

MineSight® Axis Drill & Blast

Drill and blast engineers have a powerful new tool at their disposal thanks to MineSight Axis (MSAxis), the latest generation of Mintec's powerful MineSight Operations software.

MineSight Axis is composed of four modules. The first module, highlighted here, is MSAxis Drill & Blast, which focuses on drill and blast design and management. The new software wields all the tools necessary to design blast patterns while tracking and analyzing results. It relates this data to associated processes downstream, getting the best out of mining and processing equipment. Several client sites are already seeing the benefits in improved fragmentation optimization in Mine-to-Mill Improvement initiatives.

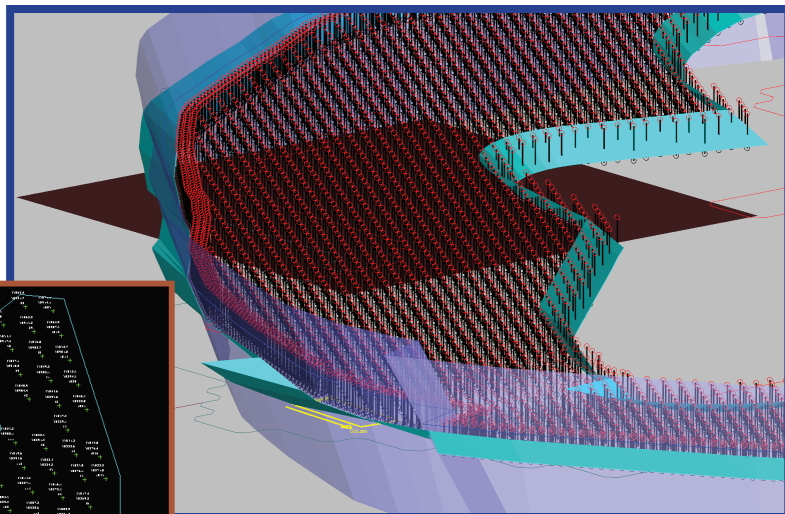
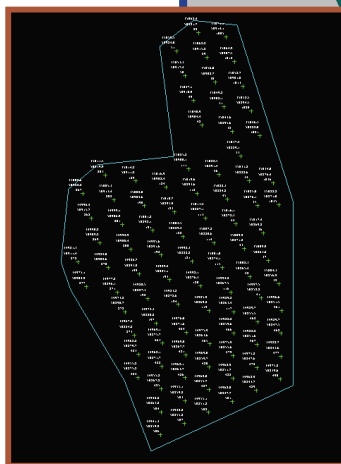
As part of the MineSight software family, MSAxis Drill & Blast can be adopted seamlessly. At its core is a fully functional database to cope with the vast amount of data associated with each blast pattern. The software can break down this information either hole-by-hole, pattern-by-pattern, or by any other user-defined region. It harnesses many data sources for better control of blast design and execution.

MSAxis Drill & Blast is designed to be an "out of the box" package with full import/export capability for either internal or contractor data such as user-configurable, comma delimited, or Microsoft® Excel files.

Mintec staff is on hand to help with site-specific import/export capabilities from third-party tools. Our specialists have experience with the interface setup for systems such as Split Engineering fragmentation imaging software, Modular Mining Systems Intellimine, Caterpillar CAES and Aquila, and various explosive design tools. To date, that experience includes clean up of historic data and customizing mine-specific solutions for data analysis, forecasting, and reporting.

Drill and blast engineers can create blast patterns using the MineSight 3-D Blast Pattern Editor. Using MSAxis

Drill & Blast, any data related to the design or execution of a blasthole or blast pattern can be attributed and stored in the MineSight Planning Database via MineSight Interactive Planner. MSAxis Drill & Blast can then apply its analytical and forecasting tools, displaying attributes such as area of influence polygons, explosives information, or drilling penetration rate.



MSAxis D&B individual and bench pattern layouts

By modeling the attributes of blastholes, engineers can analyze them against numerous factors. Penetration rates, powder factors, or energy per ton can be compared to fragmentation, diggability, leach recovery, or crusher throughput. In-hole water depth models can be triangulated and related geologically, geotechnically, or spatially to previous blasts.

MSAxis Drill & Blast simplifies the development of quality metrics for planning, auditing, or developing KPIs. Beyond basic reporting, web-based reports can be customized through SQL Reporting or Microsoft® Excel. Again, Mintec is available to assist with complex report customizations.

With its ability to manage a virtually unlimited amount of data, MSAxis Drill & Blast enables engineers to design and implement drilling and blasting while improving materials handling and processing operations.