



## XPAC Underground Coal

### Description

XPAC Underground Coal — Runge's specialist software application for underground coal mining operations— is designed specifically for reserve analysis, mine design, production and resource scheduling.

### Application

With XPAC Underground Coal, a user can:

- Quickly generate and update mine designs
- Calculate mining reserves and other production and resource-related data
- Input and manipulate equipment productivity
- Develop mine production schedules.

XPAC Underground Coal's easy-to-learn CAD environment and custom-built tools allow the rapid development of mine designs. Some features of the design tools include:

- Ability to handle "bent" panels; easy manipulation
- Advanced capability to create regular and irregular pillar panel widths
- Simplified user variable set up using a field import wizard.

XPAC Underground Coal accepts data from all major geological seam modelling software, and it can be customised to suit standardised mine planning processes.

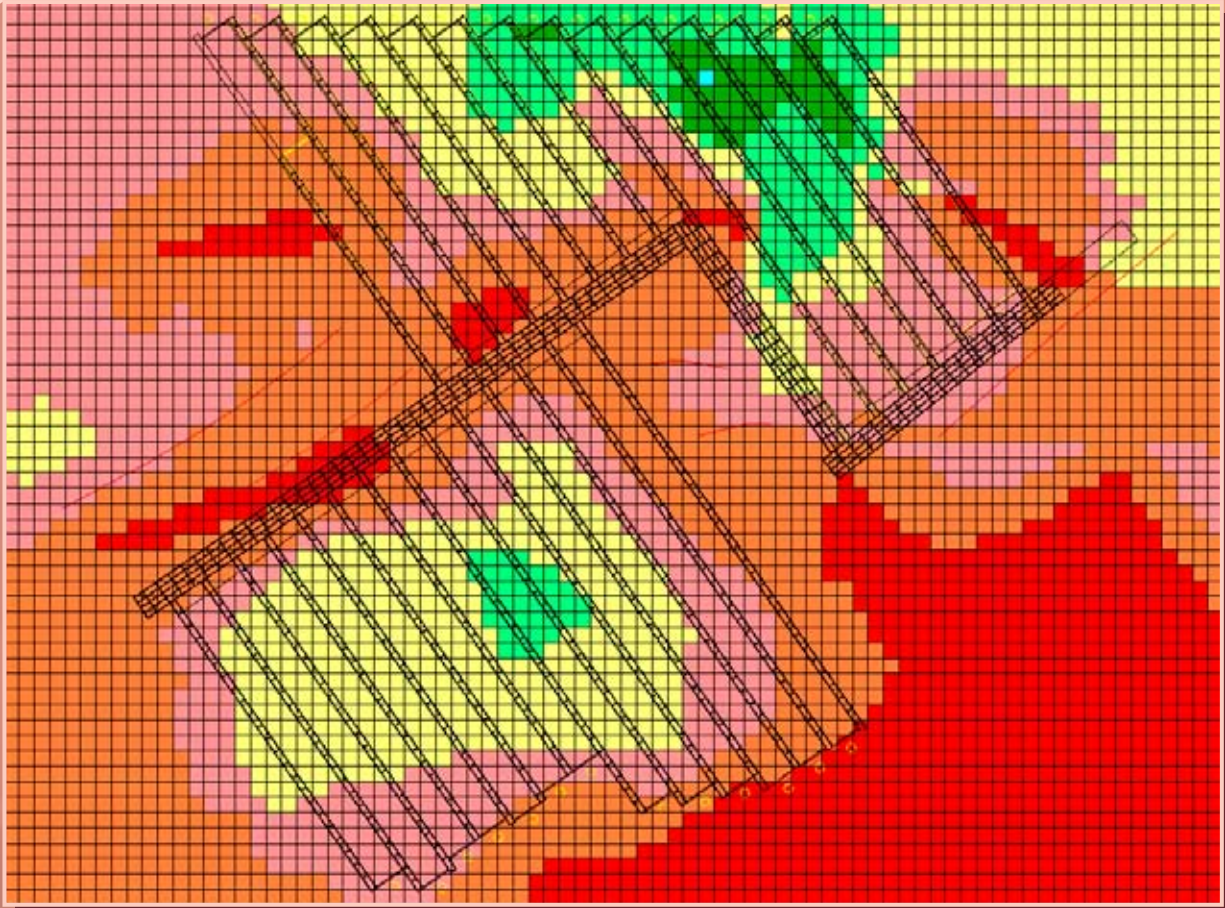
### Benefits

XPAC Underground Coal is purpose-built software, designed with a strong business analysis focus. Its benefits include:

- Detailed scenario modelling and subsequent evaluation is made easy
- Production and cost drivers of the design and underlying mining conditions data are linked
- The storage of geological grid files and physical/quality parameters allow reserves to be automatically updated as the mine design is created. As a result, geologists are freed from having to constantly re-create mining reserves for each mine design change thus eliminating the manual transfer of reserves data.
- An integrated framework which, when applied across all operations, enables consistent forecasting detail and less risk of rework
- Provision of the platform to easily undertake margin ranking processes, which determine relative mining economics.
- Generation of consistent outputs with minimum effort.

XPAC Underground Coal is the vital link from production through to Runge's cost modelling and financial evaluation tool, XERAS and is the underground coal industry's tool of choice.





A screenshot taken from XPAC Underground Coal 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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