



unico graber
safety eyewear



HIGHVISION

UNICOindividual

**THE INDIVIDUAL
PRESCRIPTION SAFETY EYEWEAR
FOR THE WORKPLACE**



MAKE
THINGS
BETTER

UNICOindividual

THE INDIVIDUAL
PRESCRIPTION SAFETY EYEWEAR
FOR THE WORKPLACE



For a safe perspective

These prescription safety glasses bring together the balance of defective vision with eye protection to guard against mechanical, chemical and/or optical factors. The lenses of prescription safety glasses are made in such a way that they guarantee greater breaking strength (EN 166) than that of conventional lenses. In addition to this, the frame (EN 166) is aligned with the requirements of the respective workplace, for example, with a particularly wide field of vision and/or a splash guard. Apart from the purely safety-based considerations, comfort has also been taken into account. If the frame sits nicely and comfortably, the safety eyewear will be worn all the more willingly by the wearer. The interaction between safety and the corrective effect can work optimally.

The person in charge of safety chooses the appropriate prescription safety glasses together with the employees and/or the PPE specialists, as a supplement to the personal protective equipment (PPE). The focus in this decision process is providing optimum protection along with the personal requirements and fulfilling the conditions of the daily tasks. It is essential that the prescription safety glasses are tested together with the glass and frame. This is the only way of ensuring that the safety eyewear can be used in the required mechanical resistance.

If the lenses are fitted by a third party, this voids the warranty of the manufacturer, Unico Graber. Exception: Upon presentation of a certificate of conformity from the manufacturer of the frame and/or the ocular. For more information, refer to page 15: Repairs.





An investment that pays for itself

There are temporary options for protecting people with defective vision at work. But these do not offer long-term solutions. Goggles, glasses worn over spectacles or visors can be worn for brief tasks lasting from just a few minutes to a maximum of two hours per day. Combinations of goggles and glasses worn over spectacles tend to fog up. This implies additional risks. Furthermore, these kinds of combinations often create disturbing double images or reflections. Prescription safety glasses are slightly more expensive than these combination solutions. However, these additional costs are usually offset by the longer period of use.

Moreover, the company benefits from having employees that are well protected and have unimpaired vision whilst they work. This reduces the failure rate and the associated costs for the company.

International studies* confirm that for every euro invested in personal protective equipment there is a return of factor 2.2. Investments in high quality vision protection equipment are worth multiple returns. Because 80% of our sensory receptions are supported by our vision.



* Study «Return on Prevention», International Social Security Association (ISSA), and «Socioeconomic costs of work-related accidents and illnesses», benefits of Occupational Safety and Health (benOSH).





Tested and Certified

All UNICO individual models fulfil the requirements for personal protective equipment in full, in accordance with the PPE Regulation (EU) 2016/425.

The specifications of a safety eyewear can be found in the manufacturer's respective data sheets. Prescription safety glasses are supplied with a personalised declaration of conformity, which is given to the employees when they receive their glasses.

Your benefits at a glance:

- greater ability to concentrate
- no fatigue for longer
- more accurate work thanks to clearer vision
- increased motivation and productivity
- less of a risk to yourself and your surroundings
- according to a Finnish study (source: DGUV), can be worn up to six times longer than conventional safety eyewear

* Keep in mind: We are in the transition phase from Directive 89/686/EEC to the PPE Regulation (EU) 2016/425.



EU-Konformitätserklärung nach PSA-Verordnung (EU) 2016/425



Korrigierte Schutzbrille UNICO individual geprüft nach EN 166:2001
Unico Graber AG, Stöckackerstrasse 30, CH - 4142 Münchenstein

Referenz: Hans Muster Firma: Muster AG Auftr.Nr.: 00896532

Tragkörper: UG-19 UNifresh Grösse: 54/19 Farbe: smoke / green

Sichtscheibe: R: 0210L0 L: 0210L0

UNiprivus Stock Poly 159 Pro

Festigkeit der Schutzbrille: **F**

Optiker: D00356 - Optik Muster, Hauptstrasse 23, 5457 Mutenhausen

Rezept:

