

# MMD series from ADS-TEC successfully in use at KS Control



Industrial IT

The award-winning stainless steel HMI devices support added value and sustainability in the beverage industry. With decisive added value, the high-quality hygiene devices from ADS-TEC are used in the new inspection machines from KS Control GmbH to inspect glass and PET bottles in the beverage industry particularly effectively.

## About KS Control

KS Control is one of the leading specialists in the field of control and automation technology, also for bottling plants of beverage producers and breweries. Based on many years of experience, the company, headquartered in Mintraching near Regensburg in Bavaria, develops highly efficient automated solutions for the inspection of glass and PET bottles for the beer and beverage industry before filling and after labelling. The inspection systems essentially consist of inspection machines with a complex camera system including customised software and operating terminal. The systems are customised down to the last detail to meet the needs of bottling plants.

## Initial situation

In the sensitive area of the beverage industry, a thorough quality check must be carried out as soon as the bottles arrive. For bottles from recycling in particular, it must be ensured that only completely clean and undamaged bottles, including intact threads, swing tops and seals, are released for the filling process. Beverage producers are increasingly recognising that this fully automated inspection has great potential for the entire value chain, because the more faulty bottles are sorted out right at the start, the higher the quality at the end and the more cost-effective and environmentally friendly the entire production process.



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## Implementation at the customer's premises

In the machine, all details of the bottles are recorded with the help of patented camera technology from KS Control and shown directly on a display from ADS-TEC Industrial IT. Like all hygiene devices from ADS-TEC Industrial IT, the 'Machine Mounted Displays' of the MMD series with their fully enclosed stainless steel housing are specially optimised for production environments in the hygiene sector and - thanks to state-of-the-art technology - enable reliable monitoring and control of the inspection.

KS Control has completely replaced fixed 4:3 panels and simple touchscreen devices from other manufacturers, which, due to their limited capabilities, required a great deal of effort to operate and were therefore relatively expensive.

In 2016, we had the opportunity to present our solutions with their high-quality design, sophisticated additional features and excellent price-performance ratio. As a specialist for industrial IT systems, ADS-TEC Industrial IT offers an extensive product portfolio consisting of panel PCs & monitors, terminals and built-in industrial PCs, from which KS Control opted for the MMD8024 model.

Samuel Krompasky from KS Control's Camera and Inspection Systems Development department states:

**'Thanks to the ADS-TEC solution, we can convey the perfect appearance as a measure of quality to our customers right from the intuitive initial operation.'**

During the evaluation phase from 2016 to 2018, the KS inspection solution was fully customised to the MMD series. As stand-alone operating devices with intelligently integrated cable routing, they are easy to integrate into existing systems. The display can be extended up to 100 metres using an extender kit. This flexible concept allows several machines to be operated simultaneously.

## Special features of the MMD series

The sophisticated operating concept, the high performance and the award-winning hygienic design bring many added values to the application:

Equipped with IP65 protection against splash water, with a smooth and robust stainless steel surface that is manufactured completely without screws, as well as a patented connection between the housing and display, the appliances are particularly easy to clean. In addition to fulfilling hygiene requirements, this saves a lot of time and is more environmentally friendly overall, as less cleaning products are required.

The extremely useful push-button operating concept has proven to be a unique selling point. An optional separate button module - also in a smooth stainless-steel housing - with individually assignable functions such as 'start', 'stop', 'container inlet', 'error acknowledgement' or 'emergency stop' allows the user to intervene immediately and directly without having to click through a menu. In practice, it has been shown that many medium-sized filling companies particularly appreciate this ease of use. The emergency stop button, which is always ready to hand, helps to prevent major damage in milliseconds.



The increase in image resolution, performance and the implementation of new applications on the device result in higher quality and a faster process. The screen size alone in 24" widescreen format is exceptional and generous for operating devices in the hygiene sector. Bottle images are displayed with several settings in the overview. Coupled with the extremely precise detailed view and the high performance for fast data transfer, more camera images can be analysed in significantly less time. This increases the hit rate and leads to a quick and surprisingly good result.

These sophisticated inspection solutions have already been in reliable use at various beverage manufacturers since 2016. KS Control would also like to use operating devices from ADS-TEC Industrial IT in other projects, for example for labellers. Even large dairy companies are now planning to switch their production to glass bottles and install these inspection systems. This shows that the manufacturing industry is increasingly investing in sustainability issues as well as simply increasing efficiency.

Jana Wörner-Zielke, Key Account Manager at ADS-TEC Industrial IT, summarises: **„The new machine concept has generated potential savings and increased the quality and reliability of production. Instead of disposable containers, more bottles are being used again, which can be recycled. Together with KS Control, we are supporting the transformation process towards sustainability through innovation and resource savings“** - a contemporary approach against the backdrop of current discussions about climate and environmental protection.

