



# STRATUM™ LENS COATING SYSTEM

**AUTOMATED SYSTEM CLEANS,  
COATS, AND CURES**

**ADVANCED COATING  
TECHNOLOGY**

**REDUCES LENS BREAKAGE  
AND INCREASES THROUGHPUT**

## STANDARD FEATURES

- Stratum automatically cleans, coats, and cures at the touch of a button. The operator simply loads a pair of lenses, then unloads them at the end of the two-and-a-half minute cycle. If required, Stratum can process one lens even more quickly. On average, Stratum yields 22 pairs of lenses per hour.
- Hands-free operation allows the operator to perform other tasks while lenses are being processed.
- A built-in display and easy-to-use keyboard make training fast and effortless.
- Sophisticated sensors and diagnostics constantly monitor unit performance. Intelligent software displays machine status and prompts operators for necessary preventative maintenance routines.
- Fluid sensors automatically prompt operators to replenish cleaning fluids and coatings.
- State-of-the-art ultra violet technology provides predictable and economical bulb life.
- A user interface prompts the operator in English, Spanish, or French.

The Stratum Lens Coating System is a self-contained, fully automated system for applying a high-performance scratch resistant coating to plastic and polycarbonate lenses. Lenses are cleaned, coated, and cured in one uninterrupted cycle. One continuous cycle eliminates exposure to dust and dirt, minimizes lens preparation and handling, and eliminates lens inspection prior to the coating phase. The result is reduced lens breakage and increased throughput, which translates into consistently high yields.

Stratum is available in two configurations: Stratum, which dispenses a single coating type; and Stratum 2D, which offers the same benefits as Stratum, plus the capability to dispense an additional coating.

## INTEGRATED CLEANING, COATING, AND CURING

- Once the lenses are loaded into the carousel, high pressure, de-ionized or distilled water cleans them of contaminants. The solventless coating is then applied, and the lenses move into the UV curing phase. Stratum's innovative method of holding lenses successfully cures thin centered lenses without warping. And, since curing is integrated into the entire process, operator exposure to UV light or chemicals is eliminated.

As a self-contained system, Stratum can be located in a normal laboratory environment without the need for a clean room. Internal positive air pressure assists in keeping environmental dust and dirt out of the unit. Plus, a built-in filtration system removes airborne contaminants to ensure exceptional coating results.

## COATING TECHNOLOGY

Stratum applies one coating that is appropriate for all plastic lenses. Stratum 2D offers laboratories the flexibility to dispense either a highly tintable coating or a super-hard, non-tintable coating—from the same machine.

Stratum's high performance, UV-curable coatings are the result of joint development between Gerber Coburn and Lens Technology, the world's leading manufacturer of ophthalmic coatings.

Because the coatings contain no hazardous or flammable solvents, there is no offensive odor. Any odor that might be produced during cleaning and curing is virtually eliminated via Stratum's special filtering system.

Cleaning and coating processes do not require the use of isopropyl alcohol.

Coating over-spray is collected in disposable trays and automatically cured into a solid state that is environmentally safe for disposal.



# STRATUM™ COATER

## TECHNICAL INFORMATION



<b>POWER</b>	208 V [acceptable minimum] 240 V [acceptable maximum] 50 or 60 Hz, 20 Amps, single phase	
<b>MACHINE AIR REQUIREMENTS</b>	80 psi machine operating pressure, 5 CFM	
<b>DIMENSIONS</b>	37 1/4" w x 32" d x 21 1/2" h 946 mm x 813 mm x 546 mm	
<b>WEIGHT</b>	385 lbs/174.6 kg	
<b>OPERATING CONDITIONS</b>	67° F [minimum ambient room temperature] 93° F [maximum ambient room temperature]	
<b>DRYING AIR REQUIREMENTS</b>	60 psi minimum	
<b>WATER</b>	Cleaning cycle requires either distilled or de-ionized water [5 meg-ohm or better]	
<b>SYSTEM COMPONENTS</b>	DryWash™ Solution LC Cleaner Plus™ HyperTowels™ Disposable resin reclaim trays Suction pads Nitrogen regulator Stand Operation and installation manual Maintenance manual	
<b>OPTIONS</b>	Sun-150 Universal Tintable Coating Armour-500 Non-Tintable Coating Water de-ionizing system 110 V Water de-ionizing system 220 V	Order number <b>236881</b> Order number <b>236221</b> Order number <b>83429-00</b> Order number <b>83429-01</b>
<b>ORDER NUMBERS</b>	Stratum 60 Hz – <b>215399</b> 50 Hz – <b>233589</b> Stratum 2D 60 Hz – <b>235859</b>	

07/05 Specifications subject to change without notification.

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