

## CONSTRUCTION MACHINERY SIMULATORS



### VR Compatibility



#### Lessons and Scenarios

Our simulators include many scenarios as construction machinery recognition, safety measures and advanced using techniques.

- Construction machinery introduction
- Gauges introduction
- Joysticks introduction
- Attachments introduction
- Safety precautions
- Driving and maneuvering techniques
- Moving, stopping and parking
- Lifting applications
- Loading applications
- Scraping applications

Our simulation software allows rapid transition to any working conditions for all scenarios.

- Various terrain conditions
- Various load types
- Various floor conditions
- Various weather conditions
- Various working hours

#### Monitoring and Reporting

Our simulation software reports all parameters related to evolution of operator.

- Quantity of work
- Duration of work
- Fuel consumption
- Occupational parameters
- Combined parameters



**S-LINE** 3DOF Motion System



- Portable and lightweight system
- 3-DOF motion platform

- Adjustable seat with safety belt and armsets
- Original joystick, pedals and hardware

#### Minimum System Requirements

Intel(R) Core(TM) i5 | 4 GB Ram | 120 GB SSD Harddisk | NVIDIA GeForce GTX1050  
Windows 7 Pro 64 | Wireless Combo keyboard+Mouse

#### Physical Dimensions (Tv and Kiosk Included Dimensions)

LxWxH 190x145x203cm

#### Electrical Specifications(W)

Power Supply: 220VAC, 11,8A(Peak)

# EXCAVATOR SIMULATOR

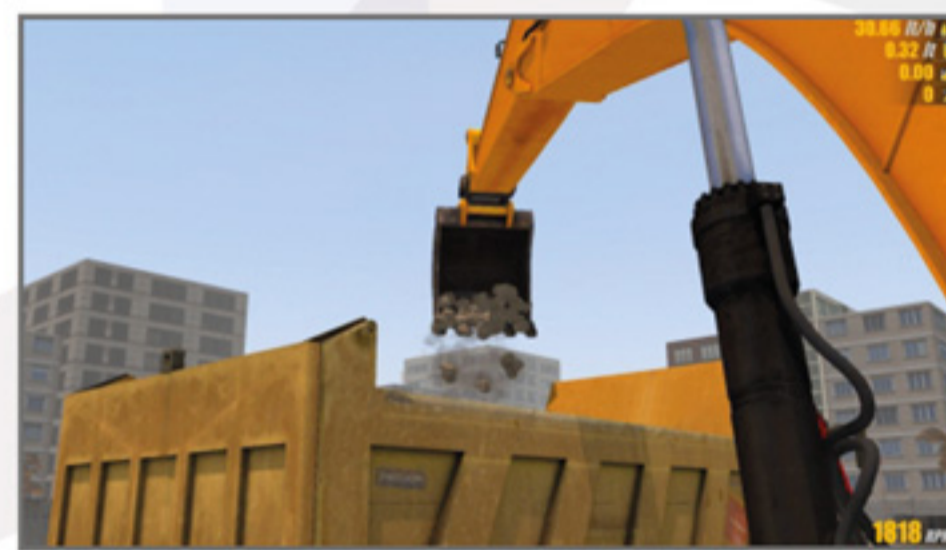


## Features:

- Modern 3D graphics
- Realistic physics
- Realistic engine rpm, torque and hydraulic pressure calculations
- Accurate vehicle transmission simulations
- Different set of attachments for the vehicles
- Terrain deformation
- Detailed reporting
- Multiple external camera options for the trainer
- Different times of day, work at night selectable by the trainer
- Rich selection of lessons to cover all important aspects of the regarding vehicle
- Touch screen inputs or full cabin with complete set of physical inputs option
- Realistic physical vehicle pedals, levers and buttons
- 3-DOF or 6-DOF motion feedback options
- Virtual reality support for both Oculus Rift and HTC Vive
- Different screen configurations
- Physical gauges

## Risk & Costs Free Tools by SANLAB Simulation

- ⊖ Fuel Costs
- ⊖ Accident Risks to Staff
- ⊖ Occupational Safety Risk
- ⊖ Operating Costs
- ⊖ Maintenance Costs
- ⊖ Machine Downtime
- ⊖ Equipment Damage
- ⊖ Weather Restrictions
- ⊖ Worksite Restrictions
- ⊖ Emission



## Reporting:

At the end of every training session, a report is created and recorded. This report includes trainer name, trainee name, date, name of the training lesson, successes and mistakes of the trainee as well as spent time and fuel. These reports can be accessed any time and can be printed directly within the simulator software.

## Excavator Lessons:

- **Balls On Cones** - Pick the balls using the bucket and put them in to the basket without dropping them on the ground.
- **Bucket Path Following** - Follow the curved path with the bucket.
- **Digging** - Dig the soil and load it in to the truck.
- **Lowbed Loading** - Drive the vehicle on to the Lowbed truck without tipping the vehicle.
- **Quick Attachment** - Align the connection point and get the bucket attachment on the ground. Then drop it and to the same for the breaker attachment.
- **Ghost Bucket** - Align the position and rotation of the bucket with the imaginary (ghost) buckets.