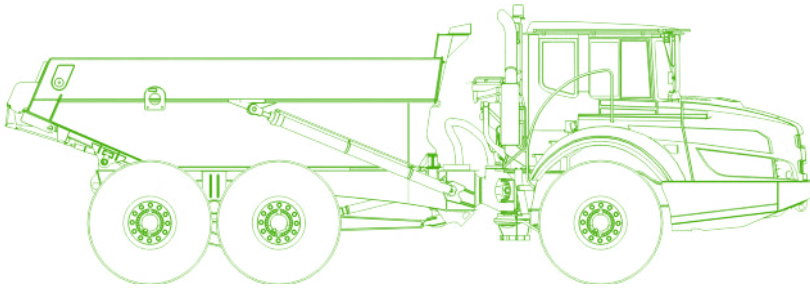


Articulated Dump Truck



Simulated equipment specs /

Product name:
Articulated Dump Truck

Specs: Automatic transmission, hydraulic braking system with engine brake, and anti-lock system

Operating capacity:
25 ton | 22.7 tonne

Engine power:
300-320 max hp

Overview /

The Articulated Dump Truck (ADT) Simulator Training Pack is the only solution that accurately replicates machine stability, providing training opportunities to reduce the likelihood of accidents due to tipping. The training works on optimal loading and improving teamwork skills.

Key features & benefits /

Part of the CM Labs' family of earthmoving machines simulation training solutions, the ADT simulator is an entry-level training pack, ideal for training schools or companies with a wide range of equipment in their fleet.

Progressive learning program

Helps build skills and confidence, including familiarization with load hauling, driving on even terrain, and team-related tasks.

Best-in-class vehicle simulation

Ensures trainees understand how the equipment works and what is required for efficient and safe operations.

Performance metrics and reporting

Provides trainers with real-time feedback on operator aptitudes, habits, and overall scoring.



Best-in-class simulation provides real learning benefits

Through CM Labs' Smart Training Technology™, our solution is the only simulator on the market that accurately replicates machine stability—providing real-world training opportunities to help reduce the risk of accidents.

Novice users gain understanding for braking strength and distance, blind spots, acceleration and smooth gear shifting, engine response under heavy loads, wheel deformation on rough ground, and rolling stability when driving. Replicated true vehicle vibration, material pilling, alarms, and other job site sounds ensure important audio cues for safe operation and task completion.

Comprised of proprietary and patented algorithms, the Smart Training Technology ensures precision engineering of the simulated equipment, delivering the most transferable operator skills anywhere, outside of the real equipment.



Supported hardware platforms

The training pack runs on CM Labs' motion-enabled **Vortex Edge Max**, the fully immersive **Vortex Advantage**, and the desktop **Vortex Edge Plus**.

Learning program

The ADT Simulator Training Pack features progressive learning exercises designed to build skill and confidence gradually.

- ✓ Basic controls & familiarization
- ✓ Driving on slope
- ✓ Loading & unloading trailer
- ✓ Hauling: side loading
- ✓ Hauling: back loading
- ✓ Excavator simulation tandem exercise

Using the optional Instructor Operating Station, trainers can trigger unexpected weather events in the exercise.

Performance measurement

The Training Pack gives trainers objective insight into trainee performance and abilities. Instructors can access key performance metrics in real time, such as:

- ✓ Safety violations (including tipping, collisions, vehicle or cabin flip, electric cable contact, and unsafe parking)
- ✓ Fuel efficiency
- ✓ Time to complete
- ✓ Cycle time efficiency

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