



# HEAVY EQUIPMENT TRAINING SIMULATOR

## REALISTIC & HIGH FIDELITY WORK MACHINE TRAINING SIMULATOR

Simsoft offers high fidelity training simulators for construction and underground mining. The powerful physical and mathematical modeling with the latest quality visualization provides the most realistic simulation-based training.

Tracked and Wheeled Construction Machinery Simulators

- Excavator
- Dozer
- Loader
- Backhoe Loader
- Grader
- Crane
- Forklift
- Container Carrier
- Shuttle Car
- Concrete Pump
- Concrete Mixer
- Drilling Machines



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Special training scenarios are offered in accordance with the functionality of the work machine.

## Operator Training Simulator

- Integrated Voice Command Support
- Real and Realistic Controller Equipment
- Eye-Tracking for Gaze-Based Interaction and Attention Analysis
- Customizable Measurement and Evaluation

## Software Features

- High Fidelity Vehicle Driving and Engine Dynamics
- AI-Based Behavior Analysis and Real-Time Trainee Feedback
- Adjustable Evaluation and Assessment Infrastructure
- Biometric Data Processing for Stress and Fatigue Detection
- Multi-purpose Training with Same Platform
- Multiplayer Usage with HLA Support

## Terrain Simulation

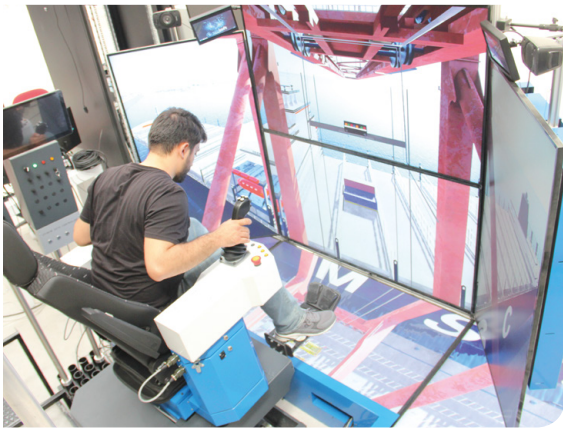
- Creating High-Resolution Land Area
- Terrain Deformation
- Particle Physics, Fluid Dynamics
- Real Map Modelling Service
- Vehicle Modelling Service

## Hardware Features

- Configurable Hardware Units
  - Real/Realistic Vehicle Cabin
  - 2DOF / 3DOF / 6DOF Motion Platform
  - Multi Channel Visualization System
- Actual Vehicle Hardware
  - Driving Console
  - Actual Joystick Hardware
- Control Console for Instructor

## Scenario Creation & Management

- Driving Various Environment Conditions
  - Rain, Snow, Fog and Filling
- Usage Scenarios for Different Equipment
  - Ditch On / Filling
  - Field Flattering
  - Material Masonry
  - Loading / Unloading to Other Vehicle
  - Drain Excess



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