BlastMetriX

RELEASE NOTES V4

3GSM

3gsm.at

4.9

| New | Comprehensive redesign of the user interface for each processing step, enhancing workflow and user experience (MultiPhoto) |

| New | Verification of input data checks for inconsistencies in GPS measurements during image loading (MultiPhoto) |

| New | Integrated user interaction to remove GPS information from individual images, improving the handling of inconsistent GPS measurements (MultiPhoto) |

| New | Simplified selection of the geographical coordinate system (MultiPhoto) |

| New | Extended GeoTiff exports now support all EPSG coordinate systems (MultiPhoto) |

| New | Trimming along a user-adjustable plane (Reference Plane) (SurfaceTrimmer) |

| New | Redesigned user interface, with a focus on restructuring the Interhole Distances dialog (BlastPlanner) |

| New | PDF report including analysis and color-coded visualization of distances between boreholes and rows at user-defined heights in a plan view (BlastPlanner) |

| New | Extended report with Measure-While-Drilling analysis (BlastPlanner) |

| New | Extended generic drill pattern import, including borehole diameters (BlastPlanner) |

| Enhanced | Tool tips for improved guidance and usability (MultiPhoto) |

4.8

| New | DXF export of the crest and toe line of the blast site (BlastSiteGenerator) |

| New | Import of delimiter positions of the blast site from a text file (BlastSiteGenerator) |

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| New | Adjustment of the discontinuity mapping for ShapeMetriX import directly in the software (BlastPlanner) |

| New | User-configurable export of the drill pattern according to the IREDES standard (BlastPlanner) |

New Calculation of the blast site volume (Inspector)

Enhanced Data processing and user interaction

Enhanced General improvements for using multiple displays and high-resolution displays

Enhanced Import and export of georeferenced delimiters to ease final wall design and pattern adjustments (BlastPlanner)

Enhanced Editing of the Top Level Surface of the blast site with multiple selection of 3D points in the 3D

Enhanced User interface of the measure while drilling plot for improved usability and user experience (BlastPlanner)

Enhanced CSV export for profiles and minimum burden data (BlastPlanner)

Enhanced Layout improvements in the PDF report (BlastPlanner)

4.7

New Layout improvements in the PDF report (BlastPlanner)

New Visualization of deviations in the drill pattern in a "Heat Map"

New Import and visualization of measure while drilling data

New Deviation analysis of measure while drilling data with highlighting of peculiarities and associated boreholes in the software

New Import of mapped discontinuities in the JMX Analyst and visualization of intersections with boreholes in the minimum burden diagram

New Customized import of borehole survey data according to the IREDES standard (BlastPlanner)

New Keyboard shortcut "M" for drawing mucklines (BlastPlanner)

New Advanced report including Measure While Drilling plots (BlastPlanner)

New Specification of the drill pattern's total area in the interhole distances dialog

Enhanced Configuration for velocity, acceleration, pressure, force, flow, power, and rotational speed in the central window settings

Enhanced Checkboxes for the visibility of 3D models in the viewer available in all software components

4.6

New   Interactive color-coded visualization of distances between individual boreholes, known as Interhole Distances (BlastPlanner)

New   CSV export of Interhole Distances (BlastPlanner)

New   Alternative sequential numbering of boreholes (BlastPlanner)

New   User-defined scaling of the Profiles and Minimum Burden diagram in the report (BlastPlanner)

New   Extended generic probe import of borehole trajectories from down-the-hole probes accepts the DTH file extension (BlastPlanner)

New   PDF report (Inspector)

Enhanced   Clear arrangement of manuals in the Center Window, divided into General guidelines, field procedures, and Components, which include individual software components

Enhanced   Minimum Burden diagram with visualization of sections beneath Muck Lines (BlastPlanner)

Enhanced   Smooth drawing of Muck Lines (BlastPlanner)

4.5

New   Software installer with silent installation capability via command line and setup settings

New   Geo-referencing of the 3D model directly in the software (BlastSiteGenerator)

Enhanced   CSV import functions with a new import dialog

Enhanced   Re-organized dialog for general software settings

Enhanced   HTML manuals with paragraph numbering

Enhanced   Re-designed and extended BlastPlanner report (BlastPlanner)

