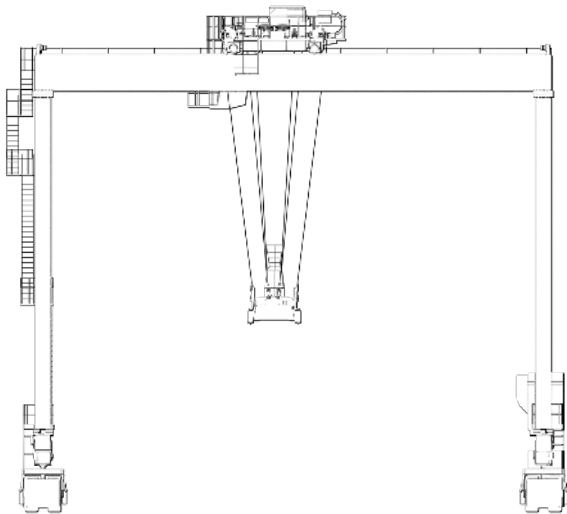# Rubber–tyred Gantry Simulator Training Pack



## Overview /

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

## Simulated equipment specs /

Wheel base width: **23 meters**
Wheel base depth: **12 meters**
Capacity: **42 tons (below the spreader)**
Container stacking height: **1 over 5**

## Key features & benefits /

CM Labs' solution for RTG training provides the most advanced training available, and is the only solution that provides exercises for working with overheight, open-top, breakbulk, and liquid containers, as well as standard 20-, 40-, and 45-foot containers. Trainees can lock onto containers with twistlocks, and can also manage chain lifts and an overheight frame.
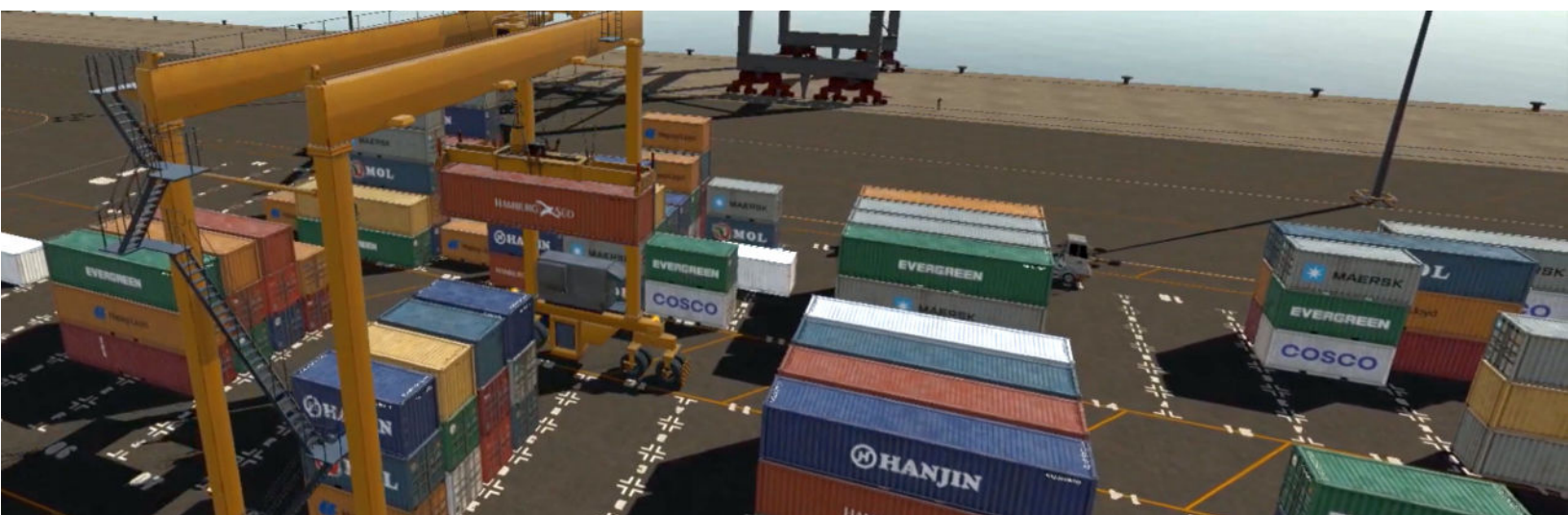
**A progressive learning program** covering driving exercises and yard operations with ITVs and intermodal trailers.

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

**Best-of-class simulation** that ensures trainees understand how the equipment works and what is required for efficient operations.
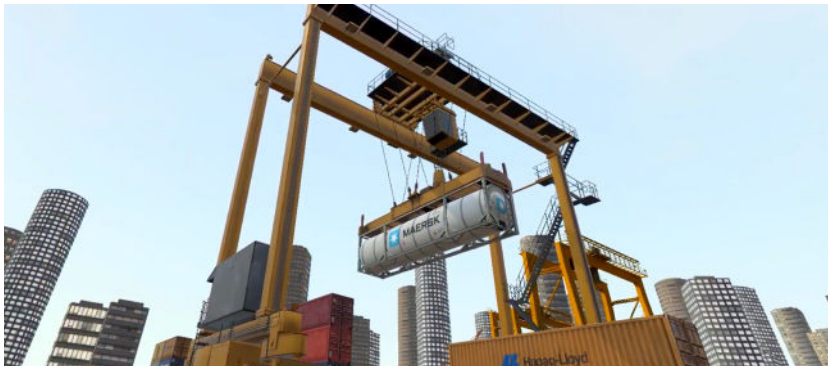
# Smart Training Technology /

The RTG 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 accurately represents twistlock behaviour and provides operators with the realistic experience of locking the spreader onto the container.

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 RTG 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, unbalanced loads, twistlock malfunctions, spreader snags, and other issues that challenge a trainee's ability to react appropriately.



## Supported Simulator Hardware Platforms

The RTG 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: Entry-level desktop training**

**Vortex Advantage: Motion-enabled training station**

**Vortex Master: High-immersion training**

## 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:

- ✓ Basic Controls
- ✓ Familiarity with gantry movement
- ✓ Spreader operation
- ✓ Use hoist, trolley, and gantry to move containers
- ✓ Refine maneuvering skills to work in confined spaces
- ✓ Working with overheight frames
- ✓ Working with tank containers
- ✓ And more

## Performance measurement

The RTG 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.

## cmlabs

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| **Panamax STS** | **Forklift** | **Empty Container Handler** |
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