

ORIGINAL

# ON THE SAFE SIDE OF THE LIGHT

ULO ORIGINAL PARTS – NO COMPROMISE ON QUALITY

ULO®

# ULO – A BRAND OF THE ODELO GROUP



## YOUR PARTNER FOR LIGHTS AND MIRRORS IN ORIGINAL EQUIPMENT QUALITY FOR THE INDEPENDENT AFTERMARKET

### ODELO – LIGHTING TECHNOLOGY FOR THE AUTOMOTIVE FUTURE

The odeło Group has been one of the preferred series-production suppliers to well-known vehicle manufacturers for decades and meets all of the associated quality and technical requirements. The company sets the standards in the production of rear and signal lights with the highest level of innovation, latest production processes and state-of-the-art technologies.

ULO, as the internationally operating trademark of the odeło Group, supplies these products in original equipment quality to the independent aftermarket.

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### ULO – A SHINING EXAMPLE OF ORIGINAL QUALITY

ULO stands for uncompromising quality. Using sophisticated testing methods that simulate the 15-year service life of vehicles and a total distance travelled of 300,000 kilometres. ULO ensures that its products can also withstand even the toughest conditions. The benefit for workshops is that ULO products guarantee a perfect fit and can be installed easily without the need for any follow-up work. The products also stand out due to their precise colour fidelity and constant light values – over the full lifetime of the vehicle.

### ULO – A BRAND OUR CUSTOMERS AROUND THE WORLD CAN RELY ON

ULO places its focus at all times on the success of its customers with an intelligent and efficient logistics and service concept. Thanks to a comprehensive and strong sales network, you can be sure that all parts will arrive at the desired location at the right time – all around the world.



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100% ORIGINAL QUALITY ACCORDING TO THE HIGHEST STANDARDS OF THE AUTOMOTIVE INDUSTRY

ULO is the international trademark of the odelo Group and well-known for supplying spare parts in original equipment quality.





# A SHINING EXAMPLE OF PROGRESS

INNOVATIONS THAT IMPACT US ALL

The company's innovations provide solutions to the challenges faced by customers. More safety in road traffic, robust materials, outstanding design, energy-saving light technology and the efficient use of resources are thus factors that motivate us to develop new ideas. The future-oriented products of tomorrow are developed based on these ideas and the passion displayed by every single employee for technology, precision and mastering sophisticated production processes.



## OLED REAR LIGHTS (2016)

The odelo Group was the first automotive manufacturer worldwide introducing organic light-emitting diodes (in short: OLED) into series production and thus created a real highlight. Due to its unique character, OLED technology shapes the appearance of the vehicle – and is also extremely energy efficient.



## DYNAMIC INDICATOR (2013)

Individual LEDs light up in sequence from inside to outside when indicating to produce a homogeneously flowing running light. Alongside this technical innovation, indicators have become real design objects.



**MULTI-LEVEL REAR LIGHTS (2012)**

Multi-level rear lights ensure powerful lighting performance without blinding other road users. The special feature: Three adaptive lighting levels with different light intensities automatically adjust to the driving situation and ambient light (day, dusk, night).



**ADAPTIVE BRAKE LIGHT (2001)**

During very heavy braking, the brake lights flash multiple times per second and the hazard warning system is activated. This innovation makes the braking process even safer for all road users.

# NO COMPROMISE ON QUALITY



## PERFECT QUALITY – WITHOUT COMPROMISES DOWN TO THE LAST DETAIL

Anyone who replaces rear lights would be well advised to use spare parts in original quality. Outstanding product quality has the highest priority at ULO. All ULO original parts are produced in OEM quality and thus satisfy the highest requirements of the automotive industry.

### ON THE SAFE SIDE OF THE LIGHT

ULO does everything to guarantee quality during each process step. This includes, in particular, its own quality management system that has been specially tailored to the products. To produce perfect parts, the company works in accordance with the zero error principle and puts its quality to the test on a daily basis.

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### We exclusively use the highest quality materials purchased from certified suppliers.

For example, UV-resistant granulate for colour fidelity and robust lenses. This is a real mark of quality especially when replacing a rear light at one side.

### We exclusively use the highest quality single components.

For example, aluminium-coated covers and reflectors that are permanently resistant to oxidation thanks to the use of high-quality coating processes and thus ensure optimal light reflectance.

### We use state-of-the-art testing methods to guarantee the effective functionality of the products.

For example, automatic inline 3D measurements of the lenses to guarantee a perfect contour so that the rear lights fit accurately at all times.

### ULO relies on premium quality in its use of electronic components.

High-quality LEDs with optimum heat management exclude the chance of single LEDs malfunctioning. Implementing technology and design is becoming increasingly more complex and demanding. Nowadays 50% of the production costs are related to electronics. This requires a sophisticated production technology and expertise that meets the high demands of the automotive industry.



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ON THE SAFE SIDE OF THE LIGHT WITH ULO SPARE PARTS

ULO guarantees outstanding product quality and long-term satisfaction of its customers.