	Sphäre	Zylinder	Achse	Prisma	Basis	Addition
Rechts	-1.25	-1.00	107	0.00		0
Links	-1.75	-0.75	85	0.00		0

Hersteller:

UNICO GRABER AG, Stöckackerstrasse 30, 4142 Münchenstein / Schweiz, bestätigt, dass die aufgeführte persönliche Schutzausrüstung (PSA) den Richtlinien nach PSA-Verordnung (EU) 2016/425 entspricht, von der harmonisierte Norm EN 166:2001 im nationalen Recht umgesetzt worden ist, ist auch die nationale Norm anwendbar. Die nachfolgend aufgeführte PSA wurde von unabhängigen Prüfern untersucht und von einer angegebenen bestimmten Stelle bewertet und zertifiziert. Die entsprechenden Zertifikate finden Sie mittels untenstehenden QR Code oder Link: <https://unicograber.com/produkte-head/schutzbrillen/normen-direktiven>

WICHTIG:
Wird die Schutzbrille ungeschwächt, oder in irgendeiner Weise nachhaltig verändert (Bsp. Entfernen von Einpolkissen, wie Seitenschutz etc.), ertücht jeder Haftungsausschluss zum Hersteller gegenüber. Die wesentlichen technischen Datenblätter sind an der obenstehenden Adresse hinterlegt.



EU-Konformitätserklärung wurde erstellt nach der EG-Baumusterbescheinigung

Unterschrift:  Datum/Ort:

Dominique Graber, CEO 22.04.2020 / Münchenstein

Standards and Markings

Name of the frame and size

UG-19 54/19
(on the inner side)



Marking on the frame

UG 166 F CE 07/20

- UG → Code letters of the manufacturer
- 166 → Marking of the European standard for eye protection
- F → Code letters for impact load
- CE → CE conformity identification
- 07/20 → Date of production

Marking on the lens

2C-1.2 UG 1 F CE

- 2C-1.2 → Index UV filters
- UG → Code letters of the manufacturer
- 1 → Code for optical class
- F → Code letters for impact load
- CE → CE conformity identification

(This may vary depending on the function, use and type) of lens)

Marking on frame

UG Manufacturer (Unico Graber)

166 Marking of the European standard for eye protection

Code number for danger zones

- 3:** Dripping or spraying liquids
- 4:** Dust with particle size above 5 µm
- 5:** Gases, vapours, mists, smoke and dust up to particle size 5 µm
- 8:** Electric arc in short circuits in electric installations
- 9:** Molten metal splash

Code letters for impact load

- S:** Basic use + enhanced resistance (drop ball)
- F:** Basic use + low energy impact (45 m/s)
- B:** Basic use + medium energy impact (120 m/s)
- T:** GV + impact at extreme temperatures (-5° C/+55° C)

CE Conformity identification

Marking on lenses

Protection levels of filters according to EN

- 2-1.2:** (prefix 2) Ultraviolet filters EN 170
- 2C-1.2:** (prefix 2) Ultraviolet filters with improved colour recognition EN 170
- 4-1.7:** (prefix 4) Infrared filters EN 171
- 5:** (single number) Welding filters EN 169

UG Manufacturer (Unico Graber)

Code for optical class

- 1:** For work with particularly high requirements on visual acuity
- 2:** For work with average requirements on visual acuity
- 3:** Only in exceptional cases for coarse work without major requirements on visual acuity and not for long-term use

Code letters for impact load

- S:** Basic use + enhanced resistance (drop ball)
- F:** Basic use + low energy impact (45 m/s)
- B:** Basic use + medium energy impact (120 m/s)
- T:** Basic use + impact at extreme temperatures (-5° C/+55° C)

Code number for danger zones

- 8:** Electric arc in short circuits in electric installations
- 9:** Molten metal splash

Numbers for field of use

- K:** Damage from small particles (sand trickling test)
- N:** Resistance to fogging
- R:** Reflection factor of the lenses

