



Dynamically Engineered Design Customized Freeform Progressive

# HOW WE MAKE QUALITY LENSES

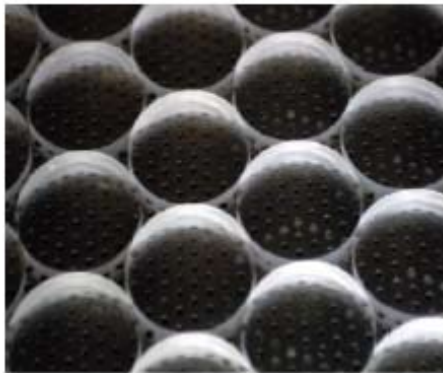
## UNIQUE RX PROCESS AND TECHNOLOGY

At CLEARi, expect the best. We are a vertically integrated company in manufacturing. Our manufacturing and RX facility is located 60 minutes from Seoul, Korea. We use the most up-to-date technology to create the world's finest freeform ophthalmic lenses. With over 250 dedicated employees, we incorporate a unique one-line process system.



## VERTICALLY INTEGRATED RX SERVICES

With over 10 years of lens manufacturing experience, CLEARi brings you the highest quality product possible. We fabricate and handle the entire MOLDING, CASTING, FREEFORM SURFACING, COATING, and INSPECTION from start to end to provide you with the highest quality product possible.



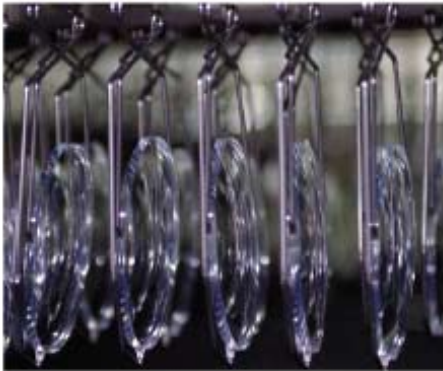
**MOLD PROCESS**



**CASTING PROCESS**



**FREEFORM PROCESS**



**HARD COATING PROCESS**



**AR PROCESS**



**FINAL INSPECTION**

# INTRODUCING VISION SOLUTION

WITH REAL RESULTS

CLEARi takes the personalization - and your practice - to a whole new level. CLEARi's back surface Free-Form progressive lenses with the most advanced design technology aspire to provide optimum wearer comfort in all viewing areas.

## Advantages of Dynamically Engineered Design

Full Field Optimization

High Performance for high prescription

High Performance for sport frames

Oblique Aberrations Optimization

Variable Object Space

Totally customized lens

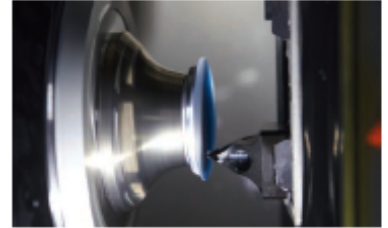
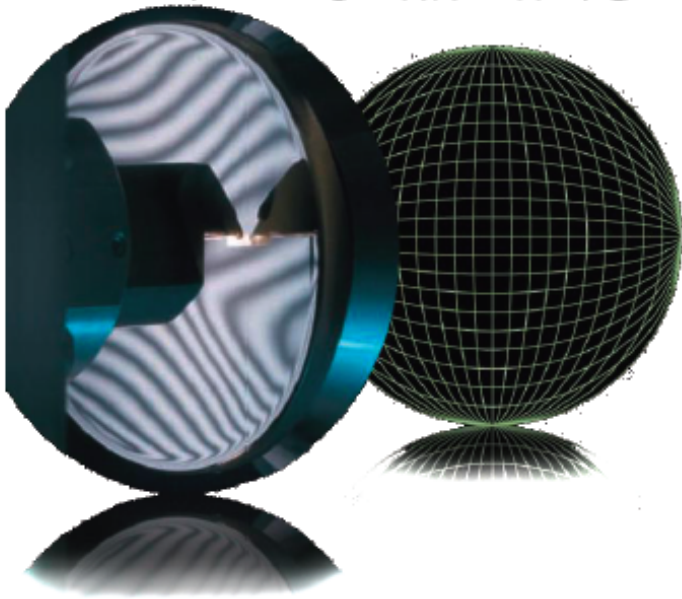
Variable Inset

