refraction, to help with lens material selection for various colors, DK values and wetting angles for GP lenses, water content in soft lenses, proper care systems and other aspects of lens selection. The Consultants at ABBA Optical are all qualified to assist our customers with more advanced cases such as Keratoconus, Corneal Reshaping, Post Corneal Grafts, Post Refractive Surgery, and highly irregular corneas as well as the more common presbyopic and astigmatic cases.

Our Lab

Specializing in custom lenses has kept ABBA on the forefront of technology. ABBA Optical has consistently reinvested back into the business, resulting in an automated process that takes advantage of the most technologically advanced equipment available. Using CNC Lathes with Air bearing Spindles, Air Linear Motion slides and Oscillating Tool Technology ABBA Optical produces lenses of virtually any geometry that can be expressed mathematically with exceptional accuracy and speed. Soft polishing techniques and water soluble blocking compounds adapted by ABBA compliment the production process allowing consistent results in a rapid and efficient manner. Orders for even the most complicated designs placed by 1:00pm are manufactured and shipped the same day.

Our Products

Over the years ABBA has developed a diverse product line of both GP and Soft Lenses. The ABBA-Kone is an aspheric design with varying eccentricity values that make fitting one of the most difficult conditions a rewarding event for both the Practitioner and the Patient. As our population grows, both in number and age, the number of presbyopic patients desiring contact lenses increases with each passing year. Managing Presbyopia is an important part of the Eye Care Professional’s daily schedule. Through evolving technology, ABBA developed four Aspheric Multifocals, three Translating Bifocals and a hybrid aspheric translating bifocal. The MVP Aspheric Multifocal, Custom Eyes Bifocal and the EZ Eyes hybrid lens are the most recent additions. Reverse Geometry lenses for post Refractive Surgery and Corneal Reshaping have been produced for years at ABBA. Comfort Zone and Advantage151 are aspheric, large diameter (10.0 and 10.5mm) lenses used for multiple applications ranging from early Keratoconus to 6 month planned replacement for routine myopia. Our Semi-Scleral Lens is a 13.5mm GP lens designed for severe cases of Keratoconus or other highly irregular Corneas, but the comfort and exceptional acuity provided by it have caused the Semi-Scleral Lens to be fit on more routine cases.

The ABBA-Soft and ABBA-Soft Toric are available in 27 different colors. ABBA-Soft Toric is produced with cylinders up to -10.00 Diopters with axis alignment in any meridian. ABBA Soft products are available in a convenient quarterly replacement program with risk free trials.
Single Vision

Count on ABBA to provide the most successful and popular designs of the past, present, and future. Whether your design calls for a Standard Tri-Curve or more complicated aspheric designs, ABBA can provide your patients with lenses manufactured according to your exact specifications with the best technology and most advanced polymer choices available.

Astigmatic

When you are looking for a lab that can quickly and consistently manufacture astigmatic designs, look no further than ABBA. In an industry where "24 to 48 hours" is the norm for shipping toric lenses, we take pride in offering our outstanding guarantee of same day shipping when you call us by 1:00pm EST for even the most advanced designs. Our toric lenses don't stop with single vision; we can make most of our multifocals and bifocals in toric designs, too.

**SPHERICAL DESIGNS:**
- Standard Peripheral Curves
- Custom Peripheral Curves
- Polycon II

**ASPERIC DESIGNS:**
- Comfort Zone (See Below)
- ADVANTAGE 151 (See Below)
- Ace & Trinity
- Custom Aspheres
- Panafocal

**TORIC DESIGNS:**
- Bi-Toric
- Toric Base
- Front Toric

Bridge the gap between initial comfort and first time lens wearers with Comfort Zone-5. It is the preferred choice for first time GP Lens wear. Initial comfort is a huge deciding factor to most patients who are coming out of soft or disposable lenses, or who have never had corrective lenses. Our aspheric design offers superior initial comfort, allowing your patient to see the benefits of GP Lenses right away: crisp, clear vision. Comfort Zone-5 is manufactured in Paragon HDS® material. You can also purchase the Clear Protection Plan for your GP wearers and give them affordable protection against lost or damaged lenses.

