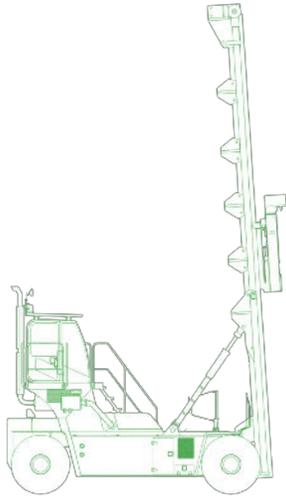


Empty Container Handler Simulator Training Pack



Overview /

Designed to run on any Vortex port equipment simulator, CM Labs' Empty Container Handler (ECH) Simulator Training Pack allows trainees to rapidly acquire operational skills in a pressure-free, safe learning environment.

Simulated equipment specs /

Mast height: 10.1 m (33 feet)
Load capacity: 9 tonnes (9.92 US tons)
Max speed: 27 km/h (16.8 mph)

Key features & benefits /

CM Labs' ECH Simulator Training Pack makes training available 24/7 and in all weather. Developed to run in a classroom setting in compliance with sanitizing and physical distancing requirements, it is designed to provide rapid operator readiness for operating challenges, including night-time operations and reduced visibility due to weather conditions such as fog, rain, or snow.

A progressive learning program

covering driving exercises and yard operations with ITVs and external trucks.

Performance metrics and reporting

that provide trainers with real-time feedback on operator aptitudes and habits, along with overall scoring.

Best-of-class lifting simulation

that ensures trainees understand how the equipment works and what is required for efficient operations.



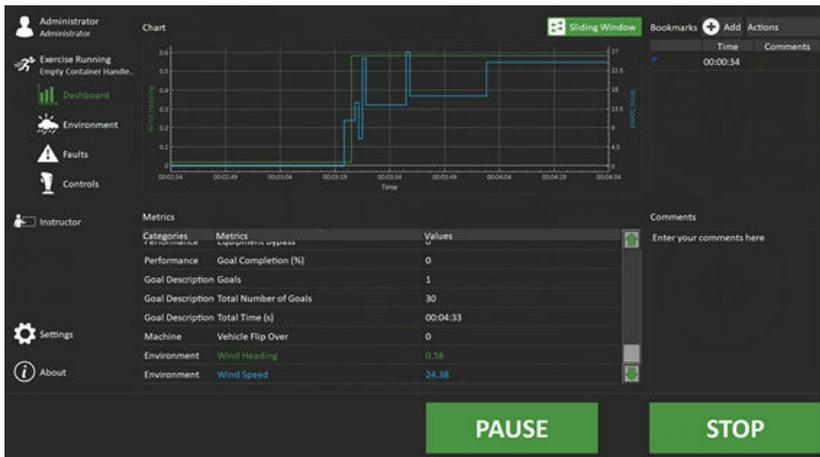
Smart Training Technology /

The ECH Simulator Training Pack incorporates CM Labs' Smart Training Technology™— resulting in a training solution that delivers the most transferable operator skills anywhere, outside the real equipment. It is the only solution on the market that can tip when the simulated equipment brakes or corners too fast, and that reacts realistically when loads are distributed unevenly.

Smart Training Technology is comprised of CM Labs' proprietary and patented algorithms, and includes real-time simulation features that are unique on the market. This means training is based on real data and real machines, and new operators reach full productivity levels up to 33% faster, according to our clients.

With a focus that goes far beyond basic controls familiarisation, the ECH Simulator Training Pack exposes operators to conditions that are challenging or unsafe to replicate outside the classroom.

The training pack allows trainers to introduce specific challenges at any time, including terminal congestion, overload conditions, twistlock malfunctions and container snags, and other issues that challenge a trainee's ability to react appropriately.



Supported Simulator Hardware Platforms

The ECH Simulator Training Pack can be installed on any Vortex port equipment simulator hardware, with different configurations to meet your budget, space, and training requirements. Designed for years of 24/7 operator training, Vortex simulators are built to last.

Vortex Trainer: Portable desktop training

Vortex Advantage: Compact training station

Vortex Master: Complete trainee immersion

Progressive learning program

Designed in collaboration with port operator trainers, all exercises are designed to familiarize operators with basic control functions and techniques for loading and unloading various containers in a real port setting.

Learning outcomes include:

- ✓ Becoming familiar with bays, rows, & cell identification
- ✓ Manipulate 20-, 40-, and 45-foot containers
- ✓ Driving and lifting in confined spaces
- ✓ Loading & unloading containers stacked 8 high
- ✓ Unload containers on uneven stacks
- ✓ Driving safely over uneven ground
- ✓ And more

Performance measurement

The ECH Simulator Training Pack tracks all operating performance metrics during training exercises, and rolls them up into a single score that updates in real time. Port terminals and training schools can customise this scoring system to highlight their most important standards, so that new operators can ramp up even faster. Tracked metrics include:

- ✓ Number of containers moved
- ✓ Number of collisions
- ✓ Operator errors
- ✓ ... and more

Instructors can also generate reports based on customizable scoring parameters, and review against benchmarks or past training sessions.



Megamax STS
Panamax STS
Mobile Harbour Crane
Ship Pedestal Crane

Internal Transfer Vehicle
Forklift
Rubber-tyred Gantry Crane
Straddle Carrier

Reach Stacker
Empty Container Handler
...more at
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