



## Lighting/Luminaires

Pls contact [Stahl@unitconcept.com](mailto:Stahl@unitconcept.com) for more details and pricing



## Lighting/Luminaires



*Explosion-protected LED solutions from R. STAHL: Long-life, efficient and innovative.*

R. STAHL has extensive expertise in lighting design, explosion-proof light fittings and LED technology for hazardous areas and harsh environments. This makes us a well-qualified, flexible partner for creating modern lighting solutions with particularly low energy consumption and minimal maintenance requirements.

You benefit from our input right from the lighting design stage, where we tailor our plans to your situation. We manage every stage of the project, from the design stage to the manufacturing stage, to produce both bespoke individual light fittings and complex systems, such as emergency lighting systems with a central battery.

R. STAHL supplies explosion-proof lighting for almost any application: General lighting, floodlights, compact lights, hand lamps or emergency lighting systems.

Our explosion-proof LED lights are particularly well suited to creating modern lighting solutions with particularly low energy consumption and minimal maintenance requirements.

Comprehensive service for your lighting system is all part of the package we offer.

## Linear Luminaires



Extremely efficient, robust, lightweight, compact and easy to install. Our new Ex linear luminaires are available with or without the emergency lighting function.

R. STAHL's explosion-proof linear luminaires are available in two versions, the first boasting the most sophisticated, innovative LED technology, and the other a conventional version with T8 fluorescent tubes. As standard, they come with an electrical connection on both sides, five-core through wiring for installation in light strips.

All our new EXLUX conventional and LED linear luminaires are compatible with the previous series.

### Features:

- EBs fitted to the reflector plate make them easy to maintain
- All-phase circuit breaker (Zone 1) and through wiring included as standard
- New sealing system and improved central lock for protection rating IP66 / IP67
- Extremely robust, with an impact strength rating of IK10, but lightweight at between 5 and 9 kg

## Tubular Light Fittings



R. STAHL's robust tube lights are available as fluorescent lamps or with LEDs. They are suitable for use in a huge variety of operating locations – including in harsh environments. They can also be used as machine lights.

The 6036 series tube light is a standout product with its wide operating temperature range, IP68 level of protection and extremely long service life. The very low, extremely brief start-up current allows a large number of lights to be connected to a single miniature circuit breaker. The different sizes are 100% compatible with the various fluorescent lamp versions and can be used as direct replacements. The lights can be securely installed in no time at all using pipe clamps. Our explosion-proof tube lights feature the most advanced LED technology.

Some LED models are now even safer thanks to their flicker-free light. The service life when using the latest LED technology is many times longer than when using incandescent light bulbs or fluorescent tubes. They are also extremely impact resistant, lightweight and particularly vibration resistant. They are suited to compact and intelligent solutions, e.g. solutions in which the luminous intensity reacts to the ambient conditions. With the right accessories, they are easy to fit to the wall, ceiling or a pole in no time at all.

Their comprehensive certification make these light fixtures suitable for use in marine environments (GL/DNV certificate) and in the mining industry (equipment group I approved).

## Features:

- Suitable for any operating location: Onshore and offshore sites, marine environments and the mining industry
- Extremely robust design for harsh conditions and inhospitable environments
- Very lightweight and vibration resistant LED tube light
- Extremely long service life
- Low start-up current
- Can be used in place of up to two 36 W fluorescent light tubes
- Can be used at ambient temperatures of as low as -55 °C

## Emergency Luminaire



Our emergency lighting systems provide reliable illumination for up to 3 hours when powered by batteries; also available as emergency exit lighting with the escape signs of your choice. Thanks to R. STAHL's emergency lighting products, you can also network your safety lighting.

The choice is yours: Emergency lighting unit or emergency exit light, 1.5 or 3 hour battery life, wall-mounted, ceiling-mounted, pendant or pole-mounted light. Whatever you decide, you can be sure that R. STAHL will deliver when it comes to the reliability and safety of your explosion-proof emergency lighting unit. Some models automatically perform a functionality test, use

intelligent charging technology to extend the battery life, and shut themselves down when opened so that you can safely replace the battery or bulb without needing to disconnect the emergency lighting from the mains.

For more extensive installations, you can use group and central battery units (available from R. STAHL) for your safety and escape sign lighting – these are freely programmable, networked, and guaranteed to be cost-effective and safe.

#### Features

- Automatic weekly function test and deactivatable automatic annual battery rated operating time test
- Two-bulb versions automatically switch from faulty bulb to working bulb when emergency lighting in operation
- EXLUX family installation material gives you freedom when installing the emergency lighting unit

## Floodlights



Robust enclosure, high-quality materials – R. STAHL's Ex floodlights can be used almost anywhere. They are fitted with halogen bulbs, halogen metal-vapour lamps, high-pressure sodium-vapour lamps or LEDs and are available in a range of sizes.

Spotlights, searchlight, worklight – with R. STAHL's floodlights, you are equipped for any task in Ex zones 1, 2, 21 and 22.

