PREPARE FOR REALITY

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THE TENSTAR MISSION

OUR MISSION IS TO MINIMISE EMISSIONS, INCREASE EFFICIENCY AND IMPROVE SAFETY DURING AND AFTER USER TRAINING WITH MACHINES AND VEHICLES.

We develop industry-leading products with innovative tools for learning and extensive exercise programs, paired with cutting edge graphics and professional hardware.

Welcome to our world of simulation!

SIMULATION PROVIDES SEVERAL

BENEFITS

SAFE REDUCES ACCIDENTS

Students train in a safe and relaxed environment. They can practice extreme situations and operations without risking injury or machine damage.



Producing and running a simulator leaves a minimal climate footprint, compared to a traditional machine running on fossil fuels.

EFFICIENT TIMEEFFECTIVE

Simulators allow students to gain more hours in the machine or vehicle regardless of season and weather. They can even practice on their own with minimal teacher presence.



COST-EFFECTIVE

A simulator is a smart investment with low operating costs and minimal downtime. Compared to a real machine, the operating cost of a simulator is just a fraction.

AN AUTHENTIC DRIVING EXPERIENCE THROUGH

REALISM

| reference | removement | removative | remo

EXCELLENT

MACHINE BEHAVIOR

Combining the latest technology and programming with advanced engineering gives Tenstar's simulators a very authentic machine feel.



PROFESSIONAL

HARDWARE

The simulators are designed to the highest standards of quality and function. Developed and assembled by Tenstar in Sweden, with components such as seats and controls sourced from industry-leading manufacturers.

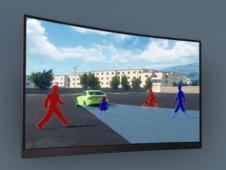


GRAPHICS

We design our graphics with an emphasis on real machine models and actual driving environments for a truly immersive experience.



METHODOLOGY



THOROUGHLY DEVELOPED

EXERCISES

Each machine type has a full set of professionally developed exercises, optimized to train students in a wide array of operations, from basic know-how to advanced maneuvering.



ANALYSIS AND FOLLOW-UP

LEARNING

At Tenstar, we're always looking to develop our understanding of how learning works. Working closely with experts in different fields, we continue to present the best tools on the market.

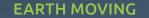


FLEXIBILITY

UPDATES

With endless possibilities to improve and develop all of our simulators.

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LIFTING

MATERIAL HANDLING

TRAFFIC

EMERGENCY

FORESTRY

AGRICULTURE



Track Excavator





Forklift





Fire Engine



Harvester





Wheel Excavator



Tower Crane



Crane Lorry





Ambulance







Wheel Loader



Mobile Crane







Telescopic Handler



Long Hauler



Truck With Trailer



Wheel Loader



THE TENSTAR SIMULATOR IS AN ALL-IN-ONE SOLUTION

ONE PLATFORM, MANY MACHINES

With Tenstar's customizable hardware solution, you can drive several machines using the same platform. A flexible and cost-effective solution for all your training needs.



Telescopic Handler



Wheel Loader

pages 16-17.

The Tenstar simulator configured with Motion base and Track pedals for the Track Excavator. See other options on

TENSTAR USER XPERIENCE



INTUITIVE AND SELF EXPLANATORY

Tenstar User Xperience is an interface that offers a clean and simple look to our simulators, making use of all screens to select and navigate machine types and exercises.

TEXT & SOUND INSTRUCTIONS

A SMARTER WAY OF PROVIDING INFORMATION



With Text-to-Speech, we help users process information more efficiently with the help of voice instructions. The users can maintain their focus on the road and task ahead, using their hearing to receive the instructions.

Machines and exercises are easily selected on the user-friendly touchscreen.



NOW DEVELOPING

EYE TRACKING

REGISTER WHERE THE USER IS LOOKING

By combining eye tracking with TRR, it is possible to gain a new previously unseen perspective offering an entirely new understanding of how different situations play out and why.



Each user has a personal login and can quickly resume where they previously left off.

TENSTAR RECORD & REPLAY

TRR

ANALYZE, EVALUATE AND IMPROVE

All training sessions are automatically saved and stored in the system. The exercises can then be watched again from any chosen angle and at any given time, helping students improve their driving.

