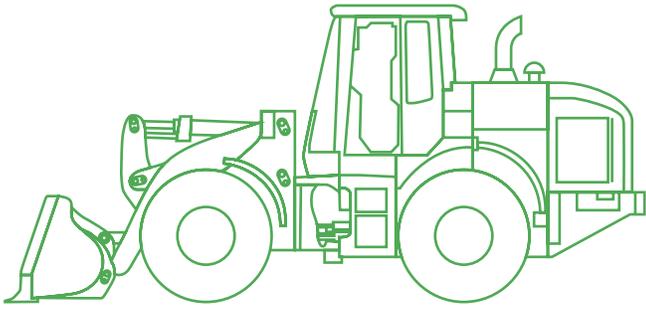


Wheel Loader Training Pack



Simulated Equipment Specs

Rated net power: 105 kW (140 HP) | **Bucket capacity:** 2.3 m³ (3.0 yd³)
Operating weight: 13,200 kg (29,101 lbs) | **Transmission:** 4-speed, all-wheel drive

Overview /

The Vortex[®] Wheel Loader Training Pack is part of the Vortex construction equipment training product suite. From earth moving and stockpile management to truck loading, operators who train with Vortex simulators develop the skills, coordination, and worksite awareness they need to master safe, efficient operations.

Key features & benefits /

With the Wheel Loader Training Pack, operators gain valuable experience in safe operations, with no wear and tear to the loader, and no risk to themselves or others. Operators build real skills faster than traditional training alone, and learning organizations save instructor time and reduce equipment costs.

A progressive learning program

covering basic operating skills ranging from maneuvering, controls handling and excavating, to working with stockpiles and truck loading.

Performance metrics and reporting

that provides students with the feedback on their operating and earth moving skills.

Best-of-class loader and earthmoving simulation

that ensures real skills development and behaves like the real machine.



Wheel loader and earth-moving simulation

The Wheel Loader Training Pack provides the most realistic simulation-based training on the market. This ensures that students can transfer their skills directly from the simulator to the real world. There is no risk of negative training as with other game-based simulators. The Vortex Wheel Loader is a composite 13-ton loader based on actual OEM machines, and includes bucket, forks, and truss boom tools.

Precise simulation of the loader's hydraulics system and transmission ensure that trainees feel like they are driving the real thing, with realistic machine feedback at all times.

Simulation of soil digging and dumping is powered by decades of research into earth-moving simulation, and hundreds of peer-reviewed academic research papers. Trainees will experience changes in hydraulic pressure, engine RPM, and terrain surface, familiarising them with equipment performance over a full range of real-life conditions.

The result is realistic simulation of soil flow, erosion, and compaction — operators will feel resistance as they “dig in,” just like in real life.



Supported Vortex Hardware Platforms

The Vortex Wheel Loader Training Pack can be installed on any Vortex simulator hardware platform, with different configurations to meet your budget, space, and training requirements. Vortex simulators are built to last, designed for years of 24/7 operator training.

Vortex Edge laptop-based instructional platform

Vortex Trainer portable single display trainer

Vortex Advantage with one, three, or five immersive displays

Learning program

The Wheel Loader Training Pack features progressive learning exercises—from beginner to advanced—designed to gradually build student skill and confidence:

- ✓ Understanding the controls and vehicle positioning
- ✓ Bucket positioning
- ✓ Earth moving and transport
- ✓ Stockpile management
- ✓ Excavation
- ✓ Truck loading
- ✓ Using the quick coupler
- ✓ Safe load handling

Performance measurement

The Wheel Loader Training Pack gives trainers objective insight into student performance and abilities. Student exercises can be recorded and played back for after-action performance review. Trainers can measure key student performance metrics such as:

- ✓ Tasks completed and time
- ✓ Collisions
- ✓ Fuel consumption, cycle time, and Idle time
- ✓ Instructor's comments

The optional student management system allows instructors to generate reports from excavator training sessions, and review current and past performance.



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