

MineScape Ring Design

MineScape Ring Design helps optimize blast design for success in precious metals mining.

MineScape Ring Design provides an interactive 3D CAD environment to create underground ring design, drill and blasting. The plugin is purpose-built to meet the specific needs of underground metals mining and allows the design of various methods of underground mining. Styles supported include, but are not limited to, block caving, long-hole and cut & fill stope mining methods. Design parameters are specified through templates resulting in accurate, repeatable designs. Standard MineScape tools are provided and Ring Design is fully integrated with all other MineScape plugins.

The features

One-step orebody preparation

Wireframes and drive designs are initially created by the engineers and geologists. Ring Design provides tools to quickly slice these triangulations in preparation for the ring blast design. Several sub-domains may be created from a single ore body outline.

Intuitive blast hole design

Both angle and distance methods are catered for with blasthole spacing. Easy-to-use tools are provided to allow for standoff or overdrill. In addition, the module has simple and intuitive blasthole editing functions.

Accurate rig position

Predefined rig offsets that are editable and moveable in CAD are used to define the rig position. Multiple rig positions are allowed in each drive.

Straightforward charging tools

Various charging algorithms are provided to calculate charge patterns. The charge lengths are displayed graphically to quickly visualize and optimize.

Effortless delay allocation

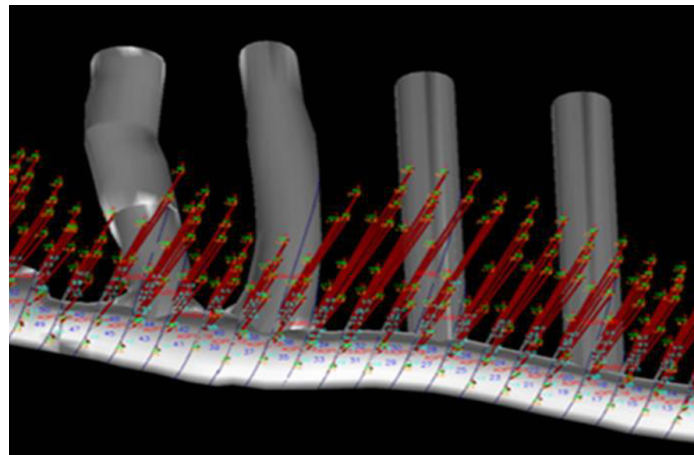
Blast hole delays are assigned automatically based on user defined parameters.

Blast summary

A blast summary may be created for one or more blast rings. The summary may include, but is not limited to, blast volumes, average blast hole lengths or total charged blast hole lengths.

Reporting

Generate reports of all elements contained within a blast ring. Several formats are provided.



Undo facility

Design steps may be undone at any stage within the design process.

Repeatability

All parameters used in the design are stored and may be used again at any time. In addition, once a ring design is created, it may be kept as a template and applied to multiple sections.

The benefits

3D visualization

All designs are easily visualized in the 3D view and any additional CAD data may be displayed alongside to assist with the design.

Fully integrated

Ring design functions interact seamlessly with the MineScape data management tools and other MineScape modules.

Flexible

User-defined parameters may be used for site-specific requirements.

Easy to use

The tools used are intuitive and time to learn is minimal.

Fast and accurate

All designs are based on site survey and geological data. As the module is fully integrated within MineScape, the most up-to-date data is used. The design process rapidly refers to the relevant information and generates the design using the parameters provided.

Automatic generation

The user can regenerate new designs automatically, using predefined templates.

Contact us

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