



HRC-180 BACKSIDE COATER

**INTEGRATED SYSTEM TO
CLEAN, COAT, AND CURE**

**ADVANCED COATING
TECHNOLOGY**

**REDUCES LENS BREAKAGE
AND INCREASES THROUGHPUT**

INTEGRATED CLEANING, COATING, AND CURING

➤ To begin the cycle, the operator simply pushes the start button once via an easy-to-use, touchpad interface, places a lens into the quick load drawer, and then closes it shut. An eccentric motor vibrates the lens nest to center the lens. Once centered a vacuum chuck picks up the lens and delivers it to the cleaning station. HRC-180 cleans the lens of contaminants by spraying it, while spinning, with high-pressure de-ionized or distilled water. After cleaning, the lens is automatically dried with dry, filtered air.

➤ The cleaned and dried lens is automatically transferred to the coating station where coating resin is sprayed onto the lens while the lens is spinning. Once applied any coating excess is reclaimed and used in subsequent coating cycles. This 100% Solids coating technology is operator-friendly, containing no hazardous or flammable solvents and having no offensive odor found in solvent-based coatings. Gerber Coburn coatings do not require isopropyl alcohol in the cleaning or coating cycle.

The HRC-180 Backside Coater is a self-contained, fully automated system for the application of high-performance, scratch resistant coating to all types of plastic and polycarbonate lenses. HRC-180 uses an advanced coating technology called 100% Solids, which allows complete utilization of the coating, eliminating volatile solvents and waste.

The integrated system automatically cleans, coats, and cures lenses in one quick, uninterrupted cycle, eliminating exposure to dust and dirt, minimizing lens handling, and bypassing lens inspection prior to the curing phase. With this process, labs gain increased throughput and consistently high yields.

➤ Once the coating is applied, the lens moves into the ultraviolet curing station. Internal counters monitor the UV output to ensure proper curing and warn operators when bulbs no longer function at acceptable levels. HRC-180's innovative method of holding lenses successfully cures thin centered lenses without warping, including 1.60 index. And, since curing is integrated into the entire process, operator exposure to UV light or chemicals is eliminated.

➤ Totally self-contained and fully automated, the HRC-180 can be located in a normal laboratory environment, eliminating the need for a clean room. Economical, built-in air filters reduce airborne and solid contaminants to less than 1.2 microns, ensuring exceptional coating results.

➤ Cured lenses are produced every 24 seconds or 140–150 lenses per hour, making the HRC-180 one of the fastest coating units on the market. By containing cleaning and coating in one unit, the HRC-180 eliminates inspection prior to curing. And the integral cleaning cycle minimizes lens preparation and handling, especially when used in conjunction with an ultrasonic cleaning system.

➤ Designed for easy access, the HRC-180 allows operators to freely replenish fluids, replace the UV bulb, and provide preventative maintenance.

➤ Sophisticated technology reduces operator maintenance of the HRC-180. Built-in sensors and diagnostics constantly monitor the system's performance and guard against processing errors. Intelligent software displays machine status and prompts operators for necessary preventative maintenance routines.



HRC-180 COATER

TECHNICAL INFORMATION



POWER*	208 V [acceptable minimum] 240 V [acceptable maximum] 50 or 60 Hz, 15 Amps, single phase dedicated circuit
MACHINE AIR REQUIREMENTS	80 psi machine operating pressure, 5 CFM
DIMENSIONS	34" w x 35" d x 72" h 863 mm x 889 mm x 1829 mm
WEIGHT	375 lbs/170 kg
OPERATING CONDITIONS	67° F [minimum ambient room temperature] 93° F [maximum ambient room temperature]
DRYING AIR REQUIREMENTS	60 psi minimum
WATER	Cleaning cycle requires either distilled or de-ionized water [5 meg-ohm or better]
SYSTEM COMPONENTS	LensDry™ LC Cleaner Plus™ HyperTowels™ Suction pads Operation and installation manual Maintenance manual
ORDER NUMBER	261919, 60 Hz 269749, 50 Hz

* Optimal bulb life is achieved at 220 V. Variations from 220 V will shorten bulb life.
Gerber Coburn recommends a voltage stabilizer to ensure stable voltage to HRC coaters.
09/05 Specifications are subject to change without notification.



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