CONSUMABLES AND EQUIPMENT
CATALOG - FALL 2023

888.268.3414



QUANTUM
CREATING SOLUTIONS

THE QUANTUM WAY

Our company was founded on the principle of servanthood, and out of this principle our core purposes were born. ***Be Servants. Be Fun. Be Experts. Be Disruptive. Be Knowledge Givers***. We believe that doing the right thing is the single most important thing we can do. We serve. This is the centerpiece of how our company is structured and what guides us.

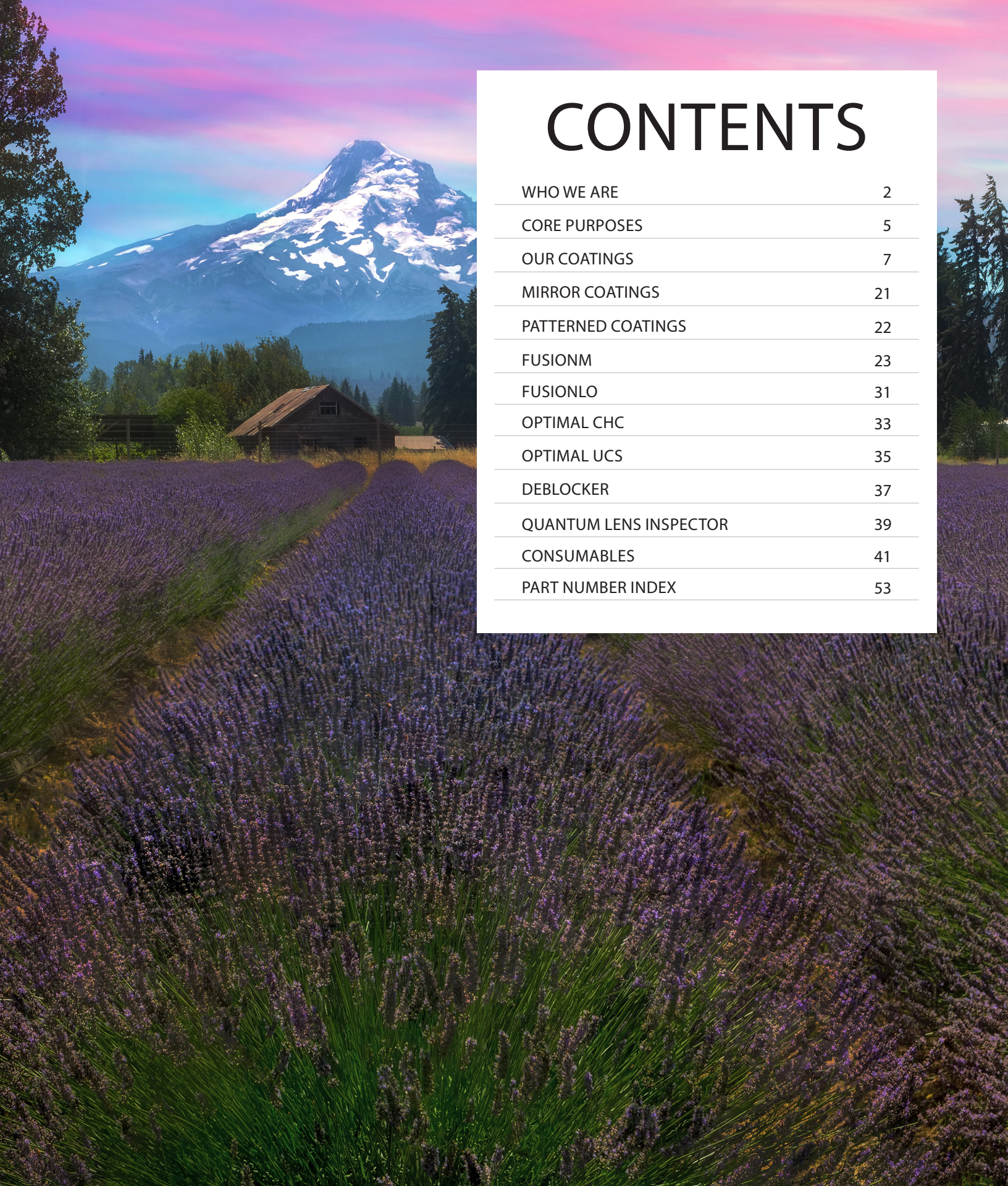
As Quantum has grown, we've continued to keep servanthood, serving our customers and serving each other, at the heart of who we are. We have seen that when trust and empowerment are high, innovation and creativity are also high. We have a lot of fun and love a great challenge. We take innovative approaches to complicated issues because we think a little differently.

We are a science-based organization, and we hang our hats on becoming experts at whatever we put our hand to. It is our privilege to take the expertise we have gained and freely give it away. We believe knowledge should be shared and not hoarded. It's a disruptive way of thinking, but we believe in being knowledge givers.

Treat others the way we would want to be treated. Keep others at the center. Give from what we've gained. If we do these things, others will be successful and, in turn, so will we.

That's the Quantum way of thinking.

Norm Kester
Company Founder



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QUANTUM

WHO WE ARE

We're the global independent leader in thin film technology, and we don't just stick to ophthalmic, either. From AR, mirror, and attenuation (blue light absorbing) coatings to anti-microbial, laser protection, anti-fog, and water and stain repellency,t our loyal customers know they can count on us. It's not a question of if we can solve their problem. The question is how soon we can get to work.







Services

We provide a wide range of services and products at Quantum to keep you running smoothly. Here are some of the ways we'd love to work with you!

- Customer service and support
- Thin film coatings design and implementation
- Specialty R&D for thin film and application
- Training for AR process, hard coat and machinery
- Machine maintenance support and service
- Quality testing and assurance for lenses

Contact Us

We have a variety of channels you can reach out to us through. We'd love to hear from you!

TOLL-FREE LINE
888.268.3414

TECHNICAL SUPPORT LINE
888.214.7932

SALES DESK
SALES@QTMI.NET

TECHNICAL SUPPORT
TECHNICALSUPPORT@QTMI.NET

PROCESS SUPPORT
PROCESSSUPPORT@QTMI.NET

COMPLEX PROBLEM SOLVING

Our R&D team has diverse training in chemistry, physics, and biology, and we work closely with material manufacturers to conduct research and development of new thin film technologies that meet the diverse and evolving needs of the future. We're raising the bar, contributing to the realization of technology that doesn't even exist yet.

QUALITY ASSURANCE

Our manufacturing team is detail-oriented and precise, working closely with R&D to ensure our customers receive products of the highest quality. Careful planning, organization, direction, and control of all quality assurance activities make our systems and products superior to any other on the market.

CREATIVITY

We're different, and our company culture is our secret weapon. We are a collaborative bunch who love showing up to work every day to slay thin film technology dragons. We create solutions and solve problems together, knowing that safety and trust are the foundations for creativity and innovation. We cheer each other on, hold each other accountable, and we have fun doing it.

Ophthalmic.

In addition to anti-reflective, mirror, and blue light blocking coatings, and sputter coating equipment, we also offer a wide range of refurbished lab equipment required in an ophthalmic environment.

AR COATINGS

Anti-reflection coatings are applied to increase the throughput of light to the eyes and reduce hazards caused by reflections.

BLUE LIGHT BLOCKING COATINGS

By applying a blue light blocking coating to glasses, the contrast is increased, making it easier to focus and reducing eye strain when looking at television, computer, and phone screens.

MIRROR COATINGS

We are experts at applying material to a variety of surfaces. For achieving a highly reflective, mirrored surface, the most prevalent method involves the vacuum deposition of a reflective coating onto a polished surface.

SMALL BATCH COATING EQUIPMENT

Our thin film deposition systems are ideal for a wide range of applications.



Space.

The final frontier requires the most innovative products on the market. We're leading the charge with optical mirrors designed for the precision and safety required in the aerospace industry.

IR REFLECTOR

Infrared radiation mirrors are optical mirrors designed for enhanced reflectance of the infrared spectrum. IR mirrors are used in a range of aerospace applications including high-powered laser and optical.





Tech.

Every day, tech companies are creating solutions in a rapidly changing world. We're keeping pace with the world's brightest innovators, ready to meet the demands of tomorrow.

OBLIQUE INCIDENT ANGLE

Our oblique incident angle is an anti-reflective coating commonly used in augmented and virtual reality applications.



Outdoor.

Make the most of your outdoor adventures with innovative coatings that keep working for you, rain or shine. We've designed durable, quality processes that withstand the elements.

ANTI-FOG COATINGS

Capable of reducing glare and improving transmission, siloxane coatings can also improve durability and abrasion resistance. Specialty UV-cured coatings are perfect for sun and safety lens applications, and super hard coats extend wear and increase hardness.

AR/MIRROR COATINGS

Excellent for use with sun wear, our anti-reflective/mirror coatings increase the throughput of light and reduce hazards caused by reflections.

HYDROPHOBIC/OLEOPHOBIC

When coated, the surface of glass and lenses become water-resistant, repelling water, dust, oil, and a host of other aqueous solutions allowing for easy cleaning of the substrate.



LASER ATTENUATION COATINGS

Designed to reduce or remove excess energy in an optical system, our attenuation coatings decrease the transmission levels of incident light energy.

CORE PURPOSES

These fall under both our core purposes and our mission statement. They are five things that we strive to "Be" in order to fulfill our mission statement.

When we gather together, as an entire team, we (like many other companies) are trying to ensure that everything we do is consistent and in alignment with what we stand for. Practice what you preach.

We think leadership looks like this.
Creating moments.
Teachable moments.
Human moments.

BE SERVANTS

We are inspired by:
MOTHER TERESA

"Love cannot remain by itself – it has no meaning. Love has to be put into action, and that action is service."

Mother Teresa was a Catholic nun who dedicated her life to caring for the destitute and dying in the slums of Calcutta India. She worked specifically with a caste of people known as "the untouchables." In her life she cared for, loved, and served those whom society had cast out, believing that service is love in action.

Mother Teresa inspires us to look past ourselves and to serve the needs of our customers, neighbors, community, and each other.



BE DISRUPTIVE

We are inspired by:
MALALA YOUSAFZAI

"One child, one teacher, one book, one pen can change the world."

When **Malala** was 15 years old, she spoke publicly against the Taliban, in her home country of Pakistan, that she believed girls had the right to learn. On her way home from school, a Taliban member boarded her school bus and shot her in the head. Miraculously she survived. When she woke up 10 days later, she decided that she would use her life to speak up for marginalized women all over the world. Malala received the Nobel Peace Prize at 17 for fighting for girls' education.

Malala inspires us to be brave and cause positive disruption through generosity, education, and kindness in our community and in our company.



BE FUN

We are inspired by:
ROBIN WILLIAMS

"There's three things in this world that you need: Respect for all kinds of life, a nice bowel movement on a regular basis, and a navy blazer."

Robin Williams was known for his improvisational comedic genius. He made us laugh. He made us cry. He gave his immeasurable talent freely and generously to those who needed it most—from our troops stationed abroad, to the marginalized on our own streets.

Robin inspires us to keep fun and joy in our hearts and in our workplace.



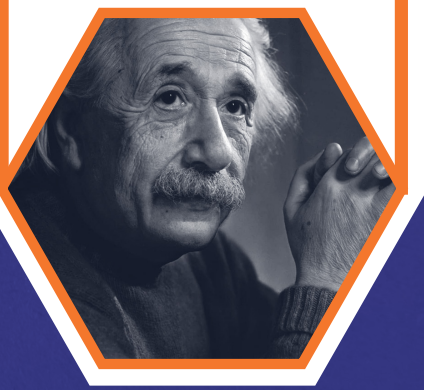
BE EXPERTS

We are inspired by:
ALBERT EINSTEIN

"I have no special talent. I am only passionately curious."

Einstein was a prolific German physicist perhaps most famous for his theory of relativity. Einstein was also known for his important contributions to the philosophy of science, his work in theoretical physics, and his discovery of the "law of photoelectric effect." This was a huge step forward in the development of quantum theory.

Einstein inspires us to continue to create, innovate, and truly be experts in our field.



