



### HELLA innovations in Genius CAB concept cab

**HELLA provides light and electronics solutions for futuristic CAB of CAB Concept Cluster // World premiere at the bauma**

**Lippstadt / Germany, April 11, 2016.** HELLA established the CAB Concept Cluster through collaboration with other renowned suppliers and well-respected scientists in the construction machine industry in 2015 with the objective of developing a high-tech concept CAB for original equipment manufacturers operating in the field of construction machines and agricultural technology, as well as manufacturers of industrial forklift trucks and floor conveyors. The Genius CAB was developed by joining together the core competencies of the individual cluster partners, and will be presented to the general public for the first time at bauma, the world's biggest trade fair in the construction machine industry, which is held between April 11 and 17, 2016 in Munich. The light and electronics expert HELLA (Hall A5, Stand 436) actively contributed to the development with various innovations: ranging from LEDworklights, the 'SignaturLight' and interior lighting through to a radio remote control to unlock the door and the accelerator pedal and even a rain/light sensor.

The HELLA **LED worklights** of the Genius CAB are oriented towards the matrix technology used in the automotive sector. The worklights in this case are split into several reflectors. Every segment is dimmed down or up depending on the position of the blade. This means the light beam can be precisely controlled non-mechanically and optimum light distribution achieved in the work area. Furthermore, the integrated HELLA **ZEROGLARE** technology produces a sharp cut-off line which prevents the driver from being dazzled by reflections at the machine or by other persons. In addition, the worklights are integrated directly into the cab structure. The benefits: the headlamps are more effectively protected, do not obstruct the view of the driver, can be mounted more easily and the heat of the LEDs is removed more effectively.

The **SignaturLight** lends the Genius CAB an impressive and striking appearance thus emphasizing the brand identity of the vehicle manufacturer. It consists of flexible LED



light strips encased in an impact-resistant silicon element and signature modules integrated into the ROPS (roll-over protection) structure.

The system integration also plays an important role in the **interior lighting**. In addition to the ambient lighting and reading light functions, displays for the access control and visual checkback signals from the ultrasonic sensors have been integrated.

The **radio remote control** was specifically developed for use in harsh conditions. The radio receiver has up to four output signals, enabling the user to activate other functions, such as worklights or other lamps, via radio remote control. Additionally, the illuminated door handle indicates whether the doors are locked or unlocked. The Hella transponder is a further innovation that operates in tandem with the SAVVY® cloud-based Access and Identity Management to allow user profiles to be configured in different ways, thus achieving a higher degree of fleet management flexibility.

The robust **electronic accelerator pedal** is convincing due to the wear-free measuring principle of the Hella CIPOS sensor and exceptionally low mechanical wear, especially with frequently recurring small movements.

A special **rain/light sensor** developed by Hella for steep windshields is also used. This can recognize a variety of rain situations and controls the windshield wipers in such a way that the driver hardly ever needs to intervene. The light sensor controls when the low beam is switched on or off under different light conditions.

To make sure that visitors to the bauma can see the various innovations of the Genius CAB in detail for themselves, an app called "Genius CAB Walk & Win" has been specially developed for Android und Apple that directs them as and when required to the relevant trade show stands of the individual cluster partners. More information on the CAB Concept Cluster and the cluster partners is available on the Internet under [www.cabconceptcluster.com](http://www.cabconceptcluster.com).

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