Operator Training Simulator

Atlas Copco

Taking you to a New Level
with
The Next Generation of Training

RCS and DCS Simulators

Operator Training Simulator

What is our goal?

- improve workplace *safety*.

- reduce wear-and-tear on equipment

- reach performance targets sooner.
  - precision
  - parallelism
  - productivity

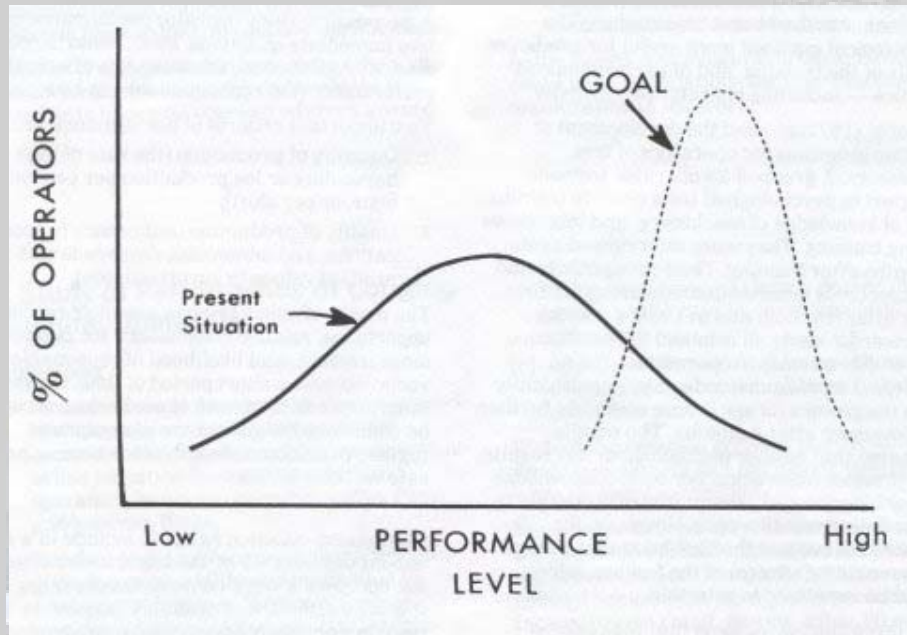- ensure quality operators optimize our equipment.

Operator Training Simulator

Why use a simulator?

- learning curve is reduced!

- helps with pre-screening by evaluating natural abilities.

- especially important where workforce is unionized!

- no equipment damage.
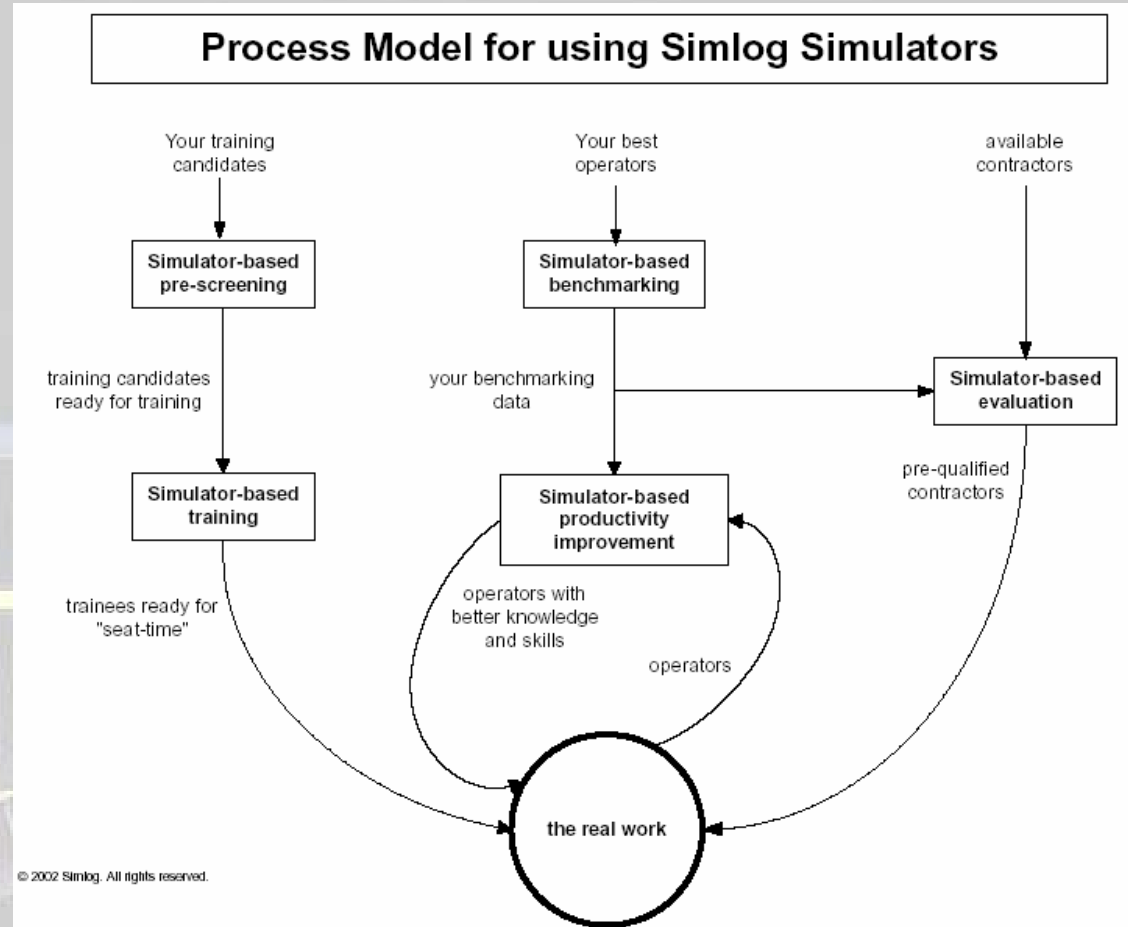
- no equipment down for training.

