

MINESCAPE

RAPID | INTUITIVE | EFFICIENT

MINESCAPE 2023 UPDATE 5 RELEASE NOTES

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Contents

What's New	4
MineTrust Integration.....	4
MineScape Now Supports Importing and Exporting .DMX File Format	5
Core	6
Explorer Dock.....	6
Block Model.....	7
Block-Level Reserve Categorisation for Multi-Mesh.....	7
Dragline	9
Auto Restart Dragline Server	9
Dragline Specification Form with Visualisation	10
Grid Format for Dragline Material Specification	10
Improved Control to Show and Hide Elements.....	10
Dragline Report Dock	11
UG Coal.....	13
Interactive Pillars.....	13
More UG Coal Enhancements	13
Bug Fixes	14
Core	14
CAD.....	14
Plot Designer.....	15
Block Model.....	15
GDB.....	15
Dragline	16
Scheduling.....	16
Tools	16
Removed.....	16

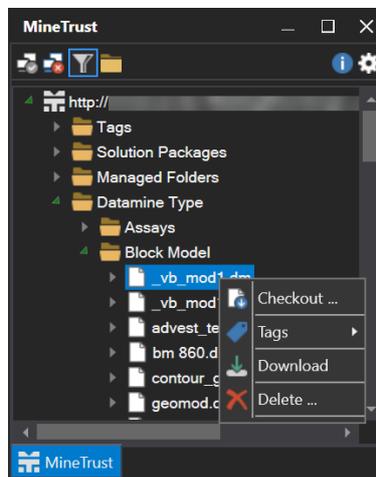
What's New

Discover the latest enhancements and additions introduced in MineScape Update 5.

IMPORTANT: Before installing MineScape 2023 Update 5, please update the System Services to the latest version, which is available for download in the [Distribution Portal](#). This update is mandatory to ensure a smooth installation process and the optimal performance of MineScape. Attempting to install MineScape without first updating the System Services will result in installation issues.

MineTrust Integration

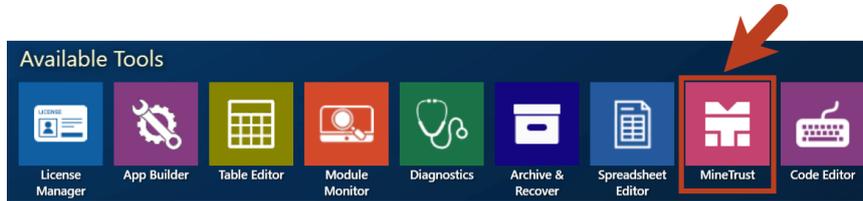
MineScape now integrates with Datamine MineTrust—a centralised environment for managing project data across connected platforms. Built for the mining industry, it enables secure file synchronisation and version control directly within MineScape workflows.



The MineTrust Dock in its Connected State, Displaying Available Folders and Interaction Options

Users can connect to a designated server, browse and retrieve project files, and perform common file operations such as editing, uploading, downloading, versioning, and tagging. All changes are tracked to ensure consistency and traceability.

MineTrust integrates seamlessly with MineScape and supports controlled data sharing with other Datamine applications. The tool is accessed via the **Start Page** and features a dedicated dock interface for interacting with server-stored files.



The MineTrust Tool in the Start Page

NOTE: MineTrust is a separate Datamine product that requires its own installation, licensing, and deployment. The **MineTrust** Tool in MineScape is included free of charge and can be used to access the MineTrust server if it is already deployed in a local network or cloud environment.

MineScape Now Supports Importing and Exporting .DMX File Format

MineScape now supports importing from and exporting to the Datamine Extended (.DMX) format, alongside the legacy Datamine (.DM) format. The new format offers built-in compression for significantly smaller file sizes and supports up to 2,048 data columns—an improvement over the 256-column limit in the legacy format.

