

MineScape Drill & Blast

MineScape Drill & Blast provides an interactive 3D CAD environment for optimal blast layout.

MineScape Drill & Blast provides the blast design engineer with an interactive 3D CAD environment within which an optimum blast can be quickly laid out, and the holes projected to the surfaces. Hole layout reports can be exported to GPS-equipped drill rigs. Drill & Blast is integrated with MineScape to produce quick blast exclusion zones.

The features

2D pattern

Creates drill patterns in 2D to fill the proposed blast. The resultant pattern can be modified and fine-tuned using MineScape's CAD system.

2D to 3D

Projects holes into 3D according to projection rules including azimuth and declination, depth limits (including geological units minus stand-off) and the effective blast volume of each hole generated. Drill & Blast has direct access to all design parameters including geological models, current pit survey and proposed pit design.

Decks and delays

Inserts decks, delays and other named points into holes, both automatically during the hole generation process (from named explosive column definitions) or interactively through the manual charging option.

Charging

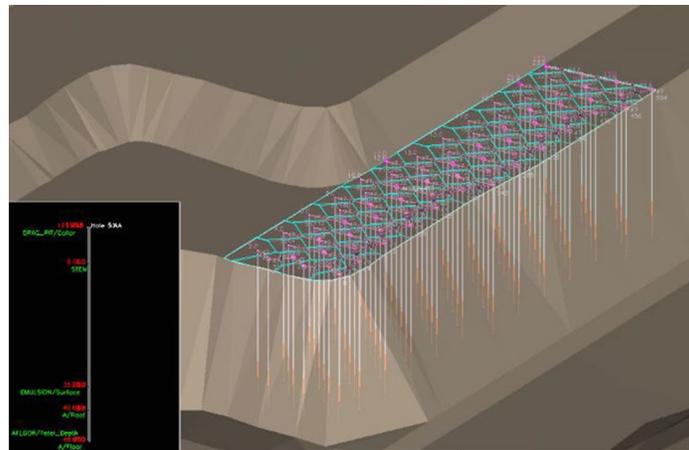
Employs the concept of an explosive column to calculate charging on a variety of bases. Powder factors may be specified by both blast and blast holes. The system will recalculate column definitions to honor specified powder factors. Interactive modification of the charged holes is supported through specialized CAD functions.

Detonation

Defines and modifies initiation sequences in plan, and calculates the resultant peak particle velocity. Detonation times for each hole are calculated and graphically displayed. Special report graphics facilitate the identification of detonation time by hole. Graphical displays also allow interactive editing of delays with insufficient time separation.

Output reports and layouts

Generates charge sheets, full consumables (surface and downhole) reports and survey layout instructions in plot form or as digital instructions to a field recorder or GPS based drill monitoring



system for the optimized blast. When required, the actual positions of drilled blast holes can be reloaded directly to the blast from survey entries and stored to fulfill legal requirements.

The benefits

Productive

Decreases the time required to design new blasts while improving reliability and control over layout and charging.

Auditable

Complies with requirements for PPV calculations and enables the ready tracking of consumables and results against a plan.

Optimized

Provides the capability to quickly test and verify a range of charging and pattern options to determine optimum design including PPV and powder factor.

Integrated

Creates designs from current survey/ mine plans, utilizing the geological model and outputs directly to survey data recorders and/or board drill systems. There is therefore no possibility of errors from data currency or transcription.

Flexible

Provides total CAD directed control over every aspect of blast pattern charging down to individual hole components.

Comprehensive

Includes a full range of standard plots and reports, plus the ability to configure site- specific output.

Accurate

Integration with MineScape geologic modeling ensures that drill and blast designs reflect actual geology.

Contact us

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