Freedom in base curve selection





# DYNAMICALLY ENGINEERED DESIGN



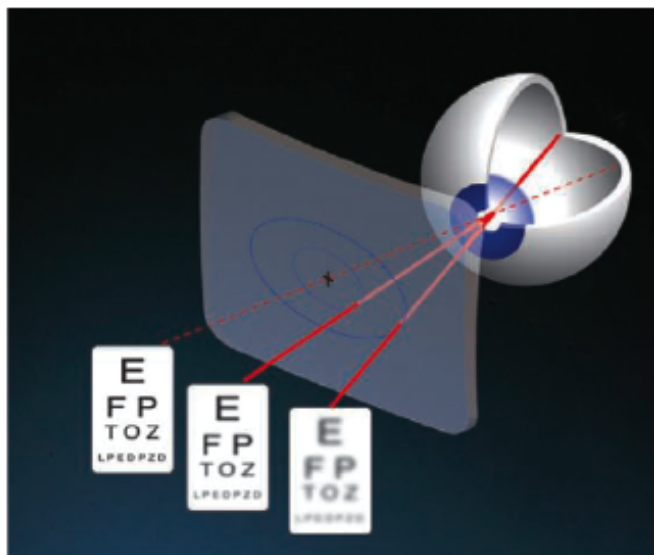
- 
- ❖ Soft transitions between visual fields
  - ❖ Wide far and near vision
  - ❖ Available in four different corridor lengths - 12, 14, 16, & 19mm
  - ❖ High precision and optimal customization with SOMO's Dynamically Engineered Design technology
  - ❖ Clear vision in every gaze direction
  - ❖ Oblique astigmatism minimized
  - ❖ Variable inset
- 



# CUSTOMIZED FREE-FORM LENSES

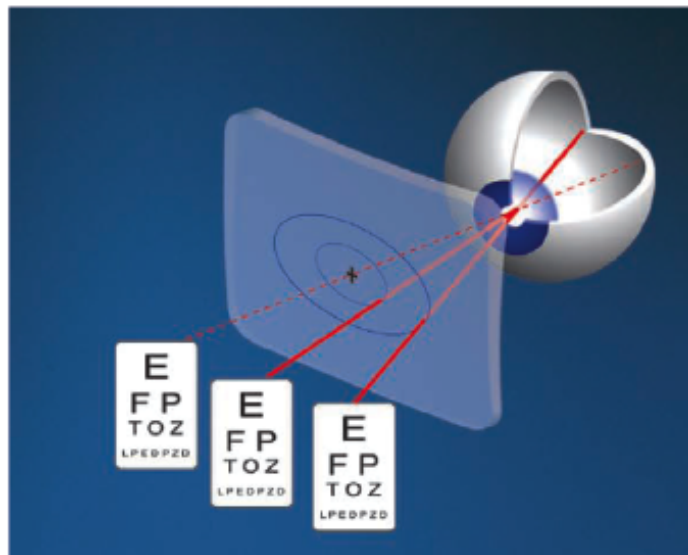
## FOR EVERY PRESCRIPTION

### CONVENTIONAL PROGRESSIVE LENS



Obliquity loss of visual acuity from a standard progressive lens.

### CUSTOMIZED CLEARi PROGRESSIVE LENS



Real World Optimization guarantees an optimal visual acuity in every gaze direction.

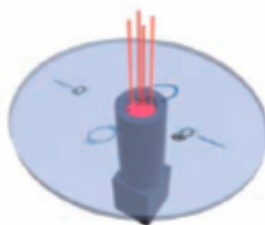
Each patient's exact combination of sphere, cylinder, axis, prism, and add power is unique. Yet conventional progressives cannot optimize for all of these elements because of limitations of base curves and absence of position of wear design software. As a result, most prescriptions suffer unnecessary compromises in visual performance, including truncated reading areas and restricted viewing zones.