Enhanced   Re-organized, clearly arranged user interface for drill pattern generation (BlastPlanner)

Enhanced   Automatic and optimized placement of boreholes (Minimum Burden Mode) (BlastPlanner)

Enhanced   Error analysis and warnings (BlastPlanner)

4.4

New   HTML and PDF versions of UAV field procedures available directly in the software via the central window

New   DXF export of the crest and toe line of the blast site (BlastSiteGenerator)

New   Import of delimiter positions of the blast site from a text file (BlastSiteGenerator)

New   Integrated rock mass quality analysis from drill monitoring data, visualized in individual borehole plots and with a color overlay in the 3D viewer (BlastPlanner)

New   Adjustment of the discontinuity mapping for ShapeMetriX import directly in the software (BlastPlanner)

New   User-configurable export of the drill pattern according to the IREDES standard (BlastPlanner)

New   Calculation of the blast site volume (Inspector)

New   Minimum Burden mode (beta version) for automatically optimized placement of boreholes (BlastPlanner)

New   Exportable plan views of distances between adjacent boreholes at various depths (BlastPlanner)

New   Move borehole positions in respect to the profile plane (BlastPlanner)

New   Lock subdrilling for the drill pattern, individual rows, or single boreholes (BlastPlanner)

New   Feature: Import designed drill pattern from CSV (BlastPlanner)

New   CSV export for minimum burden distances (BlastPlanner)

New   Display of the altitude at the borehole collar and floor level in the minimum burden diagram (BlastPlanner)

New   User-adjustable color scheme for visualizing the burden situation on the 3D model (BlastPlanner)

Enhanced   Multiple improvements in data processing and user interaction, including support for multiple displays and high-resolution displays

Enhanced   Import and export of georeferenced delimiters to ease final wall design and pattern adjustments (BlastPlanner)

Enhanced   Top Level Surface editing with multiple 3D point selections in the 3D viewer (BlastPlanner)

Enhanced   User interface of the Measure While Drilling plot for improved usability (BlastPlanner)

Enhanced   CSV export for profiles and minimum burden data (BlastPlanner)

| **Enhanced** | Layout improvements in the PDF report (BlastPlanner) |

| **Enhanced** | Volume to blast calculation by defining the first borehole to blast (BlastPlanner) |

| **Enhanced** | Plan view displays of inclination, azimuth, and lengths, with multiple borehole selection (BlastPlanner) |

| **Enhanced** | Adjustable report options including page and font sizes, and information on borehole lengths and inclinations (BlastPlanner) |

| **Enhanced** | Error analysis and warnings (BlastPlanner) |

| **Enhanced** | Display of the reconstruction report for 3D models generated by ShapeMetriX MultiPhoto v4.0 (BlastPlanner) |

4.2

| **New** | Dark theme mode is available for all software components. Users can select the dark theme in the settings, which includes newly designed icons to complement both the original and dark themes |

| **New** | Redesigned user interfaces to improve the user experience and usability |

| **New** | The new 3D viewer meets and exceeds the demands of large 3D models generated from drone imagery, providing higher detail in surface and photo textures without compromising performance or user interaction. It loads data faster, increasing user productivity |

| **New** | 3D navigation features to rotate the 3D model from the current point of view and orient the model from a top-down camera view |

| **New** | 3D navigation feature using Arrow keys for straight motion and Ctrl+Arrow keys for rotation |

| **New** | User-definable background color for the 3D viewer |

| **New** | Features for enabling mouse navigation in the stereo view |

| **New** | Clear arrangement of manuals in the Center Window, divided into General topics such as guidelines and field procedures, and Components, which include individual software components |

| **New** | Interactive color-coded visualization of distances between individual boreholes, referred to as Interhole Distances (BlastPlanner) |

| **New** | CSV export of Interhole Distances (BlastPlanner) |

| **New** | Alternative sequential numbering of boreholes available (BlastPlanner) |

| **New** | User-defined scaling of the Profiles and Minimum Burden diagram in the report, allowing for individual or uniform plot scale (BlastPlanner) |