Choose the sequence you want to analyze, pause, adjust the view in 3D, start again, and learn from what happened.

Analyze the exercise in 3D from within the vehicle or from an external viewpoint.

TENSTAR SCORING SYSTEM

TENSTAR



FEEDBACK FOR MORE EFFECTIVE LEARNING

Tenstar Scoring System offers scoring results based on Safety, Quality, and Economy. It enables evaluation, feedback, and incentives for the student's progress and development.

TENSTAR

TENSTAR

A complete exercise report, containing the student's score, can also be exported as a PDF for closer evaluation.

A review shows immediately after a completed exercise with the score on Quality, Safety, and Economy.



MULTI MACHINE ENVIRONMENT



INTERACT AND PRACTICE TOGETHER

With MME, several different users can cooperate and interact in the same environment. Students solving tasks together offers a new level to simulation-based education, making students even better prepared for reality.

Students solve tasks together in the virtual environment - each student using their own machine.



VR-WALKAROUND



IMMERSE YOURSELF WITH VIRTUAL REALITY

Virtual Reality Walkaround offers the student the possibility to interact and move around the machines and vehicles. Get to know all the details or carry out an interactive pre-start check. All you need is a VR headset and two hand controls.



You can place a person, using a VR-headset and hand controls, in the virtual training environment.

The user can move around the worksite to observe, communicate through hand gestures, measure objects and dig with a shovel.



The user can interact with the machines by, for example, doing inspection routines before driving.

VR headset and hand controls connected to a regular computer make it possible to step into the simulation.

WE HAVE A SOLUTION FOR EVERY NEED

Tenstar's proprietary hardware is assembled to order in Sweden, and is available in three different standard designs. You can adapt the platform to create your optimal solution by choosing and combining professional components from the industry – steering wheel, joysticks, pedals, control systems, screens, VR headsets, etc.



DESKTOP SIMULATOR

The entry-level solution

- Tenstar Steering Wheel with professional pedals or gaming steering wheel with pedals.
- Automatic or manual gearbox
- Add joysticks to enable more machine types
- Touch screen and 1-3 landscape screens in the front



CAR SIMULATOR

The complete solution for car simulation

- Tenstar Steering Wheel and professional hanging pedals
- Choose between an automatic or manual gearbox
- Car seat with three-point seat belt
- Touch screen and 3 asymmetrically positioned landscape screens in the front + 1 landscape screen in the rear



COMBINATION SIMULATOR

The ideal solution

- Motion base for enhanced realism
- Interchangeable track or traffic pedals
- Professional low driver seat with seat belt
- Add joysticks to enable more machine types
- Touch screen and 3 portrait screens in the front + 1 optional landscape screen in the rear

VR HEADSET

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ADDITIONA

Using a VR-headset adds more realism to the simulation with better depth perception and a 360 degree view.



MOTION BASE

Tenstar motion base is 3 DOF (Degree of Freedom) using advanced motion pattern technology thats enhances the feeling of working in an actual machine.

SHUTTLE SHIFTER LIFELIKE CONTROL STEM ADJUSTABLE POSITION

TENSTAR STEERING WHEEL

Designed and developed by Tenstar our steering wheel offers a more realistic driving experience with unique characteristics adapted for different vehicles.



TENSTAR PEDALS

Floor-mounted pedals for traffic and tracked vehicles that are easily interchangeable when switching vehicle.

TENSTAR JOYSTICKS

Standard levers of the highest quality with innovative and functional design. All settings and functions correspond to real equipment.

TENSTAR QUICK SWITCH

The Quick-switch connector fits all joysticks on the same armrest and lets you switch between different controllers for all Tenstar machines.

COOPERATING

Several students working together in one network and in the same environment.

TEACHER STATION

With simulation-based training, one teacher can train several students at the same time.



MORE TIME TO LEARN

with more training hours and minimal downtime.

SAFE AND RELAXED

Students practice in a secure environment for optimized learning.

WELCOME TO OUR WORLD OF SIMULATION Distributed by Learning Labs, Inc. 1-800-334-4943 - www,LLI.com

