



Innovative Lighting Systems

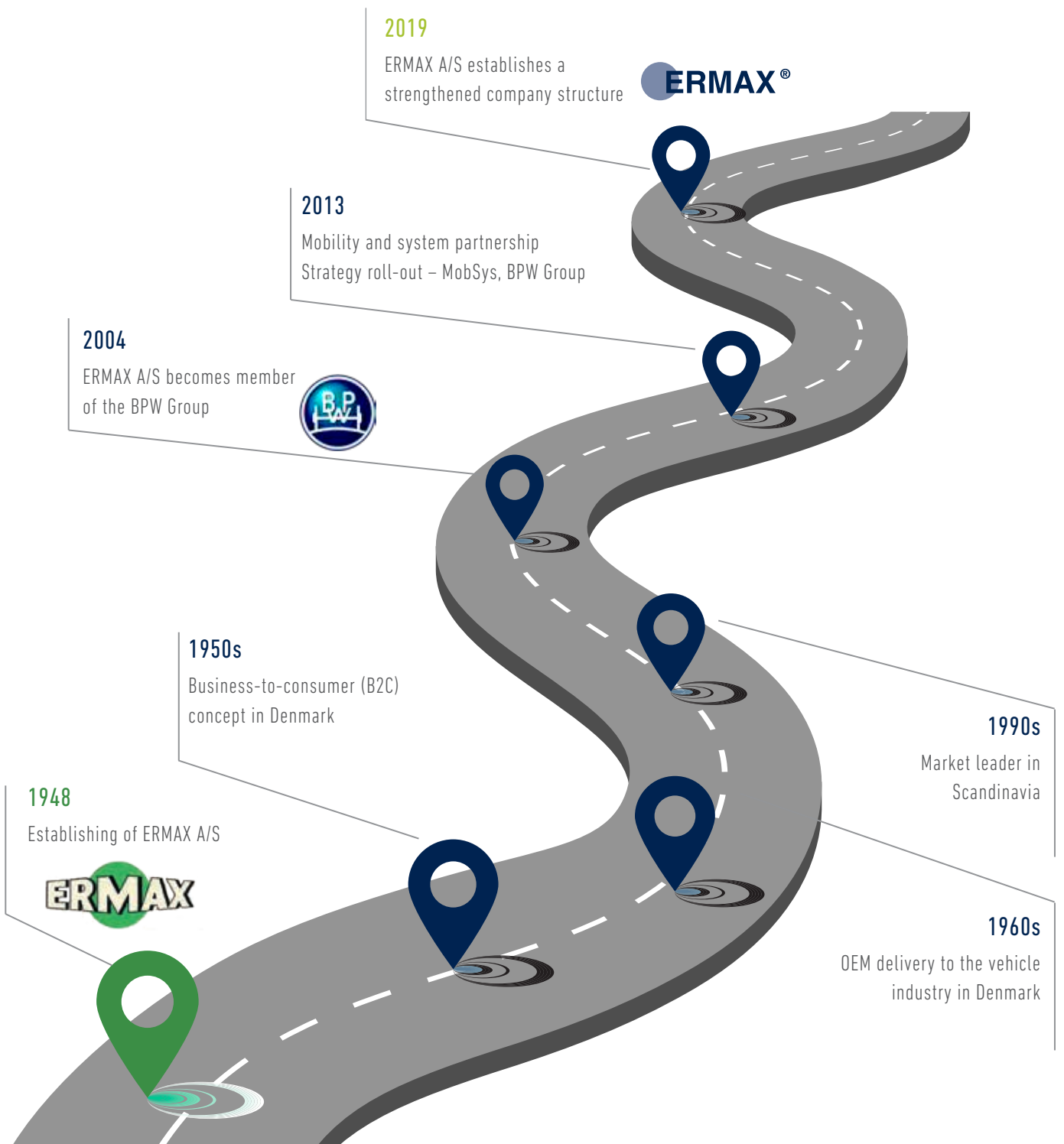
Modern technology and top quality

ERMAX Lighting Systems

Innovative quality

Ermax A/S has more than 70 years' experience with lighting technology for commercial vehicles and industry. Much has been changed since the beginning. The evolution and experience over the years have made the company to what it is today: a growing, flourishing and innovative production company with committed employees and partners.

