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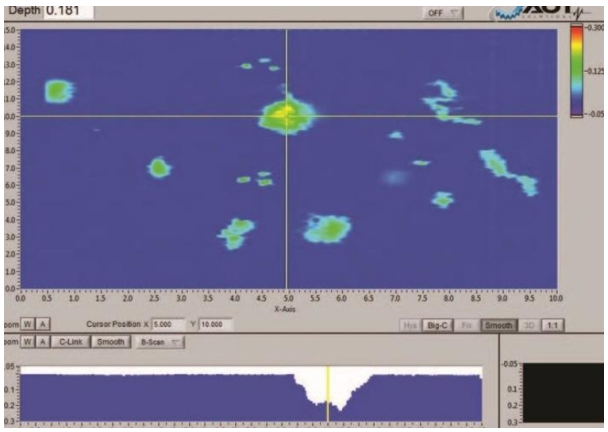
Laser Inspection and Testing Systems

The industrial sector has identified opportunities for laser testing methods to aid many tasks that were previously time-consuming and ineffective. Laser profilometry for non-destructive testing (NDT) has provided time-efficient and cost-effective approach to data collection and has increased the data-quality to a level unobtainable through manual measurements.



THE Applus+ SOLUTION

Applus+ has developed many proprietary laser-inspection systems, setting the standard in collection speed and versatility.

Through our extensive RandD into laser testing methods, we have developed LPIT (the Laser Pipeline Inspection Tool) to aid fast data-collection protocols, which obtain accurate and reliable data for corrosion-type defects on external pipelines. Unlike other systems available on the market, LPIT has been designed to support the client's needs. With quick collection speeds and data-accuracy of field-generated reports, including Kappa calculations, Applus+ pioneers the industry and continues to strive for further advances.

In addition to our proprietary LPIT system, we have a range of complementary tools at our disposal according to the client's needs. These include the Creaform HandySCANs to collect data from installations other than pipes, including vessels, plates, small pipe areas and complex geometric shapes. This extensive toolkit enables Applus+ to assist clients to collect data for all end-uses. In most cases, this data is used to determine removed volumes of material. However, the same data can also be used for accurate point-cloud creation, as-built/current-state modelling or reverse-engineering activities.

Target customers

The versatility of laser profilometry and the related data-collection protocols has opened up laser-inspection technologies to a broad customer base. Any company wanting to collect data on the current state of parts, pieces or defects can now obtain this data in a timely manner under field conditions.

Key customer benefits

Benefits of the effective deployment of laser inspection and NDT technologies include:

- Rapid on-site data collection
- Accurate and Reliable results
- Faster data analysis and reporting capabilities
- Reduced downtime, leading to cost savings