



Conversion Kit® for Sandvik DL421 Long Hole Drill



THE COMPLETE AND SCALABLE SOLUTION

Immersive Technologies provides a custom solution designed to train and develop your mine equipment operators using world leading technologies. This maximizes both effectiveness and throughput of the training process by blending eLearning, Instructor Led Training, Medium and High Fidelity Simulators for the most cost effective solution.

Coupled with this approach are professional integration services, tools and technologies which accurately assess and reduce operator risk. This enables Immersive Technologies to partner with our customers to drive quantifiable improvements in operational metrics such as safety, cost and profitability.

Increase operational safety and productivity while reducing your maintenance spend

Immersive Technologies' Conversion Kit development for the Sandvik DL421 Long Hole Drill provides the ultimate in training realism for mines focused on increasing operator safety, improving productivity and reducing levels of unscheduled maintenance.

The Conversion Kit includes a complete replica cab of the Sandvik DL421 Long Hole Drill, with fully functional controls and instrumentation sourced directly from Sandvik.

Original Equipment Manufacturer and industry endorsed Sandvik operating procedures are tightly integrated with an extensive learning system within the Advanced Equipment Simulators. This system has been repeatedly demonstrated via evidence collected from within mining operations to provide rapid, correct and effective learning and assessment.

With mining equipment becoming increasingly technically sophisticated, the level of information, experience and organizational competencies required to accurately simulate these machines also increases. Through Immersive Technologies' industry experience, you can be assured your training solution will be the only accurate and true representation of the real machine available.



Machine dynamics faithfully reproduced to give the maximum realism



Accurate instrumentation and controls provide a safe and highly realistic training environment

Expect Results

UP192 Conversion Kit for Sandvik DL421 Long Hole Drill

Immersive Technologies' UP192 Conversion Kit provides a high fidelity operating interface with thoughtful, ergonomic design equal to the Sandvik DL421.

The UP192 provides accurate and realistic drilling operation with the ability to train with a comprehensive set of operator errors including collaring, hose damage and boom collision.

Full tramming functionality is included and covers connecting to site services, hydraulic jacks and negotiating tight corners.

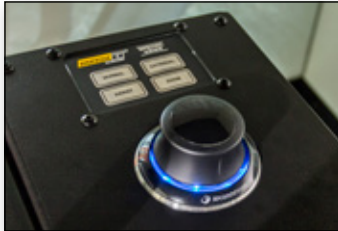
Also included are innovative special views such as an all new 3D Walkaround view that allows the operator to get out of the cabin, line up the booms, view site services connections and inspect the drill.



Electro-hydraulic drill controls



Interactive operator display



Special views and walk around control



Jacks and tramming controls



Realistic tramming capability



Sliding and rotating seat action



Conversion Kit: UP192

Released: April 2018

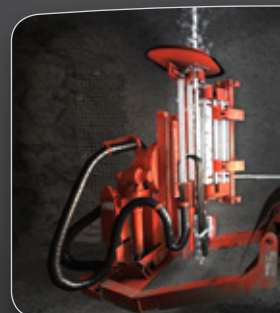
NB: Seat & Base not included.



Drilling Training



Tramming Training



Rod Handling Training



CONVERSION KIT® COMPATIBLE WITH
Advanced Equipment Simulator
IM360

Post training, operator performance can be reviewed with a 3D graphical view of the holes drilled – compare target to actual and visualize entry angles and errors. All drilling statistics are logged and available for revision in the session summary.

Innovative Simulator Training Software



SimControl
IMMERSIVE TECHNOLOGIES

Immersive Technologies' SimControl software includes a range of specific Sandvik DL421 operator errors for recording and measuring incorrect operator behaviours. In addition, the SimControl software includes Sandvik DL421 events which allow a trainer to initiate a machine fault or incident to train and assess an operator on how to respond appropriately. This combination of errors and events provide a mechanism to ensure operators are working at maximum efficiency while minimising equipment damage. It also ensures operators are able to avoid or respond correctly to hazards and potentially life threatening scenarios.

Operator training events include:

- Engine Fire
- Hose Damage & Boom Collision
- Low Water Pressure
- Hydraulic Oil Pressure



Operator errors include a focus on the following areas:

- Hydraulics Management
- Engine Management
- Preventative Maintenance
- Productivity
- Site Safety Procedures
- Situational Awareness



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Inclined Fan Drilling



3D Session Review of Drill Holes

Expect Results

UP192 Conversion Kit for Sandvik DL421 Long Hole Drill



Transforming data to information

SimMetrics™ is a powerful reporting system that helps you review, measure and visualize your simulation data. With an intuitive click-and-drag user interface, you don't need to be a programmer to quickly generate detailed reports on the results of your training.



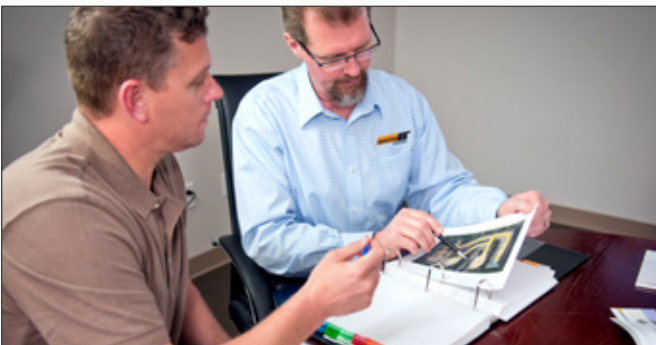
Support where and when you need it

Our customers receive a range of comprehensive support services:

- 24-hour phone support
- Rapid emergency visits
- Scheduled on-site service
- Regular maintenance support
- Hardware and software upgrades
- Extended parts warranty
- Best practice training and community networking

Training Systems Integration

Immersive Technologies offers on-site and customized consultation programs to assist mines to rapidly integrate their simulator technology, implement training program best practices and achieve maximum return on investment. Immersive Technologies application specialists work closely with you to develop a customized Sandvik Long Hole Drill training curriculum, including the development of detailed performance based benchmarks and reporting systems tailored to your site's specific objectives.



Managed Services

Outsource a portion or all of your operator training program and gain access to specialist support across a broad range of capabilities. Managed Services staff are embedded within Immersive's global support network and have direct access to exclusive intellectual property for mine operator training. Whether you are a small or large operation the solution can be scaled, giving you access to a world class support for a fraction of hiring, training and managing these teams on your own.



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