COBURN TECHNOLOGIES

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SURFACING

SOFTWARE • BLOCKER • GENERATORS • FINERS/POLISHERS • AUTODEBLOCKER • ALLOY RECOVERY • LENS DE-TAPER & CLEANER • COATERS • CONSUMABLES

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LAB MANAGEMENT SOFTWARE

RXPro

RXPro

LENS DESIGN SOFTWARE

novar DESIGNER

NOVAR

BLOCKERS

SPECTRUM^{PR}
PRISMATIC BLOCKING

SPECTRUM^{PL}
PLANO BLOCKING

SPECTRUM
WAX BLOCKING

GENERATORS

NEXUS DGT

COBALT NXT

COBALT NX

CTL65

FINERS/ POLISHERS

NEXUS DP

COBALT DP

ACUITY MAX

ACUITY PLUS

See equipment specs on back cover

AUTODEBLOCKER

AGILITY

ALLOY RECOVERY SYSTEMS

INTEGRITY

LENS DE-TAPER & CLEANERS

DUALITY
AUTOMATED DE-TAPING & CLEANING

DUALITY^{AR}
AUTOMATED DE-TAPING & CLEANING
REMOVE UV-CURED MATERIALS
& MOST AR COATINGS

HARD COATERS

VELOCITY 2D
DUAL-COATING

VELOCITY

VELOCITY LTE

VELOCITY TT

HARD COATINGS

PROCOAT
UVMAX
DURA-UV

CONSUMABLES

TAPE
BLOCKING COMPOUNDS
CUTTERS
FINING & POLISHING PADS
POLISH & CHEMICALS
LAPS & TOOLS
TINTS & DYE

LABS

NEXUS

COBALT FREEFORM

CUT-TO-POLISH

PREMIER

LAB MANAGEMENT SOFTWARE

RXPro

RXPRO

Coburn's RXPro Lab Management Software introduces cutting-edge technology for both conventional and freeform lens processing in your laboratory. The application has many configurable options and considerably more accurate Rx calculations. RXPro is an ideal lab management software for small to medium-sized labs seeking to improve the generating process at an affordable price.

Customizable User-Friendly Design

- ***Reduce Training Time and Staffing Needs:*** The intuitive interface is designed to minimize the learning curve, enabling staff to operate the system efficiently with minimal training.
- ***Easy-to-Use Menu-Based Software:*** Simplify data input through a user-friendly menu system, ensuring that users can easily navigate and input information without confusion.
- ***Password Protected Features:*** Require users to authenticate themselves with a username and password before accessing protected features.

Lens Database

- ***Auto-Generation of Lab-Specific Lens Database:*** Automatically generate a lens database tailored to each lab based on the initial entry of blank details.
- ***Vision Council Format Compatibility:*** Ensure the lens database is preloaded and maintained in accordance with the Vision Council's standard format.
- ***Easy Management of Blank Parameters:*** Facilitate the addition, deletion, and modification of blank parameters through an Excel interface for ease of use and flexibility.

Blanks Inventory

- ***Inventory Management:*** Maintain an accurate record of both complete stock and current in-hand stock, ensuring efficient monitoring and management of blanks.
- ***Automated Synchronization:*** Automatically synchronize inventory data with the lens database to reflect changes promptly, especially when new blanks are introduced, or existing ones are updated.

Device Interface

- ***Integration via RS232 Serial Communication Module and RJ45 Network TCP/IP Module:*** Facilitate seamless integration of devices using RS232 serial communication and RJ45 network TCP/IP modules for versatile connectivity options.
- ***Live Monitoring of Machines:*** Provide a centralized interface for live monitoring of all integrated machines, displaying comprehensive job data on a single screen.

Reports

- ***Interactive Statistical Report Generation:*** Generate detailed statistical reports categorizing production data by material type, design specifications, and coating variations.
- ***Graphical Display of Job Data:*** Present production data through visual representations such as pie charts for material/design/coating breakdowns and bar graphs for comparative analysis.
- ***Summary Reports and Filtering:*** Provide summarized reports on daily, monthly, and yearly production metrics. Enable filtering and customization options to extract specific production data for detailed analysis.

File Processing

- Interface between ERP and RXPro using RXI files.
- Logs with color differentiation of jobs processed status.
- Jobs processed via FP can be reviewed/ modified manually Multiple Job Entry

Client/Server Module

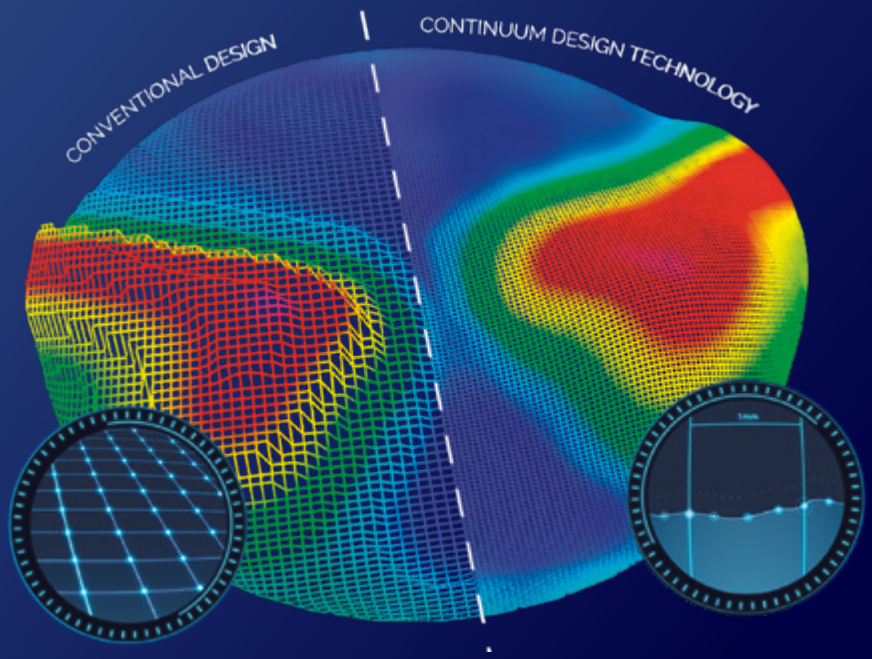
- Facilitate multiple job entry modules within a client/server architecture to streamline operations in high-production laboratory environments.

