

Immersive Technologies Brings Leading Operator Development Solution to Underground Coal Mining

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Immersive Technologies furthers its commitment to the mining industry with the development of simulators ([Conversion Kit®](#)) for Underground Coal Mining. Simulators include Continuous Miners, Shuttle Cars, Roof Bolters, Longwalls and Miner Bolters. These products feature a previously unseen degree of simulation realism and Immersive Technologies' ingenious new RealMove™ natural movement system. Bolstered with a demonstrated capability to deliver quantified improvements in cost savings, productivity and safety; Immersive Technologies offers a degree of training effectiveness not previously available to Underground Coal Mining operations.

"Until now, there has been no training solution on the market which fully addresses the unique training requirements for underground coal equipment operators. These new products highlight our ongoing approach to invest in driving customer safety and profitability through our industry leading technology and extensive mining experience," says Richard Beesley, Underground Coal Business Unit Manager.

The simulators provide an authentic and comprehensive recreation of an underground coal mining work environment and support the following models with plans to continually develop new machines:

- [JOY 14CM15 Continuous Miner with wireless TX2 or TX3 remote](#)
- [JOY 10SC32 Shuttle Car](#)
- [Fletcher CHDDR Roof Bolter](#)
- [Caterpillar EL3000 Longwall](#)
- [JOY 12CM30 Miner Bolter](#)

Immersive Technologies has firmly extended its [Complete and Scalable Solution](#) for operator workforce development into the Underground Coal Mining industry.

Beesley, an experienced roof bolter operator says, "The expanded product line is the result of intense research and development drawing from Original Equipment Manufacturers, industry best practices, subject matter experts and safety requirements specific to the underground coal mining industry."



Actual [JOY 14CM15 Continuous Miner](#) Simulation Footage



Actual [Caterpillar EL3000 Longwall](#) Simulation Footage



Actual [JOY 10SC32 Shuttle Car](#) Simulation Footage

IMMERSIVE TECHNOLOGIES

Media Release



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Simulation Delivering Safety and Productivity



Actual [JOY 12CM30 Miner Bolter](#) Simulation Footage

The innovation continues with the development of the world's first RealMove™ natural movement system, through this technology the operator can naturally walk around the 3D virtual environment to avoid hazards or to perform a full walk around of the machine. This is a key feature for remote machine operators where awareness of ones surroundings can be the difference between life and death.

"The ability to train operators to react correctly during potentially life threatening situations is invaluable in underground mining. Many dangerous situations rarely take place so training operators to understand proper protocol in a safe environment is essential for underground operations," Beesley says.



Actual [Fletcher CHDDR Roof Bolter](#) Simulation Footage

The new machines operate on the CM360 Advanced Equipment Simulator. This platform was built upon the proven design and configuration of the Immersive Technologies [UG360 Advanced Equipment Simulator](#). The CM360 utilizes the full 360 degree visual experience recognizing the distinct operating conditions of the underground mining environment. It features an entirely removable motion platform to permit both seated and remote operated simulation from within the one platform.

Particular care and attention to detail has been put into the visuals for these machines, setting new standards in 3D graphical machine models for mining simulations.

RealMove™ along with the unparalleled degree of simulation realism allows operators to train at a level of detail the underground mining industry hasn't seen before. Small details are critical to proper operations and we are excited to unveil these advancements in underground coal mining training.

The company will embark on a roadshow in popular coal mining regions during February this year to showcase the new developments delivering safety and productivity.

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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, Liebherr and P&H Mining Equipment. These unique alliances provide Immersive Technologies with exclusive access to the OEM's proprietary and confidential machine technical information that is required to correctly simulate the OEM's machines and is not available through other public or dealer channels.

With advanced simulators modules deployed in 32 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 and 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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