This enhancement applies to the following forms:

Block Model

- **Output » Data Exchange » Import » Datamine Block Model**
- **Output » Data Exchange » Import » Update Cell Attributes**
- **Output » Data Exchange » Export » Block Model to Datamine**

CAD

- **Home » Data Exchange » Import**
- **Home » Data Exchange » Export**
- **Mesh » File » Import**

- **Mesh » File » Export**

Open Cut

- **Strip Planning » Mining Solids » Export to Tempo**

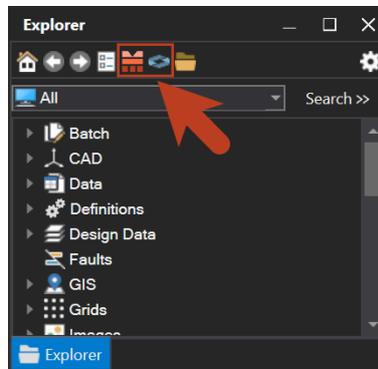
Table Editor

- **Table Editor » File » Import**
- **Table Editor » File » Export**

Core

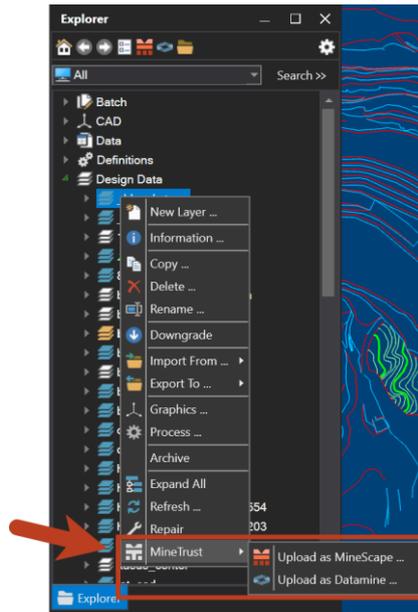
Explorer Dock

As part of the MineTrust integration, the MineScape **Explorer** now supports direct upload of files to the MineTrust server using either MineScape or Datamine file extensions. This enhancement allows users to choose the appropriate format when uploading supported files.



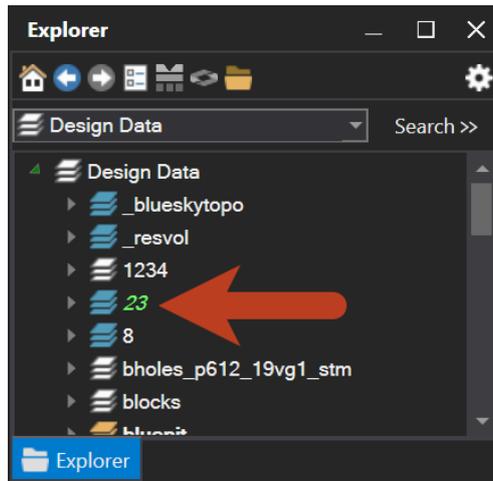
MineScape Explorer Toolbar with New Icons

Upload options appear based on the selected file type and are available through toolbar icons and right-click menus after connecting to MineTrust.



Right-click Menus

Additionally, file names shown in green now indicate temporary files, making them easy to identify at a glance.



Temporary File

Block Model

Block-Level Reserve Categorisation for Multi-Mesh

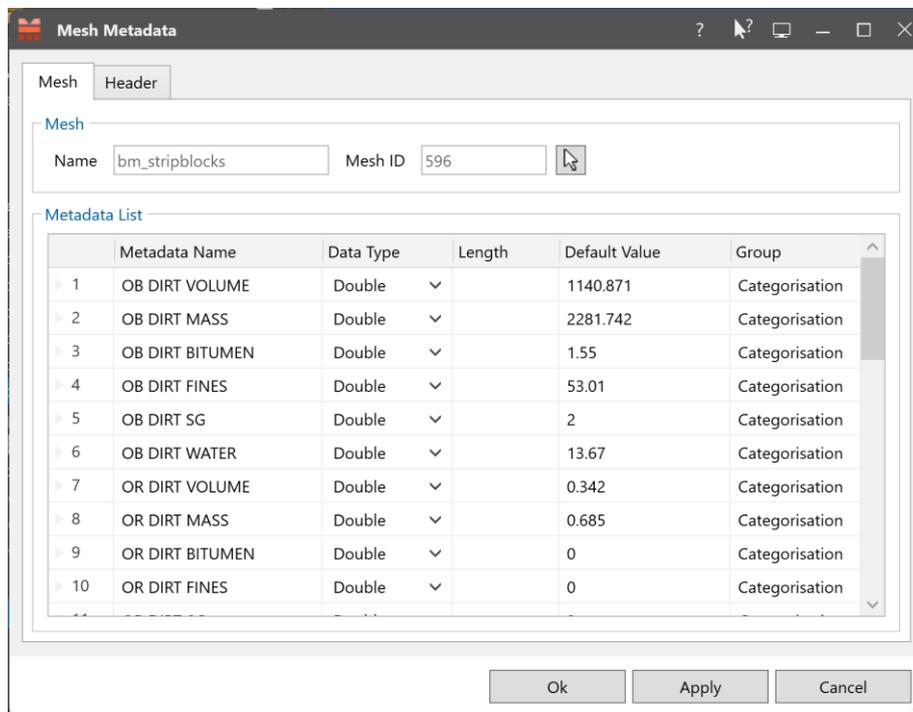
MineScape can now read and categorise individual blocks within a multi-mesh file when mesh is used as the data source in reserve categorisation.

