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## ŠKODA AUTO tests video mapping: Augmented reality helps when loading pallets in Logistics

- › **Augmented reality projections support Logistics when packing MKD (Medium Knocked Down) kits for export markets**
- › **Laser projections indicate correct position for a part on the pallet; text, images and videos explain individual work processes**
- › **Innovative light guiding system helps to prevent errors and increases workplace safety**
- › **ŠKODA AUTO is testing further Industry 4.0 technologies**

**Mladá Boleslav, 15 March 2019 – Augmented reality technology is supporting Logistics staff in the CKD Centre at ŠKODA AUTO's Mladá Boleslav plant. As part of a large-scale trial, video mapping projections assist staff when loading sets of MKD components onto pallets ready for export. Laser projections indicate the correct position for a part on the pallet. In addition, text, images and videos provide information on how to optimally secure and protect the components. The system notices when a part has been placed incorrectly and helps workers to correct this.**

The term 'video mapping' refers to a method that allows images to be projected onto a surface accurately and without any distortion. This technology is also being used in the CKD Centre at ŠKODA AUTO's headquarters as part of a pilot project, displaying information on a particular component, carrier or on the Centre's hall floor.

Michael Oeljeklaus, ŠKODA AUTO Board Member for Production and Logistics, explained, "Video mapping technology opens up totally new opportunities for us in Logistics. Our employees are supported by this Industry 4.0 technology when preparing for the dispatch of our component kits for certain export markets. In this way, augmented reality minimises the error rate when loading MKD kits onto large export pallets and additionally increases safety in the working environment."

The video mapping system consists of an ultra-high-resolution laser projector and an HD camera. It is the first augmented reality system at ŠKODA AUTO not to require the employees to wear 3D goggles. At present, the technology is comprehensively tested and further developed accordingly. One challenge is to adjust the cameras to intensity of the lighting in the hall, so that the devices can also reliably capture their surroundings in these conditions.

First during the loading process, a set of MKD components is transported to the loading area on a wheeled carrier, where a large pallet, a 'rack', awaits. As soon as an employee scans the component's serial number, a laser projectors point to the exact location on the pallet where this component is to be placed. Additional assistance is provided by images and text projected onto the hall floor, explaining how the parts are to be secured and protected. The system recognises if the wrong part has been scanned and loaded, and provides a corresponding notification in such an event.

The use of augmented reality also helps in other areas: as there is no longer any need to print documents in this process, the CKD Centre is saving a large amount of paper, thus realising objectives of ŠKODA's 'Green Future' Strategy, aimed at sustainability and protecting the environment.



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Being cornerstones of ŠKODA AUTO's 2025 Strategy, digitalisation and Industry 4.0 solutions affect all business areas, ranging from logistics to vehicle development as well as training and CPD, by using modern virtual reality and 3D technology. Entering the era of electromobility is another key pillar of ŠKODA's 2025 Strategy. The Czech car manufacturer will launch the SUPERB featuring plug-in-hybrid drive as well as an all-electric variant of the CITIGO this year.

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## Media images and video:



### ŠKODA AUTO tests video mapping: Augmented reality helps when loading pallets in Logistics

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Source: ŠKODA AUTO



### ŠKODA AUTO tests video mapping: Augmented reality helps when loading pallets in Logistics

The system helps staff in real time, automatically analyses the loading process and suggests possibilities for further improvement.

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Source: ŠKODA AUTO



### VIDEO: ŠKODA AUTO tests video mapping – Augmented reality helps when loading pallets in Logistics

In the CKD Centre at ŠKODA AUTO's Mladá Boleslav plant, augmented reality technology is supporting staff from Logistics. As part of a large-scale trial, video mapping projections assist staff when loading sets of Medium Knocked Down components onto pallets ready for export. Laser projectors indicate the correct position for a part on the pallet.

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Source: ŠKODA AUTO

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## ŠKODA AUTO

- › was founded during the pioneering days of the automobile in 1895, making it one of the longest-established car companies in the world.
- › currently offers its customers nine passenger-car series: the CITIGO, FABIA, RAPID, SCALA, OCTAVIA, KAROQ, KODIAQ, as well as the KAMIQ and the SUPERB.
- › delivered more than 1.25 million vehicles to customers around the world in 2018.
- › has been part of Volkswagen Group since 1991. Volkswagen Group is one of the most successful vehicle manufacturers in the world. In association with the Group, ŠKODA AUTO independently develops and manufactures vehicles, as well as components such as engines and transmissions.
- › operates at three locations in the Czech Republic; manufactures in China, Russia, Slovakia, Algeria and India mainly through Group partnerships, as well as in Ukraine and Kazakhstan with local partners.
- › employs over 35,000 people globally and is active in more than 100 markets.
- › is pressing ahead with the transformation from a traditional car manufacturer to the 'Simply Clever company for the best mobility solutions' as part of the ŠKODA 2025 Strategy.

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