

LiSIM®

Liebherr Simulator for Crawler Cranes and Foundation Equipment



LIEBHERR

LiSIM® - Liebherr Simulator for Crawler Cranes and Foundation Equipment

LiSIM® increases both productivity and safety by providing a cost-effective and highly efficient operator training solution. The development of this sophisticated training tool was prompted by Liebherr's extensive experience in crane operator training. Based on the original Litronic® control system, LiSIM® is the only realistic virtual solution available on the market for learning to handle the precise and innovative control of Liebherr crawler cranes and foundation equipment.

Safety first

Thanks to the virtual environment, damage to the equipment and the surrounding environment is completely eliminated. As simulator-based training is relatively inexpensive, trainees can spend more time in the virtual environment, learning instinctively how to react appropriately to unexpected situations and so improving the overall safety on the construction site.

Cost-effectiveness

Simulator training avoids costly downtime and reductions in productivity caused by training on the real equipment. The emission and fuel-free LiSIM® training solution is also in line with an environmental friendly operation. Furthermore, this advanced training method has the potential to significantly reduce costly accidents.

Wide variety of functions

For LiSIM®, Liebherr's LB 28 rotary drilling rig and the LR 1300 crawler crane have been modelled. A wide variety of different functions is essential for the simulation of everyday and extraordinary situations machine operators face in the real world of construction site operations. Features include:

- All functions of Liebherr drilling rigs and crawler cranes
- Interaction with objects at construction site
- Different construction site conditions
- Crawler cranes: different loads
- Drilling rigs: different drilling tools
- Safety functions
- Challenging exercises for continuous training progress
- Possibility to enter error indications
- Database to monitor trainees' performance
- Language packages

Original software and hardware

Running on an advanced industrial computer system, the original Litronic® control system precisely calculates all machine movements both in 3D and in real-time. Moreover, the ergonomically designed cockpit together with the real hardware installed guarantee a realistic and unique training experience. The motion platform accurately simulates the response and feel of a machine-mounted operator's seat. Full HD flat screens and surround sound speakers reproduce views and sounds of a typical construction site environment. Each simulator is equipped with a multifunctional instructor station offering complete control over the simulation.

Solutions

LiSIM® is available in three different configurations to meet specific customer requirements:

Classroom solution

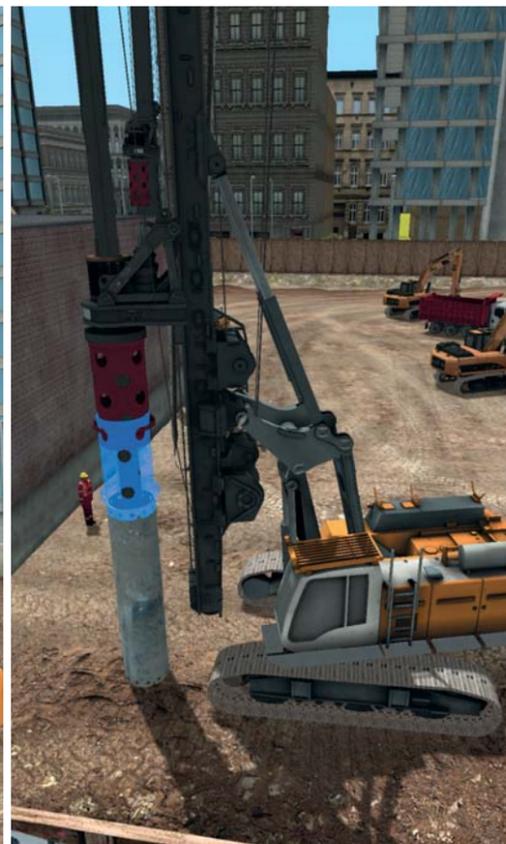
Designed to be easily integrated into existing training centres, as display, seat and controls are mounted on a base plate and a solid display frame. The display system provides upper, front, lower and side cabin views. CPUs and instructor station are installed in a compact black box.

Cab-enclosed solution

Installed in an original Liebherr cabin, this space-saving solution ensures that the operator becomes familiar with controlling the machine in a real-life environment. It includes an external black box equally equipped with the multifunctional instructor station.

Containerised solution

Housed in a fully furnished 40ft container, this easy-to-transport simulator solution features an integrated training room, a utility room and an associated instructor station. The container is fitted with a heating and air-conditioning unit as well as appropriate lighting.



Advanced operator training on crawler cranes and foundation equipment

Simulators are globally recognized as a highly effective training method offering numerous advantages. Approved by Liebherr experts, LiSIM® ensures that the training is completed with utmost efficiency and at the highest safety level while costs and required time are kept at a minimum.

Increased safety

Non-destructive virtual construction site environment

Reduced costs

No expensive downtimes - no wear and tear

Higher productivity

Highly skilled operators for maximum productivity

Realistic simulation

Original software and hardware installed

