



## XPAC

### Description

XPAC has been developed specifically for calculating reserves, forecasting and mine schedule management. XPAC can model all types of mineral deposits and mining methods.

### Application

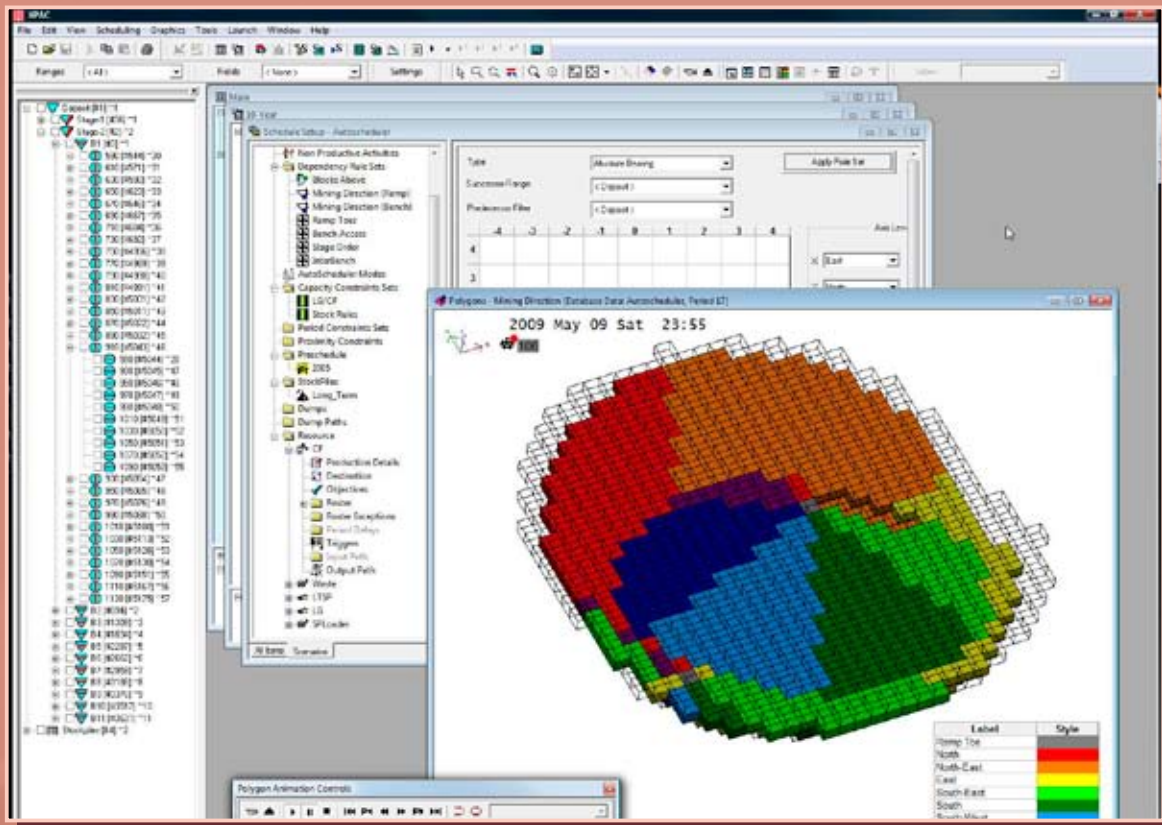
XPAC software allows easy access to view mine data — from a single reserve block through to the whole mine, and any level in between. XPAC's scheduling tools help users meet any mine scheduling challenges.

XPAC allows users to produce mine scheduling solutions that take into account the unique character of any mining operation.

### Benefits

The key benefits of using XPAC for mine scheduling include:

- Data from all major geological modelling packages is accepted
- Visual and analytical tools allow users to review data in various ways
- A data structure that can be customised to suit a specific mine's need
- A flexible calendar that allows users to create custom schedules as required
- Calculations can be completed using custom scripts
- Excellent graphic tools that allow 3D visualisation and animation
- A user-defined 'hierarchy' of data
- A logical flow of data from raw geology to mining reserves
- Tools to ensure new mining face positions can be reloaded before re-forecasting
- Validation of raw data, schedules and reports
- Various outputs from raw data, schedules and reports, including:
  - database plots
  - period progress
  - animations.



A screenshot taken from XPAC software

## About Runge

Runge Limited (Runge) is a leader in the provision of technology products, consulting services, and training courses to the global mining industry, delivering solutions and services across a range of commodities.

With expertise across a range of mining disciplines, our approach to the *business of mining* is strongly grounded in economic principles and delivering mine planning solutions that are tightly coupled with our technological support and training. Through these solutions, mining professionals gain access to technology and knowledge that allows them to optimise their business planning process. We provide expertise from corporate advisory and strategic planning through due diligence and related financial services to resource and reserves management.

Runge currently owns and operates 18 offices in 10 countries throughout the world. Our team includes Pincock Allen & Holt, Minarco-MineConsult, MRM Mining Services Pty Ltd and GeoGAS.

Runge provides people and technologies from across our global offices. We have integrated processes which ensure consistency of quality deliverables for our customers around the world. For any given project we enlist the best combination of technology and people to suit the location, commodity, scope and specialist skill requirements.

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