BE KNOWLEDGE GIVERS

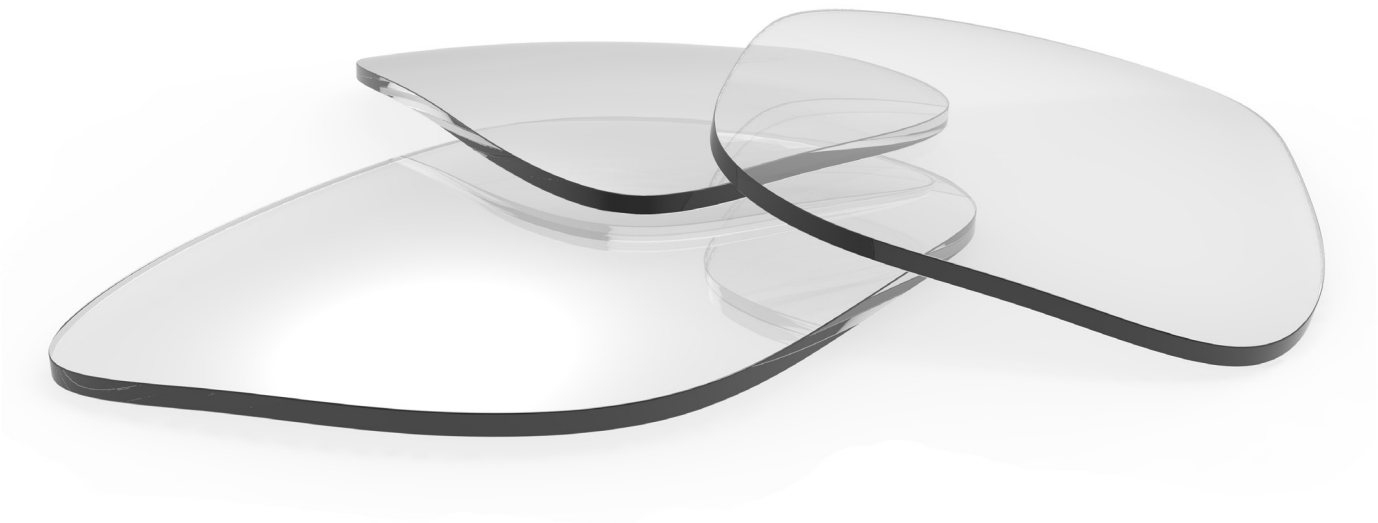
We are inspired by:
MARTIN LUTHER KING JR.

"Life's most persistent and urgent question is, 'What are you doing for others?'"

Martin Luther King Jr. is a prolific figure. It is difficult to write only a few sentences to describe how he inspires us as a company. We are grateful and inspired by the way MLK led a nonviolent movement during a time of segregation in America. He shared his knowledge and vision of an equal and unified America and for that we are forever grateful and inspired.

Martin Luther King Jr. inspires us to share what is true and what is right.





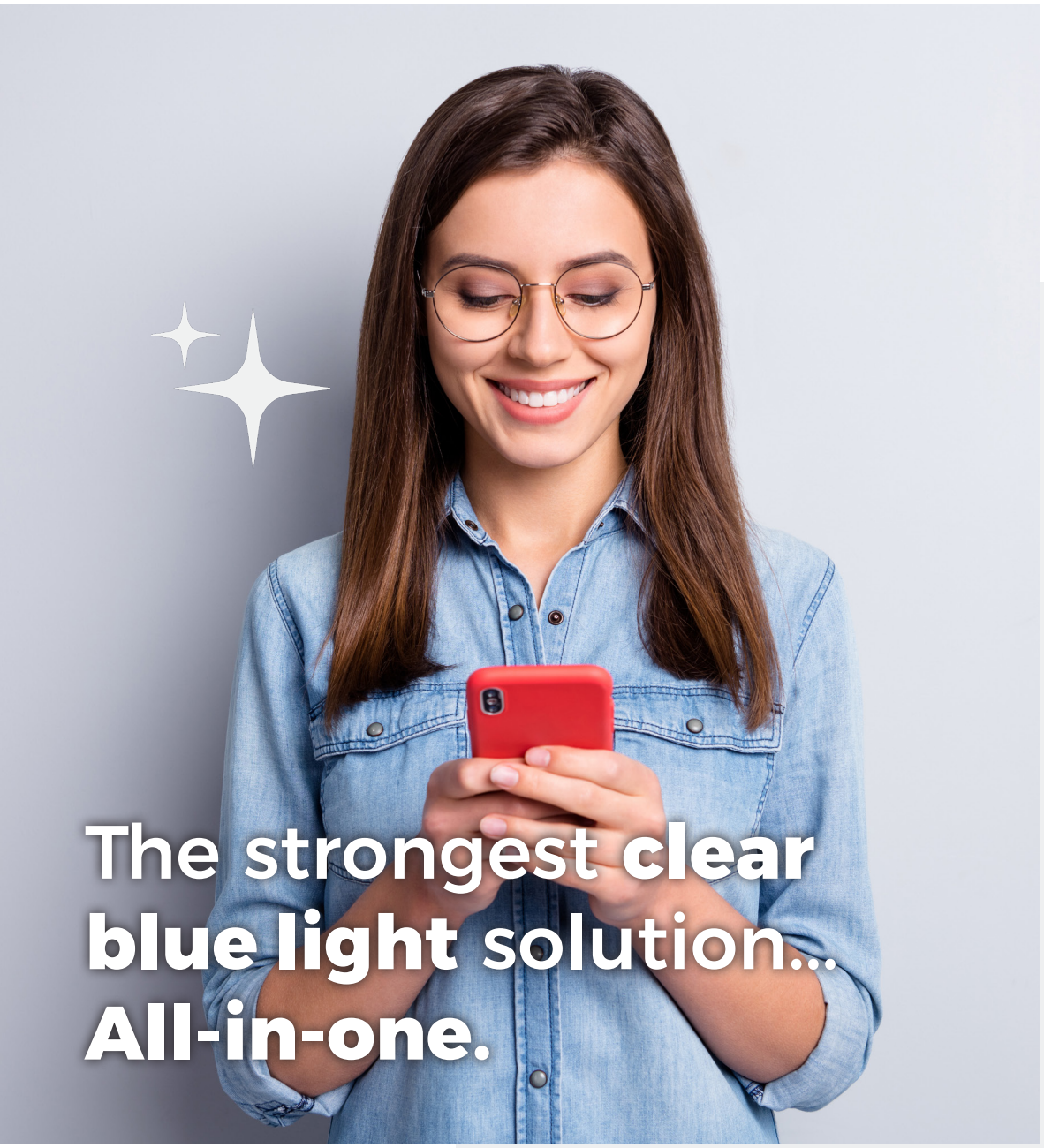
QUANTUM COATINGS

Quantum is committed to high-quality, hi-tech coatings that provide superior durability, performance, and protection.

Whether as a hardened layer protecting lenses against scratching, or a premium anti-reflective add-on reducing annoying glare and reflections, our coatings improve visual comfort, make eyeglasses easy to clean, and ensure that they last longer. Some of our coatings block ultraviolet and infrared light when outdoors, while others absorb blue light for eyeglass wearers exposed to digital devices and computers.

ALL NEW!

ATLAS + E.A.T. HARD COAT



Sentinel Atlas™, our best Light Enhancing Technology meets our most scratch-resistant, blue light hard coat. **Atlas + E.A.T. Hard Coat**™ absorbs high energy visible blue light from digital devices while providing unmatched durability for every lifestyle, ensuring constant protection.

FEATURES AND BENEFITS

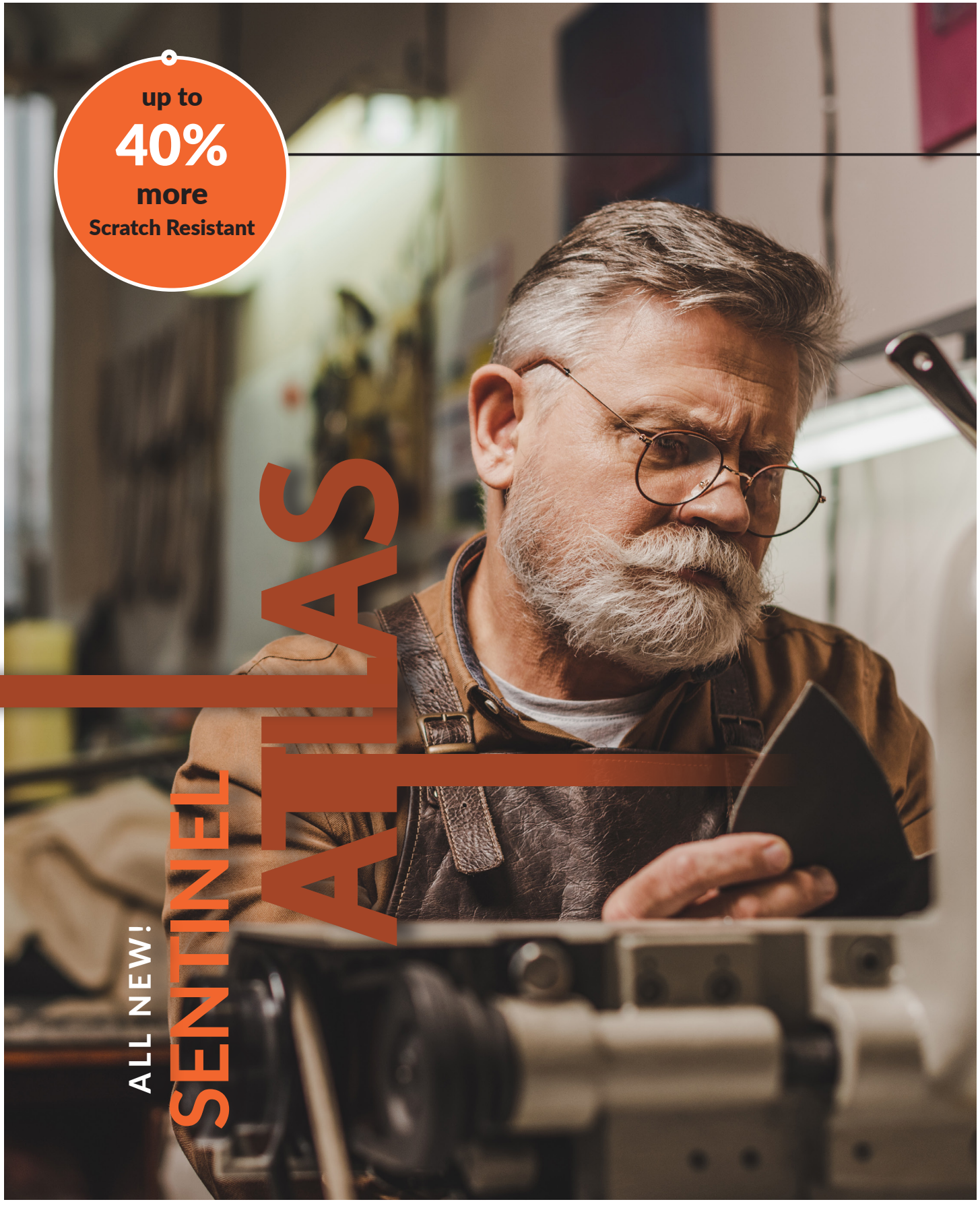
2X the durability of premium coated lenses.

Up to 40% additional blue light filtering, beyond initial material benefits.

Clear and non-distruptive, meaning your **color perception** and your **circadian rhythm remain unaffected.**

100% UV protection with 97.9% visible light transmission.

