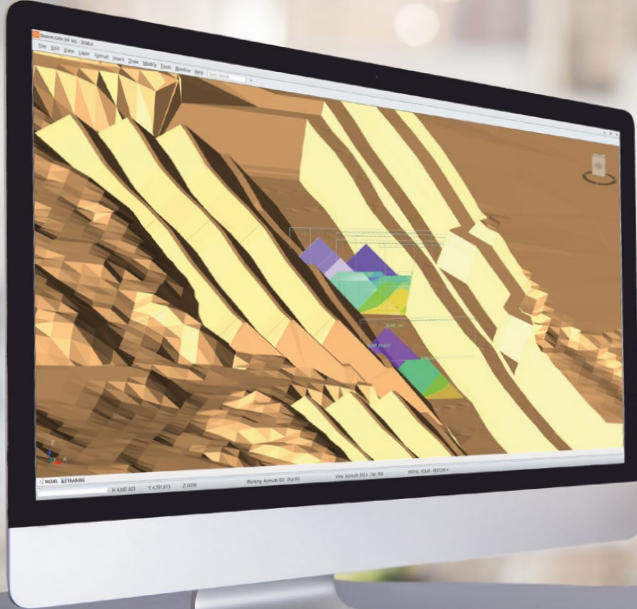Automated dragline section design tool with direct integration into Deswik's mine design, scheduling and data management tools
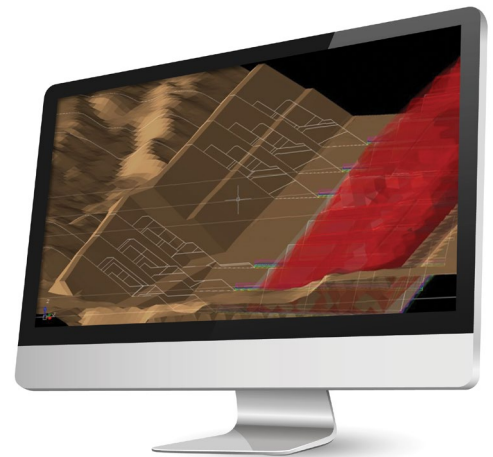
Deswik.DD
Dragline & Dozer Section Designer

Directly integrating with reserves, scheduling and data management tools, Deswik.DD is an automated dragline and dozer section design tool. It is used for range diagram and dozer push design and optimization.

Deswik.DD brings together automation of non-value adding activities with powerful reporting tools that eliminate manual data transfer and processing for analysis. Innovative use of dynamic profiles means processes can be intelligently automated. Every operation step is stored in an auditable list to deliver data integrity and auditability. When new survey information is available, designs get rapidly updated.

Section design outputs are directly integrated with other mine design, scheduling and data management tools, creating a seamless user experience and allowing engineers to focus on what matters most – optimization. Designed and supported by dragline engineers, this tool follows the Deswik tradition of providing engineering expertise in conjunction with software tools.

Delivering more value through effective mine planning

- Automated dragline section operations.
- Increased efficiency unlocks time for design optimization and improvement.
- Seamless integration with Deswik.Sched and 3d-DigPlus eliminates "manual handling" of results.
- Reduces overall planning time by up to 80% versus other tools.
- Use solids to calculate horizon volumes and coal tonnages in seconds not hours.
- Automate pit shell projections with walls or shells reserving (requires Deswik.AdvOCC).
- Interactive and bulk spoil balance (requires Deswik.AdvOCC).
- Automated drafting and plotting tools.

www.deswik.com

Speed, Accuracy and Auditability

Operations

- Common operations templated for quick usage
- Profile designs for performing complex operations

Dynamic Preview

- Intelligent, rapid selection of multiple blocks using automated vertical dependencies.
- Cut / Move operations: all operations including the profile operations will show preview on mouse movement of how the result will look after selecting a location.

Intelligent Automation

- Reference points generated from existing polylines or as a result of any operation. Distances can be measured with respect to any reference points, start of an operation or in profiles with constraints.
- Cut-fill operations with profile design constraints.
- Copy steps from a completed section to other sections.
- Copy steps from a completed strip to next strip.
- Re-run steps after modifying an intermediate step or input data.

Data integrity and auditing

- Data is stored on the design for manual validation.
- Parameters used for every operation are preserved for auditing purposes.

Reporting

- Ability to export pass by pass results & dimensioning straight to Microsoft Excel.
- Ability to write attributes back onto solids for direct integration with Deswik.Sched.
- Integrated plotting to generate quick selection / final plots.
- View reports at any stage in design process with integrated report views.
- View reports as strip, section or pass summaries, or drill into detail of every single block operation.

An Integrated Platform

- Full integration with 3d-DigPlus allows seamless transfer of designs into the market leading mining simulation systems from Earth Technology.
- Support for surface stacking or solids as inputs.
- Support to use spoil design tool outputs from Deswik.AdvOCC.
- Support to generate reference points directly from projection rules polylines.
- Reports and outputs written directly back onto solids for scheduling.
- Direct integration into Deswik.MDM (Mining Data Management) and Deswik.FM (File Manager) for multi user environments.