
Certified magnet system maintenance

High availability & reliability through proper, periodic maintenance

The magnet systems are designed to need minimal maintenance and have an impressively long service life. However, periodic and proper maintenance of all components is an important prerequisite to keep the systems running smoothly, reliably and safely. In some cases, maintenance tasks are not properly carried out. This can be for a number of reasons, including:

- Lack of basic know-how
- Lack of specific knowledge of magnet systems
- Lack of resources
- Lack of management commitment
- Constantly changing maintenance providers



Figure 1: Poorly maintained and repaired power supply cable

Getting a specialist involved

As magnet system manufacturers of many years standing, we would be delighted to offer you maintenance services provided by our team of specialists. TRUNINGER will ensure that all maintenance jobs are properly carried out, thus guaranteeing fault-free, reliable operation.

Our maintenance services incorporate all the benefits of our expertise in magnet system construction. All TRUNINGER engineers, or the specialists contracted by us, have the skills to carry out and document the work in a proper and efficient manner. When the maintenance jobs have been completed, they also carry out comprehensive tests to check that the system is working properly, reliably and safely.



Figure 2: The magnet control system being checked by a specialist

The maintenance tasks are supported by a standardised checklist, on which the technicians record the work carried out. The test log also contains a list of any defects with a recommendation for appropriate repair.

The key maintenance and inspection items are:

- Inspection and maintenance of the spreader beam and of the magnet suspensions
- Checking and testing the magnets
- Checking, testing and maintaining the plug connection(s), cable(s) and cable reeler(s)
- Checking and testing the magnet controller
- Inspection and maintenance of the back-up battery
- Testing and adjusting the battery charger settings
- General lubrication
- Performing comprehensive functional tests
- Issuing an inspection and fault / defect report per system

The maintenance work is completed with a comprehensive test to check that the system is running properly together with a system safety test to state-of-the-art specifications. The focus here is on the following:

- A general check that all parts of the system are working properly
- Safety functions
- Testing the switchover to back-up power supply in the event of a mains failure
- Checking signal interfaces between magnet system and crane
- Saving the system configuration (system tracking)
- Saving the EventLog
- Review of the User Guide and technical manuals

Upon completion of this inspection, i.e. when all outstanding issues have been resolved and checked off, TRUNINGER issues a test certificate. The issuing of this maintenance certificate confirms that the magnet system is in full working condition and is safe to use.