



Deswik.AdvUGM

ADVANCED UNDERGROUND METALS

Advanced functionality tailored to the specialized demands of underground metals operations

Developed in direct response to the needs of our customers, Deswik.AdvUGM adds functionality across the Deswik software suite. Continually updated with the latest releases from our development pipeline, this module enables your mine planners to do more effective, more detailed and more value driven planning. Unlocking advanced design and scheduling features for both long and short term planning, the module includes:

- » Underground Tabular Design Toolbox and Auto Development Designer for rapid development layouts
- » Easy development and stope reconciliation tools for compliance auditing
- » Backfill design and reconciliation including slump calculations
- » Advanced scheduling functions including backwards pass resource leveling, objective targeting and resource path importing.

Deswik.AdvUGM can be used with either Deswik.CAD or Deswik.Sched or a combination of both.

AUTO DEVELOPMENT DESIGNER

- » Uses rule-based processing to rapidly layout development and panels for underground mining operations.
- » Automates standard polyline manipulation tools and formula based attribute assignment.

UNDERGROUND TABULAR DESIGN TOOLBOX

- » Design toolbox developed specifically for repetitive underground designs in tabular-style deposits.
- » Generates development layouts relative to defined geological models.

PROCESS CMS

- » Import CMS polylines or triangles and stitch them together to create a closed solid.
- » Rapidly generate shells around CMS point cloud data.

AS-BUILT RECONCILIATION

- » Detailed reconciliation between as-built and design solids from a 3D perspective for development or stopes.

- » Report out dilution, overbreak and underbreak from hanging wall, footwall, sides, crowns and toes.

BACKFILL PLANNING AND RECONCILIATION

- » Generate staged backfill solids based on material characteristics and fill volumes from nominated fill points on a 3D stope void solid.
- » Reconcile actual fill amounts against required fill and determine void locations.

ADVANCED RESOURCE LEVELING

- » Access to features such as backwards pass leveling, multi-field or sink rate targeting and time usage models.
- » Short-term manual scheduling via interactive resource paths or import resource paths from other packages.

CALCULATE STEREONETS

- » Import strike azimuth and dip data to generate geotechnical stereonets directly in the Deswik.CAD design space.
- » Supports Schmidt, Wulff, Rose and observation diagrams.

INCLUDES DESWIK.SVIZ (SCHEDULER VISUALIZER)

- » Embedded 3D visualizer for Deswik.Sched.
- » Utilizing a dockable interface, it provides interactive viewing and animation of mine designs, sitting side-by-side with the schedule tasks.

TUNNELS BY VARIABLE SECTION

- » Tunnel creation tool that uses chainage based rules to allow a tunnel to have variable profiles
- » The tool has 3 different rule sets available:
 - Primary X-section rule – this allows the user to change the profile of the tunnel as required
 - Secondary X-section rule – allows the user to insert repetitive changes to tunnel profile ie. safety bays, Fresh Air bases, electrical cut outs etc
 - Excavation Rules – allows the user to dice up any tunnel profile into excavation segments that will be excavated, ie. top bench, bottom bench, wall stripping etc.