



TcpTUNNEL

Surveying On-Site Software for Tunnel Construction



Project Definition

Each project is defined by the horizontal and vertical alignments and the tunnel templates, which can be imported from TBC or LandXML, converted from a CAD drawing, defined by parameters or points measured with a total station.

Positioning and Orientation

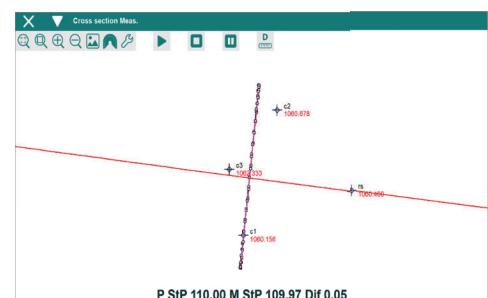
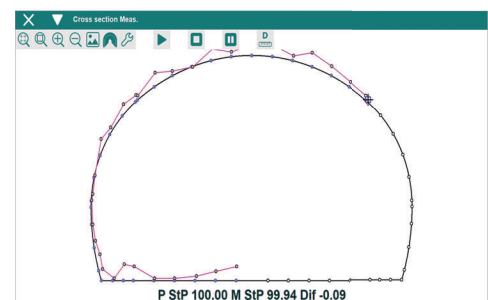
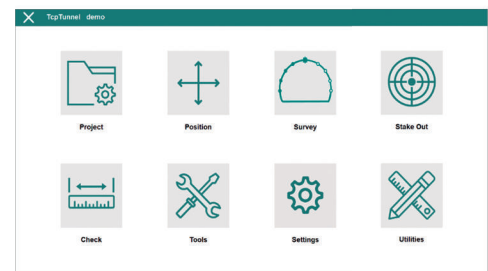
As a prior step to surveying and setting out, the station should be positioned and oriented by coordinates, angle or resection. User can select between local and projected coordinates.

Surveying

TcpTunnel performs automatic and unattended cross-section measurements for each station, defined by intervals of angle, arc length or height difference. Special points and road layers can be measured, and exclusion areas defined as well. It is also possible to measure a grid, in conventional or tracking mode, giving two corners or a range of horizontal and vertical angles.

Staking out

The program allows the staking out of the tunnel face, points of the tunnel template, rock bolts, road surface and points of the project file. Theoretical and measured data, and also the differences, are shown for each option.



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Calculation of Areas

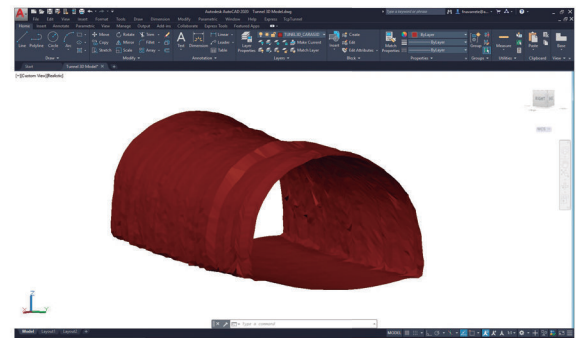
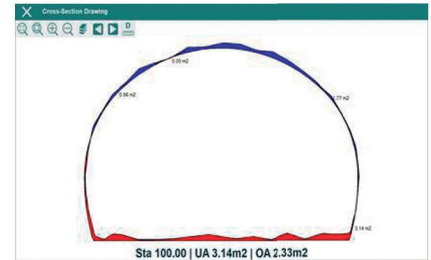
The application allows to compare graphically theoretical and measured cross-sections along the alignment, shown in different colors the under-break and over-break areas with their values for each point on the cross-section.

Utilities

Other available tools are point analysis over the alignment, distance and areas calculation and instrument settings, such as change target type, turn on / off laser pointer or enable / disable compensator.

Drawings and Reports

Tunnel data measured by TcpTunnel can be processed by TcpTunnel CAD software, drawing the cross-sections, generating area and volume reports, comparing profiles or creating as-built 3D models of tunnel.



Requirements ⁽¹⁾

Supported devices	Computers with Microsoft Windows 7 to 10 operating system (32 and 64 bits) Bluetooth Interface
Supported total stations	Spectra Focus 35 More details on the product's page on our website

⁽¹⁾This information is for guidance only. More detailed information about TcpTunnel requirements at www.aplitop.com

Reseller

www.aplitop.com

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