Label Printing

- Provide a streamlined process for printing lens labels with barcodes for lens covers, ensuring accurate identification and tracking within the production and distribution process.

LENS DESIGN SOFTWARE

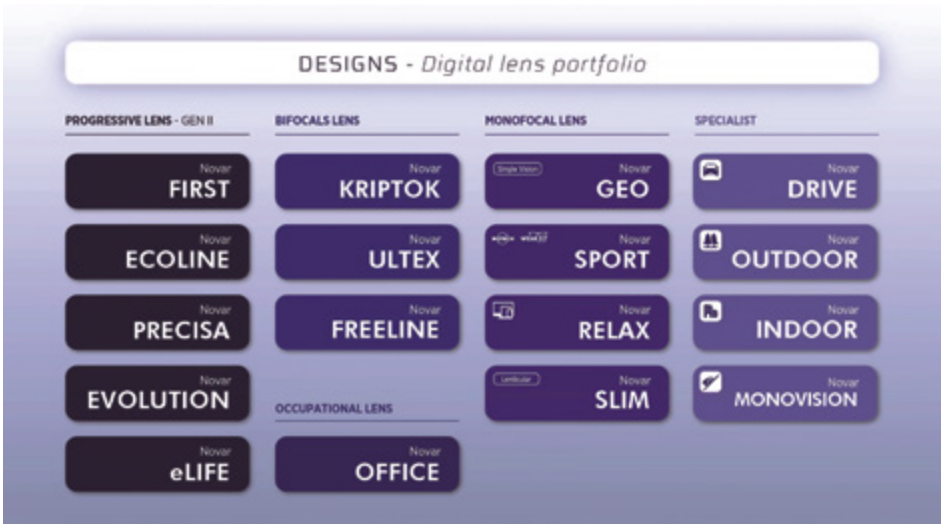
NOVAR LENS DESIGNER

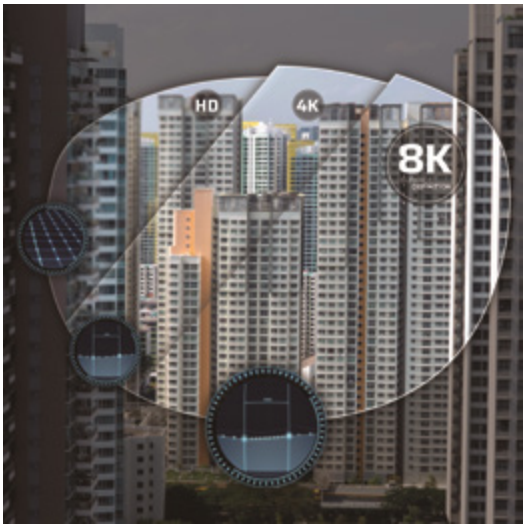


"8K Surface Definition... Produce lenses with up to 8X more resolution than other freeform technology lenses."

NOVAR LENS DESIGNER

Successfully utilized on tens of thousands of lenses, Novar can be implemented on a broad variety of laboratory management systems and surfacing platforms, including Coburn's NEXUS and Cobalt systems, along with platforms of other major equipment manufacturers. Try a 30-day, risk-free trial.





- **Continuum Design Technology:** Defines the lens as a continuous surface which increases optical definition, improves field amplitude and reduces peripheral aberrations while other digital lens design software define the lens as a sequence of points connected arbitrarily.
- **8K Definition Surface:** Continuum Design Technology allows the production of lenses with up to 8 times more optical definition than other freeform technologies. Similar to pixels in U-HD digital screens, higher resolution on the ophthalmic surface results in lenses with greater optical definition, providing real benefits in terms of field of vision and image resolution.
- **Wear Fit Technology:** Personalization technology that compensates for the aberrations produced by a lens due to its position of use.
- **Thickness Technology:** Complete customization at your finger tips with the ability to optimize and reduce thickness for all kinds of frames, shapes & materials.
- **Blending Technology:** A technology developed in order to thin the edges of an ophthalmic lens. An optic zone is defined around the frame cross. Away from this zone, the thickness is reduced with a gradual change of curvature in order to obtain a thinner lens.

PRISMATIC BLOCKING

SPECTRUM, SPECTRUM^{PR} & SPECTRUM^{PL}

Spectrum Blocker Series

Designed for compatibility with all common surfacing machines, the Spectrum Prismatic Lens Blocker provides extremely precise alignment of the lens at the correct prism angle.

SPECTRUM PRISMATIC LENS BLOCKER
Automatically calibrates the lens at the correct prism angle, prism basis and axis of the blocking chuck.