Each mesh block is processed independently, with reserve categorisation results written to both the output table file and the metadata of each mesh block,

grouped under **Categorisation**. Adding this information to the metadata is useful when the mesh is used for scheduling, and it also makes it easier to apply **Interactive Filters**.

	WIREFRAMEFILE	WIREFRAME	PRODUCT	VOLUME	MASS	BITUMEN	FINES	SG	WATER
1	bmmultiints	P01ST0203_BOREOR	OB	1.23	2.46	3.24	49.91	2.00	11.41
2	bmmultiints	P01ST0203_BOREOR	OB	0.40	0.81	2.80	44.46	2.00	13.04
3	bmmultiints	P0103_BOREOREIB0	OR	7.66	15.31	10.75	15.60	2.00	5.91
4	bmmultiints	P0103_BOREOREIB0	OB	4.50	9.00	4.59	45.87	2.00	10.01
5	bmmultiints	P0103_BOREOREOB	OB	1.26	2.51	2.96	51.79	2.00	11.44
6	bmmultiints	P01ST0203_BOREOR	UB	7.11	14.22	0.75	62.05	2.00	12.41
7	bmmultiints	P01ST0203_BOREOR	OR	10.47	20.94	10.44	22.27	2.00	6.02
8	bmmultiints	P01ST0103_BOREOR	UB	2.84	5.68	0.78	62.23	2.00	12.19
9	bmmultiints	P01ST0103_BOREOR	OR	4.43	8.86	9.33	26.57	2.00	6.59
10	bmmultiints	P01ST0203_BOREOR	UB	0.19	0.38	0.50	64.01	2.00	13.88
11	bmmultiints	P01ST0203_BOREOR	OR	0.93	1.85	0.29	61.04	2.00	12.31
12	bmmultiints	P01ST0203_BOREOR	UB	0.81	1.63	1.27	63.14	2.00	13.25
13	bmmultiints	P01ST0203_BOREOR	OR	68.77	137.55	9.56	25.05	2.00	7.08
14	bmmultiints	P01ST0203_BOREOR	OB	15.13	30.27	3.48	47.32	2.00	11.50
15	bmmultiints	P01ST0203_BOREOR	OB	0.20	0.41	1.48	54.33	2.00	13.54
16	bmmultiints	P01ST0103_BOREOR	OR	0.05	0.10	0.22	59.37	2.00	11.33
17	bmmultiints	P01ST0103_BOREOR	UB	0.66	1.32	0.97	62.03	2.00	12.57
18	bmmultiints	P01ST0103_BOREOR	OR	20.58	41.15	7.93	34.27	2.00	8.21
19	bmmultiints	P01ST0103_BOREOR	OB	0.00	0.01	6.44	34.57	2.00	8.79
20	bmmultiints	P01ST0203_BOREOR	UB	0.49	0.98	0.73	65.30	2.00	14.49
21	bmmultiints	P01ST0203_BOREOR	OR	0.72	1.44	0.66	66.16	2.00	14.02
22	bmmultiints	P01ST0203_BOREOR	UB	2.39	4.77	1.48	59.43	2.00	13.39
23	bmmultiints	P01ST0203_BOREOR	OR	74.94	149.89	10.82	20.11	2.00	6.45
24	bmmultiints	P01ST0203_BOREOR	OB	0.44	0.88	5.16	42.41	2.00	9.66
25	bmmultiints	P01ST0203_BOREOR	OR	0.67	1.34	2.75	46.48	2.00	12.94
26	bmmultiints	P01ST0203_BOREOR	OB	0.15	0.30	2.53	54.43	2.00	12.51
27	bmmultiints	P01ST0103_BOREOR	UB	0.00	0.00	0.56	63.57	2.00	13.62