Super Hydrophobic and Oleophobic for easy cleaning, scratch and dust resistance.


up to
40%
more
Scratch Resistant
ALL NEW!
SENTINEL
ATLAS

FEATURES AND BENEFITS

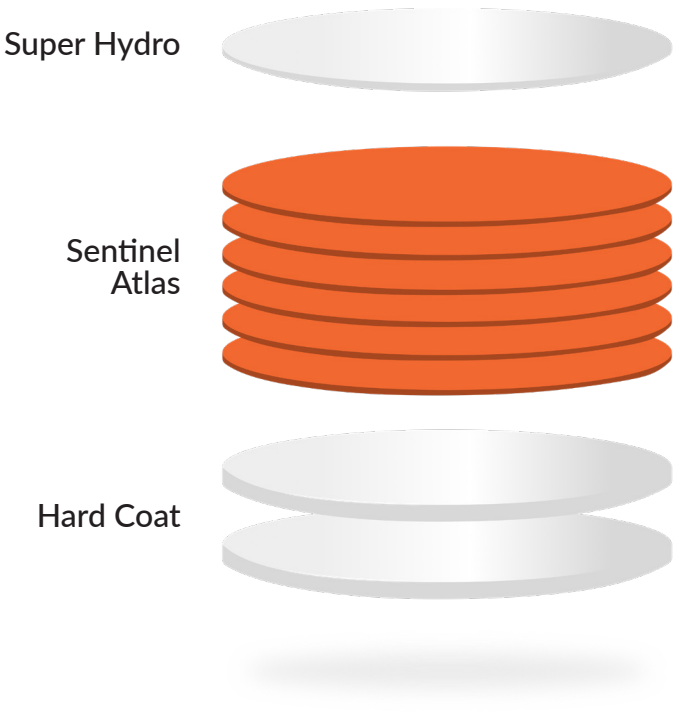
Made for everyday durability

You need lenses that can resist the scratches and smudges of everyday life. From falls — to drops — to a quick cleaning with your shirt, your glasses go through a lot, and they deserve lenses that can stand up to your everyday life.

Sentinel Atlas™ is a Light Enhancing Technology (L.E.T.) that combines our adhesion technology with a compact, dense film, meaning Atlas is our most scratch-resistant anti-reflective coating with reduced backside UV reflection. Combining our signature Sentinel anti-reflective coating with our best scratch- and smudge-resistant technology makes Atlas-coated lenses ready for everyday durability.



The technology



REDUCE BACKSIDE UV REFLECTION

Enjoy a beautiful green AR that optimizes clarity and minimizes backside UV reflection.

SUPER HYDRO/ OLEOPHOBIC COATING

Smudges are the worst. Our SHP will make your glasses brilliantly easy to clean.

SUPER SCRATCH RESISTANT

We use advanced techniques to create a more compact/ dense film that is especially suited to withstand the rigors of everyday use.


an
average of
10%
more
light transmitted
vs non-coated
lenses
SENTINEL + UV

Let the Good Light In

Sentinel+ UV* is our premium anti-reflective coating with UV protection. The coating is available in green, blue, and gold variations — the only UV coating available in multiple colors.

This premium Light Enhancing Technology is applied using a process that makes it extremely scratch-resistant and incredibly durable. This coating provides all-day comfort and a backside UV Treatment for increased visual health.

With Sentinel+ UV, there is a 98% transmission of visible light to your eyes; an average of 10% increase over non-coated lenses!

*The Sentinel coating family also includes Sentinel and Sentinel+.

What is Light Enhancing Technology?

Sharp, clear vision and healthy eyes are essential qualities to maintain your busy lifestyle with comfort and ease.

Light Enhancing Technology (L.E.T.) provides the ideal level of comfort and contrast with less glare, simultaneously improving your look by eliminating reflections on the lens and allowing people to clearly see your eyes.

This revolutionary coating is easy to clean, and resists dirt and fingerprints so you don't have to clean your lenses as often. By blocking UV-A and UV-B light, you can protect your eyes from damaging sun exposure. Experience clear vision minus the glare from indoor lights, computer screens, and night driving with Sentinel+ UV.

FEATURES AND BENEFITS



SUPER HYDRO/ OLEOPHOBIC

Repels water and oil, making cleaning easy

BACKSIDE UV PROTECTION

Reduces UV reflection off lens, minimizing eye strain

MULTIPLE COLORS

Only UVAR available in multiple colors

SCRATCH RESISTANT

Minimizes risk of scratching with hard coating

L.E.T.

(LIGHT ENHANCING TECHNOLOGY)

Creates less glare while increasing light to the eye

SENTINEL+ BLUE AR



Sentinel+ Blue's™ super hydrophobic layers and anti-static properties make your lens surface more slippery and less likely to attract water, oil, and dirt. This feature is especially desirable for anti-reflective coatings, as less glare makes it easier to notice dirt and smudges on lenses. Easy to clean and resistant to scratches, this coating's subtle blue color will keep you looking good, and your eyes feeling great.

FEATURES AND BENEFITS

Super hydro/ oleophobic surface repels water and oil, making cleaning easy.

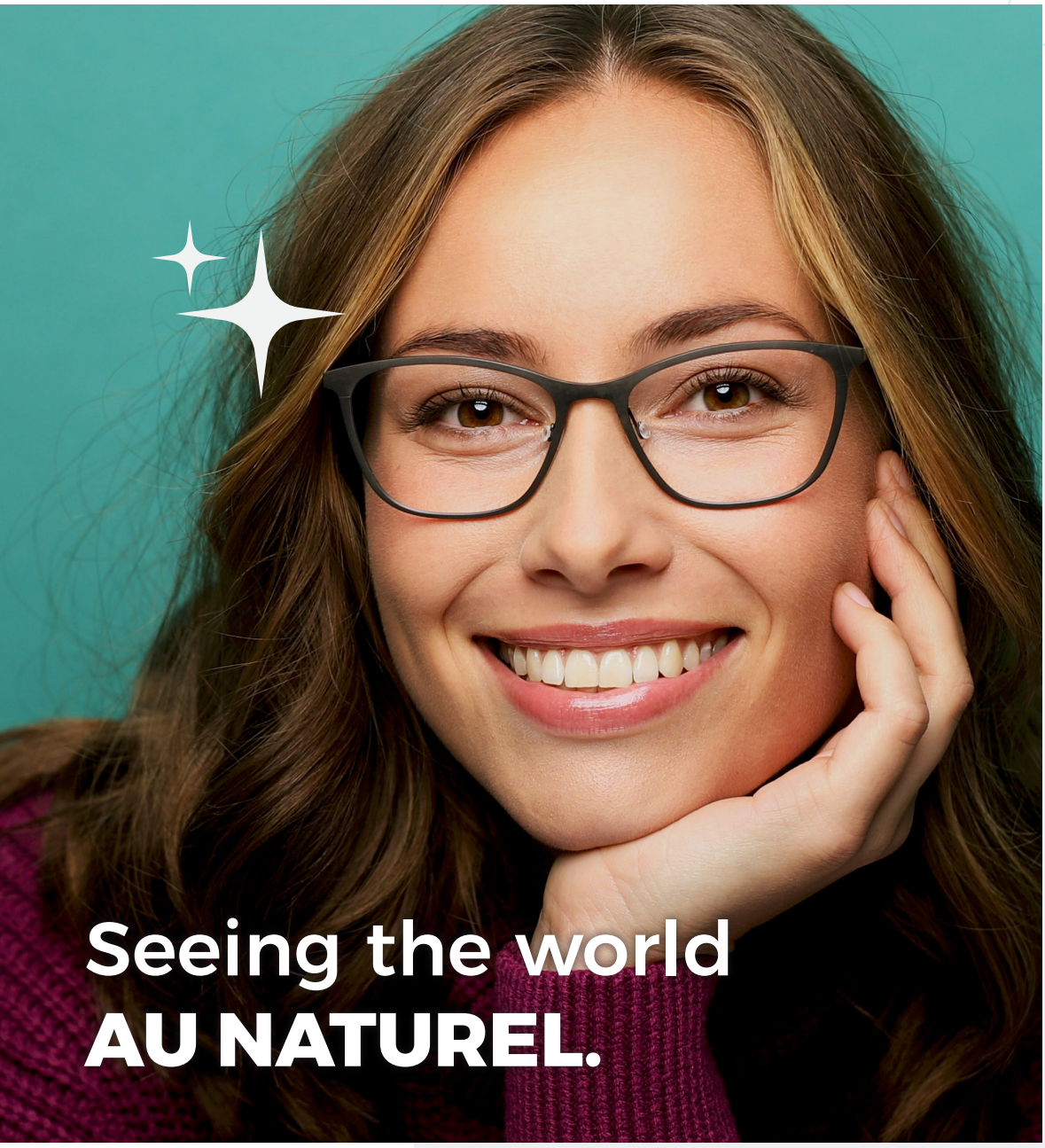
Reduce UV reflection off lens, minimizing eye strain with **Backside UV Protection.**

The **blue toned residual hue** reflects a pleasant, subtle blue color.

Minimizes the risk of scratching with a protective coating.

Easy to clean with minimal streaks and smudges.

NATURAL AR



FEATURES AND BENEFITS

Super hydro/ oleophobic surface repels water and oil, making cleaning easy.

Reduce UV reflection off lens, minimizing eye strain with **Backside UV Protection.**

Allows **more vibrant color** to shine through with total clarity.

Minimizes the risk of scratching with a potective coating.

Easy to clean with minimal streaks and smudges.

Natural AR™ is a premium lens treatment that is highly transparent and is ideal when we do not want to change the color of the wearers lenses (for example, with photochromic, polarized lenses or different activities like graphic design and photography where the color perception is key). Natural is a Light Enhancing Technology that offers a more aesthetic AR lens, allowing you to see and look better while offering superior cleanability and durability.

E.A.T. HARD COAT

ENERGY ABSORBING TECHNOLOGY



Energy Absorbing Technology (E.A.T.)™ reduces glare and eye strain from digital devices by providing a better blue light solution that can turn any clear lens into our absorption technology. E.A.T. helps your patients see, feel and perform their best all while preserving great eye health.

FEATURES AND BENEFITS

Absorb 20% high energy lightwaves **without reflection**.

Non-disruptive for normal cortisol production.

Promotes **sharper vision** and improves low light transmission.

Lower inventory by turning **any clear lens** into a blue light filter. Works with **all lens types**!

Available in your favorite AR colors.

NIGHT DRIVING HARD COAT



Night Driving Hard Coat filters out yellow light between 565 and 595nm, reducing light glare and improving color saturation of viewed objects. The improvement in color saturation, contrast, and rendition look rather striking, particularly at low levels of illumination.

FEATURES AND BENEFITS

Reduces high intensity light flares from light sources.

Helps **reduce light sensitivity** and provides eye strain protection.

Improves color contrast and **sharpens vision in low light conditions.**

Lower inventory by turning **any clear lens** into a night driving lens.

INFARED GUARD AR



FEATURES AND BENEFITS

Reduces the surface temperature on the eye and lens.

Super hydro/ oleophobic surface repels water and oil, making cleaning easy.

Minimizes the risk of scratching with a protective coating.

Promotes **sharper vision** and improves low light transmission.

Easy to clean with minimal streaks and smudges.

Presenting our groundbreaking **Infared Guard AR** ™ coating – Engineered to provide exceptional anti-reflection (AR) properties while also acting as an infrared (IR) shield, this coating sets a new standard in visual clarity and eye protection. By effectively reducing lens temperature, it ensures a comfortable and strain-free viewing experience. Its super hydrophobic nature guarantees resistance to water and smudges, and reducing backside UV reflections ensuring your vision remains consistently clear. Step into a world where innovation and protection converge, redefining how you see and experience the world.

PHOTOCHROMIC HARD COAT



No need for swapping glasses and sunglasses with a hard coat that adapts seamlessly to any lighting. Optimal vision and comfort anytime and anywhere. Ideal for patients seeking to feel and perform their best all while preserving great eye health and protection for your eyes every day. Available independently with private label opportunities.

FEATURES AND BENEFITS

Lower inventory by turning **any clear lens** into a photochromic.

A lens that **blocks 100% of UV** and reduces outside glare.

Promotes **sharper vision** and improves low light transmission.

Dark outdoors — **clear** indoors.


reflects
up to
18%
of rays
across blue light
spectrum
RETINAL BLISS
DES

FEATURES AND BENEFITS

Digital Life Without the Strain

Retinal Bliss DES™ is an AR coating that provides high energy blue light protection, preventing destructive frequencies from reaching the eye. Retinal Bliss DES™ includes backside UV protection, blocks the irritating effects of heavy electronic use, and gives the eyes rest from daily exposure.