Operator Training Simulator

Training Flow

- The customer gets the Simulator delivered to him and he sets it up. approximately 15min

- Each trainee uses the Simulator until the modules are finished. approximately 8hrs each

- The trainee's logged records are retrieved by modem or on site by the Trainer.

- The results are reviewed by Atlas Copco and a training action plan is presented to the customer.

  - The training action plan would point out good and poor performances, make recommendations for follow up training and what area the trainer would focus on based on what he sees in the results. Customer management can use this to ensure qualified operators are using the rigs.
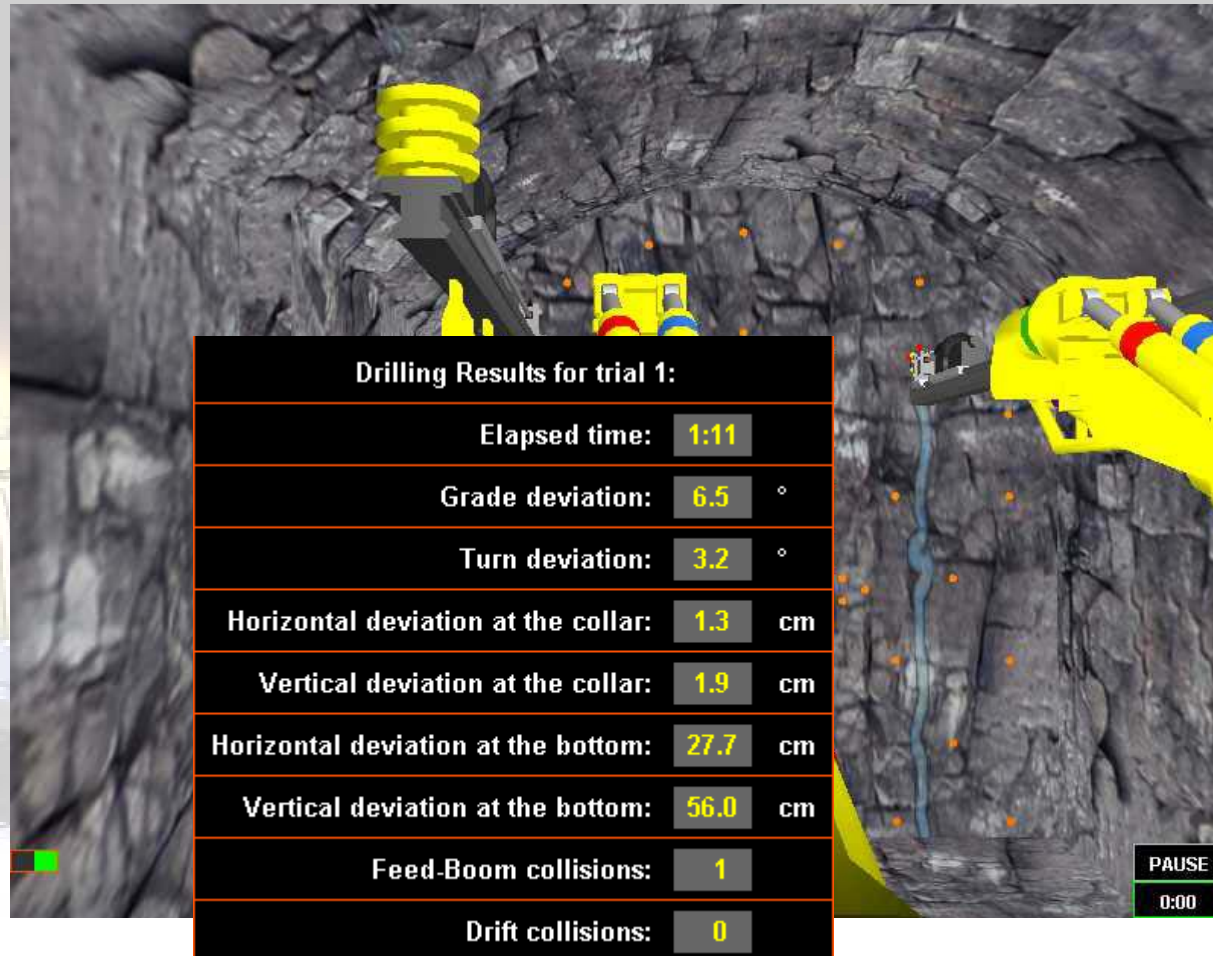
Process Model for using Simlog Simulators