CE Conformity identification

Work Assignment



Direct

Directly from the optician

Whether it is at work or while doing DIY at home, the risk of injuring your eyes in an accident can be reduced to practically zero through the proper and consistent use of safety eyewear. That is why at Unico Graber apply to the subject of eye protection. UNICOindividual offers you personal advice from an optician. For more information please contact us info@unicograber.com

Industry

From PPE specialists

Being prudent in practice is the be-all and end-all in eye protection. Our UNICOindividual - Industry Partner works together with you to find the right eye protection. After a thorough assessment of your requirements and a personal consultation, individual solutions are drawn up which in turn result in productive work. You will of course receive the relevant forms so that your employees can be further assisted by one of our Optician Partners. Our UNICOindividual - Industry mechanical resistance specialists are listed under www.unicograber.com, or you can contact us at info@unicograber.com.

Mechanical resistance

Determining the mechanical resistance is one of the most important factors in the decision-making process for safety eyewear. Depending on what kind of work will be done and the environment it will be done in, the choice for safety eyewear is divided into the mechanical resistance of «S» and «F». The appropriate mechanical resistance should be determined with the help of a PPE specialist, if possible.



Mechanical strength «S»

«S» is lower in strength than «F» and is generally not suitable for mechanical work.

Dropball test with a steel ball: diameter 22 mm, weight 46 g, falling speed at least 5.1 m/s.

Mechanical strength «F»

«F» is stronger than «S» and is suitable for mechanical work.

Impact test with a steel ball: diameter 6mm, weight 0.86 g, speed at least 45 m/s.

Our PPE specialists will also gladly advise you personally.

Getting the right combination is key!

Activities/Risks



Compressed air



Handling wood/plastic



Laboratory work



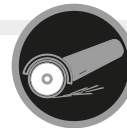
Construction work



Drilling and turning



Fine and coarse dust



Sparks



Paints and solvents



Cleaning work

Mechanical resistences



Frame



Types of lenses



Single vision



Near vision



Bifocal



Relax



Progressive Basic



Progressive Comfort



Progressive Premium

Activity/Risk +
 Mechanical resistance +
 Frame +
 Quality of lens =

YOUR INDIVIDUAL SAFETY EYEWEAR





unico graber
safety eyewear



With UNICOindividual you break new ground in corrected eye protection. In addition to the top product and the first-class service, a unique ordering system is now added in the background. Our optician partners have the possibility to order the safety eyewear directly and easily online. Thus it can be checked at any time in which production process the safety eyewear is in or whether it has already been delivered.

UNICOindividual – is unique:

- **Exclusively available in specialised trade**
- **Highest optical standards**
- **Large range of frames and lenses**
- **Individual solutions**
- **Everything from a single source**
- **Short delivery times**





PROTECTIVE LENSES

Material specifications

Organic

Organic is available in the mechanical resistance «S» and «F».

Organic is the frequently used plastic for eyeglass lenses. It is significantly lighter and less likely to break than mineral-based ophthalmic lenses. Its high level of chemical resistance makes CR39 extremely suitable for use in laboratories in contrast to polycarbonate. CR39 has a lower surface hardness, which can be significantly increased by applying a protective scratch-resistant layer.

Polycarbonate

Mechanical resistance «F» is suitable for use in mechanical workshops, where, for example, the work involves milling, grinding and sanding. Polycarbonate is an extremely resistant plastic. Because of its very high breaking strength, it is ideal for safety eyewear. In comparison to CR39, polycarbonate has a higher refractive index of 1.59, which makes it correspondingly thinner.

Trivex

Irrespective of how they are finished, all protective glasses made out of Trivex, as well as polycarbonate lenses, have the mechanical resistance «F». They can be used in mechanical and chemical operations. Ophthalmic lenses made from Trivex have excellent optical properties. Compared to polycarbonate they offer even greater visual clarity. They are very light and yet extremely hard-wearing. As a result of its high impact and tensile strength, Trivex is being used more and more in occupational safety. Moreover, ophthalmic lenses made from Trivex also protect the eyes against harmful UV radiation. Is also available in self-darkening options (Transitions).

