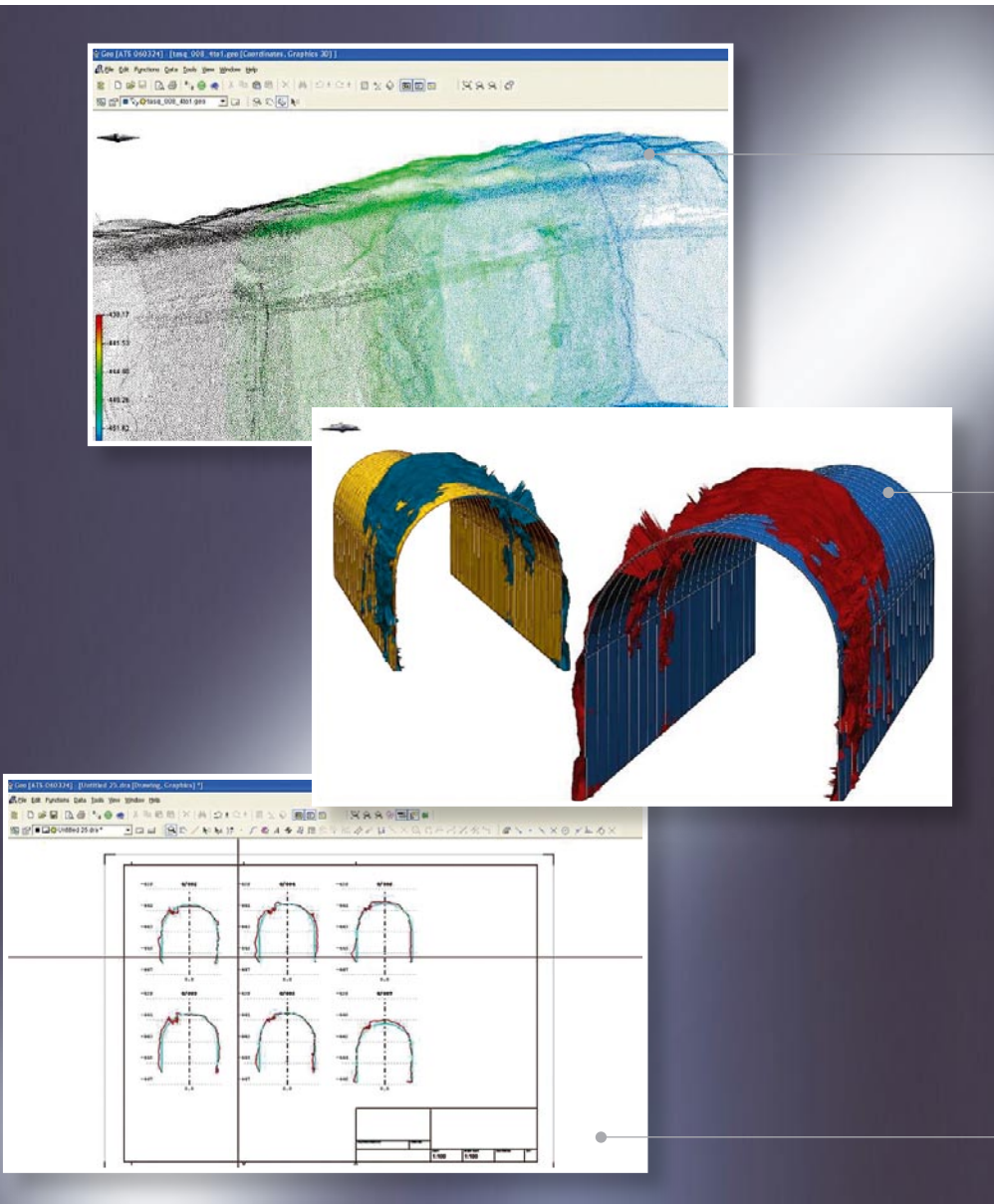


Laser Scanner LS - Tunnel Package



[A] 3 Scans of Tunnel (equalized point density)

[B] Real Reality Tunnel Software

[C] Usage

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

[D] Cross Section for each metre of Tunnel

FARO Laser Scanner LS

The FARO Laser Scanner LS is a portable non-contact measurement system which uses laser technology to accurately measure manufacturing plants, processing facilities, and in specialized applications ranging from forensics to heritage sites. The system rotates 360 degrees and automatically measures everything within the line of sight from the scanner's position. The stand-alone system records millions of 3D measurements in real time.

Real Reality Tunnel Software

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

Features

- ▶ Direct interface with FARO LS Scanner
- ▶ Editing tunnels
- ▶ Tbs tree file
- ▶ Graphic views
- ▶ Tunnel calculation
- ▶ Displaying tunnels

Tunnel Package

Applications



Technical Specifications

Direct interface with FARO LS Scanner

Process FARO LS images and incorporate them into the FARO Tunnel 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 3D graphics, section view, and tunnel difference model view.

Tunnel calculation

Run a volume calculation.

Displaying tunnels

Create a cross-section drawing of a tunnel. Display perpendicular distances between the rock and the theoretical tunnel and rock under cut / over cut.

Benefits

- Simple but sophisticated
- User friendly
- Efficient and accurate Measurements
- 30 years of development
- Comprehensive Reporting tools and experience
- Made for tunnel professionals
- Almost instant start-up: go from coordinate by tunnel experts calculations drawings or reports

Users

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

Users:

- Construction Companies
- Surveying offices
- Surveying consultants
- Consultants (designing)
- Municipalities
- Dredging companies

Systems Requirements LS

- 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

