Trimble Access Software: Pipelines

Key Features

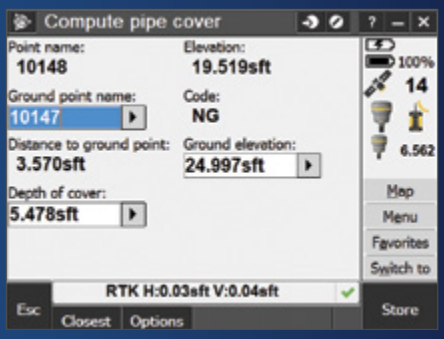
Streamlined workflow

Merging of tally and weld mapping data from multiple crews

Attributes linked to surveyed weld through tally and weld mapping

Rigorous data management

Fully customizable outputs and reports



Learn more at:

http://apps.trimbleaccess.com

Optimize Pipeline Surveys in the Field and Office

Streamlined Workflow

Trimble® Access™ Pipelines adds powerful tools to collect pipe attribute data, record the relationship between welds and pipes (joints), and then when the pipeline is surveyed, electronically link the joint attributes to the measured welds. All data is recorded electronically, available for checking at every step in the process, and all recorded attributes are stored with the survey data. This process streamlines the workflows in the field as well as in the office.

Record Joint Attributes in the Tally

Use a pipe manufacturer manifest as a starting point for checking and recording joint attributes, or create a new tally by recording the information stencilled on the pipes. The tally attributes are recorded and include position, time, and status information so that you know when and where the attributes were checked.

Modifying the joint length usually indicates a joint has been cut, and triggers the Pipelines software to automatically create a new PUP joint in the tally that has the same attributes as the original joint.

Record Joint and Weld IDs

The joint mapping process records the weld ID and the related joint IDs, thus linking the joint map file to the tally file – and allows the tally details to be checked again if required.

Multiple survey crews can check the tally, and map welds to joints, with the data merged in the office and new master files synchronized back out to the field using AccessSync. Create custom reports to review tally and joint mapping data and to see progress. Generate KML files to view attributes and tally and joint mapping progress in Google Earth.

Survey Pipeline

When surveying the weld, simply enter the weld ID to link and store the attributes of the joint ahead and joint behind along with the survey measurement. Automated routines are available to check that the distance between welds matches the joint length in the tally, and to compute cover to ensure it meets minimum specification. These automated checks significantly streamline workflows and ensure data integrity at all times.

Outputs, Reports and Additional Utilities

Generate customized reports for the tally or joint map data, or the surveyed pipeline on the controller while in the field or back in the office. All the attribute data is stored with the surveyed welds, so generating complete reports is easy without the need to merge data from multiple sources later.

Designed for Demanding Customer Requirements

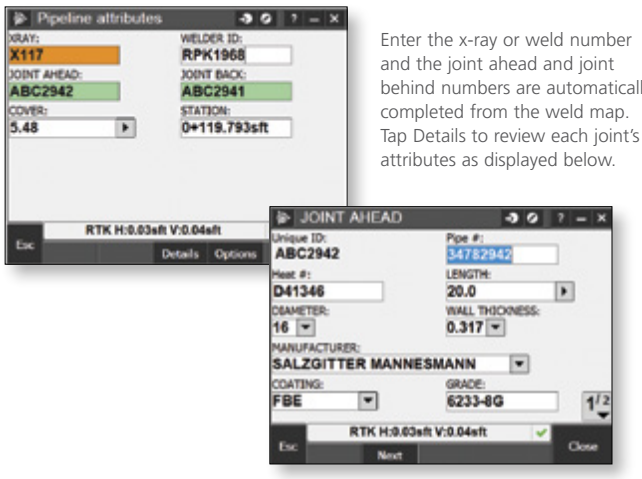
Trimble Access Pipelines is the ideal application for the pipeline surveyor who requires an extensive range of powerful routines to streamline:

- Attribute collection and joint mapping
- Linking of attributes when surveying welds
- Automated cover computations
- Deflection angle and crossing computations
- Reporting

Trimble

Pipeline Tally

Feature	Details
Create Tally	• Create a new tally when the manufacturer manifest is not available – Last used defaults can be set for fields such as 'manufacturer' that don't often change • Provides the ability to add a Unique joint ID to a manufacturer manifest • Records position, station and time, whether the joint details have been modified, and if they have been checked • Automated process to create PUPs when a joint length is modified
Check Tally	• Use to check a manufacturer manifest that already contains a unique joint ID • Records position, station and time, whether the joint details have been modified, and if they have been checked • Automated process to create PUPs when a joint length is modified
Joint Mapping	• Records relationship between welds and joints, as well as bends and loose ends • Provides access to the joint details in the tally for review and update • Automated process to create PUPs when a joint length is modified
Tally Reports	• Create custom reports on the data recorded in the tally and weld map files, including: – CSV files with weld and joint position and attribute details – Tally and weld map progress – KML files giving a graphical representation of progress



Enter the x-ray or weld number and the joint ahead and joint behind numbers are automatically completed from the weld map. Tap Details to review each joint's attributes as displayed below.

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Feature	Details
Compute Intersection Angle	• Calculate the angle that other pipelines or utilities cross the pipeline
Compute Deflection Angles	• Calculate the horizontal and vertical deflection angles between three points
Averaged Laser Position	• Measure three laser points to the same location and then compute an averaged position
Generate Points for a Surface	• Projects topo data for the alignment out to the width of the corridor along the alignment to create a surface from which cover calculations can be made

Measure Pipeline Points

Feature	Details
Compute Pipe Cover	• From a surface model • From a previously measured point • From the closest point • Search only specified point codes • Minimum cover check based on: – Specified minimum – CSV file defining Station and Minimum cover
Pipeline Attributes	• Define the weld or x-ray ID, and the joint IDs are automatically populated from the weld map • The joint ahead and joint back IDs then link to the joint attributes from the tally file
PUP Creation	• Automated process to create PUPs when a joint length is modified
Joint Length	• Automatic check of the distance between measured welds and the joint length defined in the tally
Stationing	• Horizontal or slope stations computed from the design alignment and recorded with positions
Exclusion Zone	• Warns when you enter an exclusion zone • Warns if you try to store a point in an exclusion zone • Records when you enter and exit an exclusion zone
Inclusion zone	• Warns when you try to store a point measured outside the corridor

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