Mineral

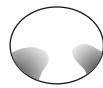
Mineral lenses (mechanical resistance «S») are made of «real glass» and chemically hardened. They are known for their scratch resistance and high image quality. As a good alternative to plastic glasses, they offer the following advantages: highest image quality, very scratch-resistant due to high surface hardness, long service life, thin lenses with severe ametropia, very easy to clean and very heat resistant.

Types of Lenses



PROGRESSIVE VISION (Multivision)

The individual anatomy of your eye can be taken into account when manufacturing the latest generation of progressive lenses. Thanks to the use of biometric data, each eye has its own lens. Our progressive lens takes the position of the eyes behind the lens into account and calculates the shape data of your chosen frame for optimal imaging. You do not have any restrictions with regard to the shape or size of your safety eyewear. The Unico progressive lens is the best choice for both small and large frames.



UNiviso Premium

Balanced premium free-form progressive lens with good imaging properties for universal use in large, individualised viewing areas. Very good spontaneous tolerance.



UNiviso Comfort

An uncomplicated and proven comfort free-form progressive lens with a large viewing area in the distance, centre and near.



UNiviso Basic

Attractive and inexpensive basic free-form progressive lens with a pleasant viewing area.

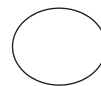


- UNIviso Premium
- UNIviso Comfort
- UNIviso Basic
- UNIreader
- UNIdesk
- UNIroom
- UNIBifo
- UNIprivus RX/Stock
- UNIrelax

COMFORT IN NEAR DISTANCES

UNIreader, UNIdesk, UNIroom

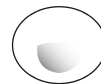
This high-quality near-distance comfort computer glasses are produced using the latest free-form manufacturing technology. These distance zones are designed to cover three zones for near distance and extended midrange. UNIreader for the frequent reader, UNIdesk for the classic computer workstation, UNIroom for reception areas. Taking ergonomic requirements into account, the concept offers fatigue-free vision within the calculated zones. Not suitable for road traffic!



BIFOKAL

UNIBifo

The bifocal lens has a wide close-up range. A lens with which wearers used to bifocal lenses do not have to adjust themselves. It achieves two clearly defined optical effects and is optimally usable for two different distances.



SINGLE VISION

UNIprivus RX/Stock

A universal single vision lens with best image quality for good visual comfort.

UNIrelax – for the Multimedia World

This is the so-called "Advanced Relax Zone," a specially designed zone in the lower part of the lens with a slight, barely noticeable increase in strength. This relieves the eyes when looking at smartphones and other digital devices, allows for quick and easy adjustment to different viewing distances, and thus ensures relaxed eyes.

An ideal alternative for both current eyeglass wearers and those who have not previously worn glasses, and not to forget, also well-suited for young presbyopes who do not yet wish to wear progressive lenses.

Coatings



Easy to clean thanks to cleaning layer



No reflexes thanks to super anti-reflection coating



No scratches thanks to robust hard coating

ProClean

The ProClean coating consists of the hard coating, the super anti-reflective coating and the cleaning layer. ProClean is the coating with the best all-round protection and an extra long life of the lenses. The lenses are extremely hard, reflex-free and easy to clean. The various layers of the finishing system give the lens a hard-wearing, smooth surface with a high-quality optical quality.

