

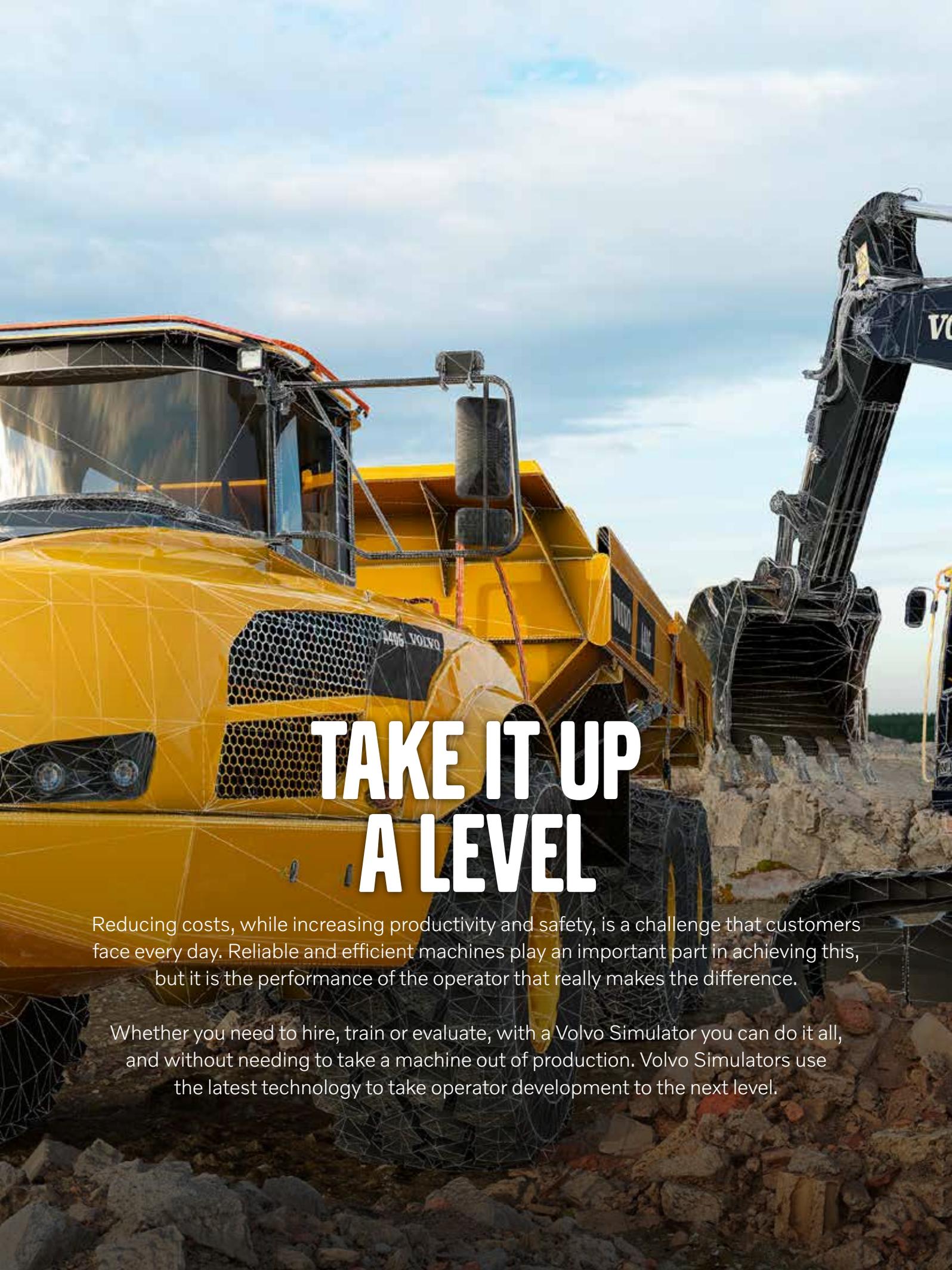
Volvo Construction Equipment
Building Tomorrow



VOLVO SIMULATORS

Manage skills, monitor progress





TAKE IT UP A LEVEL

Reducing costs, while increasing productivity and safety, is a challenge that customers face every day. Reliable and efficient machines play an important part in achieving this, but it is the performance of the operator that really makes the difference.

Whether you need to hire, train or evaluate, with a Volvo Simulator you can do it all, and without needing to take a machine out of production. Volvo Simulators use the latest technology to take operator development to the next level.



Volvo Simulators give you answers

Are your operators the best they can be?

"Our best operator tried the articulated hauler simulator and we were surprised when he didn't get a great score."

