MineScape
Dragline

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MineScape Dragline is a CAD-oriented dragline modeling product that enables engineers to define and test dragline excavation methods on real pit models, quickly and efficiently. The product includes functions to simulate and measure a wide variety of material movement methods including cast blasting and production dozing. These functions allow operations in the pit to be faithfully modeled. Dragline is the best tool for computer-based dig optimization, allowing engineers to test new excavation quickly against real data.

The features
Integrated
Draws its information regarding topographic and stratigraphic surfaces directly from MineScape models. These can be simply sketched-in planes and/or sections approximating geology, or real geology as defined by both pit survey and drilling through MineScape Stratmodel.

Operating parameters
Defines and saves physical operating parameters of any dragline to build a database of available units. Material characteristics such as swell can similarly be assigned to each stratigraphic unit.

Cross-sectional approach
Enables the interactive definition of an excavation method as a sequence of steps using CAD functions. This automates virtually every movement process to display resultant cut and spoil geometry, while managing volume conservation.
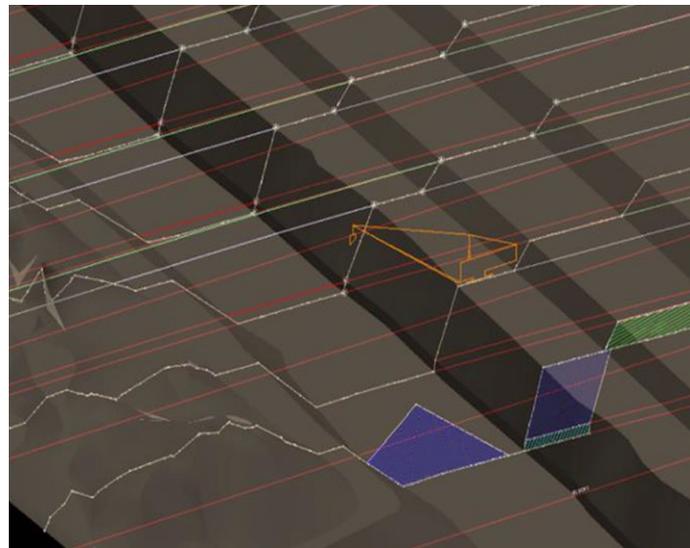
Replays
Once defined, replays as a full spoiling simulation on multiple sections to produce the 3D surfaces that will result from multi-pass mining of a pit. Pre-established methods can be used on any section. Use replay tools to assist in the optimization of rehandle.

Optimization
Allows engineers to design, test and refine casting methods for given equipment to optimize spoiling strategies. It can also be used to define equipment characteristics for particular operations by comparing the productivity of a range of hypothetical draglines over a given set of mine plans.

Reclamation
Produces reports for the simulation of prime and rehandled material moved by productive unit as base data for production scheduling. It also generates 3D surfaces that form the starting point for reclamation planning. Standard range diagram sections that are fully dimensioned and are optionally annotated with volumetric details may also be produced.

The benefits
Reality-based
Works on real geology as well as hypothetical simplified sections.

Integrated
Performs dragline design using geology, pit planning, survey and scheduling data. Accepted excavation designs (eg, drill and blast of burden, reclamation of spoil) are immediately available to other planning staff and to surveyors for field layout without any need for transcription or modification.

Comprehensive
Has no limit to the level of sophistication or number of methods that can be defined and saved for reuse.

Instructive
Includes an extensive range of output to assist both dragline engineers and dragline operators to achieve the design goals.

Accurate and productive
Saves time and money, while offering the capability to optimize future operations. In the current pit, dragline engineer planning time is reduced and the accuracy of results is ensured. The saved planning input can be applied to developing and testing alternative excavation models to provide the real future benefit.

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Enterprise Software

North America:
+1 678 830 1020
+1 800 868 0497 from US and Canada

Latin America:
contacto.lam@cl.abb.com

Europe, Middle East, Africa:
+44 1483 794080
+33 164 869 910

Asia Pacific:
+61 7 3303 3333

www.abb.com/enterprise-software
info.pges@abb.com

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