3D-DIG
Flexible 3D Mining Process Simulation Solution

OVERVIEW

Accurately validate short term mine designs and schedules – the unique 3D-Dig technology achieves this by performing a detailed simulation of the digging process for draglines, truck/shovel and bulldozer operations. Used in conjunction with Studio OP, Datamine’s complete design and scheduling package, 3D-Dig can deliver a feedback loop in the planning cycle that improves decisions and schedule compliance. This detailed modelling can greatly reduce the risk of poorly estimated mining rates or issuing excavation plans with impractical extraction sequences, meaning productivity and results are heightened.

WHO USES 3D-Dig
• Mining Engineers
• Mine Rehabilitation Specialists
• Environmental Consultants

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3D-Dig Benefits

☑ Enhanced Communication
Highly effective communication tool for both corporate and field communications.

☑ Flexible System
Flexible modelling system allows for detailed simulations that conform to a schedule.

☑ Detailed Animations
Detailed animations are produced to easily show fleet productivity for draglines, truck shovel and dozer systems.

3D-Dig Modules

Automated & Excavation Sequencing
Allows complex schedules to be automatically excavated and optionally dumped. Large excavations are automatically subdivided into small increments.

Truck & Shovel Simulation
A sophisticated modelling system which accounts for truck dynamics, haul routes, loader productivity, equipment availability and planned downtime.

Environmental Reshaping
The post mining topography can be reshaped in a manner that conforms to design slope criteria, balances cut and fill and minimises transport distance.

Dragline Simulation
Allows both detailed and approximate modelling of dragline operations. Each major dig step is modelled in a manner that conforms to the limitations of the dragline geometry.

Bulldozer Simulation
Simulates a large range of options for excavating and transporting material using specified bulldozers and an optimum method is identified.

Dragline Truck Shovel Integration
Rapidly simulates multiple strips of dragline operation producing a pre-strip horizon and spoil profile for each strip.

BOOK A DEMO
To book a free demo of Datamine’s 3D-Dig, contact your local Datamine office.

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