In this example from a worksite in Europe, the operator used the parking brake instead of the load and dump brake function. It was incorrect machine use adding wear and tear and would have been almost impossible to identify simply by watching someone operate a real machine.

Who is the best person for the job?

"We had no time to train operators, so we hired operators already trained to the level we needed."

In North America, Volvo Simulators have been used to improve the quality of new hires, used to screen operators during the recruitment process.

"We want to make sure our operators spend their time doing what they do best."

At a worksite in Asia, Volvo Simulators are used to rate operators in different categories, and match their skill levels accordingly.

Who would benefit from training?

"I want to ensure time and money on training is spent wisely."

Assessing who needs training, and what type of training, can be a challenge. With Volvo Simulators identifying operator training requirements is easy and effective.

Is training working?

"I want to validate the value of training."

Easily justify the return on investment gained from training with Volvo Simulators. Once training is completed, improvement metrics allow the easy review of training output and results.

A real-world experience, minus the cost

- No production loss: your machines keep working
- No wear and tear on real machines
- No fuel consumption
- No risk to site personnel or machinery
- Whatever the weather, wherever you are
- A single instructor can train multiple individuals

Results you can count on

In Latin America, operator training completed on Volvo Simulators resulted in

10%
reduction
in fuel consumption

5%
increase
in productivity

more than 60%
reduction
in training costs.

VIRTUAL WORLD, REAL BENEFITS

Volvo Simulators look and behave just like real machines, combined with advanced features to support evaluation and development. By working with the very best tools, instructors are better equipped to help operators meet the high demands placed on them in today's construction industry.



Authentic scenarios

Built using actual data from Volvo machines and equipped with authentic controls, Volvo Simulators accurately replicate specific workplace conditions, including site setup and fleet configuration.

Take on your targets

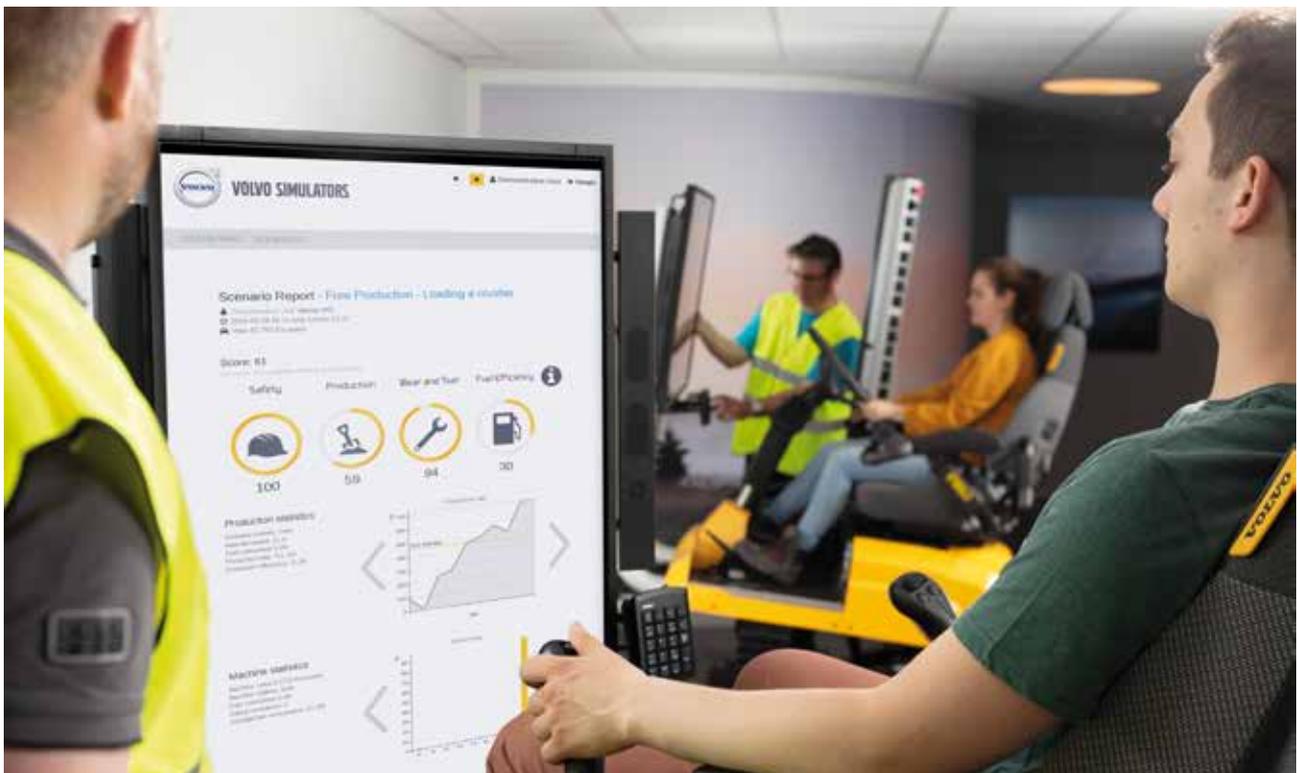
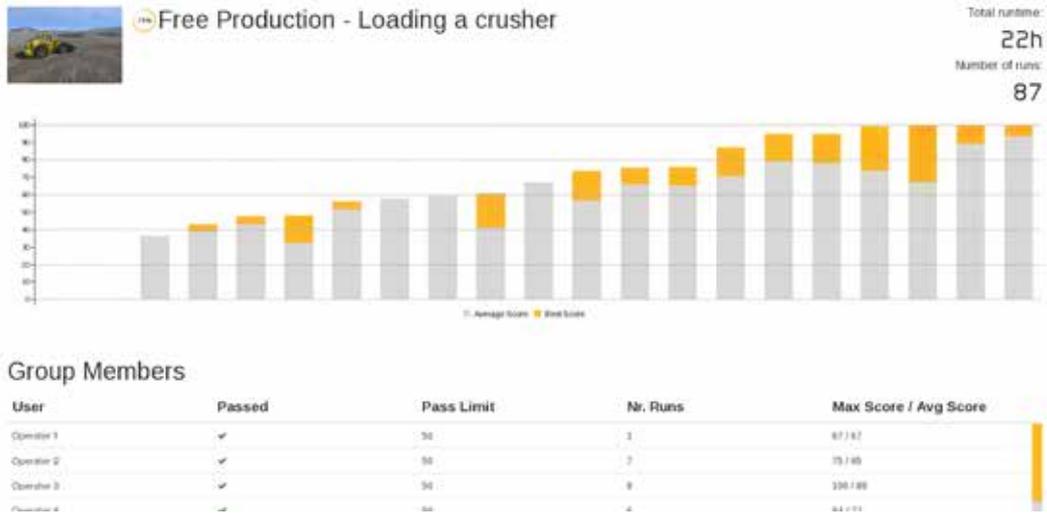
Based on criteria including fuel efficiency, productivity, wear and tear and safety, the system gives operators a total score on each exercise they complete. Comparing scores between classmates, colleagues or training targets creates additional incentives for operators to achieve their full potential.