Milestones – 1948-2020



Impressive technology

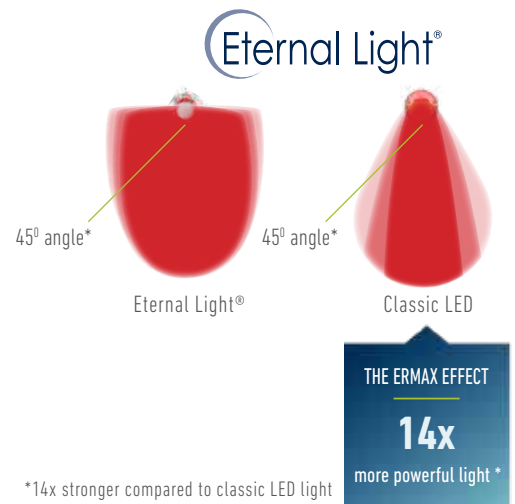
The best choice

Ermax lighting systems fulfil the highest demands concerning quality, functionality and reliability. Unique design, the newest light and LED technology, second-to-none durability and high quality are united in the ERMAX lighting programme – and due to the cost-effectiveness, it is a real highlight.

Lighting technology Eternal Light® - increases traffic safety

ERMAX Eternal Light® technology is designed for the best possible SAFETY when driving. It offers the best possible homogeneous light function and has various advantages based on test results.

- Eternal Light® lighting technology – is perceived by other road users earlier than classic LEDs lights or bulb lights.
- Contributes to reducing the number of accidents in connection with changing lanes and right turns.
- Soft visuality when platooning.
- Prevents fatigue in case of long-lasting impact and thus also accidents.

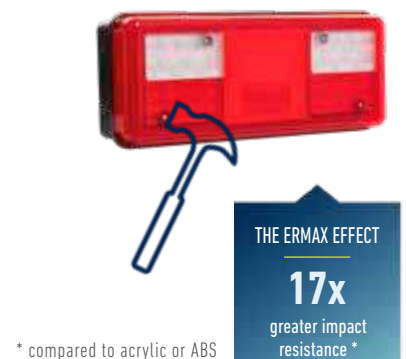


Impact resistance – durable and environmentally friendly

The use of high-quality impact-resistant polycarbonate in the ERMAX lights ensures a long lifespan and is very environmentally friendly due to the impact resistance and choice of material.

Extreme durability

- Reduction of costs – no need for spare parts due to the long lifespan.
- Sustainability reduces the entry of microplastics into the environment.



Intelligence – all integrated

ERMAX offers various innovative solutions and control systems for failure control of flashing side marker lights and LED tail lights – optimally integrated into the tail lights or alternatively as plug-in solutions

- Intelligent control of flashing side marker lights SIMAC® according to ECE R48.
- Built-in intelligent control for monitoring and failure report of LED tail lights according to ECE R48 – for indicator and stop functions – but also as a universal variant for all tail light functions.
- The use of a technology which is NOT limited to ISO13207 and therefore suitable for all vehicles*.