#### CERTIFIED QUALITY

The odelo Group is certified according to the latest standards: ISO 9001:2015, IATF 16949: 2016, ISO 5001: 2008, ECE, SAE and CCC vehicle type approvals. Our factories are subject to the environmental and energy polices according to DIN EN ISO 14001:2004 and DIN EN ISO 50001:2011.





## QUALITY IN EVERY DETAIL

PRODUCTION PROCESSES THAT MEET THE HIGHEST  
REQUIREMENTS OF THE AUTOMOTIVE INDUSTRY



OUTSTANDING TECHNOLOGIES



# YOUR ADVANTAGE: OUR HIGH COMMITMENT TO PRECISION

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Ideas are transformed into products for today and tomorrow thanks to our passion for new production technologies and our commitment to precision. As the preferred series production supplier for well-known vehicle manufacturers, the odelo Group can easily handle challenging manufacturing processes for complex components. The company stands out due to its use of the latest processes in the production of rear lights. This high commitment to quality and expertise of production technology are displayed at all production plants.

## CONNECTION TECHNOLOGIES

Innovative and efficient at the same time: The odelo Group always uses the latest processes for series production, such as hybrid laser welding. Our company was awarded the renowned GKV/TecPart Innovation Prize as a result. The benefits are clear to see. Clean and less visible welding seams – for a perfect connection between the components.

**The result: Perfect workmanship, flawless appearance and fine contours.**

## COATING PROCESSES

Implementing technology and design is becoming increasingly more challenging and requires a coating technology that meets these high requirements. The odelo Group achieves this using its own metallization plants combined with the required expertise.

**The result: High-quality surfaces that characterize the typical appearance of lights on cars and guarantee optimal light distribution.**

## INJECTION MOULDING PROCESSES

The perfect plastic is the basis on which products from the odelo Group are produced. The latest injection moulding machines ensure economical production during each work cycle.

**The result: Fair price-performance ratio**

# TESTED FOR QUALITY



STATE-OF-THE-ART  
TESTING PROCEDURES  
ACCORDING TO THE LATEST  
AUTOMOTIVE STANDARDS

ULO rear lights are tested under the most extreme conditions to ensure that they will remain reliable even under the toughest road conditions. The most demanding testing methods simulate a service life of around 15 years and a total distance travelled of about 300,000 kilometres in the field.