AVAILABLE IN THREE MODELS:

SPECTRUM
BASE MODEL,
WAX BLOCKING

SPECTRUM^{PR}
PRISMATIC MODEL,
ALLOY BLOCKING

SPECTRUM^{PL}
PLANO MODEL,
ALLOY BLOCKING

FEATURES

- Scan ticket to enter job data, manually enter, or enter through the LMS
- Fills in 5 seconds with autofill function
- Chills in 20 seconds
- Defines alignment target with lens design-specific templates for single vision, progressive, flat top and executive lenses
- Removable blocking rings
- Adjust lighting for darker lenses
- Compatible with all common lens surfacing machines

Spectrum^{PR} and Spectrum^{PL}
Loh Style Blocks
Part no. 355722

Spectrum Base Model
Standard Pin Style Wax Blocks
Part no. 170411, 170421, 170431, 170441, 170451

Spectrum is capable of parallel processing; while first lens is blocked, second lens is laid out.

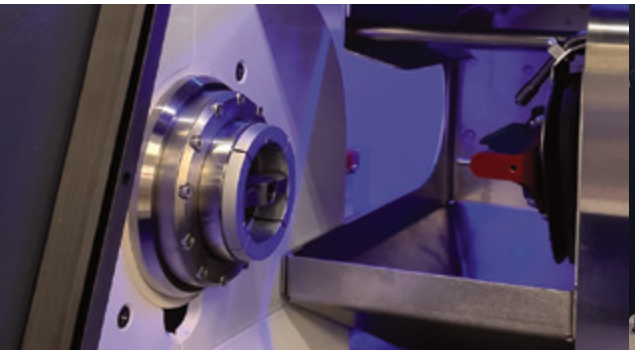
DIGITAL GENERATING

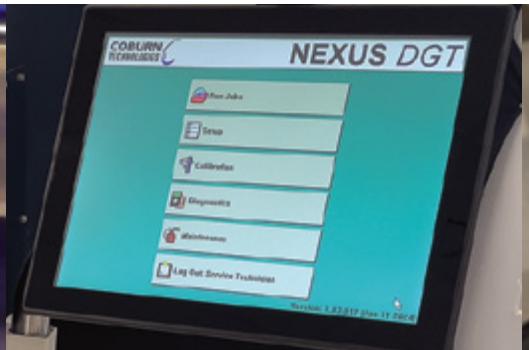
NEXUS DGT

NEW! NEXUS DGT

The NEXUS Digital Surfacing System leverages the technology in the acclaimed Cobalt Digital Lab to produce high quality digital Rx lenses. The system includes the NEXUS DGT Digital Lens Generator and the NEXUS DP Digital Lens Polisher. Each system represents a significant upgrade from its predecessor.

- **Higher Throughput:** Equipped with increased speeds and higher throughput than the Cobalt NXT and NX, allowing labs to process more jobs faster than ever.
- **Superior Lens Quality:** The high performance NEXUS DGT produces superior quality and accuracy of lenses. NEXUS DGT is designed for processing all indexes of lenses (1.498 to 1.74).
- **Automated Calibration:** The NEXUS DGT comes built with automatic calibration for faster and efficient lens processing. Cutter height adjustment remains manual. Manual calibration still available.
- **On-Board Engraving:** Engraving capabilities that produce simple shapes and alphanumeric characters using the secondary axis. Now the need to purchase additional equipment is eliminated.
- **Interrupted Cut:** Interrupted cut brings a new feature to Coburn's lens generators, which is available on the x-axis.
- **Cold Mist/Dry Cut:** With on-board cold mist/dry cut, the need for expensive waste management is removed.
- **User Friendly:** Larger 19" monitor with options for setup, running jobs, calibration, diagnostics, and maintenance.
- **Automation Ready:** The NEXUS DGT has the capability to be upgraded for automation for labs looking to completely automate their freeform processes.





DIGITAL GENERATING

COBALT NX & NXT

"A smaller way to process freeform with an expandable product platform that can grow with your business"

COBALT NX

Coburn's Cobalt NX lens generator produces superior quality lenses in terms of form and finish. Building on the Cobalt heritage, this next generation Cobalt machine incorporates several enhancements including a linear motor and an integrated spindle to provide extra precision and more accurate lens geometry. Cobalt NX delivers better surface results than competitive dry-cut and wet-cut processes without any water management.

- **Enhanced Lens Quality:** The quality of the lenses produced with the Cobalt NX is far superior to that of previous generators. Cobalt NX is designed for processing all indexes of lenses (1.498 to 1.74).
- **Automated Calibration:** Manual calibration is still available for more control of the process, but for those who want an automated machine, Cobalt NX comes built with automatic calibration for faster and more efficient lens processing.
- **On-Board Engraving:** Cobalt NX now includes engraving, with capabilities to produce simple shapes and alphanumeric using the secondary axis. Now, the need to purchase additional equipment is eliminated.
- **Interrupted Cut:** Interrupted cut is a new feature which is available on the x-axis.
- **Cold Mist/Dry Cut:** With on-board cold mist/dry cut, the need for expensive waste management is removed.

COBALT NXT

Cobalt NXT is the successor to Coburn's previous large-format freeform generator, the Cobalt DS. Built with more advanced processing software than Cobalt NX, the Cobalt NXT represents Coburn's next generation platform for lens surfacing.

- **Automation Ready:** Cobalt NXT has the capability to be upgraded to a fully automated machine for labs looking to completely automate their freeform processes.
- **Higher Throughput:** Cobalt NXT comes with increased speeds and higher throughput than the Cobalt NX, allowing labs to process jobs faster.