* All known brands within the EU countries from 11/2019

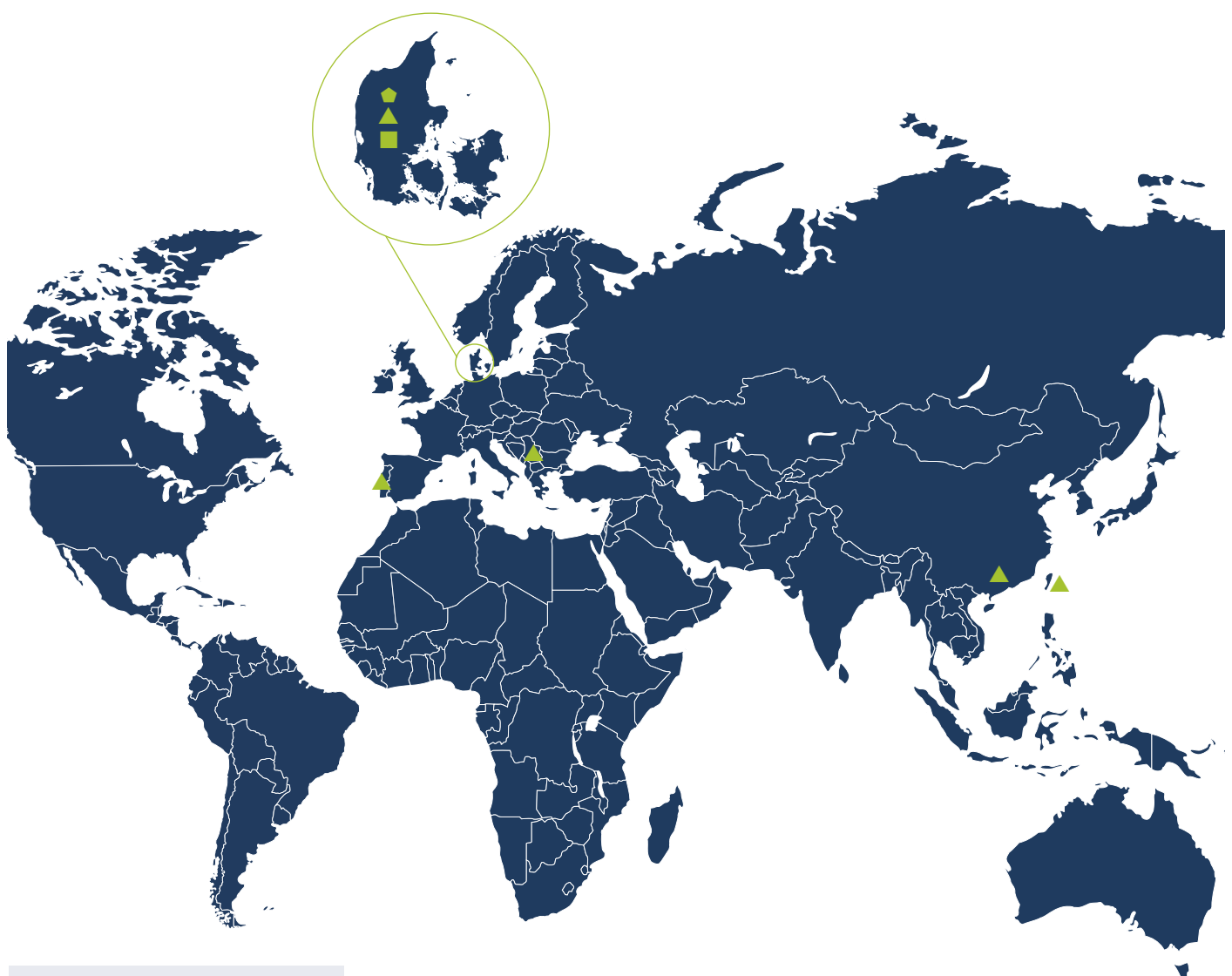


ERMAX – a global player

Locations, production and development

ERMAX has placed the activities in strategic places in Europe and the Far East. The combination of having our own production site in Denmark and licensed production sites with a few selected and exclusively certified production partners worldwide makes it possible to offer an innovative product programme.

The strategic centre is in Denmark where development and quality management is located. For more than 70 years, complete solutions within lighting systems for heavy vehicles have been developed here.



Legend:

- Blue pentagon: Headquarters
- Blue square: Development
- Blue triangle: Production

Production sites:

- Blue triangle: China
- Blue triangle, blue square, blue pentagon: Denmark
- Blue triangle: Portugal
- Blue triangle: Serbia
- Blue triangle: Taiwan