Over 60% of Americans suffer from Digital Eye Strain (DES), and with increasing amounts of time spent in front of screens, that percentage could increase as well. Keep ahead of the game with a coating to protect yourself from the strain!

Give Your Eyes a Break!

Our eyes work a lot harder than we give them credit for! More than one-third of adults spend 4-6 hours a day with digital devices, and 14% spend 10+ hours with them. All that high energy visible light (400nm to 455nm) can contribute to or worsen Digital Eye Strain and its symptoms.

Do you find yourself struggling with blurred vision, light sensitivity, headaches, fatigue, or red, irritated eyes? These symptoms could mean you are suffering from DES – The good news is, the solution is easy.

Try **Retinal Bliss DES™** and feel the difference yourself.



SUPER HYDRO/ OLEOPHOBIC
Repels water and oil, making cleaning easy

BACKSIDE UV PROTECTION
Reduces UV reflection off lens, minimizing eye strain

EASY TO CLEAN
Cleans with minimal streaks or smudges

SCRATCH RESISTANT
Minimizes risk of scratching with hard coating

EYE STRAIN RELIEF
Creates less glare while increasing light to the eye

MIRRORS

Mirror treatments are engineered using dielectric process technology under controlled vacuum conditions. This delivers lenses that satisfy the increasing demand for greater sun protection by guarding against harmful UVA light. Mirror treatments combine the latest technological advancements resulting in a durable, slick and easy-to-clean premium quality sun wear.













PATTERNED COATINGS

EXPRESS YOURSELF.



Our unique customized patterned coatings meet the needs of your best customers by displaying heaps of personality without compromising visual clarity. Have a vision for your one-of-a-kind pattern? We're ready to make it happen.

Contact us today to design a patterned coating to set your brand apart.

WHY PATTERNED COATINGS?

These distinctive lenses offer many eye-catching benefits for you, and your customers!

- One-of-a-kind, patterned coatings express the personality of your brand
- Add a personal touch to your lenses without compromising visual clarity
- Visible on the front only from certain angles and is completely unnoticeable to the wearer from the backside



QUANTUM FusionM

FUSIONM® IN-LINE COATER

The FusionM® provides ultimate flexibility because it applies process on both sides of the lens at the same time, one lens at a time. The revolutionary in-line coating system allows the application of completely different processes from lens to lens so your lab can say yes to any request with no need to wait for enough orders to fill a large batch.

FusionM® has quick start up and shut down times, ready to begin single piece flow production in less than 7 minutes after powering on. This allows the FusionM® to be more efficient, requiring far less energy consumption which may provide additional cost savings.

Part Number: 95-100140-00

THROUGHPUT

based on an 8 hr shift

AR Only*	Avg. 70 Jobs
Mirror Only	Up to 100 Jobs
SHP Only	200+ Jobs

**Depends on lens and coating process specs*

SPECS

Weight: 1500 lbs
Dimensions: 63" x 34" x 72"

- Fits through a man door
- No clean room needed


Fusion M

FusionM Infeed

ANTI-STATIC GUN	90-200019-00
ANTI-STATIC GUN MOUNT	20-900059-00
POSITION SENSOR TIP	20-900062-00

ANTI-STATIC GUN

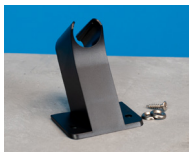
Eliminates static charge from the lens to keep particulates from sticking to it. Also blows the particulate away from the surface of the lens.



Part Number: 90-200019-00

ANTI STATIC GUN MOUNT

Mounting bracket for the anti-static gun. This mount provides a stable, convenient location for easy use.



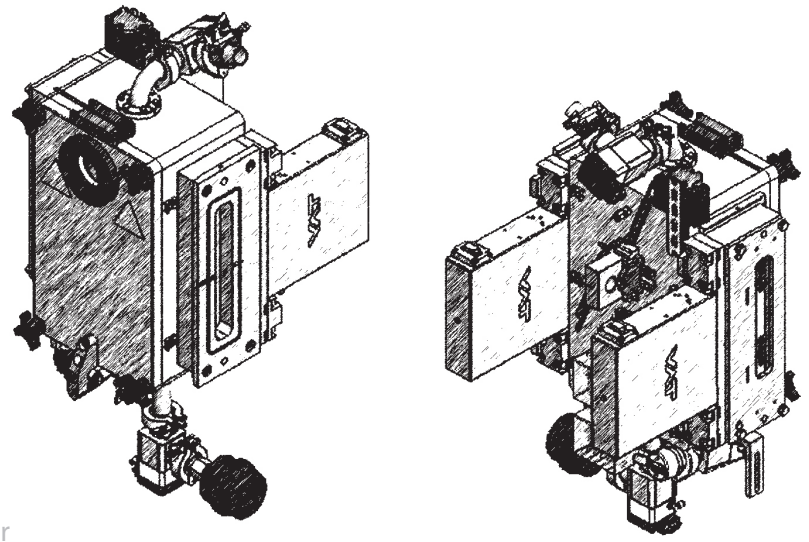
Part Number: 20-900059-00

POSITION SENSOR TIP

Teflon tip that attaches to the end of the position sensors to prevent scratching of lenses. Position sensors help the system put the correct thickness of coating on the lens.



Part Number: 20-900062-00



Glow Chamber

FusionM Glow Chamber

GLOW PADDLES	30-200546-00
CERAMIC INSULATOR	20-900005-00

GLOW CHAMBER

This microscopically etches the surface of the lens to promote adhesion. It also acts as a vacuum load-lock so the deposition chamber can stay at high vacuum between runs.

GLOW PADDLES

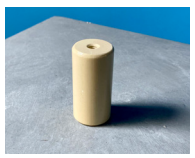
Uses electrical current to create plasma with the oxygen that is let into the chamber.



Part Number: 30-200546-00

CERAMIC INSULATOR

Insulates the glow paddles from the chamber to prevent a short circuit.



Part Number: 20-900005-00

FusionM Dep Chamber

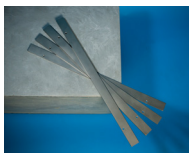
WHEEL DRIVE ASSEMBLY	90-300008-00	WHEEL STOP ASSEMBLY 3.66OD Wheel	90-200056-00
RAIL, UPPER	30-200217-00	WHEEL SENSOR 80mm Wheel	90-200104-00
RAIL, LOWER	30-200604-00	WHEEL SENSOR 3.66OD Wheel	90-200102-00
HIGH INDEX MASK	30-200767-95	SHIELD KIT	90-300154-00
LOW INDEX MASK	30-200768-95	SHIELD HARDWARE KIT	30-200546-00
WHEEL STOP ASSEMBLY 80mm Wheel	90-200103-00		

DEP CHAMBER

The chamber where the AR and mirror coatings are applied to the lens.

RAIL, UPPER

Allows the wheels to roll through the system and keeps the wheel upright. The rails will get coated over time and need to be removed and cleaned or replaced periodically.



Part Number: 30-200217-00

HIGH INDEX MASK

Blocks a certain amount of the high index material during deposition to ensure the coating is applied evenly over the surface of the lens.



Part Number: 30-200767-95

WHEEL DRIVE ASSEMBLY

Enables the rotation of the wheel during process. This ensures even distribution of the coating across the surface of the lens.



Part Number: 90-300008-00

RAIL, LOWER

Allows the wheels to roll through the system and supports the wheel. The rails will get coated over time and need to be removed and cleaned or replaced periodically.



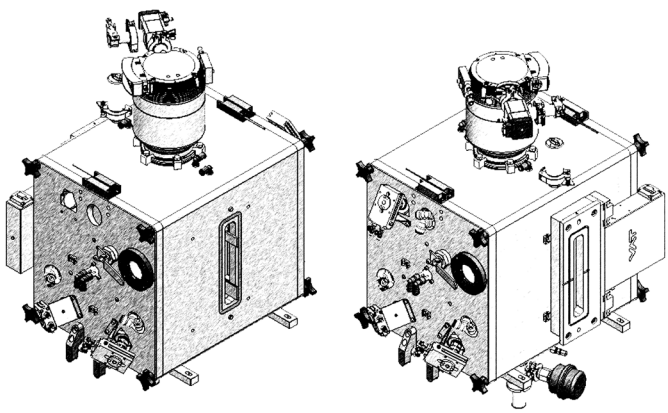
Part Number: 30-200604-00

LOW INDEX MASK

Blocks a certain amount of the low index material during deposition to ensure the coating is applied evenly over the surface of the lens.



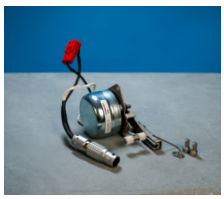
Part Number: 30-200768-95



Dep Chamber

WHEEL STOP ASSEMBLY

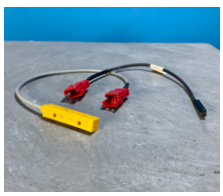
Keeps the wheel in place in the chamber during process. When the process is complete, it lowers the arm and allows the wheel to roll to the next chamber.



80mm Wheel Part Number: 90-200103-00
3.66OD Wheel Part Number: 90-200056-00

WHEEL SENSOR

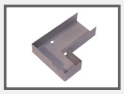
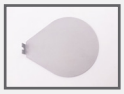
Senses the presence of the wheel when the wheel is in front of it. This is how the machine knows where the wheels are during process.



80mm Wheel Part Number: 90-200104-00
3.66OD Wheel Part Number: 90-200102-00

FusionM Shield Kit

90-500094-00

	WHEEL STOP COVER 30-200840-95
	LOWER DEP CHAMBER DOOR 30-200240-95
	UPPER LEFT DEP CHAMBER DOOR 30-200241-95
	UPPER RIGHT DEP CHAMBER DOOR 30-200242-95
	DRIVE HOUSING 30-200329-95
	BACK SOLENOID HOUSING 30-200330-95
	TOP CHAMBER SHIELD 30-200331-95
	BOTTOM FRONT CHAMBER SHIELD 30-200332-95
	BOTTOM BACK CHAMBER SHIELD 30-200333-95
	CROSSTALK SHIELD 30-200934-95
	4" MAGNETRON SHUTTER 30-200936-95
	HIGH INDEX MASK 30-200767-95
	LOW INDEX MASK 30-200768-95
	4" TARGET CLAMP RING 30-210030-00
	MAGNETRON SHAFT FIXED SHUTTER 30-210133-95
	STORAGE BIN 30-300080-00
	TURBO LOUVER 30-200256-95
	VIEWPORT SHUTTER 90-100033-00
	SIDE ANODE WELDMENT 90-100064-95
	FRONT ANODE COOLING PLATE 90-100063-00
	BACK ANODE COOLING PLATE 90-100066-00
	REAR CENTER CHAMBER SHIELD 90-300155-00
	FRONT CENTER CHAMBER SHIELD 90-300156-00
	OXYGEN TUBE ASSEMBLY 90-400073-00
	SHIELD HARDWARE KIT 90-500065-00

Shield Hardware Kit

90-500065-00

	SHC SCREW, 10-32 X 5/8", SST 20-101032-10
	VENTED SHC SCREW, 10-32 3/8" SST 20-801032-06
	FLAT SCH SCREW 10-32 X 1/4" SST 20-900074-00
	SCH SCREW, M4 0.7X14MM 18-8 SST 22-100407-14

FusionM Hydro Chamber

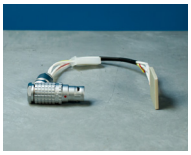
HYDRO HEATER	90-200048-00
DISPENSE VALVE	90-200057-00

HYDRO CHAMBER

The chamber that applies the super hydrophobic coating to the lens. Also acts as a vacuum load-lock so the deposition chamber can stay at high vacuum between runs.

HYDRO HEATER

Ceramic heater that heats the super hydrophobic solution to evaporate it onto the lens.



Part Number: 90-200048-00

DISPENSE VALVE

Valve that opens to dispense super hydrophobic coating onto the hydro heater.



