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bauma 2022: HELLA presents new lighting solutions for construction machinery and mining vehicles

- World premiere: New LED combination headlamp from HELLA with exceptional design for heavy-duty applications
- Smart lighting solutions improve occupational safety and comfort and increase cost efficiency
- All-round talent: Second generation of the RokLUME 280N work light with six illumination variants

Lighting and electronics expert HELLA will be presenting several innovative new products at bauma, the world's leading trade fair for the construction and mining machinery industry, in Munich from October 24 to 30, 2022 (Hall A5, Booth 436). As a world premiere, HELLA will be presenting a brand-new LED combination headlamp to the wider public for the first time. The combination headlamp boasts an extraordinary design, enormous robustness and can be mounted in various ways. It has all the important light functions such as low beam, high beam, position light, daytime running light and flashing light. Housing and lens are made of impact-resistant plastic. The combination headlamp is also vibration-resistant, dustproof and waterproof, making it ideal for the toughest conditions. A high-quality DEUTSCH DT connector and an ISO pulse indicator failure check ensure that the combination headlamp meets all functional safety requirements. In addition, ECE and SAE country versions will be available, differing in the approved flashing light function. CCC and AIS versions are also available on request. The new LED combination headlamp from HELLA is expected to be available by fall next year.

S series worklamps with innovative LED technology

"Simple, steady and streamlined" - that is the motto of the new S series. The worklamps in this series offer innovative LED technology and complement the Module 70, Module 90 and Power Beam worklamp families. The worklamps provide homogeneous illumination with a colour temperature of around 6,500 Kelvin, similar to daylight. Compared to halogen devices, the S series scores with high efficiency. The integrated electronics protect the device in case of polarity reversal and ensure constant brightness

even with the operating voltage fluctuating between 9 to 32 volts DC. Depending on the model, the S series is available with a round or square design, as well as a surface-mounted or recessed version. The Module 70 and Power Beam models are available in 1,000 and 1,850 lumen versions, and the Module 90 is available in 1,850 and extremely high 4,000 lumen versions. Thanks to the universal and slim design, vehicle manufacturers can easily and quickly convert existing halogen worklamps to LED technology. The housing and also the lens are made of special plastics, which on the one hand lead to a reduction in weight and on the other hand have a high corrosion resistance. The new cooling fin design is not only modern, but also ensures optimum heat dissipation, thus increasing the efficiency and service life of the worklamps. The S-series worklamps are available in close-range and long-range illumination. Further model and illumination variants are already under development.

Smart lighting solutions for heavy-duty applications

With the intelligent worklamp RokLUME 280N SMART, HELLA is presenting another highlight for heavy-duty applications at bauma in Munich. The RokLUME 280N SMART increases safety in mining and on construction sites. With its individual light settings, the intelligent worklamp enables the colour temperature to be changed from warm to cool white and the light colour to green or amber, depending on the variant. This adjustment of the light colour is of utmost importance, especially in poor visibility conditions caused by dust, snow or fog, to ensure the highest possible visibility. In addition, the brightness level can be adjusted to the current lighting conditions using the dimming function. The worklamp is available in six illumination options, including **ZEROGLARE** with a new patent-pending reflector. Via the HELLA control panel or the Human Machine Interface (HMI) in the vehicle, the worklamp can be operated easily and quickly.

Conventional worklamps can be replaced with the intelligent RokLUME 280N SMART in no time at all. Powerline communication (PLC) enables the control unit (gateway) to communicate with the worklamps over the existing harness without interference. Since the existing wiring harnesses and circuits are used, no changes to the vehicle architecture are necessary. Equipped with lifetime management, the system warns in good time before the worklamp's lifetime expires, thus preventing unplanned downtime. Anti-theft protection and a memory function for storing individual illumination settings are also integrated. With the Gateway Prime, the vehicle can also be equipped with a cornering light function.