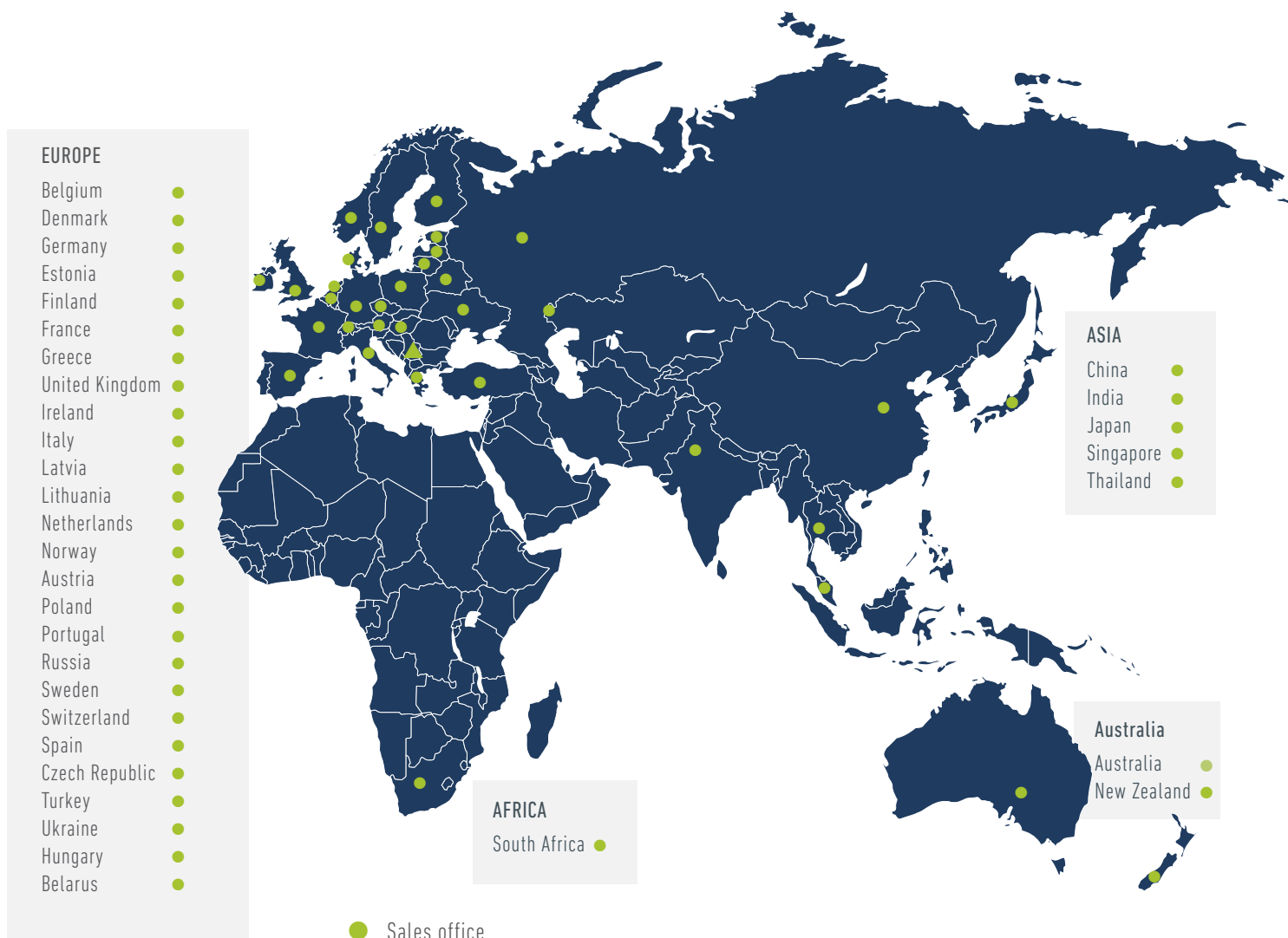
Local representation

Always close to you

As a member of the BPW group, which operates worldwide, ERMAX has a unique sales and distribution network with local agencies and support, which guarantees the best possible customer support.

Service partners can also be found globally, meaning service is always available around the clock.

➤ BPW Service: mobility around the clock
– thanks to 3,200 service partners around the world



First-class tested quality from ERMAX

Focus on development

Throughout the entire manufacturing process, the defined quality criteria and test methods of the ERMAX lights are checked in order to guarantee the high product quality. Numerous complex test procedures are carried out to ensure the quality. The development as well as the serial production is ensured by observation, monitoring and testing.



Temperature/humidity cycle test

The ERMAX lights go through a temperature cycle test in climatic chambers with temperature fluctuations from -40°C to $+65^{\circ}\text{C}$.

During this test, the materials used for the work light, the individual components of the electrical components and the LED light sources are tested.