COLD-MIST TECHNOLOGY

Cold-Mist Technology atomizes a water-based lubricant directly at the cutting diamond which saturates the lens surface and creates a "wet core" for the cut but evaporates completely after it leaves the chamber. This results in a lens surface equivalent to competitive wet-cut generators without the need for water management.

CONVENTIONAL GENERATING

CTL65

"All the benefits of advanced dry-cut, cut-to-polish lens processing that you have come to expect from Coburn in a compact footprint"

CTL65

A compact turning lathe which utilizes Coburn's patented single-point technology to produce conventional lenses for small to medium-sized laboratories. Using the CTL65, semi-finished lens blanks are surfaced, cribbed, and safety beveled in a fast and accurate process. Using a multi-data system to reduce lens spoilage, while optimizing lens and lap cycle times, the need for an expensive water reclaiming filtration system is eliminated.
The CTL65 is the fastest traditional Rx lens generator in its class. An entry-level lathe generator that cannot be upgraded to process freeform, but is an ideal fit for labs familiar with Coburn's popular SL2 series of generators.

- Patented, single-point precision turning technology for standard and advanced lens processing
- Dry-cut generating technology means no more water filtration systems for lens waste removal, water treatment chemicals or lens coolants, and smaller operating footprint in lab space
- Smooth surface finish guarantees consistent one-step fining across a range of lenses
- Interrupted Polycarbonate lens cutting feature for smaller lens strands
- Stiff and robust granite base provides improved stability and less sensitivity to external vibration for higher quality output
- Faster processing times and increased throughput compared to the popular SL2 generator
- Large touch screen operation makes for easy navigation
- Optional "Crib-to-Oval" cutting feature for non-circular lens requirements

DIGITAL POLISHING

NEXUS DP & COBALT DP

"These look like polished lenses should look: they are clear, I can read them and see everything I need to in the surface"

"If there is an issue I can catch it before I waste the money and time coating them"

NEW! NEXUS DP

The NEXUS DP is the successor of the Cobalt DP lens polisher. It represents the next generation of high speed, soft-tool digital lens polishing. It produces polished lens that are optically clear and virtually haze-free. NEXUS DP can easily pair with NEXUS DGT or Cobalt NX, NXT, or NXT+ lens generators, as well as any other compatible freeform surface generator.

- Only 2 soft tool laps needed for polishing complete range of lens curves: 1 for 80% of range, 1 for remaining 20%
- 80% of range accomplished with just 1 lap
- Variable axis controls allow for precision and customizable control
- Haze-free polishing process that produces crystal clear lenses after polishing – no coating required to remove haze
- Manual rinse station with foot pedal operation
- Isolated polishing chambers allow polishing of two one-eye jobs of different materials at the same time
- Widest available soft-tool curve range: 0 to -14D, 6D cylinder, 6D prism

COBALT DP DIGITAL POLISHER

The Cobalt DP high speed, soft-tool digital lens polisher is part of the Coburn's high volume production system for freeform and traditional Rx lenses. Final polished lenses are optically clear (virtually haze-free), without the need to apply hard coating for optical clarity. It produces better surfacing (cut & polished) freeform lens results than any other system.

IVC LAP TECHNOLOGY

Utilizes advanced physics of soft-tool products with a unique 4-axis motion control so that only two tools are required, which radically simplifies and improves the overall polishing process in the lab.

CONVENTIONAL POLISHING

ACUITY PLUS & ACUITY MAX

"Its unique ergonomic design exceeds the industry standard, making it exceptionally fast and efficient"

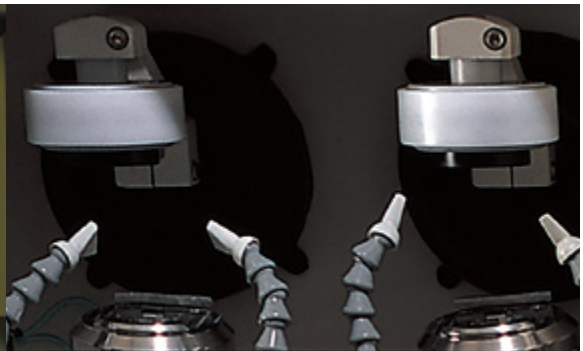
ACUITY PLUS CYLINDER MACHINE

The innovative Acuity Plus cylinder machine easily handles a wide curve range, producing consistently excellent results via a one- or two-step fining process. Such versatility is achieved without stroke adjustments. In addition, its unique ergonomic design exceeds the industry standard, making it exceptionally fast and efficient. Clean, modern styling, compact size, and quiet operation make it ideal for any lens processing environment.

- Enhanced fluid delivery system
- Accommodates a wide curve range
- Quick and easy calibration
- Unique ergonomic design with optional work light
- Compact and quiet

ACUITY MAX SOFT POLISHER

Now, it is possible to work in cut-to-polish mode in the production of conventional lenses with the Acuity Max polisher along with the CTL65 generator. Eliminating the use of hard tools from the conventional surfacing process, the user is able to reduce the storage space needed for tools as well as manual labor associated with maintaining the tools.