Instant feedback

Operators get real-time feedback on their performance through easy-to-understand graphs, which can focus on specific areas, for example fuel consumption and safety.

Meaningful evaluation

Once an exercise is complete the system provides insights on operator performance and areas for improvement, through simple charts. Progress can be translated into a metric which most reflects the training objectives, such as money saving, productivity increases or reduction in emissions.



Built-in tutorials

Built-in tutorials provide guided information to help operators improve at each exercise.

Tailor-made programs

Instructors can choose between using a predefined program or create a tailor-made path using the Operator Performance System.

Efficient network

Connect multiple simulators to a single network, which can be monitored from a computer or mobile device using the Operator Performance System. Instructors can observe students and prepare training paths without needing to occupy an actual simulator.

Data analysis

Volvo Simulators track a multitude of data – such as RPM distribution and use of power boost – and come with a web interface to help analyze it. This powerful tool allows to easily evaluate performance and monitor the progress of an individual or group of operators.

Data can also be exported for in-depth analysis.

WHAT YOU GET

Exercises and programs

Volvo Articulated Haulers

Rock handling, Safe loading and unloading

Volvo Excavators

Rock handling, Earth moving, Tilt rotator, Demolition, Pipelaying

Volvo Wheel Loaders

Rock handling, Earth moving, Pallet handling, Forestry applications

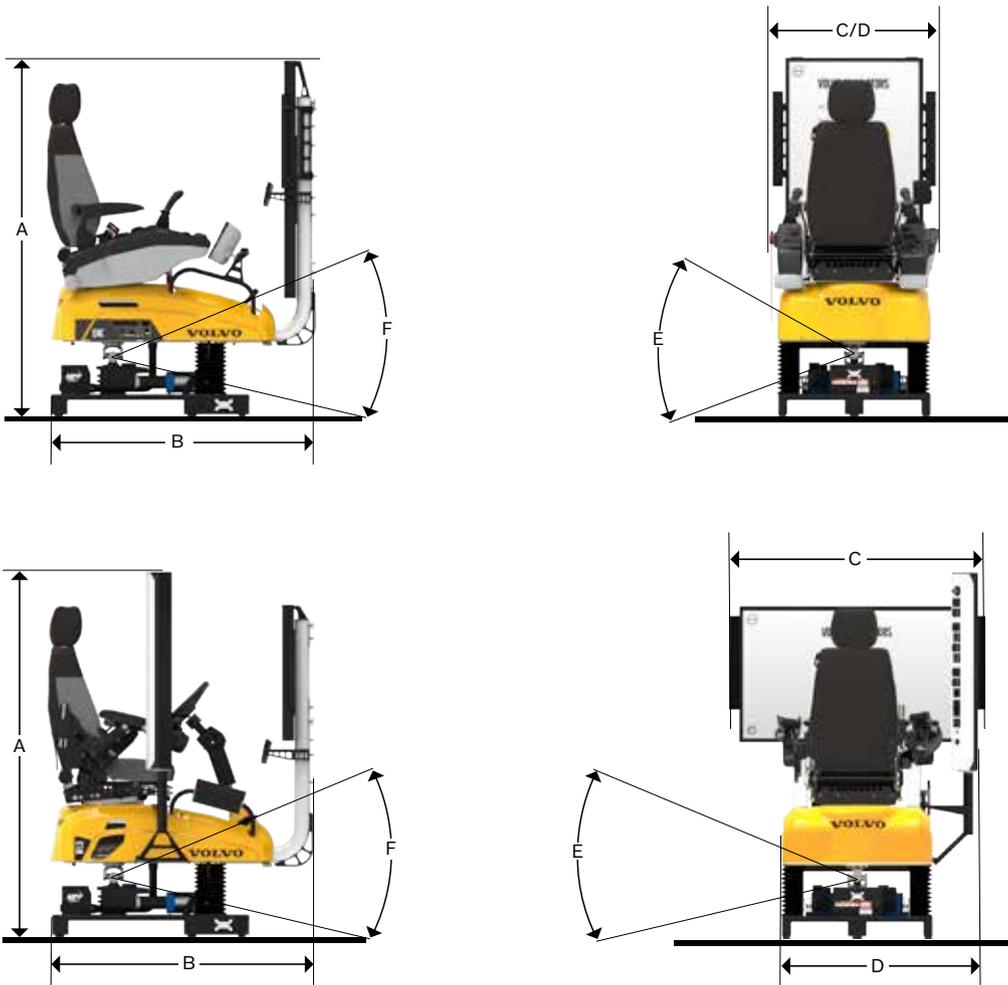


By your side

When you order a Volvo Simulator, we are here to help you get the most from this intelligent solution. We can also support with system updates or you can update to the latest version of the software at any time via an internet connection.



Specifications



Dimensions and weights

| | | Excavator | | Wheel Loader | | Articulated Hauler | | Transport box | |
|--------|-----------------------|-----------|--------|--------------|--------|--------------------|--------|---------------|--------|
| | | mm | in | mm | in | mm | in | mm | in |
| A | Height | 1 880 | 74,02 | 1 930 | 75,98 | 1 770 | 69,69 | 1 920 | 75,59 |
| B | Length | 1 530 | 60,24 | 1 470 | 57,87 | 1 470 | 57,87 | 1 940 | 76,38 |
| C | Width, with screen | 880 | 34,65 | 1 370 | 53,94 | 1 370 | 53,94 | 1 480 | 58,27 |
| D | Width, without screen | 880 | 34,65 | 880 | 34,65 | 880 | 34,65 | 1 480 | 58,27 |
| | | kg | lb | kg | lb | kg | lb | kg | lb |
| Weight | | 277 | 610,68 | 273 | 601,86 | 283 | 623,91 | 130 | 286,60 |

Tilting angles

| | | | |
|---|---------------|-----------|----|
| E | Maximum roll | ° | 23 |
| | at | ° per sec | 46 |
| F | Maximum pitch | ° | 15 |
| | at | ° per sec | 30 |

Standard equipment

| | |
|------------------------------|--|
| Power supply | 115 VAC, 50-60 Hz, 20 Amps 230 VAC, 50-60 Hz, 10 Amps |
| Internet for remote support | WiFi and RJ45 |
| Extra video/audio out | HDMI |
| USB ports | |
| Control pattern change valve | On the excavator simulator |

Optional equipment

| | |
|-------------------------------|--|
| Articulated hauler add-on kit | Convert the wheel loader simulator to an articulated hauler simulator, in a matter of seconds. |
| Extra screen | The extra screen can be used to show an additional perspective, such as a third person view. |

VOLVO

Volvo Construction Equipment

volvoce.com