

MineScape Schedule

MineScape Schedule delivers complex scheduling and CAD-based technology with production-proven functionality.

MineScape Schedule optimizes the mining method and sequence by providing forecasts of material movement and machine activities for long- and short-term operations. It is the production scheduling product in daily use at some of the world's largest mines.

The features

Block database

Defines and associates attributes and assigns material types to form the base framework for schedule definition, accumulation and appraisal. MineScape reserves are directly available. A powerful spreadsheet-like block database defines the resources to be manipulated throughout the schedule.

Models

Consists of sets of rules according to how material can be mined, how equipment interacts and how ore is blended. These rules also identify what should be highlighted to the scheduler as warnings, under what conditions and why.

Mining equipment definitions

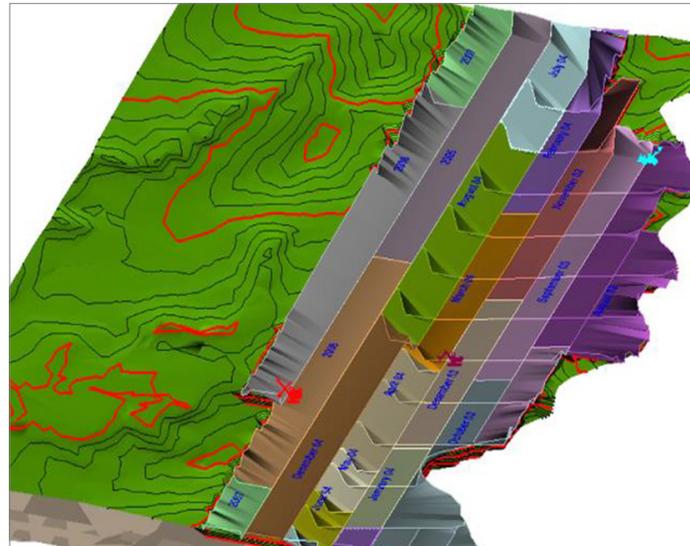
Includes production rates, performance criteria and availability calendars. Equipment performance can be a function of mining conditions, moderated by availability and productivity considerations, or simply read from a table of measured performance.

Schedule time

Defines detailed shift rosters for each piece of equipment (including scheduled maintenance and crib breaks) for short-term planning or by using a user-structured calendar of equipment availability.

Interactive mining

Corroborates designs immediately by interactively mining the 3D representation. This is aided by visual cues such as shadings by grade/quality ratio, current face positions highlighted within the 3D surveyed mine image and any other MineScape output, such as contours and 3D wireframes of the design. Face strings are automatically updated as mining progresses. Alternatively, batch scheduling and targeting using predefined sequences of mining may be used to quickly rank a choice of mining scenarios.



Time slicing

Simulates detailed mining operations using a technique that advances all active operations and activities concurrently, through a user-specified time slice, eg, one shift. The feasibility of a mining plan, considering inter-equipment dependencies and possible contention, may be fully evaluated.

Material destinations

Models true material flow by assigning destinations to each unit of material being mined. Stockpiles may be managed, blending alternatives studied, and dumping plans (including pit backfilling) generated.

Output

Presents schedules in a variety of forms including bar and Gantt charts, reports of any prescribed content and format, and plan or 3D plots shaded by time.

Backtracking and undoing

Allows complete freedom to experiment with various "what-if" type scenarios.

Tasks

Delineates mining sequences into tasks that may be loosely associated, before scheduling, to define the order of mining, priorities and inter-dependencies.

The benefits

Comprehensive

Provides both a scheduling language and runtime system in which models are built and operated for each mine site's particular set of scheduling requirements. Models can be progressively updated as and when required to meet additional needs.

Flexible

Enables ready evaluation of multiple design and scheduling scenarios. A wide range of scheduling options is provided, from the purely interactive graphical scheduling of a design, to spreadsheet-like creation and manipulation.

Integrated

Assimilates design and scheduling to provide a powerful planning environment. Direct 3D display of a schedule is available in conjunction with the design and survey.

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