AUTODEBLOCKER

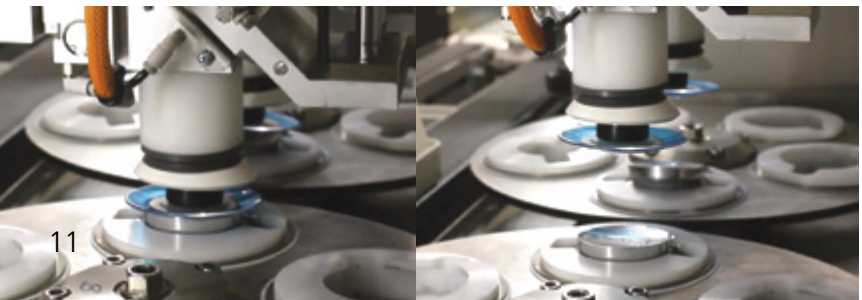
AGILITY

"The first of its kind; a completely waterless, automated deblocking solution"

AGILITY

Agility is ideal for high volume labs that prefer a convenient automated solution. Both lenses are automatically removed from a job tray, placed onto the appropriate deblocking rings, and then deblocked simultaneously using a mechanical action. Contrary to deblocking with powerful water jets that displace alloy, causes alloy waste, and produce contaminated water waste, Agility separates the lens from the block, without water, in one clean, swift, mechanical action. Achieve complete, seamless automation of deblocking, de-taping, cleaning and coating when paired with the Duality Lens De-taper & Cleaner and Velocity Optical Spin Lens Coater.

- High volume deblocking solution
- Completely waterless; eliminates toxic water waste
- Quick, mechanical deblocking
- Deblocks up to 220 lenses per hour
- Two options for block handling:
    1. Place on belt for downstream automated alloy recovery
    2. Drop into container for manual alloy recovery
- Deblocks all lens materials (except glass)
- Compatible with 50-90mm lens diameters with 2mm minimum overhang
- Smaller footprint than other automated deblocking options
- Easy access for services and diagnostics
- LMS connectivity



Alloy remains completely intact and ready for reclaim.

ALLOY RECOVERY

INTEGRITY

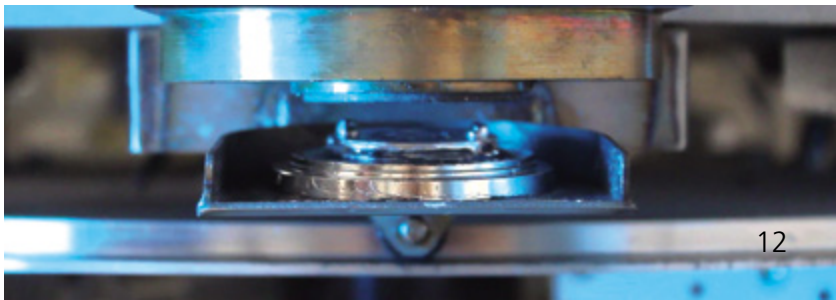
"Revolutionary in the optical industry, Integrity is substantially safer and more efficient for alloy recovery."

INTEGRITY

The Integrity Alloy Recovery System is the first and only product in the market that offers an automated, efficient, and environmentally friendly alternative for alloy recovery – without the use of water jets or hot water tanks. The Integrity system uses induction heating technology to melt a very thin layer of alloy where it engages the block, allowing the alloy puck to separate cleanly and completely intact. The collected alloy pucks can be placed directly into the reservoir of a lens blocker without having to remelt them beforehand. The blocks are collected or neatly stacked for reuse. As a completely waterless system, Integrity significantly improves lab cleanliness and safety.

- Pair with the Agility Autodeblocker for a complete deblocking and alloy recovery solution
- Completely waterless separation of block and alloy
- Safer and more environmentally friendly
- Processes up to 240 pieces per hour
- Alloy puck remains completely intact
- Alloy pucks are ready for reuse in a blocker
- Alloy is collected separate from blocks
- Blocks are collected or neatly stacked
- Small footprint

Pair with Agility for complete automation.



LENS DE-TAPER & CLEANER

DUALITY

"Save money and space with our one of a kind, 2-in-1, Duality."

DUALITY LENS DE-TAPER & CLEANER

With Duality, automation is expanded one step further in the lens production process. Paired with the automated Velocity Spin Optical Lens Coater, Duality offers hands-free processing from tape removal through cleaning and coating. Duality is the only machine to perform two (dual) functions (de-taping and cleaning) to the lens in one product. Save money and space with the following features:

- **De-Taping Mechanism:** Duality effectively removes surface saver tape off a broad variety of lens geometries and materials eliminating the labor associated with the traditionally manual process.
- **Two-Sided Lens Cleaning:** Clean lenses are critical to improving coating yields. Duality provides a thorough removal of all debris often found on a lens after surfacing – polish, tape adhesive and blocking materials. First, the lens is put through mechanical brush action cleaning, then a high pressure wash with detergent, followed by a rinse and dry.
- **Fully Automated:** Fed by a conveyor, the lens is automatically removed from the tray, de-taped, cleaned on both sides, and prepped for coating without manual intervention.
- **Savings:** The investment in Duality is easily justified with the labor savings usually applied to tape removal and lens cleaning, and is significantly lower than the cost of the competitive products.
- **Small Footprint:** Significantly smaller footprint compared to competing products at less than 12ft^2.
- **Fast:** Each station – tape removal, front side cleaning, and back side cleaning – completes their function in 20-30 seconds.

DUALITY^{AR}

Duality's capabilities have expanded! Remove progressive ink markings and UV-cured blocking materials, along with de-taping and cleaning.

- **Fully Automated:** Like the standard Duality, lenses are fed by a conveyor and automatically removed from the tray, de-taped, cleaned on both sides, and prepped for coating without manual intervention.
- **Small Footprint:** Same square footage as standard Duality, at less than 12ft^2.
- **Fast:** Each of the three stations – tape removal, front side cleaning, and back side cleaning – completes its function in 20-30 seconds.

Duality is also available as a wash-only unit.

