

# Reach-Stacker Crane Simulator

As in the case of the straddle carrier, Reach-Stacker crane operates in the container terminal. Its main task is to stack containers and to load them into trucks, tractors or trains. It is a road vehicle, with a high tonnage capacity.

## Equipment:

- Cabin atop a 6DOF platform
- Real operation console
- Real steering wheel
- Driving pedals
- Instructor's console with full control over the simulation
- Digital sound effects from the real environment
- Projection system with three high resolution screens

## Main functions:

- Real startup and stop sequence
- Loading into and discharging from trailer
- Work with TEU and FEU containers
- Container movement along the terminal
- Traffic in the terminal
- Full mobility of the spreader
- Automatic gearbox
- Response of the machinery to the load
- On screen information for user and instructor
- Information window with the state and position of the machinery and operation commands

## Special conditions:

- Weather conditions: wind, rain, fog,...
- Work with artificial light
- Realistic response to collisions
- Work with unbalanced containers



## Reports at the instructor's console:

- Date
- Starting and ending time
- Time length
- Finished exercises
- Tonnage loaded/discharged log
- Velocity log
- Collision log
- Dangerous maneuvers log

## Visualization system

- High quality images, generated in real time
- 3D graphics
- Picture textures from the real harbor

