

## Mincom Intelligent Mining Solution

# Mincom MineScape



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### The Industry Challenges

Rebounding from relatively low levels of capital investment and exploration spending, many mining companies are striving to achieve production targets to maximize returns. These companies are under pressure to increase output from existing mines and bring new projects on line. A key element in the drive for increased production and improved efficiency is mine planning and modeling. With its mine design, geologic modeling and geologic database capabilities, Mincom MineScape mine planning software can help you meet the challenge.

### The Solution

Specifically developed to meet the mining industry's rigorous demands, Mincom MineScape is used at more than 200 of the world's most complex mining operations from nickel mining in Russia to coal mining in Indonesia.

Mincom MineScape is a suite of integrated solutions designed for open cut and underground mining operations for coal and metalliferous deposits. It delivers extensive geologic modeling and mine design functionality—making it the leading mine planning solution globally.

Incorporating many features, Mincom MineScape offers exceptional ease-of-use through:

- A Graphical Task interface (GTi), which seamlessly merges MineScape's various functions.
- Intuitive familiar working environment.
- True simultaneous multi-user access to all 3D data and models.
- Advanced 3D CAD support.
- MineScape Explorer to browse projects and manipulate data.
- Multi-user support in a network environment.
- Complex stratigraphic modeling functionality including reverse faulting.
- Integration of the geologic database with modeling and the 3D graphics environment
- An ability to replay dragline simulation.
- Surface-following for block model interpolation.
- Volume and reserves calculation.

### Products

**Core MineScape.** Mandatory for all Mincom MineScape products, Core MineScape comprises a fully-integrated, mining-based 3D CAD system.

Supporting custom programming and reporting, it provides a comprehensive mining-oriented function library including surface manipulation, gridding, transaction and spreadsheet management facilities. It also enables direct viewing of AutoCAD ESRI shape files and comprehensive plotting functionality.

**Block Model.** Perform efficient and accurate 3D modeling of non stratigraphic deposits using MineScape's in-built CAD system to view and manipulate the models. Generate 3D deposit models with interpretation of geologic data for definition of wireframe solids and export to third party optimization tools such as Whittle 4D.

**Geologic Database (GDB).** Store downhole survey, lithology and quality data, produce standard, summary and user-defined reports and graphically display the downhole data. GDB displays lithology, intervals, geophysics and correlation and contains specialized compositing and washability functions.

**Stratmodel.** Perform complex stratigraphic modeling functions including reverse faulting. Interactively manipulate 3D models including rendered displays in any orientation.

**Dragline.** Apply a variety of burden movement techniques including pre-strip, cast blasting and production dozing to simulate the execution of total pit burden removal strategies.

**Drill & Blast.** Use the interactive 3D CAD environment to quickly lay out an optimum blast pattern, project holes to surfaces and export hole layout reports to GPS-equipped drill rigs. Drill & Blast is integrated to produce quick blast exclusion zones.

**Roads.** Design haul roads interactively in 3D. Determine cut and fill requirements for mass balancing and optimization. Automatically generate reports for survey and construction personnel in graphical or text formats.

**Open Cut.** Generate and test mine designs for short-term production operations and long-term feasibility studies. Use MineScape's 3D CAD tools to visualize and graphically interact with the design at any stage.

**Survey.** Generate survey instructions automatically from mine plans. Input survey results from the field, recorder or field book directly into the MineScape database. Generate production reports and plans and use the database information for further short-term planning, reclamation and reconciliation.

**Schedule.** Optimize the mining method and sequence by providing forecasts of material movement and machine activities for long- and short-term operations.

**Underground.** Quickly produce and test short and long-term mine designs. Visualize and manipulate a design at any stage using MineScape's interactive 3D CAD tools. Incorporate the latest available information, i.e. recent drilling and survey data, into the design.

## The Benefits

Mincom MineScape allows you to achieve optimal efficiency in your mine planning operations, lowering costs, maximizing mining operations and saving valuable time. Designed to automate mine planning and geologic analysis, it streamlines your engineering processes, improves your productivity and increases your profit potential.

Mincom MineScape is the mine planning component of Mincom's Mining Solution, which is the most comprehensive and effective IT solution for the mining industry. The Mincom Mining Solution seamlessly integrates information flows between all mining activities and lowers mining costs through smarter use of technology and information management systems.

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Mincom is a global software and services provider that delivers solutions critical to businesses in asset intensive industries such as mining, defense, public infrastructure, energy, and oil and gas. Leveraging 30 years of deep experience in these industries, Mincom thrives on helping our customers successfully optimize the performance of their assets, their people, and their businesses as a whole.

With a global reputation for technical excellence and a team of knowledgeable and passionate people,

Mincom goes where no other solutions provider goes: to the ends of the earth to deliver solutions that integrate business processes, improve insight into operations and reduce costs for our customers. Spanning more than 40 countries across North America, South America, Australia, Asia, Africa, and Europe, Mincom solutions run some of the world's largest private and public enterprises.

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