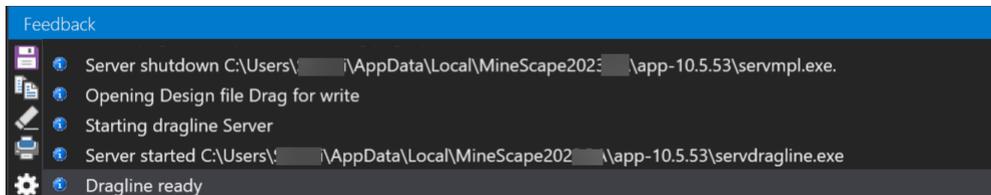
Categorisation Results Shown per Mesh Block



All Table File Values are Written to the Block Metadata

Dragline

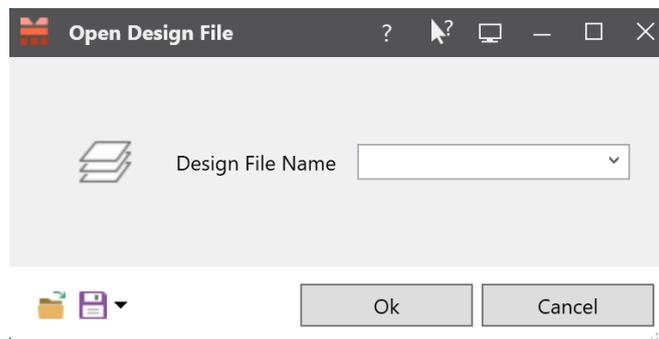
Auto Restart Dragline Server



Dragline Server Starts After a Design File is Selected

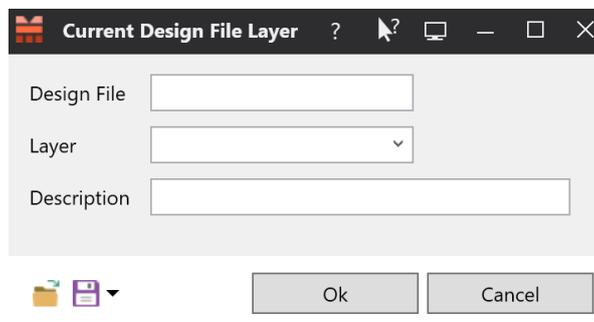
The dragline server now automatically starts once users select a working design file from the **Open Design File** Dialog Box, which appears when either the **Dragline** App and a project are opened, or when the **Dragline** App is selected from the **Surface Engineering** Tab.

This enhancement also allows users to change the working design file without having to close MineScape to restart the dragline server.



Open Design File Dialog Box

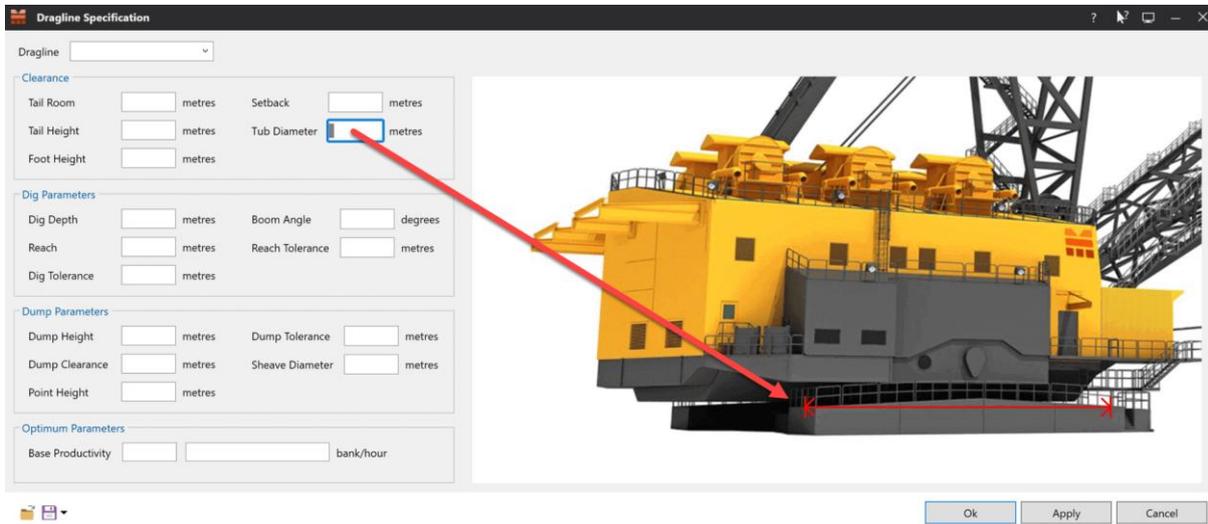
If the selected design file does not contain a design layer, users will be prompted to create one in the **Current Design File Layer** Dialog Box.