Your training candidates → Simulator-based pre-screening → training candidates ready for training → Simulator-based training → trainees ready for "seat-time"

Your best operators → Simulator-based benchmarking → your benchmarking data → Simulator-based productivity improvement → operators with better knowledge and skills

available contractors → Simulator-based evaluation → pre-qualified contractors

operators → the real work

Operator Training Simulator

Realistic graphics with every training aspect logged.

Operator Training Simulator

Here is a view of some holes after they have been drilled and how the results can be used to ensure the operator understands his performance.
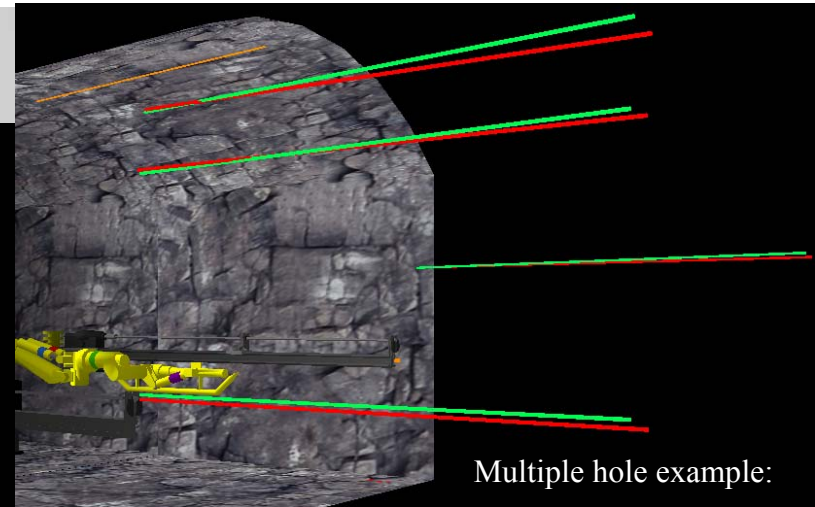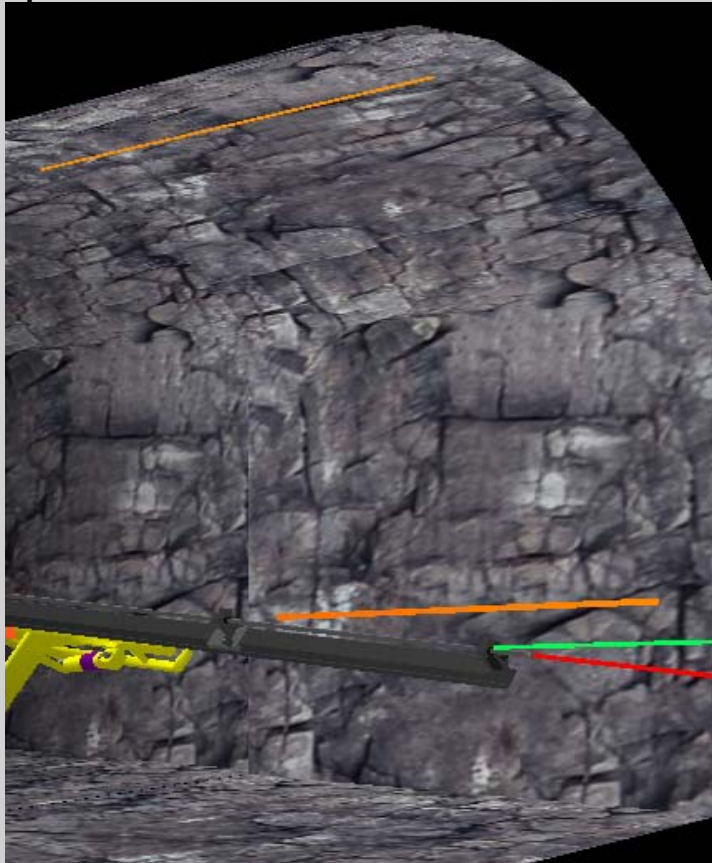
Multiple hole example:

In this example the burden at the bottom of the hole will be too much! (see drilling results)

Drilling Results for trial 1:

Horizontal deviation at the bottom:	27.7	cm
Vertical deviation at the bottom:	56.0	cm

Realistic feedback on how operators performance affects hole quality.

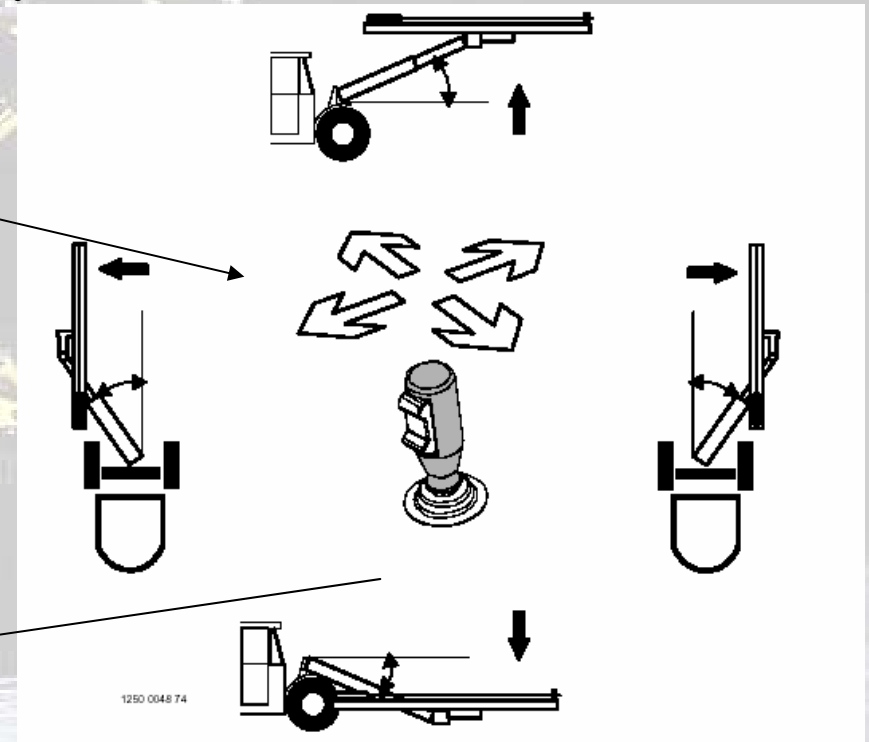# Operator Training Simulator

RCS Rig controls

The controls are configured to match the controls that we have today.
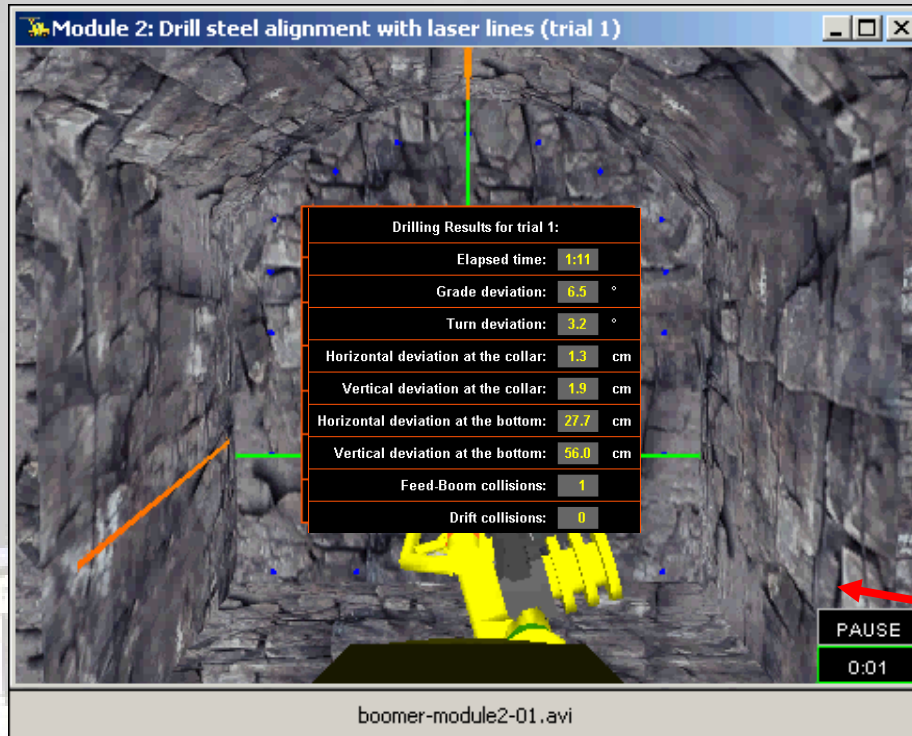
Positioning