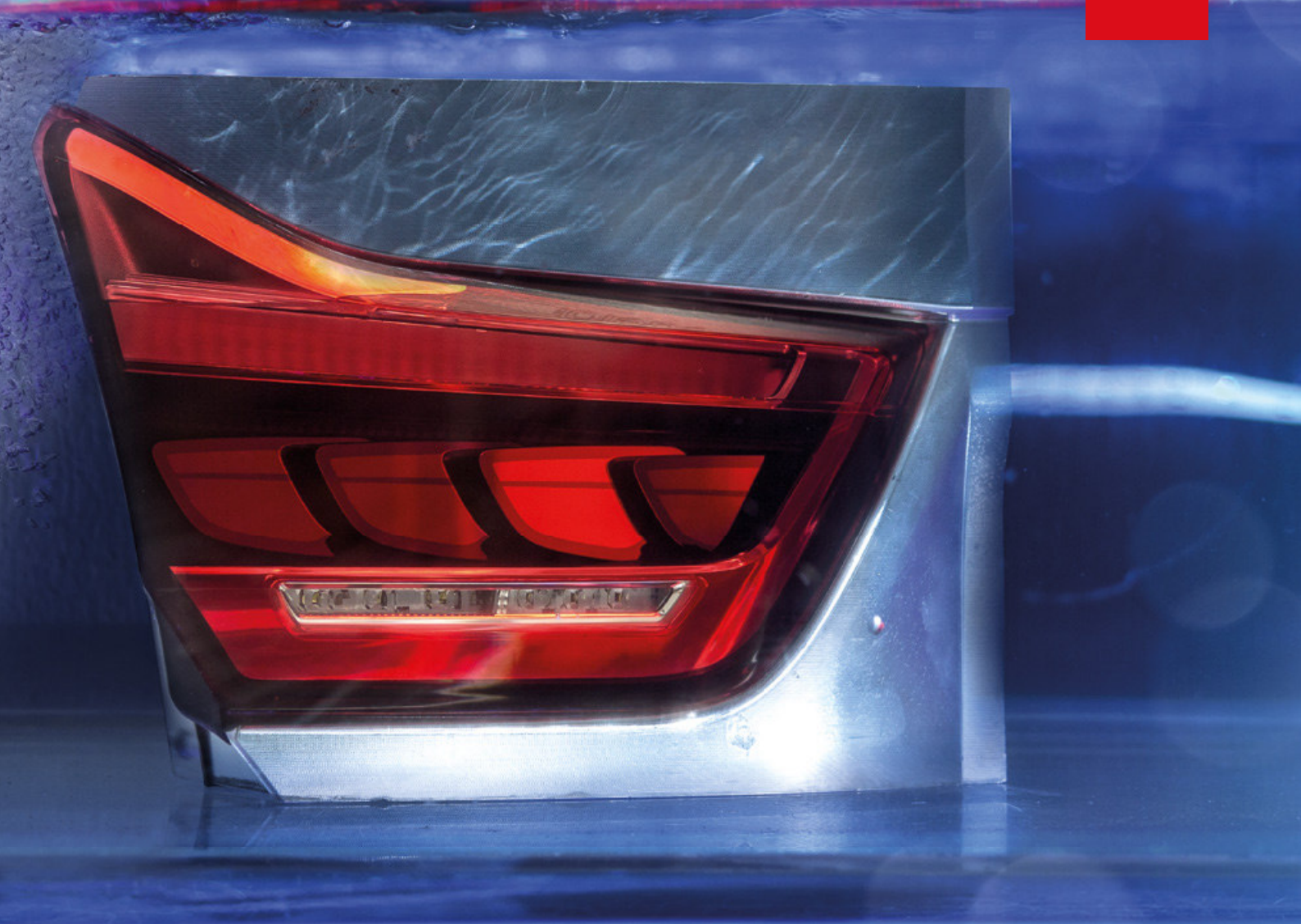


## VIBRATION RESISTANT

The vibration shaker simulates the mechanical stresses faced by the complete rear light by generating strong and long-lasting vibrations. **Ensuring maximum protection for the external elements and electronic components – even under the harshest road conditions.**

## STRONG UNDER HIGH PRESSURE

The high-pressure cleaner test determines whether the rear lights can actually withstand the demands of everyday life (e.g. in a car wash). **Ensuring extremely water-resistant rear lights – even under high pressure.**



#### ABSOLUTELY WATERPROOF

The water resistance of the rear lights is tested in a plunge pool under low pressure. **Ensuring a light that doesn't let in a single drop of water – over the full lifetime of the vehicle.**

#### NO CHANCE FOR DUST

This process tests the leak tightness of the housing and the reliable functionality of the rear lights in a dust cabinet. The test involves fine sand being whipped around the chamber using blasts of air. **Guaranteeing that foreign bodies are permanently prevented from penetrating into the lights.**

#### EXTREMELY STABLE AT ALL TEMPERATURES

The thermodynamic behaviour of the products is tested in an environmental chamber at temperatures between  $-40^{\circ}\text{C}$  and  $+80^{\circ}\text{C}$ . **Ensuring that the lenses do not crack even in the event of extreme fluctuations in temperature.**

In addition, a temperature shock test simulates the effect of temperature fluctuations on especially sensitive components such as the LEDs. **The chance of electronic components failing is thus excluded.**





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YOUR PARTNER FOR LIGHTS AND MIRRORS ON THE INDEPENDENT AFTERMARKET

ULO has been an established brand on the independent aftermarket for more than 70 years. We always reliably and flexibly satisfy customer requirements.



PREFERRED PARTNER

# PERFECT PERFORMANCE WITHIN TERMS OF SERVICE



## ULO SERVICE EXPERTISE

ULO is well-known for supplying original parts in original equipment quality and for entering into partnerships on equal terms. Our pledge to offer perfect quality and performance at all times also covers how we deal with our partners.

### WHAT OUR CUSTOMERS APPRICIATE

Quick order processing and the flexible supply of goods have top priority. ULO products stand out not only due to their outstanding quality but also because of their extremely good value for money.

### GLOBAL AVAILABILITY

Thanks to a comprehensive and strong sales network that guarantees the high availability of ULO products, customers can rely on the fact that all parts will arrive at

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the desired location at the right time. Independent vehicle workshops and trading partners across the world count on ULO spare parts in original quality.

### INDIVIDUAL SALES SUPPORT

A high level of customer orientation is our main focus. We offer our trade partners individual sales support with, for example, product range comparisons, potential analyses and information on new products.

Customers can quickly and easily find our products using the online catalogue on [ulo.de](http://ulo.de). If a partner is not satisfied with their product or wants to return an incorrectly ordered part, they can rely on a smooth handling.

### CERTIFIED TECDOC DATA QUALITY

ULO has been a certified TecDoc A supplier for many years and guarantees the highest data quality at all times.



LOGISTICS SERVICE WITH PRECISION

ULO uses an intelligent logistics concept to guarantee that products are always delivered to where they are actually needed.



A LOGISTICS SERVICE TO MEET CUSTOMER REQUIREMENTS





## THE PARTNER FOR YOUR SUCCESS



### LOGISTICS SERVICE: COMPREHENSIVE AND FLEXIBLE

**At all times, our focus is on the success of our customers with an efficient logistics and service concept.**

#### **ALWAYS WELL SUPPLIED**

ULO focuses on the optimum supply of goods, reliable deliveries and flexible processing of customer orders so that the vehicle is quickly back on the road again. We also offer wholesalers, retail stores and exporters express or next day deliveries where required in selected countries.

#### **POWERFUL LOGISTICS**

ULO supplies partners on all continents. The logistics centre uses state-of-the-art technology to ensure that every order can be processed even faster and more reliably. The warehouse covers an area of around 2,000 square meters and has space for more than 3,000 pallets to ensure that the desired product can be delivered as quickly as possible after receipt of the order.

ORIGINAL

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