# CLEARi<sup>TM</sup> DYNAMICALLY ENGINEERED DESIGN

## POWER COMPENSATION SPECIFIC TO THE INDIVIDUAL USER

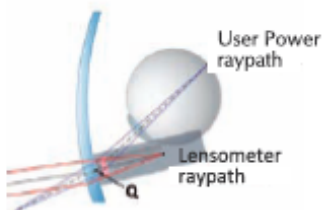


### Lensometer



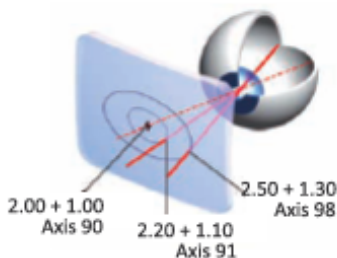
Typically, the lens is placed perpendicular to the ray beam of the lensometer when measuring its power. Conventional lenses' power can be measured with this procedure. This type of calculation is known as nominal power calculation. It assumes that the same design is good for every prescription, what we could call a "static" design.

### Compensated power



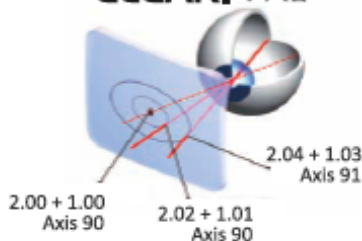
However, the eye's optical system is vastly different from the lensometer. The eye rotates around its center, and the light follows an oblique trajectory that affects the power experienced by the wearer.

### Conventional PAL



This drawing simulates the power experienced by the wearer of a conventional lens when looking through the various areas. The difference between power experienced and that actually prescribed can be more than 0.5D for a lateral gaze angle of 30 degrees. This effect is best known as oblique aberration and is the main optical aberration that cannot be corrected with conventional surfacing techniques.

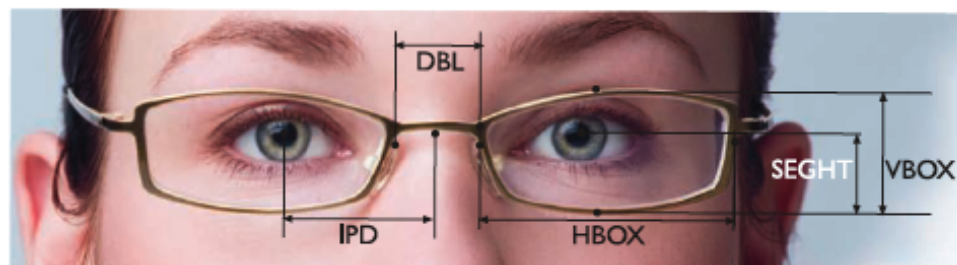
### CLEARi PAL



The same prescription was calculated with SOMO's Dynamically Engineered Design technology and surfaced with Schneider HSC Master Freeform Equipment. The power experienced by the wearer is now clear vision for every direction of sight.

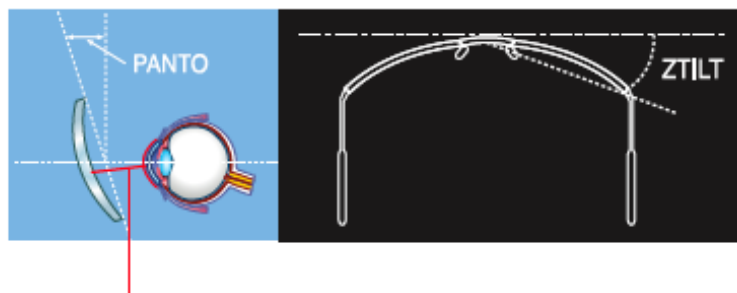
# PERSONALIZED MEASUREMENTS

## A FULLY INDIVIDUALIZED LENS



A single **IPD** is the EXACT measurement from the center of the pupil to the center of the bridge. Research shows that most people have asymmetric faces; therefore, a measurement of both the right and left PD's provide optimum measurements.

The viewing height (labeled **SEGHT** above) of the right and left eye vary from frame to frame and person to person.



The forward tilt of your frames (**PANTO**) influences the design of your lens.

The exact measurement of the wrap of your frames (**ZTILT**) also provide optimum vision in all viewing areas.

