

Uncover the story of your geological data in 3D

Prospect smarter

Model faster

Estimate with greater confidence



Integrate, validate, interpret and communicate critical mineral resource data with state-of-the-art geological tools spanning from early exploration through to resource evaluation.





Micromine Origin equips exploration geologists with comprehensive, flexible and powerful tools to target and assess prospective regions more efficiently.

Plus, rapidly translate geological knowledge into complete models using streamlined tools that don't sacrifice quality or control. Resource Geologists can carry out complex estimates with confidence using one of the most comprehensive resource modelling solutions on the market.

Accelerating informed, strategic and data-driven geoscience decisions.



Elevate your experience

Easy-to-use, intuitive, streamlined, organised and customisable functionality.



Built for Big Data

Rapidly edit and visualise datasets with up to 15M spreadsheet rows and 10M data points.



Cut the conversion time

Avoid long and risky file conversion with compatibility for 70+ file formats and 25+ commonly-used apps.



Expansive GIS capabilities

Coordinate conversion, polygon assign, string and point utilities, online imagery and annotation.



Rapidly build reports from results

Impress stakeholders with stunning 3D and 2D annotated project visuals, intuitive and flexible plotting spaces and purpose-built chart presentation tools.

Exploration

Navigate challenging exploration scenarios confidently with tools to make smarter, more informed decisions. Enjoy superior graphics capabilities, innovative drillhole management, robust analytical and modelling tools, advanced statistical and geostatistical functionality, and support for an expansive array of file formats.

Geological Modelling

Model and manipulate any commodity at speed using one of the most comprehensive technology suites. Enjoy implicit modelling capabilities with state-of-the-art algorithms to model grade shells, lithology boundaries, faults and surfaces.

Resource Estimation

Produce precise resource analysis and reports in a fraction of the time for hard-rock or stratigraphic deposits. Incorporate data from numerous systems to critically review and validate drillhole data, topography, geological structures, mineral solids and more.



Key product features



Drillhole and surface data management



Analyse, model, estimate and assess spatial data



Visualisation of 2D, 3D and downhole geophysics data



Fast, reliable and comprehensive implicit modelling



Interactive and flexible 3D modelling



Powerful 3D GIS capability



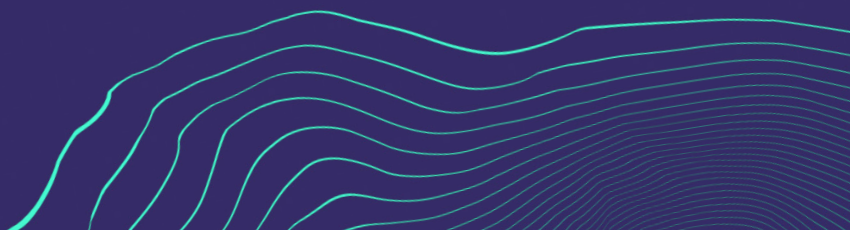
Customisable and dynamic workspace configuration



Stunning plotting, charting and reporting tools



Localised language and support





micromine
origin

Offerings

For Explorers

Start your exploration activities using the best tools on the market to identify target areas quickly.

For Geology Modellers

Create and manipulate your geological model using the best-in-class implicit and explicit toolkit. Then perform detailed statistical and geostatistical analysis of the data.

For Resource Modellers

Build, manipulate and estimate your resource for any commodity using the most comprehensive suite of modelling and resource estimation tools available.

Functionality

Core
Exploration

Core
Exploration
Wireframing
Implicit Modelling

Core
Exploration
Wireframing
Implicit Modelling
Resource Estimation,
Stratigraphic Modelling

Recommended integrations



micromine
nexus



micromine
geobank



micromine
geobank



micromine
nexus

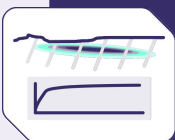


micromine
geobank



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nexus

Functionality



Core

Import, validate, process, display and interpret a wide variety of surface, drillhole and subsurface data.



Exploration

The visualisation, drillhole management, analytical and modelling tools, statistical, and geostatistical functionality needed for more advanced exploration or resource estimation projects.



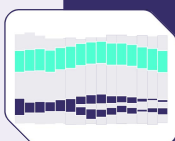
Wireframing

Build, manage and analyse 3D solids and 3D surfaces for advanced exploration, resource estimation, mining and geological modelling. Powerful and intuitive tools for visually constructing 3D models such as underground mine designs or geological interpretations, using data such as centre-lines, profile shapes or polygons.



Implicit Modelling

Model grade shells, lithology boundaries, faults or surfaces using radial basis functions (RBFs). Input 3D points, polylines, polygons or drillhole intervals to generate wireframe solids representing features like lithology units or zones of a specified grade range, or wireframe surfaces such as fault planes or surface topography. Display wireframes in a Vizex (Visual Explorer) visualisation environment, a valuable tool for finalising geological or grade interpretations, designs or geological interpretations, using data such as centre-lines, profile shapes or polygons.



Stratigraphic Modelling

Ideal for any stratified deposit such as coal, nickel laterite, tin, phosphate, bauxite, iron ore and platinum. Produce a Seam Block Model (SBM) - a highly efficient way to represent a geological layer along with all its attributes - using the unique modelling workflow. A Seam Block Model (SBM) is like a conventional block model with consistent X and Y dimensions but contains a variable Z dimension (thickness). Sub-blocks are not required; a single block defines the vertical extent of each layer.



Resource Estimation

A comprehensive range of modelling-related functions, including block modelling tools for mine planning and reserve estimation. Extend the capabilities of Vizex (Visual Explorer) for displaying, querying and interactively editing multiple data layers.



More than industry-leading geological software

Complimentary training. Take advantage of free, self-paced and instructor-led training courses on a dedicated Learning Management System (LMS).

With an extensive content library, there are plenty of workflow-focused Micromine Origin courses designed to suit every licence type and learning appetite. In addition, customised and personalised one-on-one training is also commercially available.

Local support. Access an extensive network of global service consultants to maximise the return on your software investment.

With 14 international locations and a multi-lingual team available via phone or email, we can provide support in your time zone, language, and preferred method of communication.



Subscription upgrade. Enjoy a subscription upgrade with a complimentary Micromine Nexus public cloud account.

Micromine Nexus is a data and task management platform that helps mining teams drive faster, better and more informed business decisions by upholding quality at the source.

The user-friendly web-based platform brings teams together to integrate, validate and collaborate on mining projects.

Find your perfect product fit with flexible, scalable and cost-effective subscription plans.

- Explorers
- Geology Modellers
- Resource Modellers
- Team Viewers

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