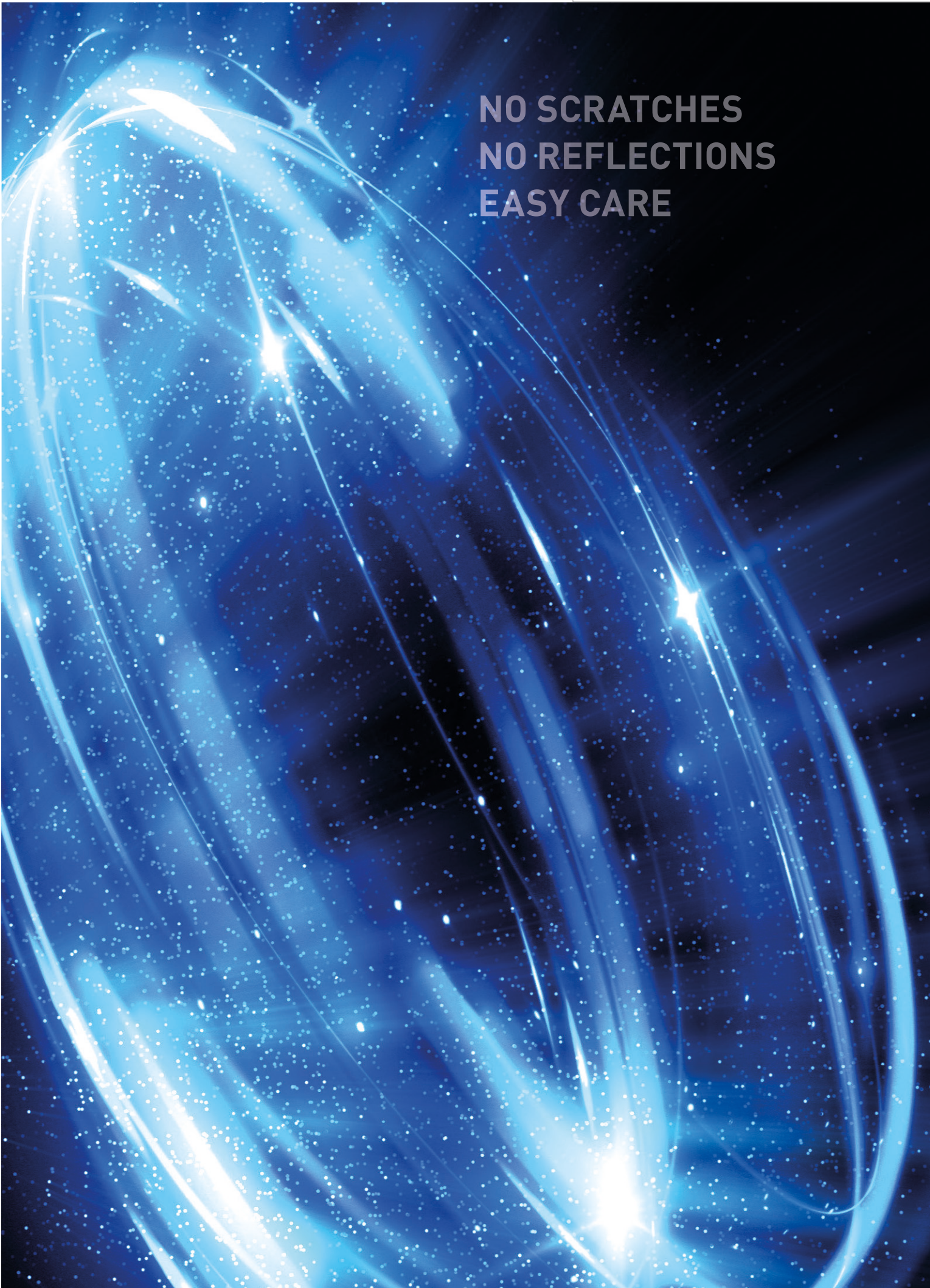
Pro

The Pro coating consists of the hard coating and the super anti-reflection coating. Reflexes on lenses are extremely disturbing and impair visual performance. In certain situations - such as when driving a car, in the dark or working at the computer - the positive effect of super-reflection is particularly noticeable.

Eco

The Eco coating includes the high-quality hard coating. In particular safety eyewear is exposed to strong mechanical stress, aggressive particles or strong dust on a daily basis. The lenses can be damaged by dust, dirt or other particles - even during cleaning. A hard coating makes the lenses more resistant to scratches, making a hard coating on lenses essential for safety eyewear.

**NO SCRATCHES
NO REFLECTIONS
EASY CARE**



Important Instructions



Warranty services

We offer you a 5-year warranty for your safety eyewear frames (see ALV). We test all the UNICO products on a regular basis. This way we guarantee our compliance with our strict quality and resilience directives as well as the highest of standards for the industrial and private sector.