Current Design File Layer Dialog Box

Dragline Specification Form with Visualisation

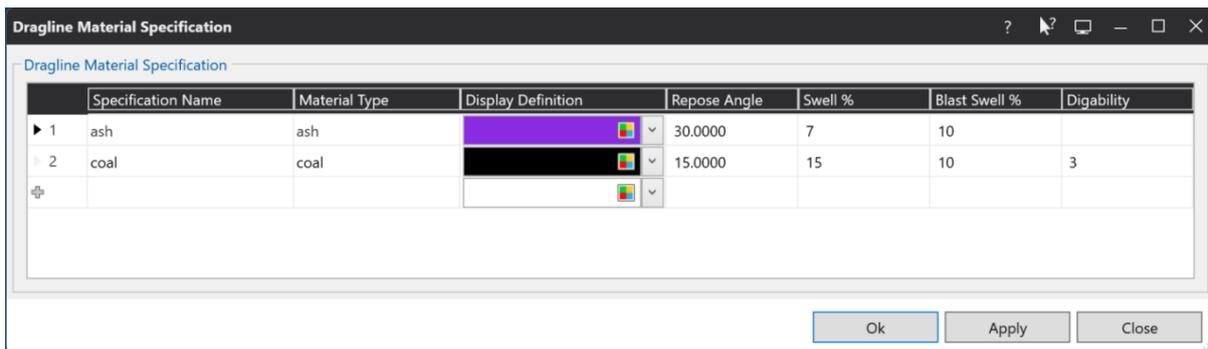
The **Dragline Specification** Form now includes visualisation using static images and arrows. If a measurement field is selected, a red arrow appears on the dragline image to show the location and dimension of the corresponding part.



Red Arrow Shows the Location of the Corresponding Part

Grid Format for Dragline Material Specification

The **Dragline Material Specification** Form has been updated to a grid format, allowing users to add, edit, and delete multiple specifications.

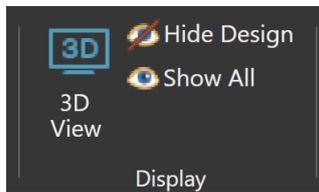


The Updated Dragline Material Specification Form in Grid Format

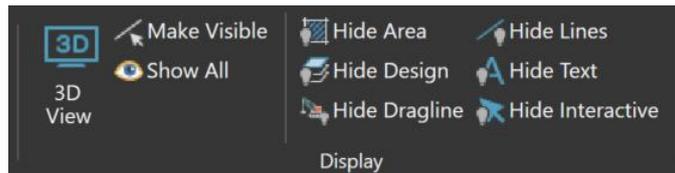
Improved Control to Show and Hide Elements

The old **Hide Design** Option has been replaced by six focused buttons— **Hide Area**, **Hide Design**, **Hide Dragline**, **Hide Lines**, **Hide Text** and **Hide Interactive**— so users

can quickly hide exactly the elements they don't need in the **CAD** Window. **Hide Interactive** lets users click individual items to hide.