Drilling, Injection and Bolting

Simulator right hand controller.

1250 0048 74

Operator Training Simulator

RCS control version

DCS control version

Operator Training Simulator
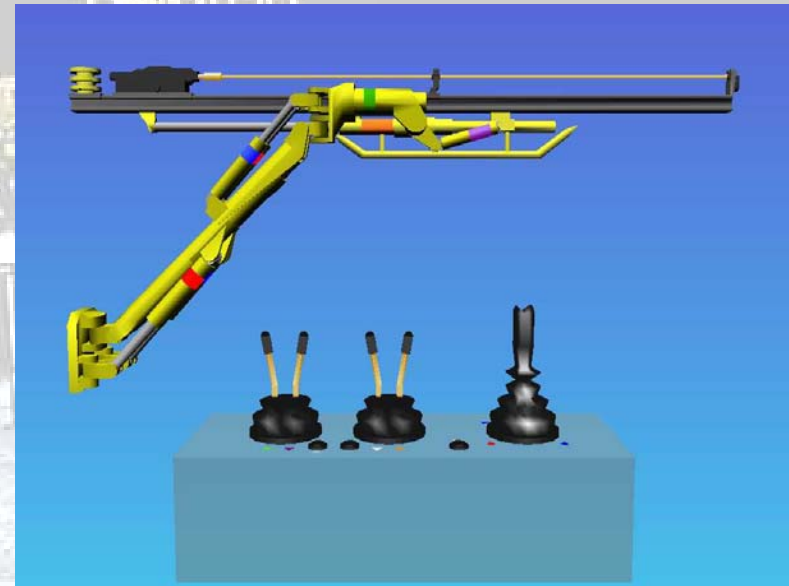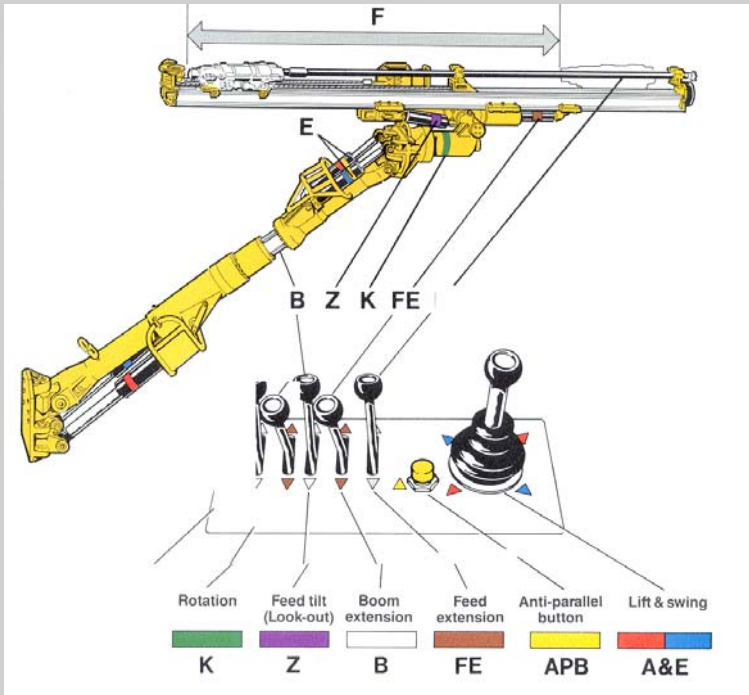
For the DCS simulator you would get,
the joysticks Controlers, communication box & Software CD

The control box plugs in to the communication box via the cables. The communication box plugs into your PC via a serial cable.