Vibration test

During the vibration test the ERMAX lights are shaken for hours in order to simulate the toughest conditions in daily use. The products are tested in all possible mounting positions (horizontally, vertically etc.).



Splash water test

In a splash water chamber, the ERMAX lights are tested for simulated rain and water jets, and also tested for density/watertightness with a water pressure of 1 bar and a water temperature of 20°C (IP54).



Immersion and pressure tightness test

In the immersion test, the ERMAX lights are kept under water for 1 hour in a water tank at a depth of 1 metre (IP67).



High-pressure water test

The ERMAX lights are subjected to a test with a water pressure of 80–100 bar and a water temperature of 80°C (IP69K).



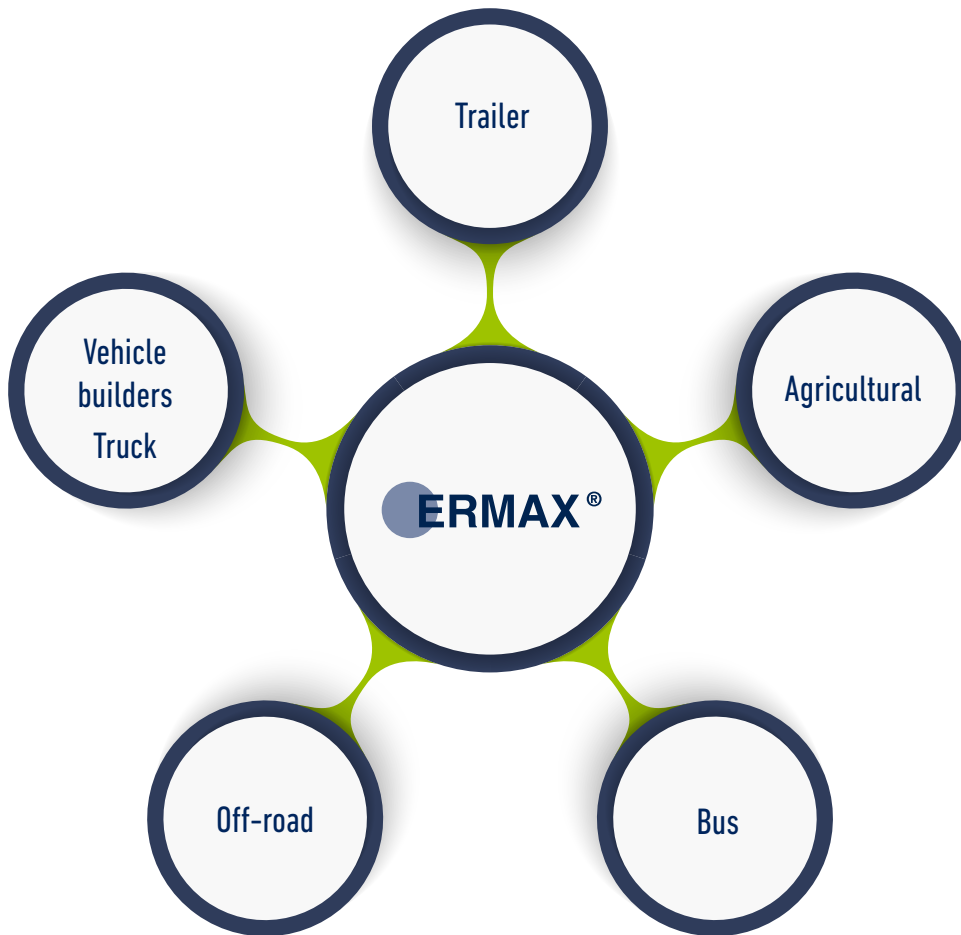
Dust test

The dust test according to IEC60529 uses dust to check how the ERMAX lights are protected against the ingress of dust and other solid particles.

Your partner for complete system solutions

Core competencies for OEM solutions

For heavy vehicles in the OEM area we offer universal products as well as vehicle-specific product solutions. Developed from concept to product ready for series production, ERMAX produces and tests solutions within the range of lighting, cable systems and electronics for trailers, agricultural vehicles and machines, vehicle builders, off-road vehicles and buses.



Brands in the BPW Group:



ERMAX®



HESTAL®



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**ERMAX**®
“Light Made Heavy Duty”

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