

# **OUR MODERN TECHNOLOGY**

WVA Optics uses state-of-the-art technology to provide you with the service and precision you and your patients deserve. We have invested in these modern tools to ensure that each job is guaranteed to display satisfyingly detailed results.



## FRAME TRACER

Our frame tracer uses a stylus to trace the frame or lens. This produces digitized frame data that our opticians use to determine the shape of the new lenses and to ensure the RX will work properly with the chosen frame.



#### SURFACE BLOCKER

After a surface saver tape is applied, our surface blocker applies a melted alloy to the front side of a lens blank. The alloy cools and becomes a solid block of alloy that is shaped to fit into chucks on the surfacing equipment, giving the machines a way to hold the lens during surfacing.



#### **GENERATOR**

Our generator uses diamond tipped bits to grind the required curves into the backside of a lens blank to produce the desired RX.



## POLISHERS

Both of our two polishers apply a fine polish to the backside of the lens. These machines use liquid polish and super soft polishing pads with specific curves to match the lenses being polished.



# ENGRAVER

We use a CO<sub>2</sub> laser system to engrave semi-visible and visible markings on progressive lenses. These markings are used for identification and proper alignment.



# HARD COATER

WVA Optics uses a hard coater to apply a lacquer to the backside of the lens. This lacquer is UV-cured after being applied to the lens, forming a scratch resistant backside hard coat.



## ULTRASONIC CLEANER

Our ultrasonic cleaner cleans and dries the lenses in preparation for coating.



## **FINISH BLOCKER**

A small plastic finish block is applied to the front side of a surfaced or stock lens by the finish blocker machine. The block is attached to the lens using blocking pads that have adhesive on both sides. This gives the edger machines a way to hold the lenses during finishing.



## VACUUM BOX COATER

Our vacuum box coater deposits an anti-reflective coating on the lens via a thermal evaporation process.



#### LENSOMETERS

Our Lensometers are used to verify the RX to ensure that our jobs are completed accurately. With this machine we check for sphere power, cylinder power, prism, pupillary distance, and axis alignment. In addition, we can also detect the amount of UV rays that pass through a lens.



## **EDGERS**

We have invested in two types of edgers, one for the majority of our edging jobs and the other for specialty jobs. Our edgers are used to cut the lenses to their proper shape and produce the desired edge. The most commonly used edger is used for jobs that don't require drill holes or specialty bevels. Our specialty edger is used for rimless jobs that need holes drilled in the lens or for high wrap jobs requiring specialty bevels.

> *Two ABO Certified Opticians On Staff*

800.747.9000 x8931

PROVIDING JUST THE RIGHT PERSONAL TOUCH AND GUARANTEED PRECISION FOR YOU AND YOUR PATIENTS