Conversion Kit® for Draglines

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 Draglines provides the ultimate in training realism for mining and earthmoving industries focused on increasing operator safety, improving productivity and reducing levels of unscheduled maintenance.

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.

Operational characteristics based on standard dragline models

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

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DL35/DL49 Conversion Kit® for Draglines

Immersive Technologies' DL35/DL49 Conversion Kit provides the ultimate in training realism for mines focused on increasing operator safety, improving productivity and reducing levels of unscheduled maintenance.
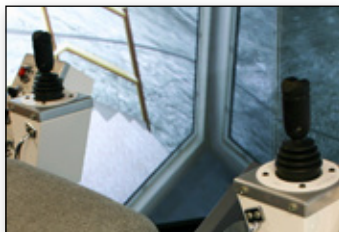
The DL35 Conversion Kit has been designed based on the Bucyrus 1570-W dragline, yet provides customizations that allow the unit to reflect the operation of a number of additional dragline models.
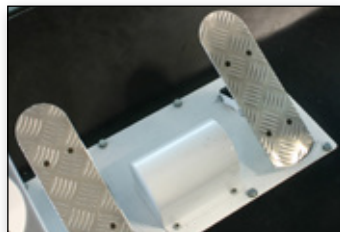

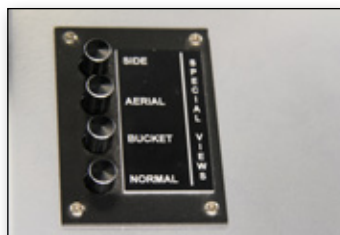*Dual axis bucket control joysticks and functional switch panel*

Brake switches match real machine cab controls

Configure the swing to be operated by either the pedals or the joysticks to match specific dragline models on site.
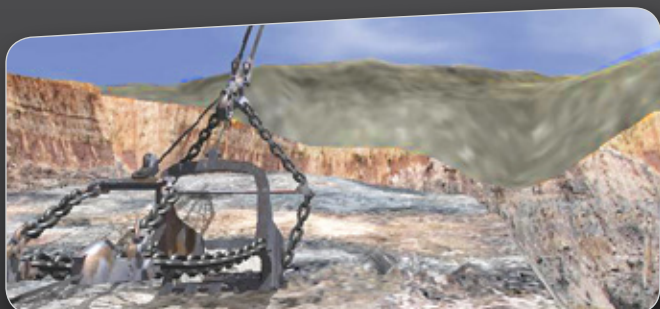

Simulated radio module and switches

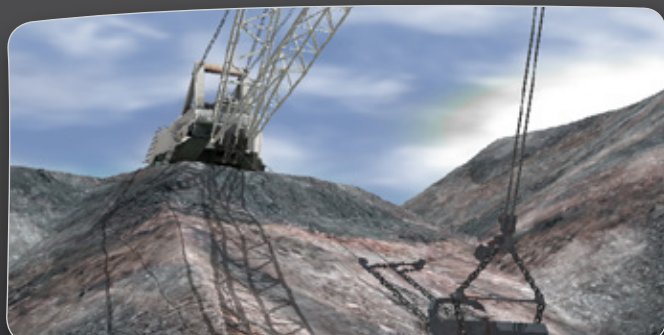*Special view switches provide additional training assistance*

Conversion Kit: DL35 & DL49
Released: Feb 2006

NB: Seat & Base not included.

Startup/Shutdown Procedures

Digging Scenarios

Innovative Simulator Training Software

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

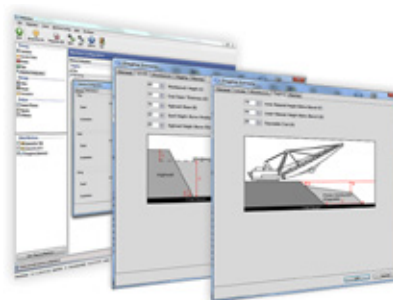Operator errors and events include a focus on the following areas:

- Maintenance Reduction
- Jewellery Breakage
- Cable Management
- Productivity
- Site Safety Procedures
- Bucket Management

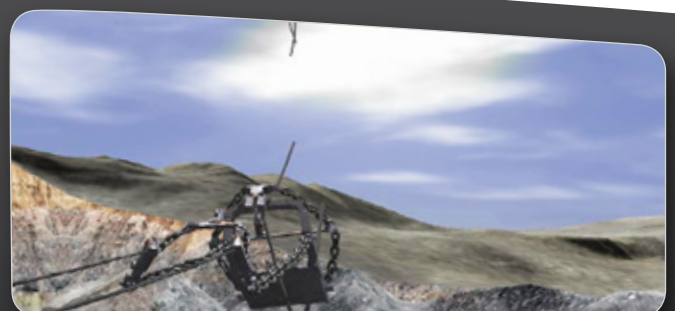## Tunable Dynamics and Site Configuration

SimControl provides the ability to adjust the performance characteristics of the dragline including swing, hoist and drag performance. The work area on the site can also be configured to match site specific terrain and individual training objectives.

SimControl allows trainers to change settings for the:

- Workbench
- Highwall and Batter Angle
- Spoil Piles
- Prime Overburden and Coal Seam
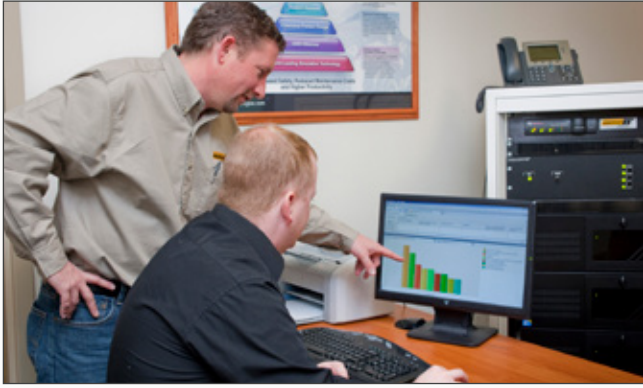- Keyway and Shotline

SimControl
IMMERSIVE TECHNOLOGIES

CONVERSION KIT® COMPATIBLE WITH
PRO4 IM360
LX6

Dumping Scenarios

Emergency Scenarios

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.
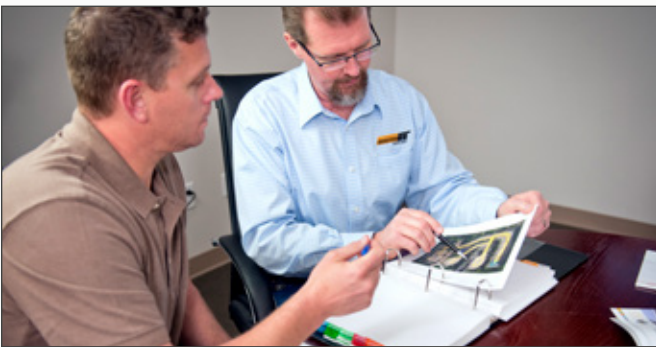

Support where and when you need it

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 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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