Part Number: 90-200057-00

FusionM Pneumatic

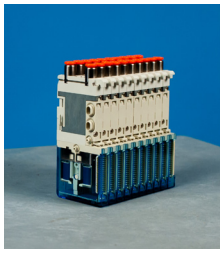
SOLENOID, SINGLE POSITION	40-600003-01
SOLENOID, DOUBLE POSITION	40-600004-01

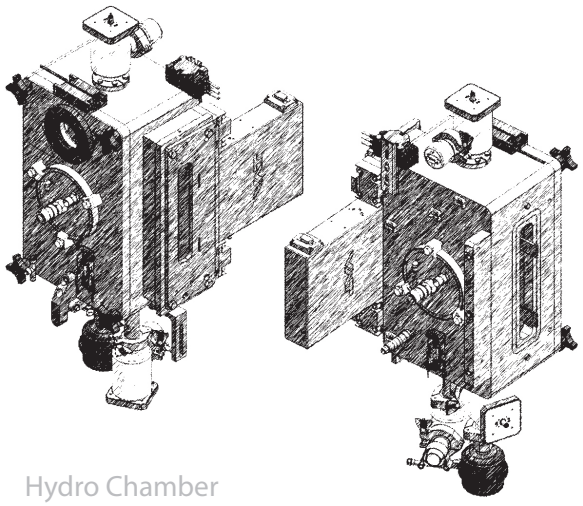
SOLENOID

Single position solenoids channel air to open certain valves and the position sensors in the system.

Double position solenoids channel air to open and close the VAT gate valves and actuate the shutters.

Single Position Part Number: 40-600003-01
Double Position Part Number: 40-600004-01





Hydro Chamber

FusionM Water

WATER FILTER	40-600107-00
CHILLER	95-100005-00

WATER FILTER

Filters particulate out of the water to keep it out of the chiller. This prolongs the life of the chiller.

Part Number: 40-600107-00



CHILLER

Chiller that sits externally alongside the FusionM to chill water and pump it through the water circuit to keep the magnetrons and turbo motor cool.

Part Number: 95-100090-00



FusionM Vacuum System

VACUUM HOSE	10-900017-00	ROUGHING PUMP	40-700001-00
VACUUM HOSE NIPPLE	40-200001-00	ROUGHING PUMP REBUILD KIT	90-500064-00
WING NUT VACUUM HOSE CLAMP	40-200007-00	OIL MIST FILTER ELEMENT	40-600090-00
CENTERING RING	40-100000-00	VAT VALVE	40-600029-00
HIGH VACUUM GAUGE	50-400034-95	VAT VALVE SEAL KIT	40-600127-00
PIRANI GAUGE	50-400153-95	VAT VALVE BELLOWS	40-200082-00
TURBO VACUUM PUMP	40-700015-00	RIGHT ANGLE VALVE	40-600141-00

VACUUM HOSE

Used to connect the roughing pumps to the chambers. The gasses in the chamber are pumped out through the hoses.



Part Number: 10-900017-00

VACUUM HOSE NIPPLE

Vacuum fitting that inserts into the end of the vacuum hose. Allows for the connection between the pumps, valves, and chambers.



Part Number: 40-200001-00

WING NUT VACUUM HOSE CLAMP

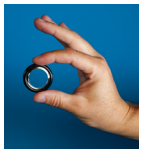
Holds two vacuum fittings and the centering ring together. Compresses the fittings onto the centering ring to promote a good seal.



Part Number: 40-200007-00

CENTERING RING

Metal ring and o-ring. The metal ring keeps vacuum fittings centered on each other. The o-ring prevents leaks into the vacuum system.



Part Number: 40-100000-00

HIGH VACUUM GAUGE

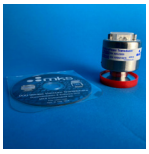
Dual stage vacuum gauge that measures in both the low and high vacuum.



Part Number: 50-400034-95

PIRANI GAUGE

Gauge that reads only in the low vacuum. This allows the FusionM to know what pressure the glow and hydro chambers achieve.



Part Number: 50-400153-95

TURBO VACUUM PUMP

Turbomolecular pump that gets the deposition chamber into high vacuum and has rotors that spin upwards of 25,000 rpm.



Part Number: 40-700015-00

ROUGHING PUMP



Rotary vane pump that is used to get the chambers to low vacuum. It is used on all three chambers.

Part Number: 40-700001-00

ROUGHING PUMP REBUILD KIT

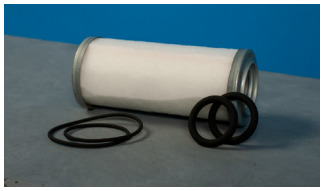
Kit with parts used to rebuild the roughing pumps. Should be used every couple years.



Part Number: 90-500064-00

OIL MIST FILTER ELEMENT

When pumping, the roughing pumps create oil mist. This filters the oil mist and returns the oil to the roughing pump.



Part Number: 40-600090-00

VAT VALVE

Gate valve that closes off the pathway of the wheel through the machine, moving between chambers, into, or out of the FusionM.



Part Number: 40-600029-00

VAT VALVE SEAL KIT

Replacement seals for the VAT valves. If they are damaged, the seal kit can be used to repair the compromised VAT valve.



Part Number: 40-600127-00

VAT VALVE BELLOWS

Part of the VAT valve that moves with the blade when extended. If a crack or pin-hole develops in the bellows, they will need to be replaced.



Part Number: 40-200082-00

RIGHT ANGLE VALVE

Valve that is used to open or close the chambers to the roughing pumps. Also used to vent the chambers and isolate pirani gauges.



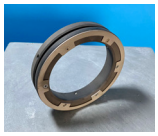
Part Number: 40-600141-00

FusionM Fixturing

LENS WHEEL 80mm Wheel	90-300274-00	EDGED LENS RING 80mm Large	90-100174-00
LENS WHEEL 3.66OD Wheel	90-300006-00	LENS RING 80mm Wheel	90-100168-00
EDGED LENS RING 80mm Small	90-100172-00	LENS RING 3.66OD Wheel	90-100047-95
EDGED LENS RING 80mm Medium	90-100173-00		

LENS WHEEL

Wheel that holds the fixture for the lens. It sits on the rails and rolls through the FusionM using nothing but gravity.



80mm Wheel Part Number: 90-300274-00
3.66OD Wheel Part Number: 90-300006-00

EDGED LENS RING

Fixtures that hold edged lenses of various sizes. The rings are held into the wheels as they roll through the FusionM.



80mm Small Part Number: 90-100172-00
80mm Medium Part Number: 90-100173-00
80mm Large Part Number: 90-100174-00

LENS RING

Fixtures that hold uncut lenses. The rings are held in the wheels as they roll through the FusionM.



80mm Wheel Part Number: 90-300006-00
3.66OD Wheel Part Number: 90-100047-95

FusionM Gas

O2 MFC	40-600010-00	COMPRESSION FITTING TO MFC	40-400197-00
ARGON MFC	40-600011-00	COMPRESSION FITTING TO BOTTLE	40-400186-00
1/8" STAINLESS STEEL TUBING	10-900046-95	COMPRESSION FITTING TO BULKHEAD	40-400186-01

O2 MFC

Precision device that controls the amount of oxygen that is allowed into the chamber during process.



Part Number: 40-600010-00

ARGON MFC

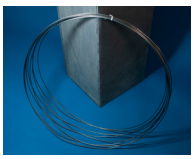
Precision device that controls the amount of argon that is allowed into the chamber during process.



Part Number: 40-600011-00

1/8" STAINLESS STEEL TUBING

Tubing that is used to plumb the system for the oxygen and argon. It is also used to connect the oxygen and argon bottles to the FusionM.



Part Number: 10-900046-95

COMPRESSION FITTING TO MASS FLOW CONTROLLER

Fitting used to connect the 1/8" stainless steel tubing to the MFC's. It compresses a ferrule down onto the tubing to create a seal.



Part Number: 40-400197-00

COMPRESSION FITTING TO BOTTLE

Fitting used to connect the 1/8" stainless steel tubing to the gas regulators that are on the bottles. It compresses a ferrule down onto the tubing to create a seal.



Part Number: 40-400186-00

COMPRESSION FITTING TO BULKHEAD

Fitting used to connect the 1/8" stainless steel tubing to the bulkheads on the top of the FusionM. It compresses a ferrule down onto the tubing to create a seal.



Part Number: 40-400186-01


FUSION LD



QUANTUM FusionLO

FUSIONLO® LINEAR FLOW OVEN

Our fast cure linear flow oven designed for maximum efficiency. With a throughput of 28 pairs of lenses per hour and a cure time of just ***45 minutes,*** our oven is the ideal solution for the dip hard coat lens curing process.

Equipped with heating cable technology, an independent cycling air circulation system, and computer-controlled three-layer air distribution unit, our oven ensures even distribution of heat and consistent results. Say goodbye to slow and inefficient curing processes and hello to increased productivity with our state-of-the-art technology.

Part Number: 95-100126-00

THROUGHPUT

Why wait up to three hours for a job to cure when it can be ready in just 45 minutes?

Pair per Tray*	2 Pair
Trays per Hour	28 Trays
Pair per Hour	56 Pair

**Depending on tray size*

SPECS

Weight: 600 lb
Dimensions: 97" x 25" x 70"
Heating Zone: 59" x 12" x 1"

- Five heating zones, 3 top and 2 bottom

Phase: Single
Voltage: 220-240 VAC
Current: 50 Amp
Line/Mains Frequency: 50/60 Hz

optimal TECHNOLOGIES

1-CLEANING

Clean Air Booths

Create an optimal positive pressure environment with our laminar airflow and HEPA filter clean air booth technology to safeguard your lenses from dust and contaminants.



CAB40

- Roof mounted class 100 HEPA air filter
- Airflow can be adjusted by a speed controller fitted to the fan motor
- Power point for an inspection lamp is provided

2-RINSING

3-DRYING

4-COATING

5-CURING

CHC Range

The system is comprised of complete cleaning, coating, and pre-curing technologies.

GROWTH & OPPORTUNITY

We will provide the best solutions to suit your manufacturing and coating requirements, including scratch-resistance, anti-fog, hydrophobic, and photochromic coatings.

With the size, shape, use, and technology of lenses continuously evolving, our range of CHC systems provide a variety of throughput options and can be tailored to suit a customer's individual needs.

CHC60

- Capable of producing 60 lenses per hour
- Available with either 2, 3, or 4 coating tanks
- Mass transfer handling system



CHC150

- Capable of producing 150 lenses per hour
- Available with either 2, 3, or 4 coating tanks
- Mass transfer handling system



CHC200

- Capable of producing 200 lenses per hour
- Available with either 2, 3, or 4 coating tanks
- Mass transfer handling system



optimal
TECHNOLOGIES

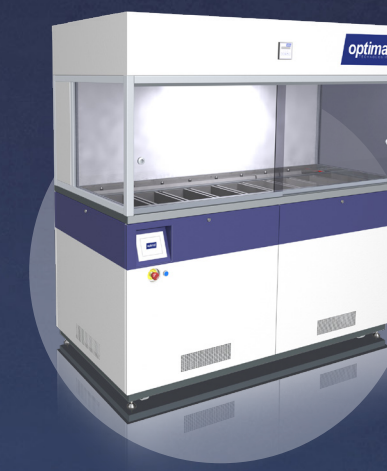




UCS40-MF



UCS60-SP



UCS120

UCS Range



Ultrasonic Cleaning Systems

A series of wet load, chemical cleaning, heating, ultrasonic and drying stages to deliver exceptional, right first-time cleaning

Fully automated transfer system comes complete with specific tooling, either standard or bespoke designed to match your product requirements

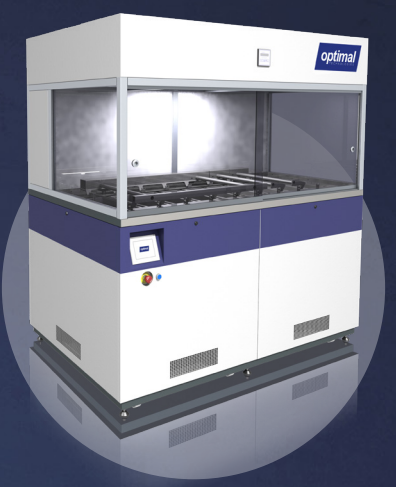
Class 100 HEPA filtration and extraction as standard

Compact design and footprint

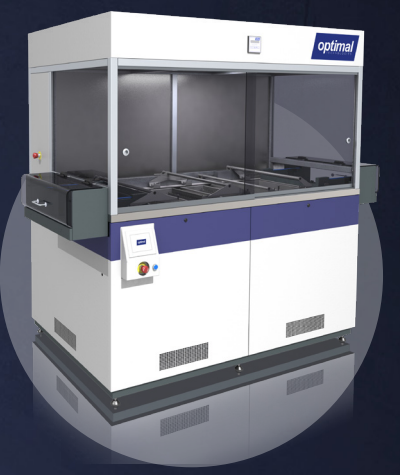
Optional door interlock and user access request (UCS200 only)

Load and unload conveyors (UCS200 only)

Built-in remote access unit for support and to ensure high levels of productivity



UCS150



UCS200

QUANTUM DeBlocker

KNOCK THE BLOCK OFF

Quantum's DeBlocker is a small, cost-effective, easy way to deblock your lenses. This table-top unit will eliminate the repetitive motion injuries associated with deblocking lenses through the manual shock process.