HARD COATERS

VELOCITY

"Fully automated & fastest spin coater on the market"

VELOCITY 2D

Derived from the existing platform of the ground-breaking Velocity Automated Spin Coater, the Velocity 2D is the next generation of our Velocity system that offers a dual coating station as an option. The standard Velocity 2D machine comes with a single coating station. It can be paired with Coburn's Duality Lens De-Taper and Cleaner to offer labs smart, scalable automation for lens processing, as lenses are de-taped, cleaned, and coated in one smooth process.

The automation system handles the lens from the job tray through a multi-stage system of pre-cleaning, secondary cleaning system, coating, curing and then returning the lens to the job tray, without any operator involvement.

- Option to apply two coating solutions in one machine
- Automatic viscosity-adjusted coating height
- Spin speed monitoring for proper coating thickness
- Automated lens loading and unloading with multi-stage pre-cleaning system
- Throughput of up to 130 lenses per hour
- 5 station UV coating machine including load, wash, coat, cure and unload
- Thermally controlled coating station that keeps the coating viscosity consistent
- Recipe driven environment for coating process control
- LMS connectivity
- Easy access for services and diagnostics

VELOCITY MANUAL

The Velocity Manual Spin Coater accomplishes UV coating in five stations: load, wash, coat, cure and unload.

- Thermally controlled coating station that keeps the coating viscosity consistent
- Throughput of up to 120 lenses per hour
- Recipe driven environment for coating process control
- LMS connectivity
- Easy access for services and diagnostics

HARD COATERS

VELOCITY LTE & TT

VELOCITY LTE

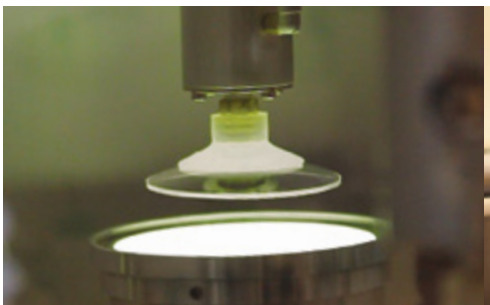
Velocity LTE Spin Coater is a backside, UV-cure lens coating system for small to mid-sized labs who seek more control in their lens coating processes. Each spindle can be controlled independently by the operator by way of a user-friendly control panel. Velocity LTE operates in a recipe-driven environment based on the type of coating, lens material or geometry of the lens. Coat lenses with custom cure profiles to control higher index materials, eliminating the warping of lenses. Loading lenses is simple; due to smarter programming, the next lens can be loaded during the coating of the first lens. Velocity LTE also has an auto-priming function immediately following lens load.

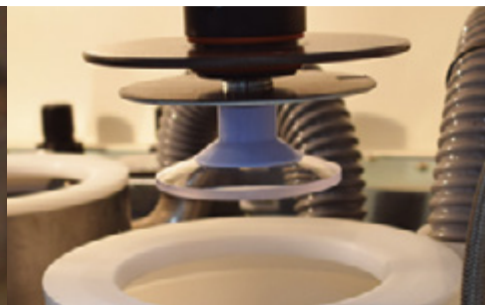
- Independent spindle speed control
- Recipe-driven environment for varying lens parameters
- Custom cure profiles to eliminate warping on high index materials
- Suitable for small to mid-sized labs
- Intuitive user interface
- Eliminates overspray
- Auto priming
- Processes up to 80 lenses per hour
- Small footprint

VELOCITY TT

The Velocity TT is the newest tabletop spin coater, offering compact and cost-effective lens coating for small and mid-sized labs. Velocity TT allows labs of virtually any size to hard coat lenses in their own space. Designed for efficiency, it processes two lenses in just 2:30 minutes, achieving a throughput of 40-50 lenses per hour.

- Compact and cost-effective
- Improved accessibility in producing high quality coatings in-house, improving turnaround times
- Eliminate the need for outsourcing
- Set-and-forget functionality
- Efficient and fast cycle time results in a throughput of 40-50 lenses per hour
- Consistent spin speeds and uniform coatings without the need for constant calibration
- All solids coatings





COBURN HARD COATINGS

PROCOAT, UVMAX, DURA-UV

"Optimized with HCLT adhesion, abrasion, yields, and tintability."

COBURN HARD COATINGS

Our coatings are developed with an unsurpassed, inline quality control process and the best raw materials. ProCoat, UVMAX, and DURA-UV are all UV cured, spin-on backside hard coatings. Each coating fulfills the following standards and features:

- Quick UV curing
- Hybrid Cross Linking Technology™
- Excellent adhesion to AR coating
- High abrasion resistance
- High optical clarity, less yellow index
- Unique filtration and purification
- Low viscosity and long life cycle
- Higher yields at a lower cost
- Compatible with standard UV curing systems and bulbs
- No volatile solvents

	ProCoat™	UVMAX™	DURA-UV™
MIN. VOLUME (BOTTLES/MO/UNIT)	1	2	4
ABRASION (TUMBLE SCORE)			
HC	2.1	1.3	1.6
HC + AR	2.6	2.0	2.9
ADHESION (CHOCA 24 HRS)			
HC ONLY			
PC / CR / Trivex	●●●●	●●●●	●●●●
HC + AR			
PC / CR / Trivex	●●●●	●●●●	●●●●
MR7	●●●○	●●●○	●●●○
MR8	●●●○	●●●○	●●●○
MR10	●●●○	●●○○	●●●○
1.70	●●●○	●○○○	●●●○
1.74	●●●●	●●●○	●●●●
TINTABILITY	●●●●	●●●●	●●○○
APPROVED COATERS	Velocity Velocity LTE MR3 Mini2	Velocity Velocity LTE MR3 Mini2 Simplicity	Velocity Velocity LTE MR3

Results are based on independent third party testing and/or testing by Coburn Technologies, Inc. Adhesion results may vary with different surfacing and cleaning procedures. Abrasion results with AR may vary with different AR designs and processes.

