



CONSTRUCTION

VORTEX

Tower crane training module

vortex.mimbus.com

The tower crane training module is an extremely realistic simulator to practice safe lifting and productivity optimization.

Several companies already placed their trust in VORTEX: Liebherr, Manitowoc, Mammoet, John Deere, BP, Haliburton and many more chose the most realistic simulator on the market. The movement, the cables' and slings' oscillations, the boom's bending. Everything is there, with the extra presence of pedagogy.



BENEFITS

- ✓ *Reproduce realistic working conditions*
- ⌚ *Save time on your initial training and evaluations*
- ⌚ *Rapidly improve your trainees' real competencies*
- 🏠 *Place your trainees in a secured environment for training*
- 💰 *Reduce costs related to equipment wear, consumption and damage*



STEP BY STEP LEARNING



The tower crane training module offers a learning path from beginner to expert level, to teach competencies through practice and to strengthen the trainees' self-confidence.

Trainees are absorbed in a reality-like environment, where exercise conditions are adjustable in real-time by the instructor, thus influencing the trainees' performances.

RESULTS' FOLLOW-UP FOR EACH CLASS AND TRAINEE

The system informs the instructor about:

- ✓ Time and objectives completion
- ✓ Number of wings and duration
- ✓ Number of crashes (minor, major, critical)
- ✓ The shocks' strength during crashes and on the hook while lifting
- ✓ The optimal path with the loads
- ✓ The precision skills during maneuvers, including adverse circumstances

TECHNICAL CARD

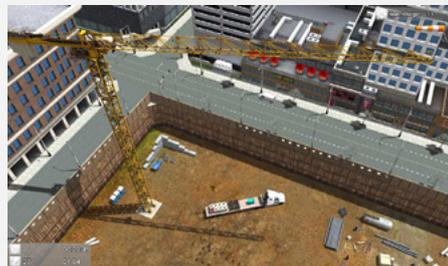
HARDWARE	
Controls	Joysticks
Multi-trade driving position	2m ² (21.5 ft ²) floor space
Main display	Screen: 1x46 " or 1x65"(curved) or 3x46"
Secondary display	21" touch screen
SOFTWARE	
Simulated machine	Tower crane, 12 tons
Engine power	119 KW (160 HP)
Boom's length Different working heights	50 m (164 ft) boom. All exercises are available at a height of 43, 50, 55, 60, 65 et 70 m (141, 164, 180, 197, 213 and 230 ft)
Hauling	2 or 4 wires, with the according capacity of lifting loads
Available languages	French, English, Spanish ...
Specific functions	Replay, to re-watch a performed action. Real-time weather conditions adjustments. Integrated tutorial.
Recommended option	Instructor station, to analyze results in detail. Flagman station, to allow slingers and crane operators to work in team.

THE PEDAGOGICAL AIMS

The whole learning develops around 4 main pedagogical axes: controls familiarization, LMI set-up and alarm, tower crane handling and work scenarios management.

Through different modules and exercises, practice how to:

- ✓ Use the main tower crane controls
- ✓ Master the balances when empty or loaded
- ✓ Understand the tower crane LMI's set-up and alarms
- ✓ Unload a truck and place the products in the intended places
- ✓ Carry out different exercises' scenarios on a building (placing some objects, pouring concrete, install panels or beams...)
- ✓ Load the hauling and work at different heights
- ✓ Adopt a safe, precise, efficient work practice through continuous repetitive tasks
- ✓ Work on long or voluminous loads
- ✓ Perform the job with harsh weather conditions
- ✓ Master the movements' precision



Your trainees will learn in a completely safe way thanks to high-fidelity simulation, adjustable in real-time and allowing to store all the results.

Practiced with different weather conditions (wind, storm, rain, fog...), these modules and exercises only have one objective: mastering the machine.

Non contractual pictures

Developed by



Distributed by



MIMBUS HEAD OFFICE
BAT III, 1 ROND-POINT DE FLOTIS
31240 SAINT-JEAN, FRANCE

TEL. +33 (0)5 61 70 71 71
EMAIL : info@mimbus.com
www.mimbus.com

US BRANCH
100 S STATE ST.
60603 CHICAGO IL