- Deblocks 2 lenses at one time
- Reduces costly lens breakage
- Eliminates lens impact
- Eliminates operator hand impact and the associated carpal tunnel syndrome
- Reduces employee contact with HAZMAT materials (alloy) during deblocking



Part Number: CE-DB008-2

DeBlocker Parts

O-RING KIT	90-500035-00
2" HEAD COLLET	30-210006-00
CAM HANDLE	20-900057-00
COLLET JAM NUT	30-110022-00
ANVIL KIT	90-300051-00

O-RING KIT

O-ring kit for use in replacing worn out O-rings which seal in air in the DeBlocker.



Contains:
- 1- 3/32 x 1 1/4" O-ring
- 1- 3/32 x 1 3/16" O-ring
- 2- 1/8 x 1 7/8" O-ring
- 1- 1/8 x 3 1/4" O-ring
- 1- 1/8 x 3 1/2" O-ring
- 1- 1/8 x 4" O-ring
- 1- 1/8 x 4 3/4" O-Ring
- 1- Deblocker Grease

Part Number: 90-500035-00

2" HEAD COLLET

This nitrite coated collet is used to connect to the block which holds the lens.



Part Number: 30-210006-00

CAM HANDLE

A stainless steel cam handle that holds the anvil or bumper block for different sized lenses. Each side of the DeBlocker is individually adjustable.



Part Number: 20-900057-00

COLLET JAM NUT

This aluminum jam nut holds collet in the optimal position.

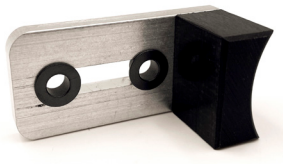


Part Number: 30-110022-00

ANVIL KIT

This piece contacts the lens surface to remove it from the alloy block.

Contains:
- 1- Aluminum Base Plate
- 2 - Delrin Bushings
- 1- Anvil Bumper Block



Part Number: 90-300051-00

QUANTUM

INSPECTOR

Part Number: 95-100034-00

The Quantum Inspector is a two-lens capacity light box which can be used for accurate lens inspection at any point in the manufacturing process.

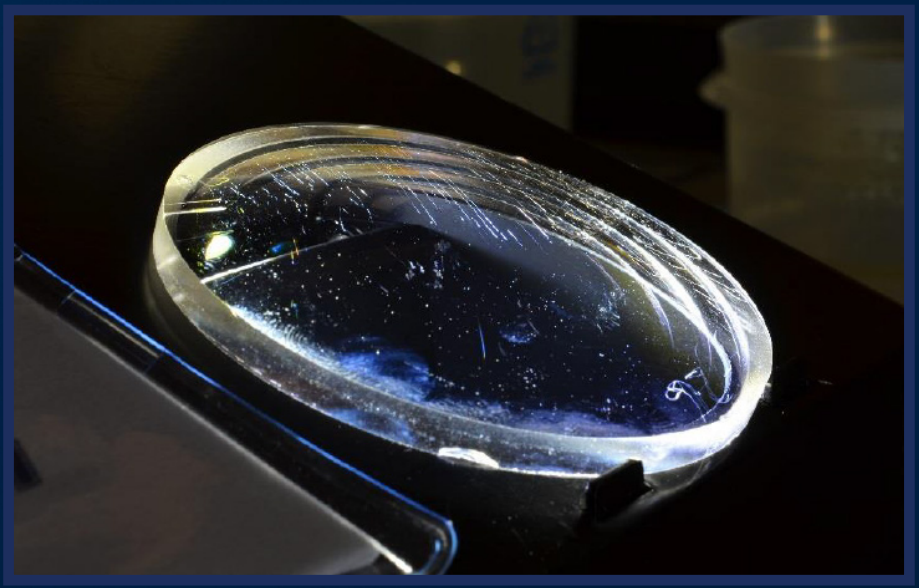


It’s time for a little illumination.

In the pursuit of perfection, having the right tools is essential. The Quantum Inspector empowers you with the correct lighting, an optimal inspection background. Discover the minute details that could make all the difference in your lens manufacturing process, ensuring superior output every time.

Expect Reliability
From pre-ultrasonic cleaning and hard coating to the critical AR Coating phase, this product is designed to meet your specific needs for AR and AR-related processes.

The Art of Detection



Quickly identify coating and/or lens imperfections to aid troubleshooting for a speedy resolve.

For a successful AR coating lab that strives to deliver top-notch quality to its valued customers, adherence to impeccable inspection practices is non-negotiable. Elevate your inspection process to new heights, ensuring flawless outcomes and exceeding your customers’ expectations.

SPECS

Weight: 10 lbs
Dimensions: 8.5” x 6.5” x 5.25”
Viewing Area: 2 each, 65 mm viewports

- 50 lumen LED lights
- Sunlight visible

SALT WATER BOIL KIT

This kit includes the tools and materials used in the salt water boil test for quality testing of the adhesion of AR.

Includes:

- Quantum Inspector
- 2 Beakers
- Microfiber/Polyester Cleaning Supplies
- Protective Gloves
- Lens Holder
- Tungsten Carbide Scriber
- Crosshatch Tool
- Digital Timer
- Ceramic Hot Plate
- Microscope
- Materials for 20 Tests

Part Number: SW-00001-6



QUANTUM

CONSUMABLES

PRECISION GUARANTEED.

The quality of consumables and spare parts is crucial to manufacturing quality lenses. Using Quantum's consumables and parts can ensure your lab is consistently operating reliably, and help you avoid downtime that affects your delivery schedules and ultimately your bottom line.

Our consumables and spare parts are designed to ensure high quality output and equipment compatibility for the best performance of your equipment. Our teams carefully research, test and select our products to guarantee 100% customer satisfaction. You can rely on Quantum products to deliver maximum performance and quality materials for your Ophthalmic or Precision Optics equipment



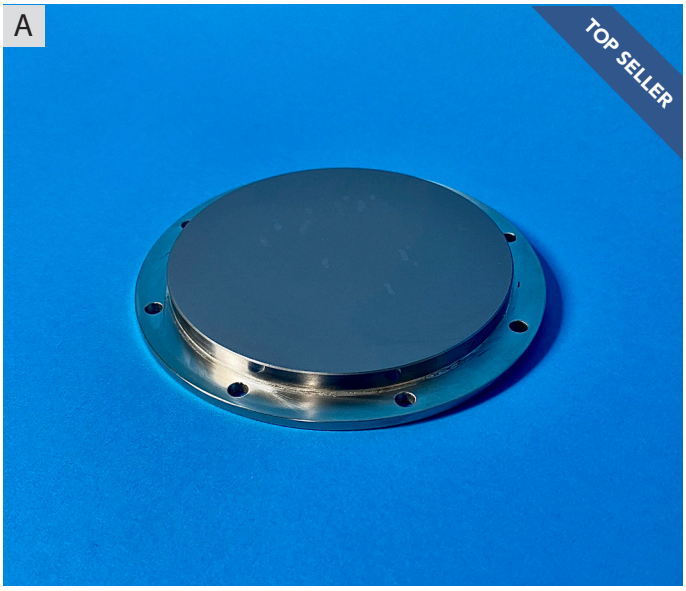


FUSION M

B



A



C



D



A. TARGETS, FUSIONM

Each kit includes one O-ring. Mirror material targets are used for mirror recipes. High and low index targets are used in tandem with high and low index materials to create the desired reflectivity or transmission and color.

High Index Target Kit	Part Number: 90-500058-00
Low Index Target Kit	Part Number: 90-500056-00
Mirror Material Target Kit	Part Number: 90-500057-00

B. HYDRO HEATER COVER

The Hydro Heater Shield acts as a metallic sponge, effectively containing evaporate material waste to prevent combustion.

Sold Per Each — Part Number: 30-300056-00

C. FUSIONM SUPER HYDROPHOBIC SOLUTION

This super hydrophobic solution is applied through your FusionM machine for coating.

100 ml Bottle — Part Number: 90-600027-00

D. SUPER HYDROPHOBIC SOLUTION

The same solution as listed above, but this recipe is applied by hand and cannot be used in a machine.

100 ml Bottle — Part Number: 90-600002-00

IN-CHAMBER

A

TOP SELLER



B



C



D



E

TOP SELLER



A. CRYSTALS

Two varieties of crystal disks are used to measure thickness of each layer of the stack, as part of the recipe control system in a box coater. Sold in disks of 10 crystals each.

5.98 MHZ, Gold

Part Number: QM-00598-S

6.00 MHZ, Alloy

Part Number: QM-00600-A

B. HYDROPHOBIC THERMAL EVAPORANT

Standard hydrophobic tablet for thermal boat or EB gun evaporation.

Large Pill, 100 pc

Part Number: EV-00001-T

C. ANTI-STATIC EVAPORANT

Used in some stacks to reduce the static charge on the surface of the lens. Promotes ease of cleaning.

Pills, 250 g

Part Number: EV-00031

Granules, 250 g

Part Number: EV-00031-1

Granules, 500 g

Part Number: EV-00031-D

D. ADHESION MATERIAL

The first layer in an AR stack; promotes adhesion especially in Zeiss machine run processes.

Granules, 1 kg

Part Number: EV-00012-E

Granules, 500 g

Part Number: EV-00012-D

E. CHROME ADHESION MATERIAL

The first layer in an AR stack; promotes adhesion in box coater processes.

250 g Bottle

Part Number: EV-00004-E

500 g Bottle

Part Number: EV-00004-D

1 kg Bottle

Part Number: EV-00004-K

F



G



H



F. HIGH INDEX MATERIALS

This material is alternated with low index to create the desired reflectivity or transmission and color.

High Index White Pill, 250 g
Part Number: EV-00023-E

High Index White Pill, 500 g
Part Number: EV-00023-D

High Index White Pill, 1 kg
Part Number: EV-00023-K

High Index White Pill, 5 kg
Part Number: EV-00023-5KG

High Index Grey Pill, 250 g
Part Number: EV-00026-E

High Index Grey Pill, 5 kg
Part Number: EV-00026-5KG

G. LOW INDEX MATERIALS

This material is alternated with high index to create the desired reflectivity or transmission and color.

Low Index Clear Granular, 500 g
Part Number: EV-00003-E

Low Index Clear Granular, 1 kg
Part Number: EV-00003-K

Low Index Clear Granular, 5 kg
Part Number: EV-00003-5K

Low Index Clear Granular, 20 kg
Part Number: EV-00003-20KG

H. SHP COPPER CUPS

Copper cups containing materials for the final layer, applying a super hydrophobic coating.