The Smart Modular Worklight intelligent lighting system was also developed to improve work safety and comfort in off-highway applications. Unlike the RokLUME 280N SMART, the SMART Modular Worklight series are built-in modules. These work light modules are fully integrated into the cab roof and thus better protected from external influences. They also meet the demand for individual vehicle design, which is becoming increasingly important in the field of off-highway vehicles. The SMART Modular Worklight series is a further development of the Modular Worklight series, whose design has been adapted to the Shapeline light series and is available in two design lines: the classic straight-line "TECH" and the curved dynamic "STYLE" variant.

The Smart Modular Worklight is controlled via the vehicle's intelligence. Again, no new harness or changes to existing harnesses are required. HELLA's gateway communicates with the machine's existing user interface via CAN BUS and forwards commands to the HELLA worklamps. This allows manufacturers to offer optional lighting packages without having to change the vehicle architecture.

In conjunction with object detection on the vehicle side, the system also opens up numerous new, optional applications: Detected persons or obstacles could, for example, be specifically illuminated and thus warned, or the driver's blinding due to dust or attachments could be minimized by dimming individual segments.

RokLUME 280N Gen. 2 worklamp with six illumination variants

Another HELLA highlight is the popular RokLUME 280N worklamp for heavy-duty applications. The RokLUME 280N Gen. 2 series worklamps are particularly well suited for harsh mining environments as well as other heavy-duty applications. This is because ideal illumination of the working area is crucial, especially in rough terrain, so that the driver can react to obstacles and hazards in good time. With a very high light output of up to 5,000 lumens and six illumination options, including a tunnel floodlight, the RokLUME 280N Gen. 2 worklamps not only provide better visibility and thus increased safety, but also improved productivity, as the light is similar to daylight, allowing operators to work with less fatigue. Meanwhile, its energy consumption is just 50 watts. Compared to halogen devices, this means a reduction in power consumption and thus contributes to CO2 reduction. The housing of the RokLUME 280N Gen. 2 worklamp is made of high-quality die-cast aluminum with a corrosion-resistant NanoSafe coating that is optimally adapted to harsh environments. All worklamps in the series can be mounted upright,

suspended and horizontally thanks to a centered, robust bracket and are optimally adapted to environments with high vibration requirements. With its compact size, the new RokLUME 280N Gen. 2 worklamp is an absolute all-rounder, ideal for all mining vehicles and heavy-duty machines.

In addition to the highlights mentioned, HELLA will be presenting its complete product portfolio ranging from front and rear lighting, VISIOTECH projection technology, warning lights to electrical and electronic products.

Experience the innovative HELLA lighting solutions for construction machinery and mining vehicles live at bauma in Munich from October 24 to 30, 2022 in Hall A5, Booth 436.

Please note: This text and corresponding photo material can also be found in our press database at: www.hella.com/press

About HELLA

HELLA is a listed, internationally positioned automotive supplier operating under the umbrella brand FORVIA. Within this factual group, HELLA stands for high-performance lighting technology and automotive electronics. At the same time, the company covers a broad service and product portfolio for the spare parts and workshop business as well as for manufacturers of special vehicles with its Business Group Lifecycle Solutions. HELLA has 36,000 employees at more than 125 locations worldwide and generated consolidated sales of € 6.3 billion in the fiscal year 2021/2022.

About FORVIA

FORVIA comprises the complementary technology and industrial strengths of Faurecia and HELLA. With over 300 industrial sites and 77 R&D centers, 150,000 people, including more than 35,000 engineers across 40+ countries, FORVIA provides a unique and comprehensive approach to the automotive challenges of today and tomorrow. Composed of six Business Groups with 24 product lines, and a strong IP portfolio of over 14,000 patents, FORVIA is focused on becoming the preferred innovation and integration partner for OEMS worldwide. FORVIA aims to be a change maker committed to foreseeing and making the mobility transformation happen. www.forvia.com

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