



## FACETS - Face Time Simulator

### Description

FACETS — Runge's Face Time Simulation software — is used to simulate and optimise your existing longwall system.

Longwall optimisation considers factors such as ventilation, gas and equipment constraints, and clearly identifies bottlenecks and restrictions in the current longwall setup. By optimising the longwall with FACETS, mining companies are able to effectively plan capital expenditure for the best return on their investment.

FACETS helps decision makers to simulate alternative longwall options rapidly and transparently, and to optimise the longwall to meet organisational requirements.

### Application

FACETS is an easy-to-use structured planning and productivity modelling tool that provides a cost-effective, decision making process for evaluating longwall face operations.

Using FACETS, mining engineers can systematically investigate the configuration of key longwall components, and thus optimise the productivity of the longwall system. As a result, incremental changes to the longwall system are easily carried out, with productivity changes highlighted when outputs occur.

### Features

Some of the features of FACETS are listed below:

- Easy to implement and use
- Adds value to the decision making processes
- Accurately models current productivity and benchmarks current performance
- Comprehensively understands the complete longwall sequence and its timing
- Quickly and efficiently simulates the whole system, rather than a single component
- Allows for the input of gas and ventilation constraints that could potentially limit longwall productivity
- Provides effective communication outputs including standardised reports, graphs, and production cycle animations for:
  - management and investors
  - training and education
  - data integration into mine planning systems such as scheduling and financial forecasting.

### Benefits

FACETS has a number of benefits, a selection of which are outlined below:

- Provides for incremental optimisation, resulting in maximised productivity improvements and improved cost effectiveness
- Allows users to investigate productivity improvements and accurately forecast future productivity
- Allows users to develop productivity curves based on specific requirements for use within Runge's XPAC scheduling solution
- Automatically highlights productivity bottlenecks.



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A screenshot taken from Facets 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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