SHP Cup 100D, Sm. Chamber
Part Number: EV-00038

SHP Cup 125D, Med.-Lg. Chamber
Part Number: EV-00042

SHP Cup XL Chamber
Part Number: EV-00051

SHP Cup XXL Chamber
Part Number: EV-00065

I



J



K



L



M



N



O



I. SHP CUP LIDS

A copper lid for SHP cups used in machines with an EB gun.

Part Number: 30-300010-02

J. SUPER HYDROPHOBIC OVERCOAT

Temporary pad control layer to overcoat super hydrophobic and prevent slipping during edging.

Granule, 250 g

Part Number: EV-00016-S

K. ULTRASONIC DETERGENTS

Alkali, high PH soap for use in Tank 1, and neutral acid soap for use in Tank 3 of Ultrasonic machines.

Alkali Detergent, 1 gal Bottle

Part Number: US-50002

Neutral Detergent, 1 gal Bottle

Part Number: US-50003

L. HEAT TRANSFER FLUID

For use in tint pots to transfer heat evenly over tinting dye baths.

1 gal Bottle

Part Number: HT-000CL-1G

M. LENS NEUTRALIZER

For use in tint pots to clean lens after tinting.

1 gal Bottle

Part Number: LN-000CL-1G

N. MIXED BED ION EXCHANGE RESIN

Resin suspended in deionized (DI) water assures water quality for achieving flawless lens coatings.

1 cubic ft

Part Number: 10-800001-00

O. ACTIVATED CARBON

Activated carbon suspended in deionized (DI) water assures water quality for achieving flawless lens coatings.

1 cubic ft

Part Number: 10-800000-00

HARD COATS

A



B



C



A. 1.60 HARD COATING MATERIALS

1.60 index thermal-cure polysiloxane hard coating supplies designed for application in dip coating systems.

All items ship as a Hazardous Material (HazMat).

- 1.60 Hard Coat, 5 kg
  Part Number: 10-8000106-00
- 1.60 Primer, 4 kg
  Part Number: 10-800107-00
- Solvent for 1.60 Hard Coat 4 kg
  Part Number: 10-800108-00
- Solvent for 1.60 Primer 4kg
  Part Number: 10-800109-00

B. HARD COATING WITH E.A.T.

Thermal-cure polysiloxane hard coating supplies designed for the absorption of blue light, for use in dip coating systems.

All items ship as a Hazardous Material (HazMat).

- 1.60 Hard Coat w/ E.A.T., 5 kg
  Part Number: 10-800125-00
- 1.50 Hard Coat w/ E.A.T., 5 kg
  Part Number: 10-800117-00

C. NIGHT DRIVING HARD COATING

Thermal-cure polysiloxane hard coating supplies designed for filtering out yellow light between 565 and 595nm, for use in dip coating systems.

All items ship as a Hazardous Material (HazMat).

- 1.50 Hard Coat w/ Night Driving, 5 kg
  Part Number: 10-800134-00

D



E



F



G



H



D. 1.50 HARD COATING MATERIALS

1.50 index thermal-cure polysiloxane hard coating supplies designed for application in dip coating systems.

All items ship as a Hazardous Material (HazMat).

RHS-45 1.50 Index Hard Coat, 5 kg
Part Number: 10-800040-00

RHS-45 Primer for Hard Coat, 4 kg
Part Number: 10-800108-00

RHS-45 Solvent for Hard Coat, 4 kg
Part Number: 10-800042-00

RHS-45 Solvent for Primer, 4 kg
Part Number: 10-800043-00

E. SOLIDS PERCENTAGE MEASUREMENT KIT

This validation tool will promote accuracy and consistency in coating thickness measurement for your hard coat.

Part Number: 90-5000054-00

Aluminum Weighing Dish, 100 pk
Part Number: HC-00005

7.5 ml Disposable Pipettes, 100 pk
Part Number: HC-00007

F. 1.50 SOLIDS-BASED UV SPIN E.A.T. HC

Solids-based hard coat designed for application in spin coating systems.

Bottle, 100 g
Part Number: 90-600131-00

G. 1.50 SOLVENT-BASED UV SPIN E.A.T. HARD COATING MATERIAL

Solvent-based hard coat with E.A.T. designed for application in spin coating systems.

Bottle, 480 g
Part Number: 10-800138-00

H. 1.50 SOLVENT-BASED UV SPIN HARD COATING MATERIAL

Solvent-based hard coat designed for application in spin coating systems.

Bottle, 480 g
Part Number: 10-800137-00

FUSION ETCH

A



B



C



A. FUSION ETCH

Chemicals to aid in lens preparation, cleaning, and stripping. Numbers correspond to machines that use it (e.g. H8).

Fusion Etch H3, 25 lbs	Part Number: 90-600009-00
Fusion Etch H8 & W10, 25 lbs	Part Number: 90-600007-00

B. FUSION ETCH, LIQUID EDITION

A liquid version of our Gen I Etch used for lens cleaning and/or stripping factory hard coat before our premium dip hard coat is applied.

Liquid Edition Etch, Part A	Part Number: 90-600029-00
Liquid Edition Etch, Part B	Part Number: 90-600029-01
Liquid Edition Strip, Part A	Part Number: 90-600030-00
Liquid Edition Strip, Part B	Part Number: 90-600030-01
Liquid Edition, Finishing Agent	Part Number: 90-600028-00
Liquid Edition, Neutralizer 85	Part Number: 90-600058-00

C. FUSION ETCH, READY TO USE

Fusion Etch Liquid Edition, premixed for your convenience.

Ready-to-Use Etch, 5 gal	Part Number: 90-600035-00
Ready-to-Use Strip, 5 gal	Part Number: 90-600036-00





PUMP OILS







D. FUSION ETCH GEN II, KIT

All the components of Fusion Etch Liquid Edition Gen II. Sold as one unit in a complete kit.

Part Number: 90-500230-00

E. FUSION ETCH GEN II, READY TO USE

Gen II Fusion Etch Liquid Edition, premixed for your convenience.

Ready-to-Use Etch, 5 gal — Part Number: Coming Soon

D. ROUGHING PUMP OIL

Provides better pressure and pumping efficiency, all while keeping your pump cool.

1 gal Bottle — Part Number: VP-000P3-F

E. DIFFUSION PUMP OIL

Used and heated in diffusion pumps. Recommended replacement every 6 months.

1 gal Bottle — Part Number: VP-00066-1

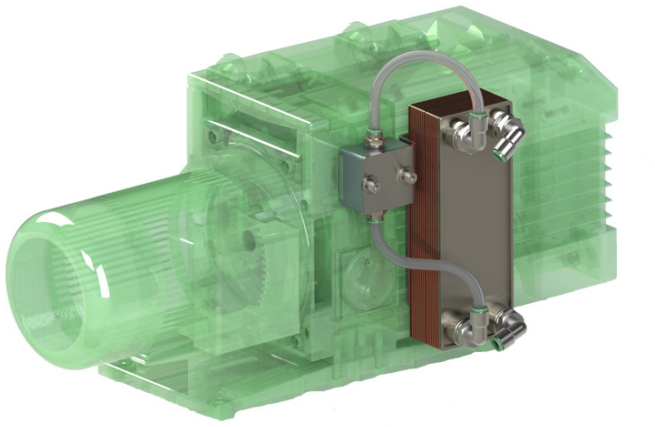
F. U20 BOOSTER PUMP OIL

The working fluid of booster pumps, providing even better efficiency.

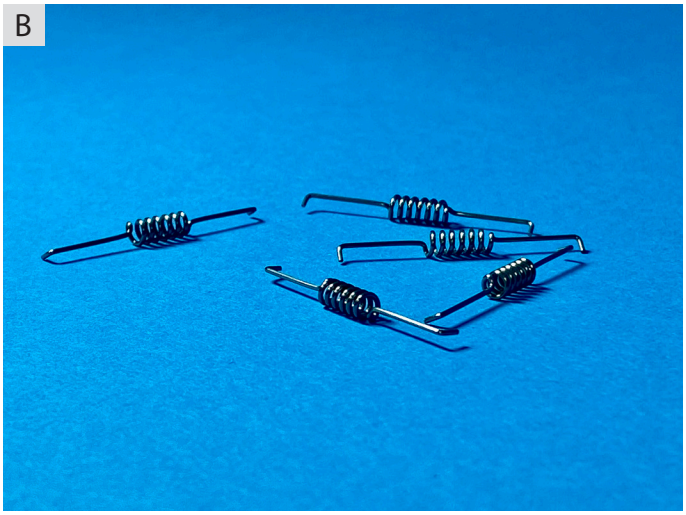
1 gal Bottle — Part Number: VP-00020-FT

PARTS

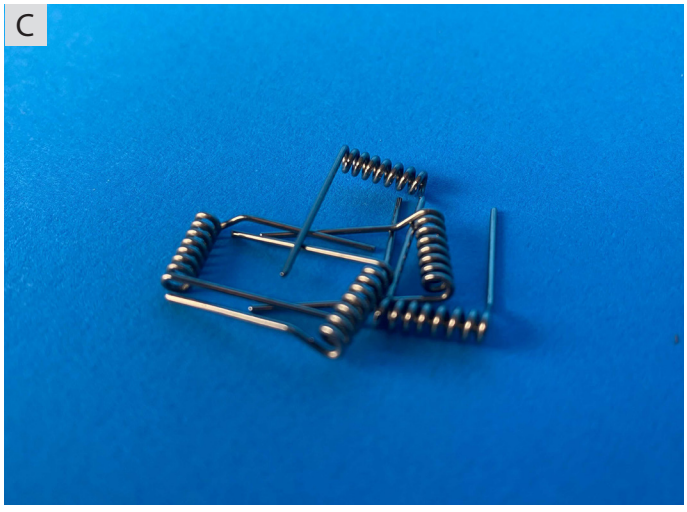
A



B



C



D



A. ROUGH PUMP OIL COOLING SYSTEM

A user installable solution for pump overheating. This system is designed to facilitate water cooling of roughing pump oil by approximately 20°C (68°F).

Part Number: 90-500097-00

B. LEYBOLD FILAMENT

Standard Leybold filament for emitter in Leybold EB Guns. Sold in packs of 10.

Part Number: EB-00003-L

C. T-EMITTER FILAMENT

Standard Satis filament for emitter using a Temescal EB Gun. Sold in packs of 5.

Part Number: EB-00001-T

D. ION SOURCE FILAMENTS

Used in Commonwealth/Veeco MK I/MK II Ion Sources. Sold in packs of 10.

MK I Filament	**Part Number:** IA-00011-C
MK II Filament	**Part Number:** IA-00012-C

HAND APPLY

A



B



C



D



E



A. EDGE ASSIST

Saves time, money and materials by eliminating slippage during the process of edging super hydrophobic-coated lenses. A quick-dry formula that is safe for all lens types and works with all blocking pads.

4 oz Bottle — Part Number: NR-41029-B

B. FRIXION OVERCOAT

A spray that is and applied over supper hydrophobic coating to provide a layer for the pad to stick to promote less slippage in edging machine.

25 ml Bottle — Part Number: 90-600016-00

100 ml Bottle — Part Number: 90-600012-00

C. BULLS EYE BLOCKING PEN

Creates a stable platform for the blocking pad to securely attach during the lens edging process. The innovative anti-slip solution ensures axis accuracy and eliminates premature de-blocking, reducing breakage and costly rejects.

Part Number: NR-41400

D. DE-SOLVE PEN

Non-hazardous progressive mark remover. Also removes ghost images.

Part Number: NR-00004-A

E. EDGE GLOSS PEN

Used to paint the edge of the lens to make a glossy effect for lenses where the edge of the lens may be exposed in thin frames.

