MINESCAPE

Extensive Geological Modelling & Mine Design

OVERVIEW

In an industry of increasing pressure to continually maximise output from existing operations, MineScape helps meet this challenge with its secure database, advanced geological modelling and comprehensive mine planning and design capabilities.

With a suite of integrated solutions designed for both open pit and underground mines for coal and metalliferous deposits, MineScape is a mining focused 3D CAD system supporting custom programming and reporting. It provides an easy to use and functionally rich interface designed to create professional graphic design outputs in both 2D and 3D PDF formats - greatly enhancing the visualisation and communication designs using Adobe Reader.

WHO USES MINESCAPE?

- Mine Planning Engineers
- Mine Design Engineers
- Drill and Blast Engineers
- Geologists

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KEY HIGHLIGHTS

- Simultaneous multi-user environment allowing access to all 3D data & models over networks.
- Advanced CAD features.
- Sophisticated 3D graphics engine.
- Complex stratigraphic modelling functionality including reverse faulting.
- Integration of the geological database with modelling & the 3D graphics environment.
- Sophisticated drill & blast design tools.
- Surface/stratigraphy-bound block model interpolation.
- Volume & reserves calculation.

GEOLOGICAL MODELLING MODULES

Geological Database (GDB)

GDB stores downhole survey, lithology and quality data whilst also producing standard, summary and custom, user-defined reports. It graphically displays data such as lithology, intervals, downhole geophysics as well as allowing geologists to conduct correlations, compositing, washability calculations and classic 2D geostatistical studies.

Stratmodel

Stratmodel empowers geologists with the ability to complete stratigraphic modelling of inherently complex environments. Stratmodel’s advanced structural capabilities enable accurate and detailed understandings of subsurface structures influencing the deposits.

Block Model

Block Model has the ability to efficiently and accurately model both stratified and non-stratified deposits using conventional and industry standard block modelling tools and processes. Users can generate models and interpolate geological data to develop wireframe solids as well as export to 3rd party optimisation engines.
**SPECIALISED MODULES**

**Underground Coal**
This module quickly produces and tests short and long term plans for longwall and room & pillar mine designs. It then visualises and manipulates these designs at any stage of the plan development using MineScape’s interactive 3D CAD suite.

**Schedule**
This powerful and customisable scheduling engine enables mine planning engineers to optimise their mining methods and sequences by providing material movement and machine activity forecasts for short and long-term operations, delivering better predictability and reliability with respect to tonnage and production outputs.

**Ring Design**
A purpose-built module for underground metals mining operations, it has the ability to create designs for block caving operations, long-hole and cut & full stope mining methods. Design parameters can be replicated and semi-automated through the use of templates saving time and resulting in accurate, repeatable designs.

**Pit Optimisation**
A simple, easy-to-use solution to delineate an ultimate economic pit shell. Pit Optimisation utilises the power of MineScape’s advanced CAD suite while directly accessing MineScape block models to simplify the pit optimisation process.
MINE DESIGN & PLANNING MODULES

Open Cut
Open Cut allows mine design and planning engineers to generate and test mine designs for short-term production operations and long-term feasibility studies. Engineers can also interactively design haul roads in 3D and determine cut and fill requirements for mass balancing and optimisation.

Dragline
MineScape’s Dragline module allows mine design engineers to apply a variety of burden movement techniques including pre-strip, cast blasting and production earthworks to simulate the execution of total pit burden removal strategies.

Drill & Blast
The Drill & Blast module provides drill and blast engineers with sophisticated tools to quickly lay out an optimum blast pattern, project blast holes to surfaces, and renumber, resequence and export hole layout reports to GPS-equipped drill rigs. It can also produce plans showing blast exclusion zones for simple communications around operational blasting.

BOOK A DEMO
To book a free demo of Datamine’s MineScape, contact your local Datamine office.

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