Operator Training Simulator

For the RCS simulator you would get,
x2 USB joysticks Controlers   &   Software CD

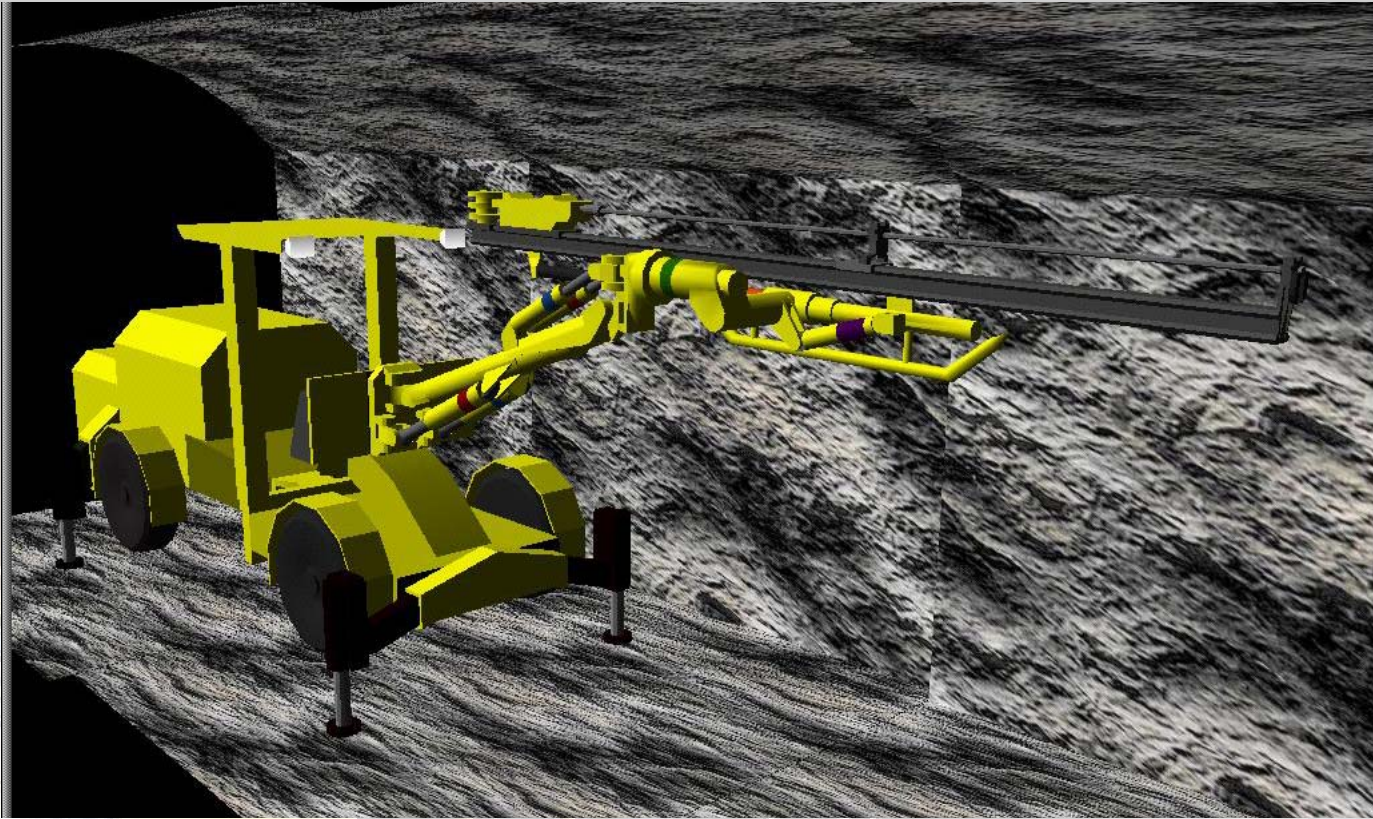The USB joysticks plug into your computer* and then you load the software on that computer.

* Computer must meet minimum requirements

The Simulator has limitless possibilities for the future.

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For more details see www.simlog.com or contact your local Atlas Copco Construction & Mining sales company.

Thank You.