The warranty includes material and production errors as well of the following components:

- Front
- Temple
- Side shield
- Rim lock
- Temple hinge

The warranty does not include:

- Eyeglass lenses
- Temple ends
- Nose pads
- Soft plastic inserts

Unico Graber will inspect the rejected product and decide at its own discretion if there are grounds for a warranty claim. If the claim can be asserted, the defective part will be replaced with an identical or similar product. If the product is covered by the warranty, Unico Graber will assume the costs for the repairs, spare parts and return transport. The warranty does not apply to safety eyewear that has not been used correctly or properly, altered unknowingly or intentionally, or cleaned using the wrong cleaning methods and/or products.



(INDUSTRY)

Ordering safety eyewear

Please use the UNICOindividual-Industry order form you have defined with your industry consultant. The certification is carried out by Unico Graber. The finished safety eyewear will then be delivered to the optician and perfectly adapted to the wearer.

(OPTICIAN)

Ordering safety eyewear

The order takes place via the Unico Graber online shop www.unicograber.com/ONLINESHOP. The certification is carried out by Unico Graber. The finished safety eyewear will then be delivered to the optician, where it is perfectly adapted to the wearer.

PPE Regulation (EU) 2016/425

The PPE Regulation (EU) 2016/425 states, among other things, that for reasons of product liability, only complete personal protection equipment may be accepted. This means fully assembled safety eyewear including frames and lenses. This was already the case with Directive 89/686/EEC, which was in force before this regulation.

EC Type approval

The EC Type examination certificate confirms that the product corresponds to the fundamental requirements of health and safety in accordance with the Directives of the European Community for personal protection equipment.

EN 166:2001

EN 166:2001 is the name of the standard against which the eye-protectors are tested. With this examination, in addition to testing the optical class and the mechanical strength, the combination of all the lens variants with the various safety eyewear frames is also tested. The safety eyewear is then labelled according to the optical and mechanical tests it has passed. The personal declaration of conformity is supplied with the finished safety eyewear. All UNICO glasses correspond to optical class 1.

UNICOindividual - Industry

UNICOindividual - Industry includes the safety eyewear range which is offered to industry and trade through the PPE specialist traders.



Mechanical resistance

To determine the mechanical resistance, please contact the safety representative of the company issuing the order. If it can be safely concluded that the user can assess the effectiveness against minimal risk themselves and/or a risk analysis has been carried out, the mechanical resistance can be defined by the user themselves. For more information, see page 6.

Lens materials and refractive index

The lens variants listed in the price list are tested according to EN 166:2001 and certified by Unico Graber (EC Type Approval). Different lens materials and refractive indices cannot be selected for legal reasons.

Liability

Unico Graber assumes liability for the entire product, securing the EC Type Approval and adherence with EN 166:2001. The optician and/or the wearer is responsible for the correctness of the information on the order.

Internet

www.unicograber.com, HIGHVISION, UNICOindividual, the individual prescription safety eyewear

