

# USWM RUNCOM performs a high-accuracy direct comparison of remaining wall thickness

The ability to calculate accurate corrosion growth rates will be a key determinant in the success of your corrosion-management strategy and, consequently, the future integrity of your pipeline.

## Increase the value of your data

RUNCOM™ is GE's suite of run-comparison software used to analyze data from multiple in-line inspections. It performs a direct, quantitative comparison to provide your decision makers with highly actionable information.

Our highly skilled analysts use USWM RUNCOM to compare data from our UltraScan™ WM inspection tools. We have other RUNCOM software to compare data from our MagneScan™ inspection tools – as well as data from other vendors' tools. Importantly, UltraScan WM and magnetic signals can be compared in the event that successive inspection runs utilize different technologies.

The software details corrosion activity along an entire pipeline, confirms the effectiveness of past remedial measures, and provides the technical basis for developing safe and cost-effective remediation and operating plans.

## Perform 'pure' comparisons

While less advanced comparison methods can indicate extreme corrosion growth between inspection runs, they cannot reliably quantify the precise extent or location of active corrosion. But this is exactly the level of detail needed to properly prioritize corrosion sites and develop successful, economical remediation strategies. In fact, it is for this reason that operators are advised to select a high-resolution inspection tool for their ILI activities.

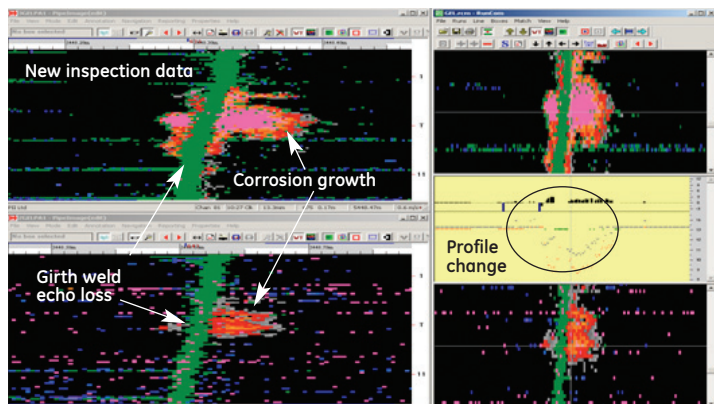
USWM RUNCOM provides a superior solution because it does not rely on previously processed data or second-hand information. One of the most common sources of error is the incorrect matching of corrosion sites. RUNCOM was developed specifically to eliminate this issue by performing a direct and quantitative comparison of the raw inspection signals. The RUNCOM software facilitates exact matching of multiple sets of inspection data, accurate identification of active corrosion sites, direct measurement of the corresponding reduction in pipe wall thickness and determination of the actual corrosion growth rates.

## Procedure summary

- RUNCOM first performs a complex analysis of the discrete sets of inspection data to guarantee that defects are correctly matched between runs.
- All detected corrosion areas are initially matched based on linear distance to remove the inevitable, random "along-pipe" errors caused by odometer slippage.
- The software then accounts for changes in construction that may have occurred during the survey interval (allowing for such instances as new pipe joints from cut-out repairs).
- Successive survey data is visualized in multiple window format and compared to allow for qualitative identification of new sites and corrosion growth.
- Those growth rates are then quantified by analyzing clearly identifiable changes in measured remaining wall thickness.

The assessment report gives full details of where active corrosion has been identified on the pipeline and of any other significant changes that have occurred between the two inspection runs.

RUNCOM reporting software is also available. It provides advanced filtering, navigation, graphing and reporting to facilitate viewing, interrogation, evaluation and exporting of the corrosion growth information from the RUNCOM analysis.



USWM RUNCOM provides a high-accuracy, direct comparison of the reduction in remaining wall thickness along the corrosion feature profile. By detailed examination of these changes between survey runs, USWM RUNCOM gives complete confidence that corrosion growth rates have been correctly measured.



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Since its introduction in 1999, RUNCOM has proven to customers worldwide that it determines corrosion growth rates with greater confidence and higher accuracy than other methods. The information provided in a RUNCOM analysis is invaluable in the decision-making process and prioritization of the remedial measures necessary to limit future corrosion growth.

This information, together with an advanced integrity evaluation, will optimize future repair needs and re-inspection – resulting in significant cost savings – when compared with estimated rates and codified corrosion assessment methods.

## Key Features

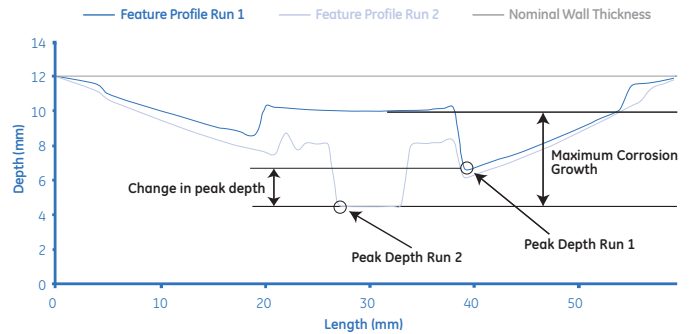
- Detection of internal and external corrosion growth
- Quantification of corrosion growth throughout the pipeline
- Identification of new corrosion sites and any other new features (e.g., dents, touching metal objects, etc.)

## Key Benefits

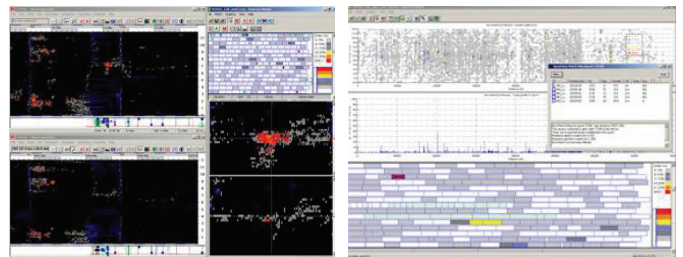
- Gives visibility of corrosion activity (and any other changes) along an entire pipeline
- Provides an early warning of active corrosion which enables cost-effective, early intervention
- Confirms where remedial measures have been effective
- Provides a segmentation of the pipeline based on corrosion activity
- Enables better-informed integrity and remediation planning decisions
- Optional RUNCOM reporting software to interrogate and evaluate the corrosion growth results

## Contact

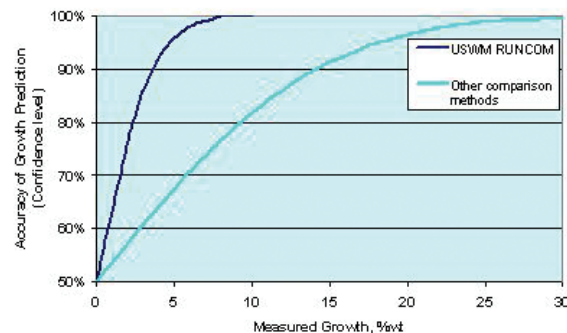
For more information on USWM RUNCOM, contact your GE representative or visit [www.ge.com/pii](http://www.ge.com/pii)



This chart illustrates significant corrosion growth that a peak-depth comparison alone would have underestimated by 3.5 mm (or 159%). Because it does not rely solely on peak depth, RUNCOM is able to measure corrosion growth along the full corrosion profile.



Examples of viewing and analysis tools available within the RUNCOM reporting software.



USWM RUNCOM typically delivers at least three times the accuracy of other box or feature comparison methods available.

