

# NAV Xplorer

## Drill Guidance

*Providing Information to Manage  
Your Drilling and Blasting Process*

Corresponding with the launching of the **DEI Xplorer** platform, we are pleased to announce the release of the **NAV Xplorer**. The NAV Xplorer provides the drilling industry with an improved drill navigation guidance system over the renowned DEI+NAV. The totally new robust hardware and software of the NAV Xplorer, promotes an enhanced user experience and allows for the adaptation of new and emerging technology that adds value to drilling operations.

### HIGH PRECISION GPS SYSTEM BENEFITS

- Pattern created in office & sent to drill system where it is converted into a digital map
- Driller uses digital pattern map to tram to the X-Y location
- Zoom feature assists in accurately tramping to location
- Drill to next bench elevation—Z
- Target drill depth calculated for the operator
- Monitors and logs over/under drilling vs planned depth
- Logs 'As Drilled Hole' location for engineering and blast planning
- Faster tramping between holes
- Visibility (night or weather) not an issue
- Eliminates surveying—reduce costs and improve safety with no surveyors or drill spotters on active patterns
- Programmable no entry boundaries or border areas

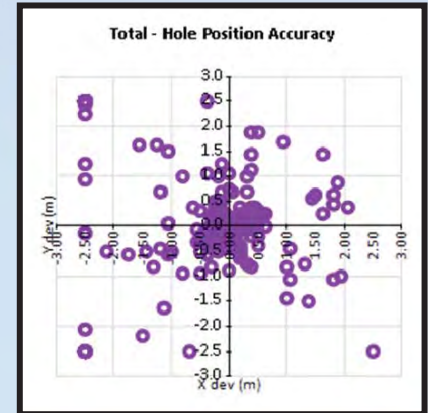


- *Increased Safety*
- *Improved Fragmentation*
- *Higher Recovery*
- *Lower Costs*

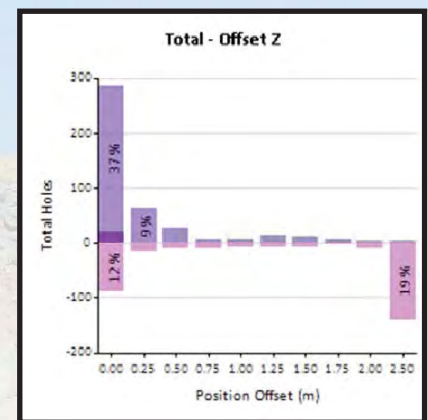


## **NAV Xplorer**—ADDED FEATURES & BENEFITS

- Upgradeable from **DEI Xplorer**
- Utilizes Trimble centimeter accurate RTK GPS
- **StrataLogger** upgrade available for downhole logging by of drilling parameters at high resolution
- Suite of DrillView reports available including drill hole accuracy reports
- Pattern files easily transferred from office to all drills
- No entry borders or boundaries can be established with operator warnings
- As drilled hole information transmitted to all drills in fleet
- Localization program allows for easy translation of display to multiple languages
- Fleet Management System interface showing drill locations and status
- Interfaces with all high end GPS Base Stations
- Capable of direct satellite communications for corrections
- Remote support for troubleshooting and upgrades



Y-Y Hole Accuracy Plot



Z Hole Accuracy Graph



StrataLogger Hole Downhole Plots



NAV Module & GPS Antennas

See Thunderbird's website for more product information and copies of technical papers.

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