



DIGITAL DRILLER™

LEARN ANYWHERE, ANYTIME

OPERATOR TRAINING SIMULATOR FOR DD422i/IE, DT922i, DT923i, DL432i, DL421, DS422i, DS412i/IE



EXCELLENCE IN LEARNING

Safely develop and refresh operators' skills on Sandvik drill rigs with our new underground drills simulation equipment. The drill start-up period is shortened as the transition to the real equipment is quicker, improving efficiency and productivity. Operators can be trained before the drill rig arrives on site or re-assess later during rig maintenance or repair.

DIGITAL DRILLER™ has been developed for underground hard rock. It simulates operation of a real rig, using authentic controls combined with the same control system software as the ones on our rigs. It provides a comprehensive technical training of our control system.

Through simulator-based operator training, operators develop skills progressively from basic boom movements and manual drilling to full automated drilling operations using various training scenarios.

Rather than conducting training with the actual equipment, operators learn with a realistic simulator, optimizing the transition to the real rig.



THANKS TO ITS COMPACT SIZE AND ITS WHEELED TRANSPORTATION CASE, THE SIMULATOR CAN EASILY BE CARRIED ANYWHERE BY ONE PERSON.

GET UP AND RUNNING FAST

DIGITAL DRILLER™ performs all boom and feed movements as well as the entire drilling cycle.

Depending of the application, our simulators are integrated with our iSURE® software, tunnel and drill plan management tool for accurate drilling, charging and blasting.



Thanks to the training course management tool, the trainer can customize the training and use multiple preplanned training scenarios to build tailor-made learning sessions.

THE TRAINEE PROGRESSIVELY LEARNS TO:

USE ALL FUNCTIONS AND SET UP PARAMETERS OF THE CONTROL SYSTEM

ACCURATELY CONTROL THE BOOM AND FEED IN A PRE-DEFINED DRILL PLAN

MARK AND SET ANGLES AND DRILLING START POINTS WITHIN DEFINED PARAMETERS

DRILL HOLE COLLARING IN VARYING START POSITIONS

NAVIGATE THE RIG TO MATCH THE DRILL PLAN USING THE NAVIGATION TOOLS

DRILL IN VARYING ROCK CONDITIONS

USE DIFFERENT CABLE BOLTING PROCESS LIKE CEMENT MIXING, GROUTING AND CABLE INSTALLATION

SAFELY CONDUCT DAILY MAINTENANCE CHECKS

MANAGE OTHER APPLICATIONS SPECIFIC FUNCTIONS

The exercise results are measured against time, accuracy and various parameters like optimal feed / rotation pressure, percussion and flushing. The exercises can be repeated when needed. Self-learning is possible.

The progress reporting tool creates evaluation reports on criteria measuring trainees' performances to effectively assess the skills.

LEARN ANYWHERE ANYTIME

Using DIGITAL DRILLER™, speed up your productivity by:

- Shortening the training period on the real rig: training can start before the rig arrival
- Developing operators' knowledge and ability to use rig features in an optimal way
- Teaching maintenance teams on basic drilling operations
- Learning to understand the advanced diagnostics
- Avoiding risk of rig damage while using virtual environment
- Limiting the environmental impact: no rock tools or fuel consumed
- Reducing training costs: training sessions are easy to implement with multiple operators in a safe classroom

100%

flexibility

training can easily be conducted even when rig is not available

**LEARN ANYWHERE
ANYTIME**

Up to 5%*

increase

in annual productivity thanks to increased rig availability

**PRODUCTION
PERFORMANCE**

Up to 35%*

reduction

in training cost through less energy, rock tools usage and reduced rig damages

**REDUCED COST
IMPROVED EHS**



FEATURES



GENERAL INFORMATION

- **Simulator: 20 kg**
- **Protection case: 25 kg**
- **Total weight with simulation laptop and accessories: 50 kg**
- **Available languages:**
English, Spanish, Russian, German, Finnish, Portuguese, Swedish, Norwegian, others on request
- **Power supply:**
Simulator power supply: 100..240 VAC, 200 W
Delivered with European (SCHUKO) power cables
Other plugs available on request
- **Recommended optimal setting:**
Adjustable table for the console to enable best ergonomic height:
Distance to the TV screen: 1 meter for 50", 2 meters for 65" (ideal)
- **Not included:**
A large display or TV screen