ADVANTAGE 151

ADVANTAGE 151 is the preferred choice for GP wearers desiring a planned replacement schedule. Manufactured in FluoroPerm 151 material, the concept of ADVANTAGE 151 provides an alternative to soft planned replacement or disposable lenses. It is the only planned replacement GP on the market and is replaced every six months.

Initial comfort is a huge deciding factor to most patients who are coming out of soft or disposable lenses, or who have never had corrective lenses. Our aspheric design offers superior initial comfort, allowing your patient to see the benefits of GPs right away; crisp, clear vision. ADVANTAGE 151 offers a design that is a departure from past GP fitting designs and philosophies, making the diagnostic approach a more integral part of the successful delivery process.

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Treating Keratoconus does not need to be a mysterious undertaking any more. Whether your patient is in the early, moderate, or advanced stages of the condition, we have the lenses to help you deliver the results they came to you for. We find our large diameter (9.5, 10.0, 10.5, 11.0 & 11.5), aspheric Comfort Zone lens works well for the early stages of Keratoconus.

ABBA-Kone is a proven aspheric design with thousands of successful patients enjoying clear, comfortable vision. It will become a permanent part of your practice when you discover how easy we have made fitting a keratoconic eye. A majority of the cases can be successfully fit with our ABBA-Kone lens utilizing our convenient 26 lens diagnostic set. We have recently redesigned the packaging of our ABBA-Kone set to allow greater ease of procedure. The new case is made of a sturdy material, laminated instructions, organized polyvials, and a staging area for lenses in use and contains helpful hints to get you through the process quickly.

The Semi-Scleral 13.5 is an advanced design well suited for the advanced Keratoconus, Pellucid, or other highly irregular corneas. It is a specialized lens design and cannot be fit empirically. Although a major departure from traditional designs, the lens is surprisingly easy to fit with our diagnostic set, which is available either for purchase at a reasonable price or as a "loaner" set for an individual fitting.

EB-15.0 is a Reverse Geometry Scleral contact lens. It is ideal for fitting Post Refractive Corneas, Corneal Ectasis, Post Penatrating Keratoplasty and other highly irregular corneas. It is recommended to be fit using our 14-lens diagnostic set. The set is available for purchase or as a loaner set.

Surgical C-4 is a reverse geometry lens for surgically altered corneas. Surgical C-4 offers an easy fitting approach with outstanding results for those patients whose surgery results in less than desirable visual acuity. Surgical C-4 has multiple zones on the back of the lens to allow for closer alignment to the surgically altered cornea, which provides superior comfort and acuity. Surgical C-4 should not be fit empirically, but our 24-lens fitting system makes the process easy.
The *Orison for Corneal Reshaping* lens has a proven track record of success. Our NCLE Certified Consultants are competent to assist Practitioners with Corneal Reshaping cases ranging from routine to the very complex. Manufactured with ultra modern air bearing, liner motion CNC lathes, the Practitioner can trust the consistent accuracy of our manufacturing processes. Professional consultation, expert manufacturing, and a solid customer oriented sales policy make Orison a natural choice for Corneal Reshaping. Visit our website www.abbaoptical.com for a quick certification presentation and exam to begin fitting our orthokeratology lens design. It is not required to purchase a dispensing system.

**Material:**
**Parameters:**
**Wearing schedule:**
**FDA approval:**
**Design type:**
**Range of correction:**
**Fitting method:**

Paragon HDS®100
Custom Design 10.6 Diameter
Overnight
Overnight
5 Zone
Up to a -4.00 topography

ABBA Optical, is also a distributor of Paragon CRT® lenses. They are available in Paragon HDS®100 and Paragon HDS®materials. Paragon CRT is the only FDA Corneal Reshaping lens with laser markings to identify lens parameters. Your knowledgeable ABBA Consultants can assist you and your staff with fitting, follow-up assistance, & lens reordering.

**FDA Required Educational Certification Program**
Call your ABBA representative for complete details on the certification option that is best for you.

- Paper certification
- Web site certification
- Monthly web certification seminars

This results when perfect lens centration is maintained throughout the overnight wearing period.
On the dispensing visit, the patient’s Orison lenses should be inserted and allowed to equilibrate for 20 minutes. A well fitted Orison lens should exhibit the following characteristics:

1. A centered lens position
2. 1mm to 4mm central bearing
3. Fluorescein pooling in the area of the Reverse Curve
4. 1mm to 5mm mid-peripheral bearing the area of the Alignment Fitting Curve.
5. Mid Peripheral alignment
6. 360 degrees of lens clearance
7. .05mm to 1.0mm of blink induced lens movement.