6121 series floodlights are suitable for gas group IIC. Thanks to the external ballast, they can be used at ambient temperatures of between -60 °C and +60 °C. Specialist materials for the reflector and glass pane increase the lighting efficiency.

6521 series floodlights are certified for explosion protection types nR and nA, and are available for 250 W and 400 W high-pressure sodium-vapour lamps. The benefit for you is that there is no need to inspect the restricted breathing enclosure, which makes installation and maintenance easier.

The 6125 and 6525 series LED floodlights are highly efficient, low maintenance and have a long service life. Using the right installation accessories, both floodlights can also be used as pendant lights/high bay lights.

## Features:

- 6121 series: High luminaire efficiency of up to 80%, seawater-resistant aluminium enclosure, wide-beam or narrow-beam floodlights, modular design, extreme temperature range up to +60 °C
- 6125 series: LED floodlights with a luminous flux of up to 21,000 lm, can be used universally, including as a pendant light/high bay light, wide temperature range of between -40 °C and +60 °C
- 6521 series: Weatherproof stainless steel enclosure, asymmetrical luminous intensity distribution for even illumination of large areas, easy to install
- 6525 series: Highly efficient LED floodlights, various luminous intensity distributions possible, can be used universally thanks to a range of different installation accessories

## Pendant Light Fittings



Pendant lights illuminate large areas from high ceilings or poles. A range of different lamp technologies, including LED technology, as well as different output classes and luminous intensity distributions are available for many different applications.

R. STAHL's pendant lights are available in numerous different versions, including high-pressure sodium-vapour lamps (HSE), halogen metal-vapour lamps (HIE), and of course, highly efficient,

long-life LEDs. Using the right accessories, these lights can be used as pendant lights or alternatively they can be wall-mounted, ceiling-mounted or pole-mounted. If required, they can even pivot.

This versatility makes them the ideal industrial light. The 6470 and L470 series offer the widest choice when it comes to increasing your installation options. Optional reflectors allow you to adapt the light to your illumination needs. Special versions from the 6050 family are also suitable for use in extremely cold regions or very hot environments. Even where there are specific requirements for incredibly low surface temperatures (temperature class T6), this lighting family has a solution to offer.

#### Features:

- 6050 series pendant lights: Seawater-resistant aluminium enclosure, also available as an energy-efficient, long-life LED pendant light
- reflectors for use when installing high up
- 6470 series pendant lights: Wide variety of enclosure covers allows for easy installation on poles, walls or ceilings

## Wall and Ceiling Mounted Bulkhead Light Fittings



R.STAHL's explosion-proof wall-mounted lights and ceiling-mounted lights can be used for general lighting purposes, for emergency lighting and as compact escape route lighting with your choice of escape sign.

The compact lights from the 6114 series perform the function of both general lighting and emergency lighting. They can be wall-mounted, ceiling-mounted or built in. With the escape sign of your choice, you can indicate the location of escape routes. As emergency lighting, they can also be powered by group and central battery units. An internal switch switches off the power supply at all poles when the lights are opened. Depending on the operating location, this series offers you the choice of an enclosure made from powder-coated sheet steel or one made from weatherproof stainless steel.

### Features:

- Reliable lighting for hazardous areas, including emergency lighting
- For zones 1, 2 and 21, 22
- The 6114/6118 family offers a choice of different enclosure materials, emergency lighting electronics and escape route signs