New	Extended generic probe import of borehole trajectories from down-the-hole probes, accepting DTH file extension (BlastPlanner)
New	PDF Report (Inspector)
Enhanced	Command line installation
Enhanced	Visualization of sections beneath Muck Lines in the Minimum Burden diagram (BlastPlanner)
Enhanced	Smooth drawing of Muck Lines (BlastPlanner)
Enhanced	Minor bug fixes (SurfaceTrimmer)

4.1

New	BlastMetriX 3D is released with 64-bit applications only
New	A dongle update is required for most users before installing BlastMetriX 4.1 to apply all new functions to the software
New	Option to set the displayed texture resolution for the 3D viewer
New	'Clean up' button for removing temporary data if 3GSM cache directories are found
New	Software installer including the possibility of silent installation using the command line with appropriate setup settings
New	Digital signature for verifying the authenticity of the software
New	Target heights can be edited before generating and saving the blast site (BlastSiteGenerator)
New	Importing borehole rows from ".csv" files allow the addition of boreholes to the existing drill pattern (BlastPlanner)
New	The description of the Blast Site can be edited directly from the printing/exporting dialog (BlastPlanner)
New	Re-designed and extended BlastPlanner report (BlastPlanner)
Enhanced	CSV import functions with a new import dialog
Enhanced	3D mesh generation
Enhanced	Better handling of operations that require administrator privileges, such as installation of license or calibration data
Enhanced	Multiple calibration files can be installed and removed at once

Enhanced	Re-organized dialog for the general software settings
Enhanced	HTML manuals are improved with paragraph numbering
Enhanced	PDF versions of the manuals available directly in the software
Enhanced	More feedback during trimming (SurfaceTrimmer)
Enhanced	Target heights can be edited before generating and saving the blast site (BlastSiteGenerator)
Enhanced	Error analysis and warnings (BlastPlanner)
Enhanced	Re-organized, clearly arranged user interface for drill pattern generation (BlastPlanner)
Enhanced	Improved automatic and optimized placement of boreholes in Minimum Burden Mode (BlastPlanner)
Enhanced	Crash fix when moving the border plane (BlastPlanner)

4.0

New	Re-designed user interface (BlastPlanner)
New	Minimum Burden mode, a beta version, for automatic optimized placement of boreholes (BlastPlanner)
New	Exportable plan views of distances between adjacent boreholes at various depths, referred to as inter-hole distances (BlastPlanner)
New	Move borehole positions in respect to the profile plane (BlastPlanner)
New	Lock subdrilling for the drill pattern, individual rows, or single boreholes (BlastPlanner)
New	Display of the reconstruction report of 3D models generated by ShapeMetriX MultiPhoto v4.0 (BlastPlanner)
New	Import designed drill pattern from CSV (BlastPlanner)
New	CSV export for minimum burden distances (BlastPlanner)
New	Display of the altitude at the borehole collar and of the floor level in the minimum burden diagram (BlastPlanner)
New	User adjustable color scheme for the visualization of the burden situation on the 3D model (BlastPlanner)
New	Backward compatibility of 3D models with the new feature "Export 3D model as jm3 v3.0" (SurfaceTrimmer)

New   User definable floor level (BlastPlanner)

New   TLS markers/collars now selectable in 3D view (BlastPlanner)

New   New component for computing volumes, available as add-on to existing BlastMetriX 3D systems (VolumeCalculator)

New   Volumes can be determined either between two different 3D models or between a single 3D model and the ground surface (VolumeCalculator)

Enhanced   Volume to blast calculation defined by the first borehole to blast (BlastPlanner)

Enhanced   Improvement in the plan view, including display of inclination, azimuth, and lengths, along with multiple selection of boreholes (BlastPlanner)

Enhanced   Report options include adjustable page and font sizes, as well as information on borehole lengths and inclination (BlastPlanner)

Enhanced   Performance improvement for the handling of large blast sites with several hundred shotholes (BlastPlanner)

Enhanced   Rock density value is now persistent (BlastPlanner)

Enhanced   Crash fix when moving the border plane (BlastPlanner)

Enhanced   Error analysis and warnings (BlastSiteGenerator)

Enhanced   The geo-referenced tag of the 3D model can be removed on loading (BlastSiteGenerator)