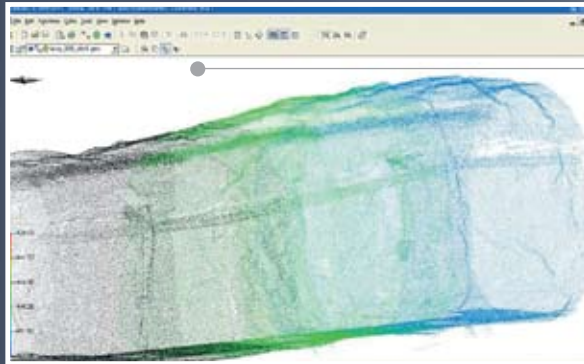


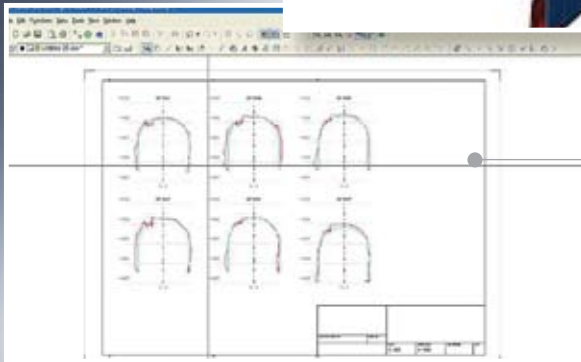
Tunnel & Mining



3 Scans of Tunnel (Equalized Point Density)



Real Reality Tunnel Software



Cross Section for Each Meter of Tunnel

Real Reality Tunnel Software!

The combination of the FARO LS' high quality data capture and the ATS Real Reality Tunnel Software – powered by SBG Geo – gives users a powerful tool to control tunnels of all shapes with unlimited opportunities. Users can easily design theoretical tunnels (tunnel sections, a road line and a profile, create a total description of a tunnel in three dimensions). With the Laser Scanner LS you can capture the actual tunnel profile. Deviations can be visualized in 3-D, in cross sections and in contour lines.

Volume calculation of a theoretical tunnel can use an optional offset and can be limited laterally and vertically. The resulting volume report and the drawing functions create a detailed report and enable full control of the tunnel. For a quick check of crucial parts, users can directly display a measured tunnel and compare it with a theoretical tunnel by displaying sections, offsets, and distances.

Benefits

- ▶ Simple but sophisticated
- ▶ User friendly
- ▶ Efficient and accurate measurements
- ▶ 30 years of development and experience
- ▶ Comprehensive reporting tools
- ▶ Made for tunnel professionals by tunnel experts
- ▶ Near instant start-up: From coordinate calculations, drawings or reports

Direct interface with FARO LS

Process LS images and incorporate them into the FARO Tunnel & Mining Package.

Editing Tunnels

The software describes a tunnel in a tbs file. The tbs file includes all components necessary for describing a tunnel, e.g. road line, profile, model data and theoretical tunnel sections and all relations between components.

Tbs Tree File

The tree view displays all components and relations in the tunnel description file. Users manage the entire tunnel calculation from this tree.

Graphic Views

Change active documents and edit data, including 3-D graphics, section view, and tunnel difference model view.

Tunnel Calculation

Run a volume calculation.

Displaying Tunnels

Create a see here cross-section drawing of a tunnel. Display perpendicular distances between the rock and the theoretical tunnel and rock over and under excavation.

Usage

- Coordinate calculations
- Tunnel as well as road line handling
- Raw data and coordinate editing
- Net adjustment
- Coordinate transformations
- Import and export to other formats
- Creating terrain models
- Creating drawings
- Volume calculations
- Design

Users

The Real Reality Tunnel Software is designed for the surveying and construction industries. The software includes designing, setting out, surveying, and reporting functions.

- Construction Companies
- Surveying Offices
- Surveying Consultants
- Consultants (Designing)
- Municipalities
- Dredging Companies

System Requirements

- Microsoft Windows XP (Professional or Home Edition, SP1 or later); Windows 2000 (SP2 or later); Windows NT 4.0 (SP6)
- 1 GHz processor (2.5 GHz recommended)
- 1 GB RAM (2 GB recommended)
- Mouse with 2 buttons and wheel
- Graphics Card with 32MB & OpenGL hardware acceleration
- Ethernet card for licensing

ISO 9001
BUREAU VERITAS
Certification



GSA Contract Holder



ISO-17025 : 2005
ACCREDITED
Certificate # L1147