## Tank Inspection Lamps



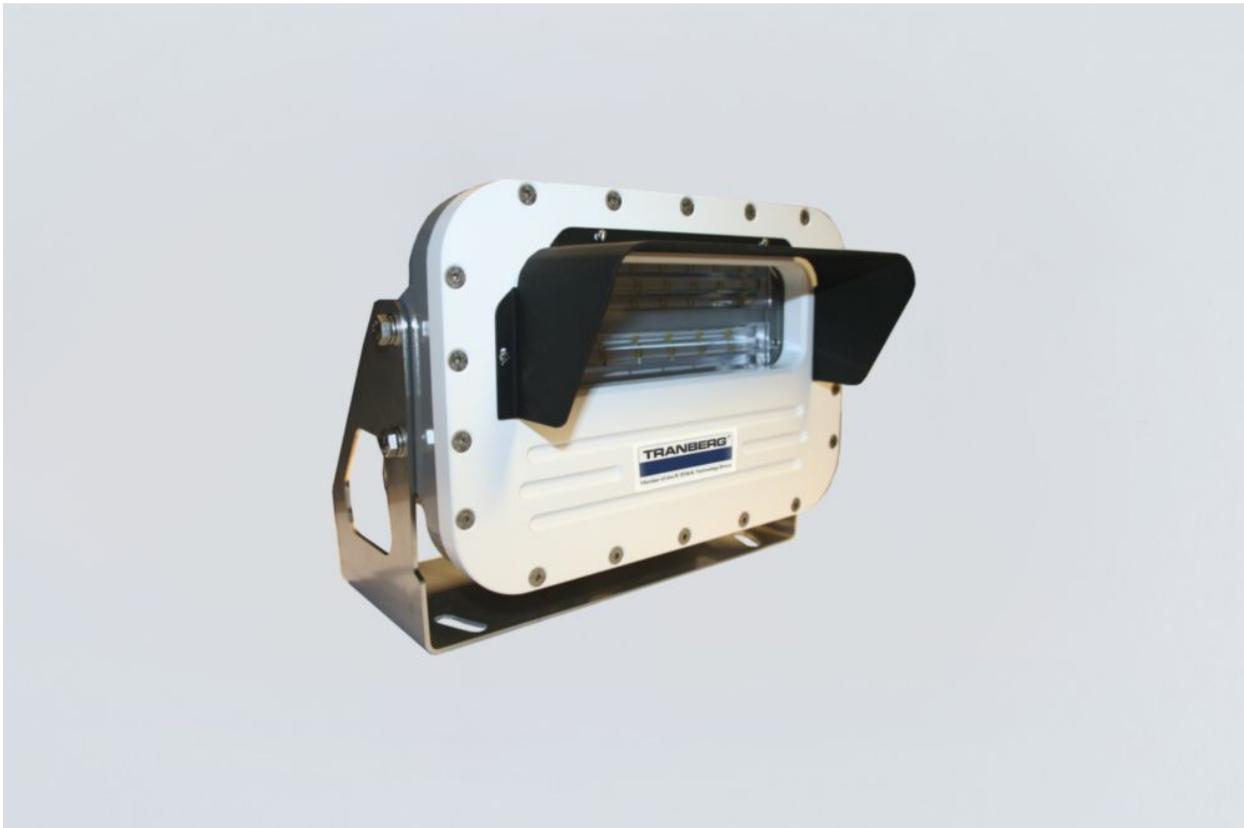
These inspection lamps illuminate the interior of storage tanks, stirred tank reactors and other sealed containers, such as distillation columns and inspection glass flow indicators, so that you have all the processes taking place within safely in sight at all times.

Our 6122 series tank inspection lamps use halogen bulbs with an output of between 5 W and 100 W to reliably illuminate tanks and similar containers without creating glare. They feature a corrosion-resistant alloy enclosure and offer a number of different installation options, such as using a tilting hinge, assembly flange or insertion flange. A glare-reducing opal glass is available as an option; a separate anti-glare device is available as an accessory. The optional timer automatically switches off the tank inspection lamps after a certain amount of time.

### Features:

- Corrosion-resistant aluminium alloy enclosure
- Available in a variety of output classes, from 5 to 100 W
- Available in a wide range of supply voltages, from 12 to 230 V

## Helideck Systems



Helideck systems illuminate helicopter landing pads brightly and completely eliminate the possibility of explosions. R. STAHL fully equips you for harsh conditions and inhospitable environments, from floodlights and perimeter lighting to the characteristic illuminated "H" in the circle, illuminated wind sleeves and control equipment.

Helicopter pilots must be able to locate their landing pad with absolute certainty. The HLITE lighting system is an extremely low, non-slip system that is highly reliable and can be installed with very little effort. This system fulfils the requirements of the Helicopter Certification Agency (HCA). Thanks to the duplicated, independent power supply circuit and LED bypass devices, the effect of an individual LED failing is only localised.

The TEF 9964 and TEF 9970 xenon and LED floodlights brightly illuminate the landing pad without dazzling the pilots. Not only that, but they are vibration-resistant, easy to maintain and have a long service life.

The Tranberg control systems make it easy to control the illumination of the helideck and other areas. In the event of a fault, they alert the user with an audible alarm and visual warning.

#### Features:

- Suitable for offshore and shipping applications
- All products are easy to install and maintain
- Proven Tranberg technology

## Hand Lamps



R. STAHL's explosion-proof hand lamps and portable searchlights are the ideal solution for when the fixed on-site lighting system does not provide sufficient light for your needs. Advanced LED technology means that they emit bright light and boast an extremely long service life.

Our 6148/L148 series portable LED searchlights are ergonomically designed and can be operated with one hand. They have a secondary light and a main light. The brightness can be freely adjusted; alternatively, it can be set to flashing mode. A particularly nifty feature is the lamp head's ability to pivot 190°. Handy extras include accessories such as a shoulder strap, belt hook and coloured diffusing lenses.

The 6149/2 series LED inspection lamp includes a connection line and can be fitted with a mains plug that is compatible with your system if required. Other practical features include the lockable suspension hook, reliable anti-roll protection and the protective cage (available as an accessory).

The 6140 and 6141/6 series hand lamps are Ex torches with a remarkably ergonomic design. Not only are these handheld lamps waterproof but and this goes without saying – they are also always completely safe.

6148 series portable LED searchlights: - These portable lights have been approved in accordance with the relevant firefighting standard. They remain fully functional for up to 11 hours with one battery charge

6149/2 series LED inspection lamps: - These inspection lamps are incredibly robust and can be operated with input voltages of between 12 and 240 V. With low glare and a wide radiation angle, they are the ideal tool for inspection and repair teams

LED torches: - These LED torches complete the portfolio. Suitable for all fields of application, they are lightweight, incredibly bright and take up very little space.