Before

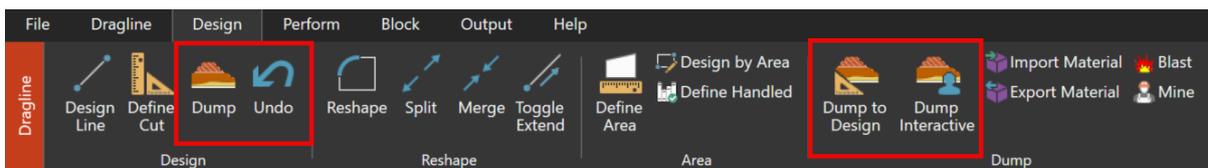


After

In addition, a new **Make Visible** Button allows users to choose which of those hidden elements to bring back, while **Show All** restores every hidden item in one click.

Dragline Report Dock

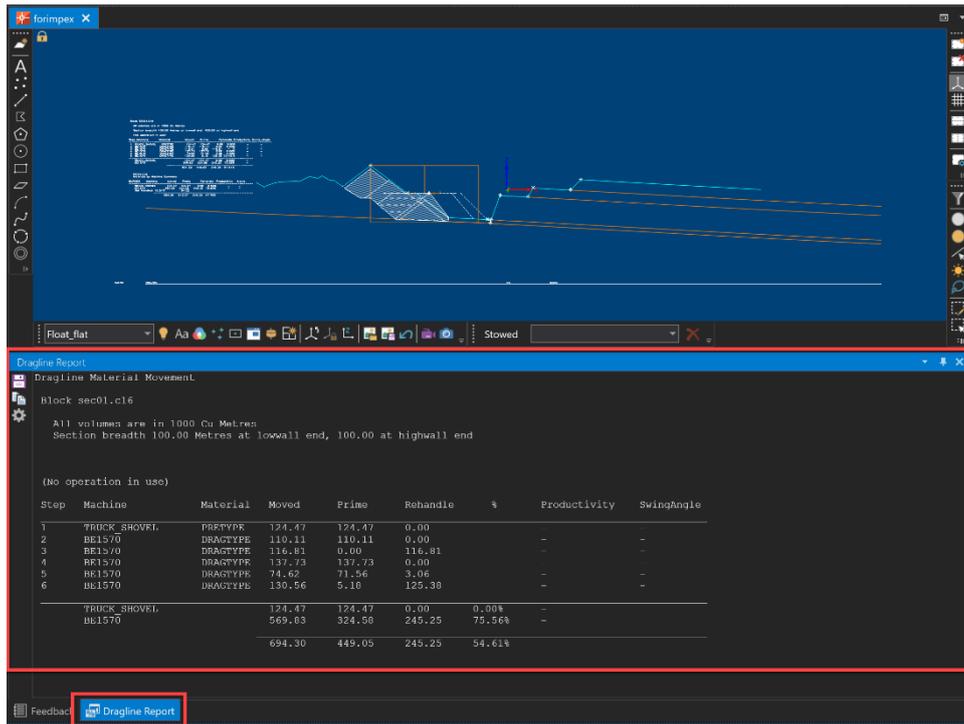
The **Dragline Material Movement Report** is now also accessible via the new **Dragline Report** Dock, which becomes available once the **Dragline** App is loaded. The report will remain empty until users perform one of the following operations in the **Design** Tab:



Dump and Undo Operations in the Design Tab

If no report file exists, an empty .RPT file will be generated when a section and block are opened.

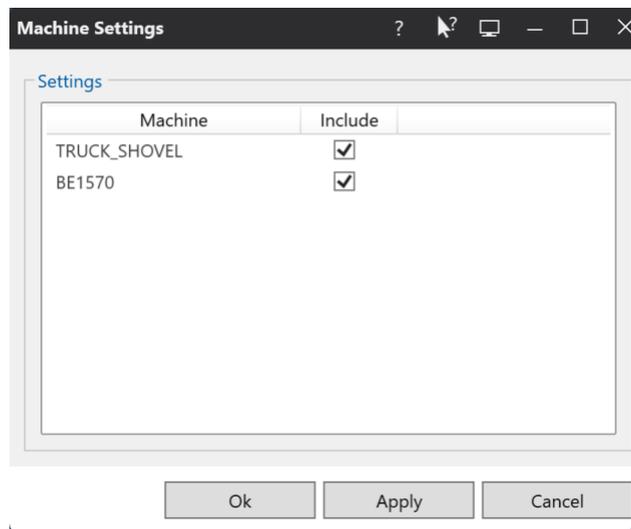
Previously, the report was only accessible through the **Show Material Detail** Option, which required users to repeatedly access it to generate the latest updates—making it less efficient for monitoring ongoing changes.



