



PCSLC MODULE

A comprehensive tool for sub-level caving

The Gemcom GEMS™ PCSLC module is a tool developed specifically to meet the challenges of estimating sub-level caving projects. Using PCSLC, you can take a project from the block modelling stage through generating tunnels and rings along tunnels. You can also estimate reserves; determine variable extraction percentages for each ring; and create, analyse and report on production schedules.

Building on the success of the world's leading block caving technology, Gemcom PCBC™, PCSLC offers a powerful set of capabilities for building sub-level caving production scheduling models, including:

- Project setup.
- Generation of tunnels, including desired spacing and trimming to the orebody outline.
- Generation of rings to required shapes.
- Ability to assign grades to each ring.

- Template setup for material flow simulation.
- Sequence generation in preparation for scheduling.
- Production scheduling to include dilution modelling.
- Equipment scheduling to constrain schedule production limits.

Calibration and Past Project Experience

PCSLC has been successfully calibrated against REBOP™ (from Itasca) for two separate projects and replicated ring recoveries published for Ridgeway Mine. PCSLC has been implemented on projects for De Beers, Newcrest, and SRK.

Features

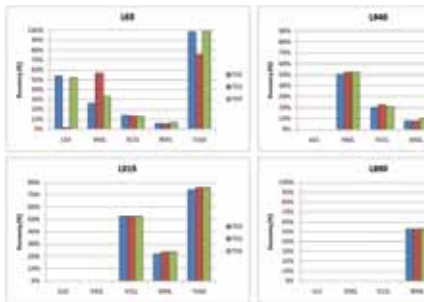
- Streamlined setup of tunnels and rings for rapid start-up.
- Capacity to handle large projects with a maximum of 50,000 rings.

Gemcom GEMS – Collaborative geology and mine planning supporting cross-functional teams.

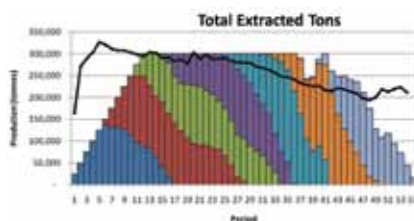
- Dilution simulation.
- Detailed scheduling constraints for advanced sub-level caving projects.
- Reporting of primary, secondary, tertiary and subsequent ring recovery efficiencies.
- Integration with GEMS and PCBC.

Benefits

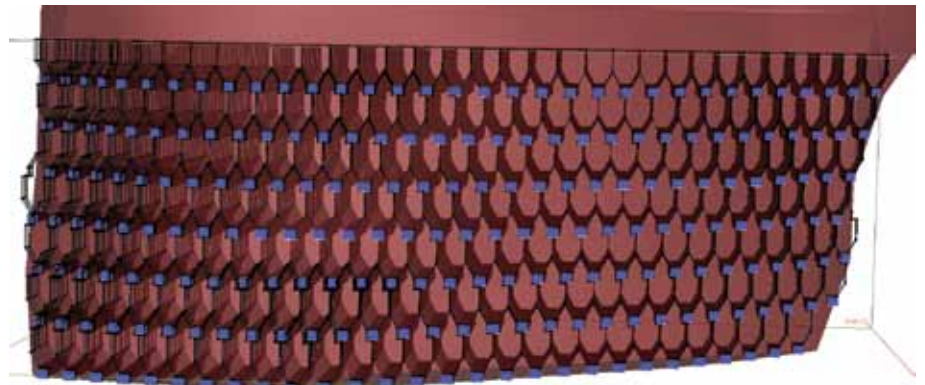
- Rapid ramp-up for conceptual studies.
- Reduced dependency on spreadsheets and non-integrated applications.
- Superior run-time performance on full-sized projects.



Ring recovery plots.



Production schedule.



Sub-level caving model.

For more information email gems@gemcomsoftware.com.

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