COBURN CONSUMABLES

"Our promise is that our customers can count on high quality consumable products to get the job done right the first time."

"Multiple non-alloy blocking materials for environmentally friendly solutions"

FREEBOND

- Proprietary, thermoplastic material
- Eliminates alloy use, reclaim, and waste management
- Formulated to remove health hazards and environmental risks in surface blocking
- Low melting, blocking temperature, and density results in cooler lens processing and fewer aberrations
- Approximately 240 lenses can be blocked per gallon.

JEANIE CUTTERS

For traditional and digital/freeform lens generating

- 2-3 times life over natural or synthetic diamond
- Lower your costs, reduce down time, and increase productivity
- Higher quality cuts on CR39, Hi-Index, Polycarbonate, plastic, etc.
- In stock for immediate delivery, re-lapping available
- Made in the USA

POLISHING PADS

- The unique dimples give the user a superior finish by allowing the polish to stay on the lens where the work is being done

FINING PADS

- Available in all standard sizes
- Aluminum oxide pad material

POLISH AND CHEMICALS

For both digital and conventional lens polishing systems

LAPS AND TOOLS

Dual stage tool for increased flexibility and greater lens support

- Chemical resistant foam that reduces chemical erosion of tool and contamination of polish

PREMIUM COATINGS, TINTS & DYES

- Fast curing, durable coatings feature excellent adhesion, low viscosity, great coating stability using a special bonding chemical formulation and unique UV/ thermal hybrid chemistry
- Tints formulated to provide the most consistent, uniform colors in the least amount of time, with excellent resistance to fading.

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Browse our complete catalog of consumables and spare parts.

LENS SURFACING LABS

Coburn Technologies provides the most reliable and diverse optical lens labs to fit every need and budget. Our diverse configurations provide a complete solution, with a smaller footprint and price-point than all others in their class.
Lab formats vary based on capabilities and volume and can be arranged and configured to your lab's specific needs.

Software	Blocker	Generator	Polisher	Coater
RXPro Lab Management Software	Spectrum Prismatic Lens Blocker	NEXUS DGT Digital Lens Generator	NEXUS DP Digital Lens Polisher	Velocity Manual Spin Coater

NEXUS FREEFORM LAB

NEXUS is designed to scale seamlessly with your business's specific freeform lens volume needs and can often integrate with your existing lens lab equipment. Step into the next generation of lens processing with NEXUS and experience unparalleled efficiency and adaptability.

Software	Blocker	Generator	Polisher	Coater
RXPro Lab Management Software	Spectrum Prismatic Lens Blocker	Cobalt NX Digital Lens Generator	Cobalt DP Digital Lens Polisher	Velocity LTE Spin Coating System

COBALT FREEFORM LAB

Enter the world of freeform without the prohibitive start-up costs, space requirements and technical complexity. This lab can be scaled to meet the specific volume of your business and can be adapted to work with lens lab equipment you already have.

Software	Blocker	Generator	Polisher	Coater
RXPro Lab Management Software	Spectrum Prismatic Lens Blocker	CTL65 Compact Lens Generator	Acuity Max Lens Polisher	Velocity LTE Spin Coating System

CUT-TO-POLISH LAB

Higher volume conventional lens processing with a two-step polishing process using versatile soft tools, plus UV spin lens coating. Adding the Cut-to-Polish system will enhance the value and production speeds of your lab.

Software	Blocker	Generator	Polisher	Coater
RXPro Lab Management Software	Spectrum Prismatic Lens Blocker	CTL65 Compact Lens Generator	Acuity Plus Lens Polisher	Velocity TT Spin Coating System

PREMIER LAB

A versatile system that combines open architecture design with advanced lens processing equipment. Everything is modular, including the software, that can automate lens processing. Premier Lab is the industry standard for small-format lens surfacing labs.

TECHNICAL CHARACTERISTICS

NEXUS GENERATOR / COBALT GENERATOR / GENERATOR

	NEXUS	COBALT NX	CTL65
POWER	Single Phase 230V/10A	Single Phase 230V/10A	Single Phase 230V/20A/50/60 Hz
DIMENSIONS	53"W x 30.5"D x 63"H 1346 x 775 x 1600mm	56"W x 36"D x 65"H 1422 x 914 x 1651mm	47"W x 31"D x 51"H 1194 x 787 x 1295mm
WEIGHT	1415lbs/642kg	1415lbs/642kg	1200lbs/544kg
BLOCKING	Pin Style/Acublock/Loh Style	Pin Style/Acublock/Loh Style	Acublock/Pin Style/Loh Style
CURVE RANGE	+7 to -20D	+7 to -20D	+7 to -20D/10 cylinder/10 prism
AIR REQUIREMENT	80-130 PSI @ 10 CFM	80-130 PSI @ 8 CFM	110–120 PSI @ 8 CFM
MORE DETAILS	Cold-Mist Cutting Chamber	Cold-Mist Cutting Chamber	