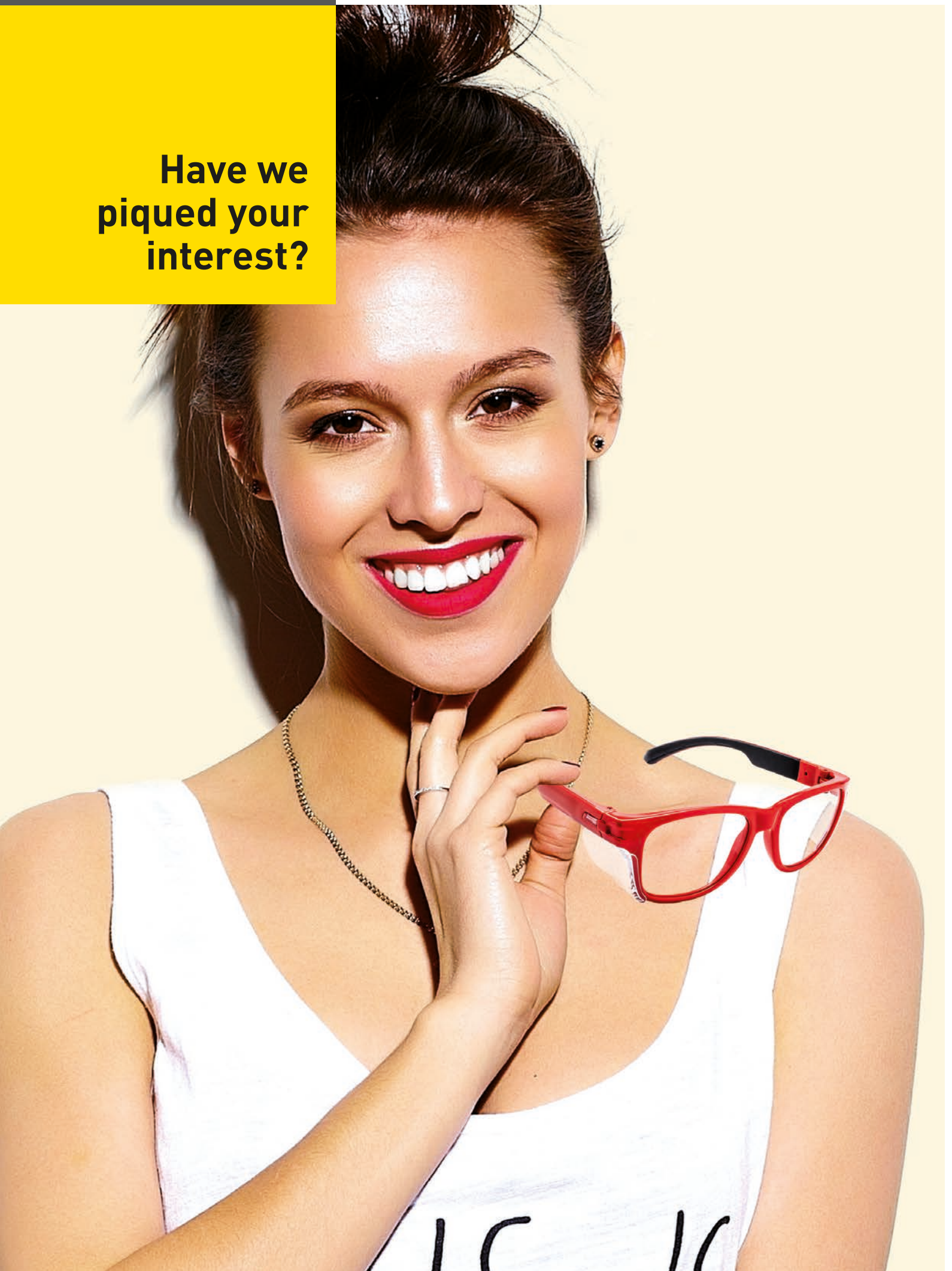
Repairs

Due to the safety regulations EN 166, repairs to existing safety eyewear by optician outlets may only be carried out to a limited degree. Replacements of the following components are permitted: screws on the bridge, side shield, temple ends and the temples (not however on the rim lock). Unico Graber has to carry out all replacements for front parts or individual lenses and these have to be certified again.

For the latter and all other repairs, the optician will send the eyewear to Unico Graber GmbH, D-Lörrach for international inquiries and Unico Graber AG, CH-Münchenstein for Switzerland.



Have we
piqued your
interest?



**We look forward
to hearing
from you.**

UNICOindividual prescription safety eyewear

From lenses and frame to the optician near you - everything you need to know about corrected safety eyewear can be found at www.unicograber.com, corrected safety eyewear

UNICOindividual

Online shop for opticians

Unico Graber is the first provider in the field of corrected safety eyewear to offer an online shop for opticians. The advantages are obvious:

- Simplified ordering process
- Transparency through traceability of the production process
- Quick delivery times
- Documentation of orders that can be called up and traced at any time

Contact us

Switzerland:
info@unicograber.com

International:
germany@unicograber.com

Unico Graber

Would you like to learn more about Unico Graber and its vast product range? All details and further information can be found at www.unicograber.com

www.unicograber.com

Your contact



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