Orison post corneal mapping:

The appearance of the post-fitting corneal map provides valuable insight into the overall fitting characteristics of the Orison lens and the position of the treatment zone. Post-fitting corneal map can often be classified into 5 major categories:

- **CENTRAL BULLS-EYE PATTERN**
  - This results when perfect lens centration is maintained throughout the overnight wearing period.

- **DECENTERED BULLS-EYE PATTERN**
  - This is indicative of a lens which has decentered nasal or temporal. This is often due to an Alignment/Fitting Curve which is too flat or an overall lens diameter that is too small.

- **SUPERIOR SMILEY FACE PATTERN**
  - This is noted when a lens has decentered superiorly. This is often due to an Alignment/Fitting Curve which is too flat or a lens diameter which is too small.

- **INFERIOR SMILEY FACE PATTERN**
  - This is indicative of a lens which has decentered inferiorly. This is most often due to an Alignment/Fitting Curve which is too steep or a diameter which is too small.

- **CENTRAL ISLAND PATTERN**
  - This is a small 1-2mm central zone of untreated tissue often caused by a lens which is too steep centrally or mid-peripherally resulting in inadequate central application.

On the one-week follow up visit, the fluorescein pattern should show central apical clearance, resulting from tissue redistribution or outward epithelial migration.
MVP Multifocal is our "go to" lens for most first time fits. It is a bi-aspheric design (aspheric back and front surface) allowing the prescribing eye care practitioner the flexibility of placing additional add power on the front surface of the lens when needed without compromising the existing base curve. MVP offers add powers of +1.00D to +4.00, in .25D steps and the unique design of MVP offers comfort equivalent to that of a soft lens. MVP and all other manufactured products ship the same day when you place your order by 1:00pm/EST. MVP is available in a Dispensing System (inventory set) for increased efficiency.

With EZEyes, your patient can enjoy the best of both worlds. The comfortable distance and intermediate acuity provided by an aspheric multifocal and the clarity at near point found with a translating bifocal. EZEyes is a progressive translating design for those patients who require a greater intermediate field of vision. The back surface is an aspheric multifocal combined with a segmented bifocal on the front surface. EZEyes and all other manufactured products ship the same day when you place your order by 1:00pm/EST.

Custom Eyes Bifocal, is a crescent shaped bifocal with an aspheric transition zone. It is a translating, non-truncated design that will provide your early, moderate and advanced presbyopes with the add they require, up to 4D. Our proprietary design, Lid Rest Technology, provides a perfectly uniform edge profile that even your most sensitive patient would like. Custom Eyes is a translating design, yet is not manufactured with a truncated, bulky edge. Lid Rest Technology creates an evenly distributed "cushion" for the lower lid and allows for proper lens translation in downward gaze. Custom Eyes Bifocal and all other manufactured products ship the same day when you place your order by 1:00pm/EST.

EZ.1™ Multifocal
Our progressive, poly-aspheric multifocal is designed to accommodate up to 1.75 diopters of add. EZ.1™ offers a premium level of comfort due in part to our custom thin-edge profile and it provides crisp, clear acuity at distance, near and everything in between.

EZ.2™ Multifocal
EZ.2™ offers the same simple fitting and evaluation characteristics as its counterpart, EZ.1™. It provides your moderate to advanced presbyopes with the add they require, up to 2.50 diopters, giving them crisp, clear acuity at distance, near and everything in between. EZ Multifocals and all other manufactured products ship the same day when you place your order by 1:00pm/EST.

KNEW VISION is an excellent option for the patient who has previously worn translating type bifocals of years past. KNEW VISION is a straight line, executive type bifocal with a larger field for near vision. KNEW VISION offers the convenience to satisfy up to 4D of add, with unlimited base curve, distance power and diameter combinations. It will provide a superior level of comfort and visual acuity. KNEW VISION and all other manufactured products ship the same day when you place your order by 1:00pm/EST.