LiSIM®

LHM 550 – Liebherr Mobile Harbour Crane Simulator

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LiSIM® LHM 550 increases port safety and productivity by providing a cost-effective and highly efficient crane 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® crane control system, LiSIM® is the only realistic virtual solution available on the market for learning to handle the precise and innovative control of Liebherr Mobile Harbour Cranes.

Safety first
Thanks to the virtual port environment, potential safety risks like damaging vessels, port equipment or port personnel are 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 in ports.

Cost-effectiveness
Conventional on-crane training interferes with day-to-day port operation, causes expensive downtimes, requires fuel and produces wear and tear. The eco-friendly simulator training helps to minimize such cost drivers. Furthermore, this advanced training method has the potential to significantly reduce costly accidents.

Wide variety of functions

A wide range of different functions is essential for the simulation of everyday and extraordinary situations crane operators face in the real world of port operations. Thanks to the flexible adjustment of the virtual environment, users can run through any cargo handling situation, anytime they want to. Features include:

- All functions of Liebherr Mobile Harbour Cranes
- Modifiable port environment including weather and waves
- Various load types and landing areas
- Main vessel types
- 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 LHM Litronic® crane control system precisely calculates all crane movements both in 3D and in real-time. Moreover, the ergonomically designed LHM 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 crane-mounted operator's seat. Full HD flat screens and surround sound speakers reproduce views and sounds of a typical port environment. Each simulator is equipped with a multifunctional instructor station offering complete control over the simulation.

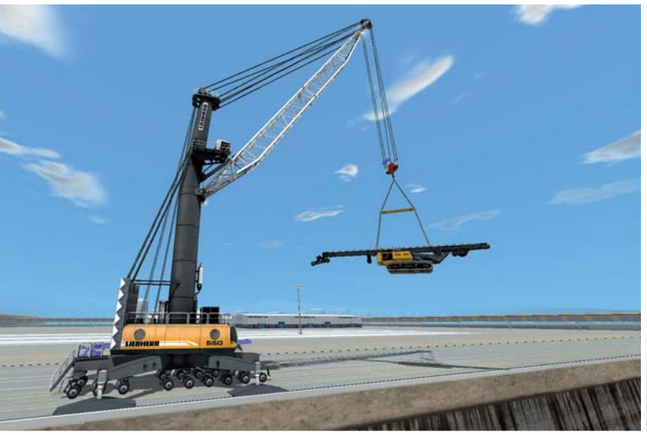
Solutions

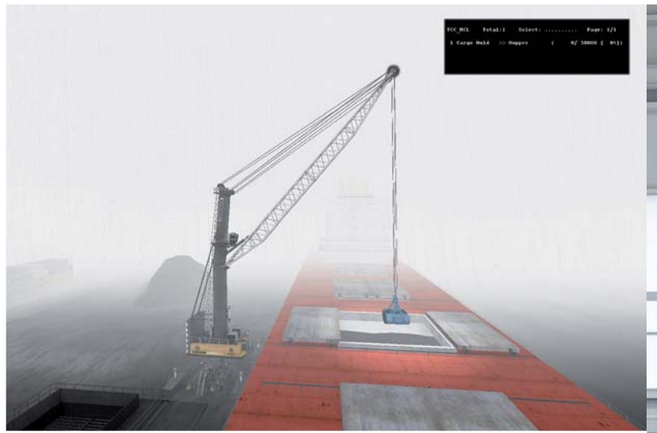
LiSIM® LHM 550 is available in three different configurations to meet specific customer requirements.

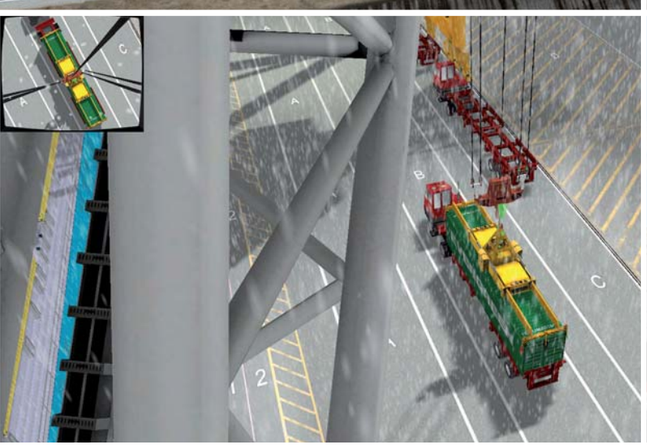
Classroom solution:
Designed to be easily integrated into existing training centres, as display, seat and controls are mounted on a base plate and a solid display frame. The display system provides upper, front, lower and side cabin views. CPUs and instructor station are installed in a compact black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

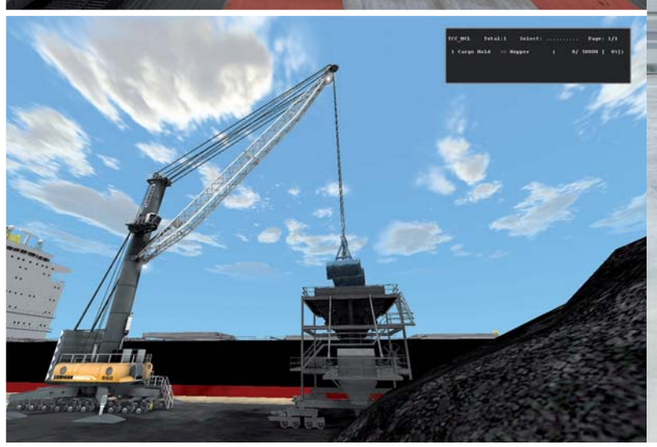
Cab-enclosed solution:
Installed in an original LHM cabin, this space-saving solution ensures that the operator becomes familiar with controlling the crane in a real-life environment. It includes an external black box equally equipped with the multifunctional instructor station.

Containerised solution:
Housed in a fully furnished 40 ft 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.



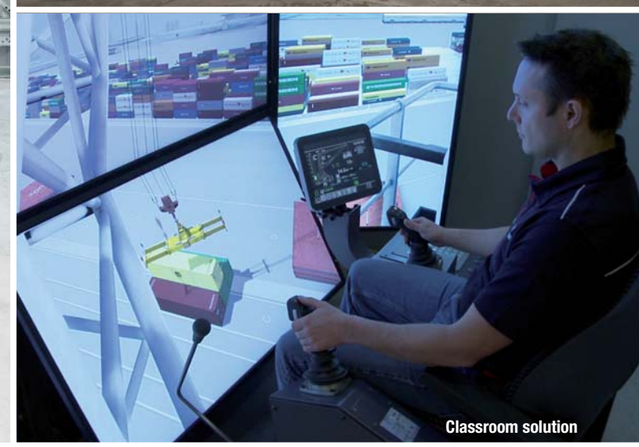






Cab-enclosed solution

Containerised solution


Classroom solution

Advanced crane operator training

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 port environment

Reduced costs

No expensive downtimes - no wear and tear

Higher turnover

Highly skilled operators for maximum productivity

Realistic simulation

Original software and hardware installed

mobile.harbour.crane@liebherr.com
facebook.com/LiebherrMaritime
www.lisim.liebherr.com

Watch the LiSIM® video