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Mine Solutions - EzyRings

EzyRings is a software extension for the Surpac mine design system to assist with underground ring design. EzyRings builds on the various design tools provided in Surpac and imposes a process for the entire ring design operation from data preparation and slicing / sectioning through to production drill hole design and charging, then high quality reporting and plotting.

Slicing of the orebody, drives, and other geological features is achieved with a traditional centreline and burden intervals or using a smart reference line containing the sectioning information. Stored slicing regimes can also be recalled and saved. Geological block models can be included in the slicing process to provide indicated grades for each ring. An Excel spreadsheet can be produced at this stage for scheduling purposes.

The design system is built upon the native Surpac ring design module and provides systems to improve efficiency. Added features include automatic rig placement, automatic template holes, toe spacing template, primer rules, and several hole editing functions. Additional tools for creating drill voids / break area solids, over break / under break analysis, and drive solid creation are included.

EzyRings stores the designs into a database for ease of editing and reporting. A database viewing / editing system is fully integrated into Surpac. Through this interface controlled adjustments of holes can be made such that the integrity of the slicing plane is maintained. The database can also maintain actual drilling and blasting information to enable design versus actuals comparisons.

A fully customisable reporting system is available which can produce Excel spreadsheets, DWF plots, IREDES XML, and single or multi page PDF files. Reports are created from a number of A4 / A3 templates provided in the Report Designer which are modified to suite the specifics of the mine. The report designer provides an easy to use system that allows for nearly 100 pieces of information to be reported on. Information on the stope, drive, ring, holes, charges, drill rig, and other items can be included onto the report.

Reports can be produced for drilling plans, charging plans, drives (collar mark-up), and stopes (summary, scheduling, design v actuals). The collar mark-up report can also produce a file containing collar to toe points,

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adjusted pivot points, ring plane box, and reference point for surveyors to mark up the ring.

Drill rigs can be setup to allow for any combination of dump angle and hole dip measurement. For example dump angle can be set to 0 degrees forward measured anti clockwise or 0 degrees vertical measured 90 degrees forwards / backwards, etc. Designs are stored in the database in a generic format such that when producing drill plans all angles are converted to the drill rig format. Drilling direction can be reversed with all angles converted correctly. EzyRings supports the IREDES formats for both Atlas Copco and Sandvik drill rigs to assist with machine automation.