SURFACE BLOCKERS

	SPECTRUM[PR]	SPECTRUM[PL]	SPECTRUM
POWER	Single Phase 10V/10AMP Single Phase 220V/5AMP	Single Phase 10V/10AMP Single Phase 220V/5AMP	Single Phase 10V/10AMP Single Phase 220V/5AMP
DIMENSIONS	22"W x 23"D x 20"H 559 x 584 x 508 mm	22"W x 23"D x 20"H 559 x 584 x 508 mm	22"W x 23"D x 20"H 559 x 584 x 508 mm
WEIGHT	130lbs/59kg	130lbs/59kg	130lbs/59kg
BLOCKING	Loh Style	Loh Style	Pin Style
AIR REQUIREMENT	90 PSI @ 3 CFM	90 PSI @ 3 CFM	90 PSI @ 3 CFM
MORE DETAILS	Uses alloy blocking compound (Alloy item #991600)	Uses alloy blocking compound (Alloy item #991600)	Uses wax blocking compound (FreeBond item #164322)

AUTODEBLOCKER

	AGILITY
POWER	Single Phase 200-240V, 5A, 50/60HZ (1 outlet)
DIMENSIONS	63"W x 42"D x 73"H 1601 x 1069 x 1855mm
WEIGHT	722lbs/328kg
THROUGHPUT	Up to 220/hr
AIR REQUIREMENT	80-100 PSI, 5.5-6.9 bar, 17 SCFM
MORE DETAILS	All materials except glass. 50-90mm lens diameters. 2mm min. overhang

DE-TAPER/CLEANER

	DUALITY, DUALITY[AR]
POWER	Single Phase 220V/25A (2 plugs)
DIMENSIONS	85"W x 38"D x 70"H 2159 x 965 x 1778mm
WEIGHT	1282lbs/582kg
THROUGHPUT	120-150/hr
AIR REQUIREMENT	80 PSI @ 7.6 SCFM
MORE DETAILS	Available with or without heating (240v) and/or as a wash-only machine

ALLOY RECOVERY

	INTEGRITY
POWER	Single Phase, 16A, 208-230V, 50/60Hz
DIMENSIONS	78"W x 55"D x 52"H 1975 x 1392 x 1310mm
WEIGHT	750lbs/340kg
THROUGHPUT	240 pieces/hr
AIR REQUIREMENT	85-100 PSI, 6.9 bar, 1.5 SCFM
MORE DETAILS	Alloy pucks ready for reuse in any blocker. Blocks neatly collected and stacked.

POLISHERS

	NEXUS DP	COBALT DP	ACUITY MAX	ACUITY PLUS
POWER	Single Phase 230V/10A 15A. Dedicated circuit terminated by NEMA 6-15P plug.	Single Phase 230V/10A	Single Phase 230V/7.5A/50/60Hz 3-Phase 380V/7.5A/50Hz	Single Phase 230V/7.5A/50/60Hz 3-Phase 380V/7.5A/50Hz
DIMENSIONS	38"W x 47"D x 72"H 965 x 1194 x 1829mm	40"W x 40"D x 71"H 1020 x 1020 x 1810mm	18"W x 29"D x 54"H 450 x 735 x 1350mm	18"W x 29"D x 54"H 450 x 735 x 1350mm
WEIGHT	1000lbs/455kg	1000lbs/455kg	250lbs/113kg	250lbs/113kg
BLOCKING	Acublock/Pin Style	Acublock/Pin Style	Acublock/Pin Style	Acublock/Pin Style
CURVE RANGE	0 to -14D/6 cylinder/6 prism	0 to -14D/6 cylinder/6 prism	0 to -10D/6 cylinder/6 prism	0 to -20D/10 cylinder/10 prism
AIR REQUIREMENT	85-145 PSI @ 10 CFM	85-145 PSI @ 10 CFM	50-125 PSI @ 1 CFM	50-125 PSI @ 1 CFM
MORE DETAILS	2 spindles with 4-axis control (isolated polishing chambers) Base curve: 0 to 114 diopters Clean Water Supply of 65 PSI @ 17 GPM (min)	2 spindles with 4-axis control (isolated polishing chambers) Base curve: 0 to 114 diopters		

HARD COATERS

	VELOCITY 2D (AUTO)	VELOCITY 2D (MANUAL)	VELOCITY 1.5 (AUTO)	VELOCITY (MANUAL)	VELOCITY LTE	VELOCITY TT
POWER	Single Phase 220V/30A/60Hz	Single Phase 220V/30A/60Hz	Single Phase 230V/30A/60Hz	Single Phase 220V/20A/50/60Hz	Single Phase 120V/8A/60Hz	Single Phase 208-240VAC, 20A 50/60Hz
DIMENSIONS	68"W x 57"D x 72"H 1728 x 1448 x 1829mm	43"W x 34"D x 72"H 1039 x 864 x 1829mm	61"W x 61"D x 69"H 1544 x 1545 x 1752mm	34"W x 34"D x 69"H 864 x 864 x 1752mm	37.25"W x 28"D x 70"H 946 x 711 x 1778mm	35"W x 32"D x 30"H 889 x 813 x 762mm
WEIGHT	800-850lbs/363-386kg	600-650lbs/272-295kg	650-700lbs/1433-1543kg	450-500lbs/992-1102kg	573lbs/260kg	280lbs/127kg
THROUGHPUT	Up to 130/hr	Up to 130/hr	Up to 130/hr	Up to 130/hr	Up to 80/hr	40-50/hr
AIR REQUIREMENT	80 PSI One (1) 1/2" line	80 PSI One (1) 1/2" line	80 PSI @ 7.6 SCFM	80 PSI @ 7.6 SCFM	80 PSI @ 7.6 SCFM	80 PSI, 8mm quick disconnect
MORE DETAILS	Available with or without a steamer.		Available with or without a steamer.			

COBURN TECHNOLOGIES

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