Dragline Report

Users can also filter the report based on the machine using the **Machine Settings**

Icon (⚙️). The dialog box will automatically list all machines available in current working section and block.



Machine Settings Dialog Box

UG Coal

Interactive Pillars

Users can now create large-scale underground designs efficiently using the new **Interactive Pillars** Tool. A complete layout, including panels, pillars, roads, nodes and centre-lines can be generated rapidly from a single main centre-line and a set of default parameters, which can be adjusted directly from the ribbon and with changes instantly visualised in **CAD**. The design is initially created as temporary graphics, allowing for quick iterations before finalising the layout using the **Commit » Save Design** Option.



Interactive Pillars Tab

More UG Coal Enhancements

- Pillars from line now accepts multiple input values for pillar length, allowing users to generate different pillar lengths
- Renamed the **Solid Outline** Option to **Outline On/Off**

Bug Fixes

Core

- Fixed an issue where **Area** values in the **Statistics** Dock were incorrect when multiple polygons were selected. Polygons with a background colour were mistakenly included twice in the calculation, resulting in inflated totals.
- Fixed incorrect display of total vertices in the **Statistics** Dock when multiple **CAD** elements were selected. Some element types caused vertices to be counted more than once. Calculations now follow refined rules to ensure accurate results.
- Fixed an issue where user-defined unit settings couldn't be reverted back to the project's default units
- Fixed intermittent crash issues in MineScape
- Fixed design file server (dfserver) stability and performance. This includes fixes for memory leaks, high-load performance issues, incommunicative clients, and improved logging and configuration options.
- Fixed an issue where the values in the **Base Unit** and **Decimal** Fields of the **Edit Unit** Form were transposed

CAD

- Fixed an issue where the **Move This Vertex** Option in **RapidCAD** incorrectly selected the first vertex instead of the nearest vertex for polygons that have fill patterns
- Fixed a crash that occurred when performing **Explode Text** on text elements containing empty text. The function now properly handles and skips empty text elements.

- Fixed a crash that occurred when rendering large text elements. This also resolves an issue causing the **CAD** Window to temporarily freeze due to delayed scene updates.
- Fixed a crash that occurred when selecting polygons with names ending in a single backslash
- Fixed an issue where imported DWG/DXF polygon elements were incorrectly identified as line elements in the **Statistics** Dock
- Fixed a performance issue when interactive filter was applied to a large mesh file with many blocks expanded on the **Display** Dock
- Fixed an issue where users couldn't select mesh in a rotated view when dynamic slicing corridor was applied to it

Plot Designer

- Fixed an issue where **Custom Paper** unexpectedly appeared in the **Media** dropdown list for the **Rapid Plot** Feature
- Fixed an issue with horizontal alignment in table detail containers, which caused interval texts to be misaligned or hidden when the plot container was narrow

Block Model

- Fixed a crash that occurred when running reserves categorisation in **Block Model**

GDB

- Fixed an issue where **GDB**-specific plot containers did not display with the correct transparency in drill hole plots
- Fixed an issue where the scale bar value was incorrectly displayed on GDB Hole Plot PDF results due to broken container indexing and unintended scale adjustments

Dragline

- Fixed an issue where the dragline server didn't start automatically after switching to another dragline project
- Fixed an issue where opening a new Dragline project caused the **Open Design File** Dialog Box to overlap with the project loading progress bar
- Fixed an issue where the **Open Design File** Dialog Box incorrectly appeared when opening a blank Dragline project after previously closing the project and unloading the **Dragline** App

Scheduling

- Fixed a crash that occurred when running sequence animation

Tools

- Fixed an issue in **LicenseLogToExcel** Tool where total duration was calculated using the current year for all dates, sometimes resulting in negative values. The correct year is now used based on the recorded timestamps.

Removed

- Removed the **Stand Angle** Option from the **Dragline Material Specification** Form and the Dragline Material Details report