

## Improved safety on the construction site

Automation solution for mobile machines  
from a single source



**Our customer:**  
**A producer of safety solutions**

When using mobile machines, ambient conditions vary, and also include the possibility of people being in the immediate vicinity. Lifting loads or swivelling a machine part is therefore always associated with danger.

An English company develops innovative safety solutions for mobile machines used, in construction, mining and transport to ensure safety in these applications. Their systems calculate the load bearing capacity and working height that is safely executable. In case of danger, they intervene in the control of the mobile machine. The company is one of the global market leaders for safety solutions used by the construction industry in the field of height and slewing control as well as stability monitoring.

## CASE STUDY | MOBILE MACHINES

### The challenge:

When operating heavy mobile machines, operators must comply with all current safety regulations to ensure safe operation. This is also highly important for liability reasons. As safety regulations change on a regular basis, it is particularly important that the safety systems are flexible so that they can be adapted to the requirements at any time. All components in the systems, e.g. sensors, controls or user interface displays, must be suitable for the difficult environmental conditions in which mobile machines are used.



High or low temperatures, dirt, moisture and vibrations must not impair the function of the components. In addition, the display and control units must meet the high requirements associated with the operation of a mobile machine. The company was looking for a supplier offering high-quality and durable products in accordance with the requirements, but who at the same time also had extensive know-how in this field.

### The solution – why ifm?

The company conducted an extensive field test over twelve months, in order to find an appropriate hardware partner for newly planned systems. They chose ifm because the products were convincing due to their reliability, performance and flexibility. Another criterion was the technical service ifm could offer. The vast product range enables the company to equip their entire systems with sensors and mobile controls from a single source. With ifm's basic series and CR safety controllers for mobile machines, the systems are quick, easy and flexible to install and operate.

Moreover, the controls enable easy adaptation of the safety guidelines. Using high-quality products means that the systems have comprehensive certifications which meet all the requirements of the current safety regulations. As the components from ifm work with standard interfaces and protocols, the customer can flexibly adapt the architecture of systems. The use of components from other manufacturers is also possible without any problems. For the end customers, the systems enable a safe and reliable operation of their mobile machines in accordance with the currently applicable regulations.

### Results:

- Innovative safety solutions for mobile machines
- Fast and easy installation
- High user-friendliness
- Open interfaces to allow a flexible adaptation of systems



**Robust, reliable products**



**Quick and easy set-up**



**Flexible systems  
for any application**



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