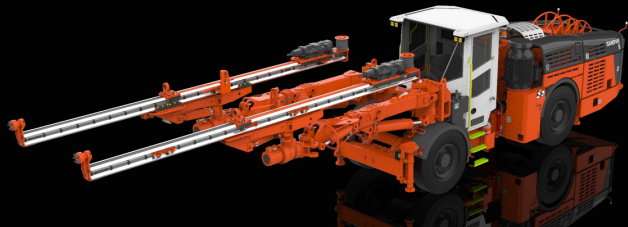
OPERATOR'S SKILLS

	MINING JUMBOS	BOLTING DRILLS
Drillmaster	Mastering drill planning and entire cycle Mentor, coach	Mastering ground consolidation Mentor, coach
Professional	Coping with varying drilling conditions Proficiency	Understanding ground consolidation Proficiency
Beginner	Basic face drilling operator skills Autonomous	Basic drilling and bolting operator skills Autonomous

MATRIX

LONGHOLE DRILLS

Mastering drill
planning and
very long holes
Mentor, coach

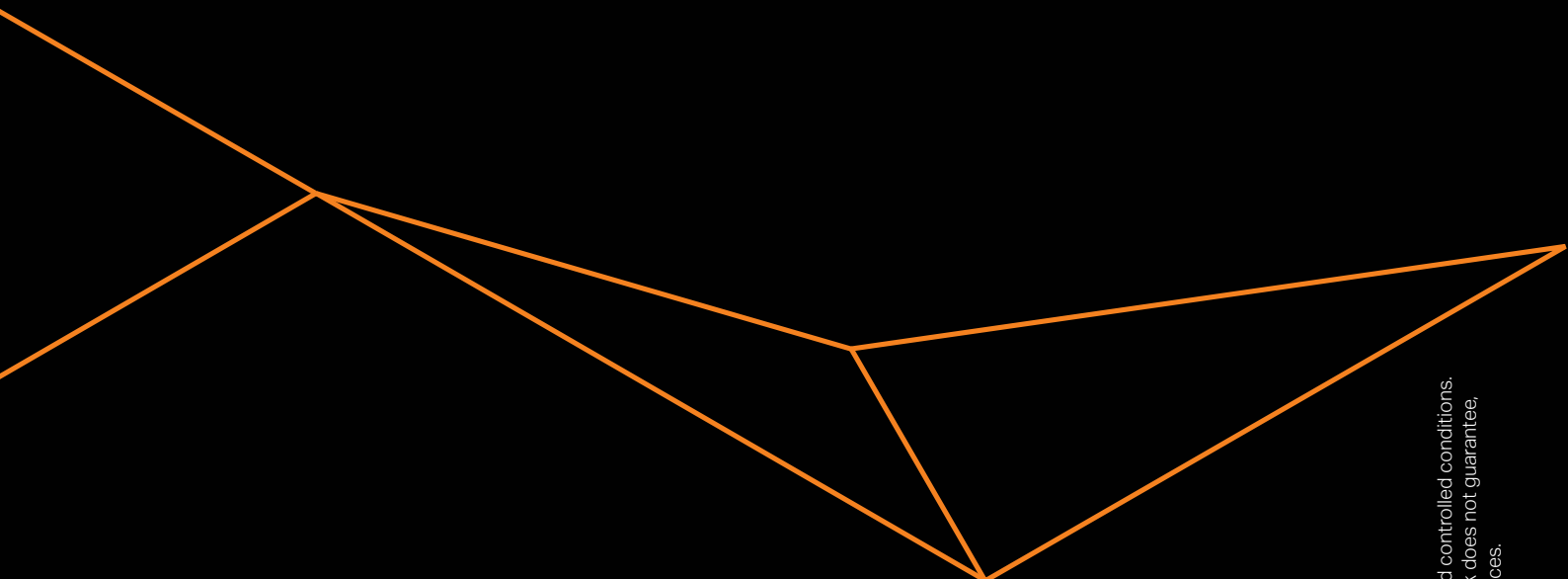


Coping with
varying drilling
conditions
Proficiency



Basic longhole
drilling operator
skills
Autonomous





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