**Corneal Vertex Distance** is the distance from the apex of your cornea to the back of your lens.

Customized CLEARi Free-Form progressive lenses can be precisely and effectively personalized to meet the specific visual needs and frame choices of each and every presbyopic patient. Through dramatic innovations in lens design, CLEARi allows you to account for the singular interaction between a wearer's frame, face, and prescription to create a one-of-a-kind lens for every unique, one-of-a-kind patient.



# VARIABLE CORRIDOR LENGTH

FOR EVERY FRAME CHOICE



By allowing you to match the corridor length to virtually any frame dimension and patient fitting height, CLEARi's customized Free-Form lenses offer a new level of personalization to you and your patients.



## CLEARi Freeform Customized Progressives

- ♦CLEARi DED 12
- ♦CLEARi DED 14
- ♦CLEARi DED 16
- ♦CLEARi DED 19

*\*Recommended minimal Seg Ht is +2mm to corridor length.*

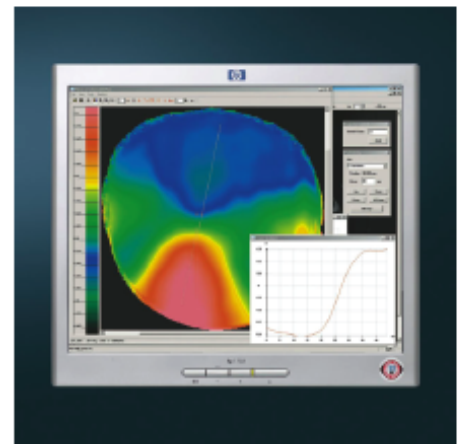
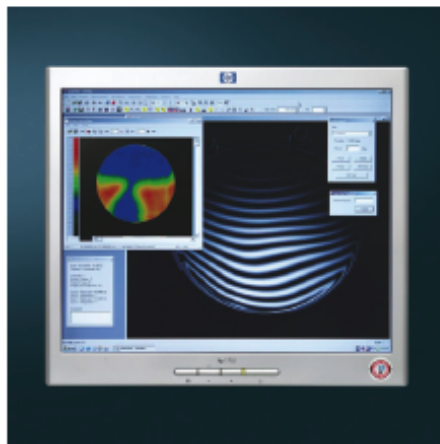
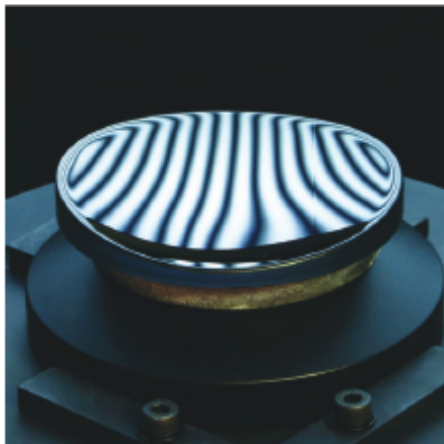


# LENS MAPPING



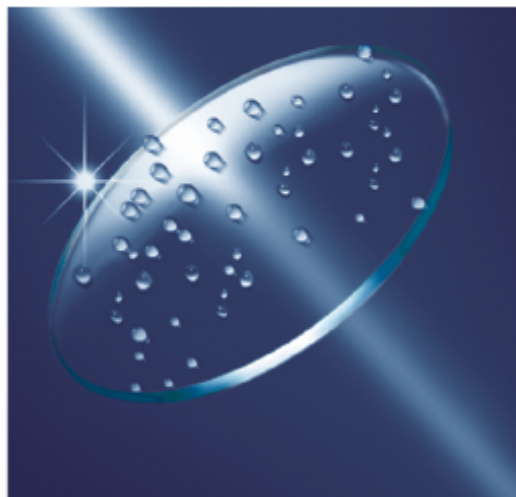
Our CLEARi lens has a wide near vision region, a wide corridor length, and is easily adaptable from the novice to the advanced progressive lens wearer. Perfect choice for progressive lens wearer looking for ophthalmic lens with fast adaptation and high performance.

CLEARi's Dynamically Engineered Design freeform progressive lenses are validated with the utilization of lens mapping. Both the cylinder and power maps of the surfaced lens are used to confirm and authenticate the quality of our dynamically engineered design, no matter what the prescription.



