

Immersive Technologies Sets a New Global Standard in Shovel Operator Training

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The level of realism of shovel operator training simulators has reached a new heights directly resulting in increased operator training effectiveness, safety and productivity. Immersive Technologies has released **VirtualGround™ 3.0** as part of the launch of their Cat 7495 Rope Shovel simulator which takes digging and other shovel related tasks to the highest available level of fidelity. Further operator assessment through Immersive Technologies' Global Operator Benchmarking System (GOBS) has also been extended to include Electric Rope Shovels.

The Cat 7495 Rope Shovel simulator development was completed under the exclusive alliance in place between Caterpillar and Immersive Technologies. Mark Smith, Training Consultant - Electric Rope Shovels, with Caterpillar Global Mining was one of the Caterpillar project stakeholders key to this project's success. Smith explained "Caterpillar provides Immersive Technologies with the best information available to ensure the simulator is as close to the real machine as possible. This includes the support of the Caterpillar training and engineering functions to assist the development, which is very important." This alliance ensures Immersive Technologies' simulators are the most accurate on the market which translates directly to the quality of operator training achievable.

VirtualGround™ 3.0 incorporated in the 7495 Rope Shovel simulator, is designed to provide realistic material response, digging resistance and visual appearance which are crucial details in support of the effective training, up skilling and assessment of shovel operators. **VirtualGround™ 3.0** is the result of working closely with the major mining companies and major equipment manufacturers. Additionally **VirtualGround™ 3.0** takes advantage of very recent advancements in computer science along with Immersive Technologies' twenty year history of experience in mining simulation.



Immersive Technologies' new Cat 7495 Rope Shovel is the only high fidelity rope shovel endorsed by Caterpillar ensuring the highest level of accuracy.



Mark Smith, Caterpillar Global Mining Training Consultant for Electric Rope Shovels, operating the newly developed Cat 7495 Electric Rope Shovel simulator.

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Media Release

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Simulation Delivering Safety and Productivity

New advanced technologies like VirtualGround™ 3.0 provide a significant benefit for Immersive Technologies' new and long term customers. Just like earlier enhancements VirtualGround™ 3.0 has been incorporated into SimControl, the software at the heart of Immersive Technologies' simulators like the PRO3-B. Future updates of SimControl will see VirtualGround™ 3.0 progressively enabled in other machine groups beyond shovels.

SimControl updates are just one of the benefits of the scheduled upgrades delivered to hundreds of mining customers around the globe. Immersive Technologies' R&D and upgrade program is continually supporting the mining industry in overcoming challenges such as increasing tire life, increasing fuel efficiency and improving dozer stockpile operation safety through SimControl software enhancements.

In support of achieving the maximum return on investment from Immersive Technologies Rope Shovel simulators including the Cat 7495, mine sites are now able to assess the effectiveness of their rope shovel operators through a unique Global Operator Benchmarking System (GOBS) developed by Immersive Technologies. Through GOBS operator performance can be compared against global norms. This provides a global frame of reference for operator performance and highlights opportunities for improvement.

Immersive Technologies offers Training Systems Integration (TSI) and support services to fast track integration of the 7495 Rope shovel curriculum for the training and development of operators. These services enable mining operations to quickly realize measurable improvements in operator productivity and reduced maintenance events.

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About Immersive Technologies

Immersive Technologies is the world's largest, proven and tested supplier of surface and underground Advanced Equipment Simulators to the global mining industry. The company has achieved this unique position by focusing on its mission to make every mining and earthmoving equipment operator in the world safer and their employer more profitable through its simulation technologies. Immersive Technologies' Advanced Equipment Simulators are helping hundreds of mining companies around the world to increase their equipment operators' safety and site profitability through effective simulation training.

Immersive Technologies provides its customers with the most effective Advanced Equipment Simulators available. This is made possible through the formal exclusive licensing and technical information alliances Immersive has established with the leading Original Equipment Manufacturers (OEM), including: Caterpillar, Hitachi, Komatsu and Liebherr. These unique alliances provide Immersive Technologies with exclusive access to the OEM's proprietary and confidential machine technical information that is



VirtualGround 3.0, part of an upgrade to SimControl, the software at the heart of Immersive Technologies' simulation, takes digging and other shovel related tasks to the highest level of realism.

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required to correctly simulate the OEM's machines and is not available through other public or dealer channels.

With advanced mining equipment simulators deployed in 34 countries, Immersive Technologies is dedicated to provide outstanding service. To deliver on this commitment the company has customer sales and support offices located close to its customers in Perth and Brisbane Australia, Salt Lake City USA, Calgary, Ottawa & Vancouver Canada, Monterrey Mexico, Lima Peru, Santiago Chile, Bochum Germany, Johannesburg South Africa, Jakarta Indonesia and Kolkata India.

Immersive has the global mining experience, innovative technology, product range, OEM relationships, proven support commitment and industry vision to partner with you to ensure your simulator training solution delivers the significant results you expect.

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