

Examples of use

MOBILE DATA COLLECTION

Mobile Terminals

RFID monitoring of crane assemblies during rental

Task / problem

When renting machines and devices consisting of multiple components, mobile data collection can provide support, particularly in two areas. At the start of each lease, all of the necessary parts must be fully and accurately recorded and picked. At the same time, the parts must be checked in terms of completeness and switches in addition to wear and damage when returned. As cranes are usually put together directly on the construction site using many assemblies, high costs are incurred during assembly if the ordered assemblies are delivered incompletely or incorrectly.

During each return, it must also be ensured that the assemblies are complete and that no switches have taken place on the construction site, e.g. with older or more worn parts.

Procedure

In order to implement an efficient solution, all assemblies were equipped with RFID tags during production at the customer's premises. This can also be carried out retrospectively on request. The tags are stored in a protected manner in steel chambers which are sealed with a plastic cover and welded to the assembly. Thanks to the attached RFID tags, the assemblies are clearly identifiable and it is almost impossible for switches to occur. M260 mobile terminals with LF-RFID are used in order to implement the picking / return of the crane parts. The mobile RFID readers are particularly suitable for tough, industrial applications and communicate in the 125 kHz range.

Result

The first devices are currently being used at a location in Switzerland. Following completion of this test phase, further locations will be equipped in Europe, Canada and Saudi Arabia.

