



# Deswik.ASD

AUTO STOPE DESIGNER

## Automatically create mineable stopes for narrow-vein vertical mining methods

Designed specifically for use in narrow vein, steeply dipping ore bodies, Deswik.ASD quickly generates detailed stope shapes that are traditionally designed manually. Working from a geological block model, the tool automates the process of generating sectional slices through the ore body.

The stope shapes are guided by numerous properties including associated development designs, stope design parameters, pillar restrictions, dilution factors and cut-off grades. Scenarios can be easily adjusted allowing alternate scenarios to be compared rapidly, letting you optimize for your best case.

Fully integrated into Deswik.CAD, output stope wireframes can be directly incorporated into the Deswik mine planning process.

### PRACTICAL RESULTS

- » Working from development layouts, Deswik.ASD slices against block models to generate section lines representing individual stopes.
- » Rapidly produces detailed stopes that are practical for narrow vein, steeply dipping deposits.

### DETAILED DESIGN

- » Consider geological constraints and incorporate design parameters such as pillar restrictions, dilution factors and cut-off grades.
- » Assign minimum footwall angles to automatically adjust design and dilution to match.

### SPECIALIZED FUNCTIONS

- » Constrain stopes to follow defined lenses in the orebody, accounting for close-spaced multiple lenses.
- » Development matching for incremental cost analysis to the extents of the ore body from a central access drive.

### VARIABLE SCENARIOS

- » Supports multiple input data sources to generate variegated stope designs in different ore zones or geological models.
- » Attributes are automatically assigned to be quickly used in the generation of a schedule.

### INTEGRATED PLANNING SOLUTION

- » Embedded in the Deswik.CAD graphics platform for effortless generation of stope outlines and solids.
- » Seamless flow into Deswik.Sched via Deswik.IS for rapid analysis of scenario results.