

MINESIGHT® 3D

CREATE, MANIPULATE, AND VISUALIZE YOUR PROJECT DATA

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OVERVIEW

MineSight 3D provides interactive display, editing, and plotting of all types of data including drillholes, blastholes, composites, models (3D block, stratigraphic, and surface), survey data for open pit and underground, geological interpretations, topographic contours, and gridded or triangulated surfaces.

MineSight 3D has sophisticated interpretation tools for geologists, full 3D design for underground mine layout, CAD editing of polylines and solids, full 3D solid/solid intersection logic, efficient triangulation functions, visualization of all types of geological and mining data, plus intuitive plotting.

D A T A S H E E T

KEY POINTS

- ⊙ 2D, 3D, Fence Diagram Displays
- ⊙ CAD functions
- ⊙ Cut design
- ⊙ Surface gridding
- ⊙ Geomap functionality
- ⊙ Blast Pattern design
- ⊙ Ring design
- ⊙ Ramp design
- ⊙ Intuitive plotting
- ⊙ Triangulation
- ⊙ Geotech drillhole display
- ⊙ Grade value contouring
- ⊙ Ore percentages and reserves
- ⊙ Cut Generation
- ⊙ Pit/dump design
- ⊙ Scripting
- ⊙ Superior intersection functions
- ⊙ Data attribution
- ⊙ Drillhole coding and spearing
- ⊙ 3D Block and Stratigraphic modeling
- ⊙ Short and medium term planning
- ⊙ End-of-period maps
- ⊙ Shaft/drift design

KEY FEATURES

- > Display
 - Full 3D graphics display of:
 - Drillholes
 - Models (3D Block, Stratigraphic, Surface)
 - Geometry
 - Points
 - Polylines/polygons
 - Surfaces
 - Solids
 - Text
 - Geologic interpretations
 - Mine designs
 - End-of-period advances and as-builts
 - Survey data, topography, pickups
- > Instant 2D display of all data
- > Simultaneously display multiple data views
- > Rapid loading/unloading from the viewer
- > Unique snapping modes
- > Powerful query functions
- > Proximity reporting between drillholes and geometry
- > Fence Diagram display of drillhole and geometry data
- > WYSIWYG plotting with customizable legends and title blocks
- > Place photo overlays on surfaces
- > Fill drillhole intervals, polygons, and surfaces with customizable geologic patterns
- > Geotech display of drillhole data (rose diagrams, histograms, color strips, dip meters)
- > Display models in 2D or 3D as surfaces, blocks, polygons, or contours
- > Display exposed ore on a surface
- > Visualize output from all MineSight products
- > Customizable status bar properties
- > Instant display of previously defined viewer orientations
- > Start with saved views using project maps

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MORE KEY FEATURES

> Geometry

- Complete suite of CAD editing tools for geologic interpretation and mine design
- Geometry data can be attributed with user-defined attributes
- Surface size is unlimited
- Digitize geometry
- Create
 - Drift solids
 - Contour lines
 - Isopachs
 - Solids out of polygon contours
- Automatic cut design targeting on Tonnes, Volume, or Distance
- Intersect lines, surfaces, and solids with powerful Boolean operators
- Clip geometry
- Triangulate surveys to create surfaces
- Drape points and lines to surfaces
- Compute volumes of solids or between surfaces
- Import/Export
 - ASCII Survey (free format, CSV, GSI)
 - DXF
 - ArcView Shapefiles
 - Other vendors (Gemcom, Vulcan™) (import only)

> Drillholes

- Extensive drillhole design and management functions
- Coding/spearing by polygons or solids
- Contour grade values
- Create surfaces from drillhole data
- Filter drillhole data

> Modeling

- Both block and stratigraphic modeling
- Rotated models
- Grade shells
- Coding from polygons, solids and surfaces
- Contour grade values
- Grid surfaces to model and vice versa
- Model data can be filtered

> Geology Tools

- Geomap Tool
- True Thickness calculations
- Ore percentage and reserves calculations
- Design drillhole paths based on geology

> Design Tools

- Open pit Blast Pattern design
- Cut Generation
- End-of-period maps
- Underground Ring design
- Pit/dump geometric design
 - Automatic expansion with multiple benching
 - Complex slopes or slopes based on wall azimuth
 - Switchback tools
- Shaft/drift design
- Vertical Opening Tool
- Ramp design

> Planning/Scheduling

- Fully integrated with the MineSight Planning Database
- MineSight Interactive Planner is embedded in MineSight 3D
- MSHaulage is integrated into MS3D via plug-in technology
- Visualize end-of-period data from MineSight Interactive Planner and MineSight Strategic Planner

> Scripting/Automation

- Closely integrated with MineSight Compass
- Run embedded scripts to automate selected processes

> Easy to Use

- Straightforward data organization
- History and Undo/Redo functions
- Audit file
- Customizable menu



Mintec, Inc. | Tucson, AZ USA | 520.795.3891
www.minesight.com