LiSIM® – Liebherr simulations

Comprehensive training solutions for crane operators

www.liebherr.com

LIEBHERR

Maritime cranes

The new LiSIM simulator

The new LiSIM simulator enables an unprecedented simulation of crane operation. Thanks to the complete integration of the original crane control hardware via a CAN BUS client, all sensors on the real machine can be integrated and simulated. This level of integration is unique in the market and provides a training experience that closely resembles reality. By using the high-quality physics simulation “Algoryx” and a graphical display in 4K resolution, a very realistic behaviour can be imitated.

The use of VR glasses enables complete immersion in the virtual port environment and creates a detailed representation of the crane driver’s cabin in three-dimensional space.

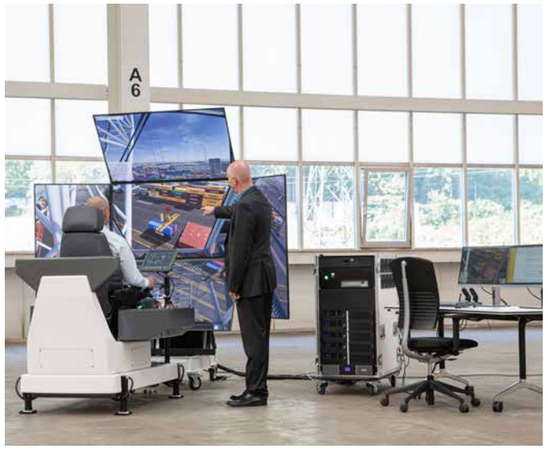
Features
- Integration of the original control hardware via CAN BUS client
- High-quality “Algoryx” physics simulation
- VR glasses for a realistic depth effect
- Detailed representation of the crane operator’s cabin and the harbour environment
- Scalable hardware solutions according to customer requirements
- Display system with up to 5 screens with 4K resolution
- VR headset with inside-out tracking
- Compact hardware design for easy transport

Advantages of simulator training

Safety
- Lower risk of accident through training
- Training of appropriate action in case of an emergency
- Training of extreme situations without any actual danger

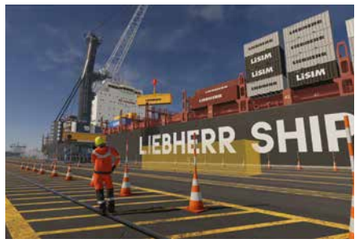
Productivity and efficiency
- Comprehensive training programme
- Training ranges from learning the basics up to increasing productivity
- Time and cost savings

Economic benefits
- No wear and tear on the machine, which remains productive during training
- Less downtime and reduced repair costs
- Long-term benefit through optimally trained operators
- Reduction of the carbon footprint



Simulating all aspects of your job

Wide-ranging functionality is essential for the simulation of daily routines and extraordinary situations that machine operators face in the real world of maritime cranes. Due to the flexibility of the virtual environment, users can run through any load handling situation and simulate harsh environmental conditions when required.



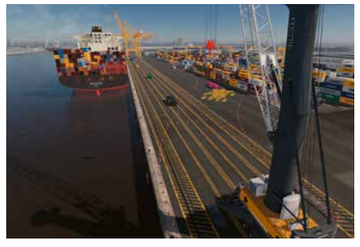
Container handling

Performance test

Lifting loads through narrow parcours

Luffing gear training

Different weather and lighting conditions



Travelling through a defined training course

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