Part Number: NR-30001

PART NUMBER INDEX

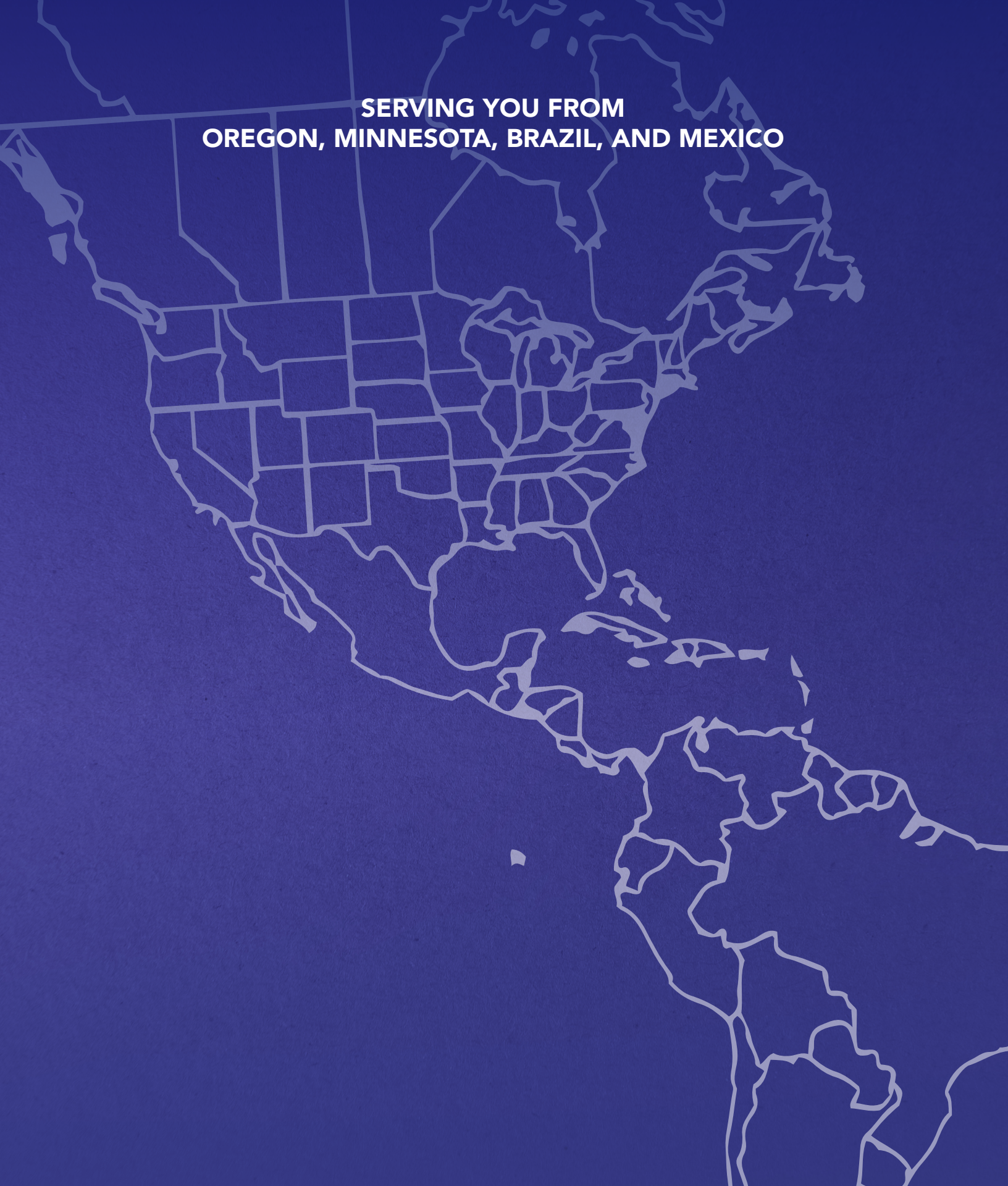
1.50 Hard Coat w/ E.A.T., 5 kg	10-800117-00
1.50 Hard Coat w/ Night Driving, 5 kg	10-800127-00
1.50 Solvent-Based UV E.A.T. Hard Coat	10-800138-00
1.50 Solvent-Based UV Hard Coat	10-800137-00
1.50 Solids-Based UV E.A.T. Hard Coat	90-600131-00
1.60 Hard Coat w/ E.A.T., 5 kg	10-800125-00
1.60 Hard Coat, 5 kg	10-8000106-00
1.60 Primer, 4 kg	10-800107-00
1/8" Stainless Steel	10-900046-95
2" Head Collet	30-210006-00
4" Magnetron Shutter	30-200936-95
4" Target Clamp Ring	30-210030-00
5.98 MHZ Gold Crystal Disk	QM-00598-S
6.00 MHZ Alloy Crystal Disk	QM-00600-A
7.5 ml Disposable Pipettes	HC-00007
Activated Carbon	10-800000-00
Adhesion Material Granules 1 kg	EV-00012-E
Adhesion Material Granules 500 g	EV-00012-D
Aluminum Weighing Dish	HC-00005
Anti-Static Evaporant Granules 500 g	EV-00031-D
Anti-Static Evaporant Granules 250 g	EV-00031-1
Anti-Static Evaporant Pills 250 g	EV-00031
Anti-Static Gun	90-200019-00
Anti-Static Gun Mount	20-900059-00
Anvil Kit	90-300051-00
Argon MFC	40-600011-00
Back Anode Cooling Plate	90-100066-00
Back Solenoid Housing	30-200330-95
Bottom Back Chamber Shield	30-200333-95
Bottom Front Chamber Shield	30-200333-95
Bulls Eye Blocking Pen	NR-41400
Cam Handle	20-900057-00
Centering Ring	40-100000-00
Ceramic Insulator	20-900005-00
Chiller	95-100005-00
Chiller Fan	50-500031-00
Chrome Adhesion Material 1 kg	EV-00004-K
Chrome Adhesion Material 250 g	EV-00004-E
Chrome Adhesion Material 500 g	EV-00004-D
Collet Jam Nut	30-110022-00
Compression Fitting to Bottle	40-400186-00
Compression Fitting to Bulkhead	40-400186-01
Compression Fitting to MFC	40-400197-00
Crosstalk Shield	30-200934-95
De Solve Pen	NR-00004-A
DeBlocker	CE-DB008-2
Dep Chamber	90-300150-00
Diffusion Pump Oil	VP-00066-1
Dispense Valve	90-200057-00
Drive Housing	30-200329-95
Edge Assist 4 oz	NR-41029-B
Edge Gloss Pen	NR-30001
Edged Lens Ring 80mm Large	90-100174-00
Edged Lens Ring 80mm Medium	90-100173-00
Edged Lens Ring 80mm Small	60-100172-00

Flat SCH Screw 10-32 x 1/4" SST	20-900074-00
Frixion Overcoat 100 ml	90-600012-00
Frixion Overcoat 25 ml	90-600016-00
Front Anode Cooling Plate	90-100063-00
Front Center Chamber Shield	90-300156-00
Fusion Etch H3 185 g	90-600009-00
Fusion Etch H8 & W10 800 g	90-600007-00
Fusion Etch Gen II, Kit	90-500230-00
Fusion Etch Gen II, Ready to Use	XXXXXX
Fusion M	95-100062-00
Fusion M Shield Kit	90-500094-00
FusionM Super Hydrophobic Solution 100 ml	90-600027-00
Glow Chamber	90-300154-00
Glow Paddles	30-200546-00
Heat Transfer Fluid 1 Gallon	HT-000CL-1G
High Index Grey Pill 250 g	EV-00026-E
High Index Grey Pill 5 kg	EV-00023-5KG
High Index Mask	30-200767-95
High Index Target Kit	90-500058-00
High Index White Pill 1 kg	EV-00023-K
High Index White Pill 250g	EV-00023-E
High Index White Pill 5 kg	EV-00023-5KG
High Index White Pill 500g	EV-00023-D
High Vacuum Gauge	50-400034-95
Hydro Chamber	90-300124-00
Hydro Heater	90-200048-00
Hydro Heater Cover	30-300056-00
Hydrophobic Thermal Evaporant Large Pill	EV-00001-T
Lens Neutralizer 1 Gallon	LN-000CL-1G
Lens Ring 3.66OD	90-100047-95
Lens Ring 80mm	90-300006-00
Lens Wheel 3.66OD	90-300006-00
Lens Wheel 80mm	90-300274-00
Leybold Filament	EB-00003-L
Liquid Edition Etch, Part A	90-600029-00
Liquid Edition Etch, Part B	90-600029-01
Liquid Edition Strip, Part A	90-600030-00
Liquid Edition Strip, Part B	90-600030-01
Liquid Edition, Finishing Agent	90-600028-00
Low Index Clear Granular 1 kg	EV-00003-K
Low Index Clear Granular 20 kg	EV-00003-20KG
Low Index Clear Granular 5 kg	EV-00003-5K
Low Index Clear Granular 500 g	EV-00003-E
Low Index Mask	30-200768-95
Low Index Target Kit	90-500056-00
Lower Dep Chamber Door	30-200242-00
Liquid Edition, Neutralizer 85	90-600058-00
Magnetron Shaft Fixed Shutter	30-210133-95
Mirror Material Target Kit	90-500057-00
Mixed Bed Ion Exchange Resin	10-800001-00
MK I Filament	IA-00011-C
MK II Filament	IA-00012-C
O2 MFC	40-600010-00
Oil Mist Filter Element	40-600090-00
O-Ring Kit	90-500035-00
Oxygen Tube Assembly	90-400073-00
Pirani Gauge	50-400153-95
Position Sensor Tip	20-900062-00
Quantum Lens Inspector Box	95-100034-00
Rail, Lower	30-200604-00
Rail, Upper	30-200217-00
Ready-to-Use Etch 5 gal	90-600035-00
Ready-to-Use Strip 5 gal	90-600036-00
Rear Center Chamber Shield	90-300155-00
RHS-45 1.50 Index Hard Coat 5 kg	10-800040-00
RHS-45 Primer for Hard Coat 4 kg	10-800041-00
RHS-45 Solvent for Hard Coat 4 kg	10-800042-00
RHS-45 Solvent for Primer 4 kg	10-800043-00
Right Angle Valve	40-600141-00

Rough Pump Oil Cooling System	90-500097-00
Roughing Pump	40-700001-00
Roughing Pump Oil	VP-000P3-F
Roughing Pump Rebuild Kit	90-500064-00
Salt Water Boil Kit	SW-00001-6
SCH Screw, M4 0.7x14mm 18-8 SST	22-100407-14
SHC Screw, 10-32 x 5/8", SST	20-101032-10
Shield Hardware Kit	90-500065-00
SHP Cup 100D	EV-00038
SHP Cup 125D Large Chamber	EV-00042
SHP Cup Lids	30-300010-02
SHP Cup XL Chamber	EV-00051
SHP Cup XXL Chamber	EV-00065
Side Anode Weldment	90-100064-95
Solenoid, Double Position	40-600004-01
Solenoid, Single Position	40-600003-01
Solids Percentage Measurement Kit	90-5000054-00
Solvent for 1.60 Hard Coat 4 kg	10-800108-00
Solvent for 1.60 Primer 4kg	10-800109-00
Storage Bin	30-300080-00
Super Hydrophobic Overcoat 250 g	EV-00016-S
Super Hydrophobic Solution 100 ml	90-600002-00
T-Emitter Filament	EB-00001-T

Top Chamber Shield	30-200331-95
Turbo Louver	30-200256-95
Turbo Pump	40-700015-00
U20 Booster Pump Oil	VP-00020-FT
Ultrasonic Detergent, Alkali	US-50002
Ultrasonic Detergent, Neutral	US-50003
Upper Left Dep Chamber Door	30-200241-95
Upper Right Dep Chamber Door	30-200242-95
Vacuum Hose	10-900017-00
Vacuum Hose Nipple	40-200001-00
Vat Valve	40-600029-00
Vat Valve Bellows	40-200082-00
Vat Valve Seal Kit	40-600127-00
Vented SHC Screw, 10-32 3/8" SST	20-801032-06
Viewport Shutter	90-100033-00
Water Filter	40-600107-00
Wheel Drive Assembly	90-300008-00
Wheel Sensor 3.66OD	90-200102-00
Wheel Sensor 80mm	90-200104-00
Wheel Stop Assembly 3.66OD	90-200056-00
Wheel Stop Assembly 80mm	90-200103-00
Wheel Stop Cover	30-200840-95
Wing Nut Vacuum Hose Clamp	40-200007-00

NOTES:


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