# EXPERIENCE **CLEARi**<sup>™</sup>'S PREMIUM ARC

ULTRACLEAR AR COAT - SUPER HYDROPHOBIC COATING with ITO ANTI-STATIC TOP COAT

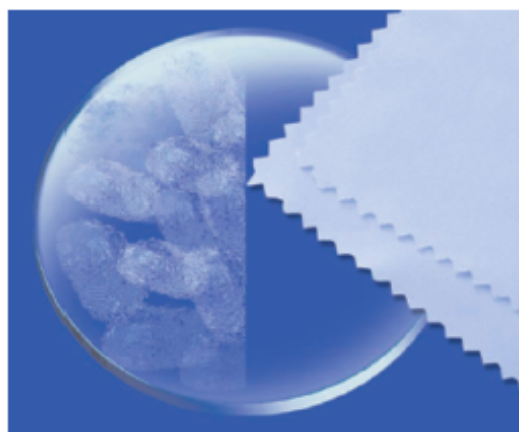


The ULTRACLEAR high performance finished lens series has three top coats that provide excellent cleanability by repelling water, oils and with the ITO anti-static layer, dust and dirt.

All ULTRACLEAR lenses have the COLTS Seal of Certifiable Quality and have earned "best in class" performance ratings for the COLTS Real Life Simulation Wearer's Test.

CLEARi's Quartz AR coating process makes lenses scratch and smudge resistant, prevents moisture buildup and repels contaminants making it easier to keep lenses clean. Includes ITO anti-static layer.

ENHANCED AR TECHNOLOGY AT THE BEST VALUE



Other  
Coatings

ULTRACLEAR  
ITO



Other  
Coatings

ULTRACLEAR  
ITO

ALL OUR LENSES COME WITH OUR PREMIUM ULTRACLEAR AR COATING!!

# PRODUCT AVAILABILITY AND POWER RANGES



**POLARIZED**  
**Transitions®**

Photochromic performance is influenced by temperature, UV exposure, and lens material.

**DRIVEWEAR**

## **CLEARi™** Dynamically Engineered Design Freeform Progressives

Material	Diameter	RX Range	Add Powers	Cylinder
1.50 Plastic CR-39 CLEAR TRANSITIONS VI POLARIZED DRIVEWEAR	65/70	-6.00 to +6.00	+0.50 to +3.50	-4.00
1.53 Trivex CLEAR TRANSITIONS VI	65/70	-10.00 to +8.00	+0.50 to +3.50	-4.00
1.59 Polycarbonate CLEAR SUNSMART TRANSITIONS VI POLARIZED DRIVEWEAR	65/70	-10.00 to +8.00	+0.50 to +3.50	-4.00
1.60 High Index CLEAR TRANSITIONS VI POLARIZED	65/70	-10.00 to +8.00	+0.50 to +3.50	-4.00
1.67 High Index CLEAR TRANSITIONS VI POLARIZED	65/70	-10.00 to +8.00	+0.50 to +3.50	-4.00
1.74 Super High Index CLEAR	65/70	-12.00 to +8.00	+0.50 to +3.50	-4.00

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Drivewear is registered trademark of Younger Optics, Inc.

# CLEARi™ DYNAMICALLY ENGINEERED DESIGN

MEASURING TOOLS IN ONE PORTABLE PACKAGE



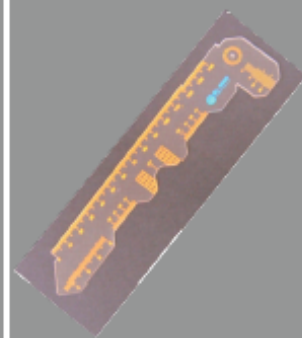
Height Reference Point Device - ensures correct patient posture and eye level during measurement.



Face-Form Angle Device - easily measures wrap angle of frame.



Measuring device for PANTOSCOPTIC TILT.



Optical Ruler for Corneal Vertex Distance, Optical Height, Inter-pupillary distance measurements.

Forget the expensive measuring device, at CLEARi, use this portable, affordable measuring tool to obtain all the necessary individual data to order a truly customized Free-Form lens.



ALL IN ONE CONVENIENT CARRY CASE