BlastMetriX 3D 4.7 - Release Notes

*BlastMetriX 3D 4.7* is a major release focusing on visualisation and analysis of borehole survey data. The new features allow the localization of boreholes deviating from a regular drill pattern and highlight boreholes showing peculiarities in “Measure-While-Drilling” recording. With the new import tool of geologic mapping data from the *JMX Analyst*, the *BMX BlastPlanner* combines blast planning and design with geological assessment of the rock mass and closes the gap between geology and blasting.

**General**
- 3D navigation features using arrow key for a continuous zoom in the viewer
- Extended configuration for velocity, acceleration, pressure, force, flow, power and rotational speed in the central window settings
- Checkboxes for the visibility of 3D models in the viewer available in all software components

**BMX BlastPlanner**
- **New!** Analysis and colour-coded visualisation of distances between individual boreholes and rows at specific user defined heights in a plan view
- **New!** Visualisation of deviations in the drill pattern in a “Heat Map”
- **New!** Customized import of borehole survey data according to the IREDES standard
- **New!** Import and visualisation of measure while drilling (MWD) data
- **New!** Deviation analysis of measure while drilling data and highlighting of peculiarities and associated boreholes in the software
- **New!** Import of mapped discontinuities in the *JMX Analyst* and visualisation of intersections with boreholes in the minimum burden diagram
- Keyboard shortcut “M” for drawing mucklines
- Advanced report including MWD plots
- Specification of the drill pattern’s total area in the interhole distances dialog

**BMX Inspector**
- **New!** Analysis and colour-coded visualisation of distances between individual boreholes and rows at specific user defined heights in a plan view
- **New!** Visualisation of deviations in the drill pattern in a “Heat Map”
- **New!** Visualisation of measure while drilling (MWD) data
- **New!** Deviation analysis of measure while drilling data and highlighting of peculiarities and associated boreholes in the software
**New!** Visualisation of mapped discontinuities in the *JMX Analyst* and visualisation of intersections with boreholes in the minimum burden diagram

- Specification of the drill pattern’s total area in the interhole distances dialog

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**BlastMetriX UAV 4.3 - Release Notes**

*BlastMetriX UAV 4.3* is a major release focussing on visualisation and analysis of borehole survey data. Next to enhancements in *SMX MultiPhoto*, a new mode for volume estimations specially designed for underground applications is now available in the *SMX VolumeCalculator*. The *BMX Fragmenter* is available in dark theme design and has a new design with newly shaped icons. All improvements and new features mentioned in the *General* software, *BMX BlastPlanner* and *BMX Inspector* are also included in the UAV package.

**SMX MultiPhoto**

- **New!** Generation of a 3D model with reduced data density (coarse 3D model)
- Export of the coarse 3D model as “.obj”
- Enhancement for confining the reconstruction area to a region of interest by providing the coarse 3D model in the viewer
- Configurable “.obj” export (point density, export of co-ordinates)

**SMX VolumeCalculator**

- **New!** Additional mode *Underground* to estimate volumes by the generation of a “watertight” mesh. The mode is specially designed for underground applications.
- Improved error analysis and warnings

**BMX Fragmenter**

- **New!** Available in dark theme mode
- Redesigned user interface with newly designed icons to fit both the original and the new dark theme design
- Features for enabling mouse navigation in the stereo view
- Specification of the total and analysed area in the report
- Improvements in editing particles
Import of geological mapping data