VISUS
Industry IT

JiveX NDT

Be safe – go digital!

JiveX NDT – the digital workplace for radiographic testing

JiveX NDT

Digitalization increases efficiency

Plant and product safety are top priorities in process industry. Thus, in non-destructive testing (NDT) precision and reliability are as important as **speed and economy**. **Digitalizing your NDT** will help you square the circle: digital data, unlike their paper-based cousins, will be available upon mouse click. If need be at several locations at the same time. Digital data can be **safely and securely archived** and they can be integrated into the relevant enterprise processes. Only digital inspection data that can be re-used in the NDT workflow create added value for the company. Moreover, digital evaluation and measuring devices facilitate the key inspection processes as measurements become reproducible and reading new images and comparing them to previous ones is much easier. Last but not least costs are reduced, e.g. for supplies and equipment such as paper and printers, but also for storage space. **In short: the entire NDT process becomes more efficient, more precise and faster.**

INDUSTRY 4.0

4.0

ОСТОРОЖНО
РАДИОАКТИВНОСТЬ
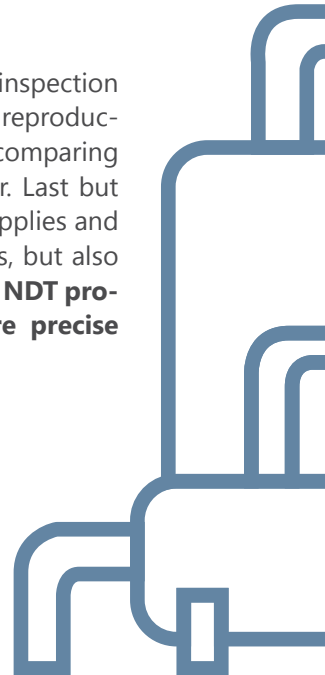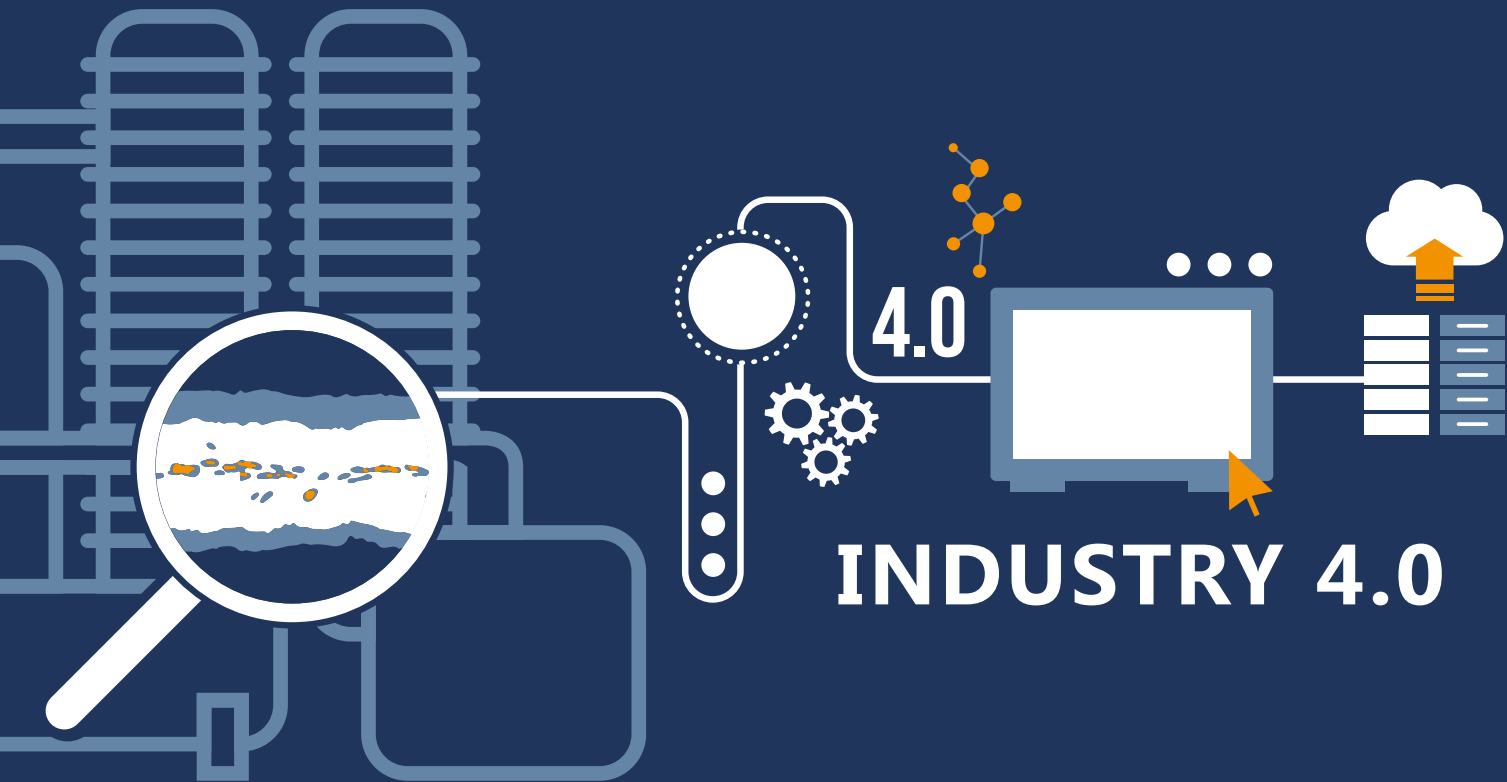
JiveX NDT: the intelligent workstation for digital radiographic testing

Once the strategic decision in favor of a transition from analog testing to digital RT (digital x-ray inspection) was made, the next challenge emerges: the implementation of an IT system that fully supports the digital processes. JiveX NDT is a workstation concept which is based on the **internationally recognized DICONDE standard**. It is vendor-neutral, i.e. JiveX NDT can acquire, process, manage and archive digital x-ray images for measurement of **residual wall thickness** or **weld seam inspection**.
JiveX NDT integrates seamlessly in any IT environment, be it SAP or ERP, RBI or MES systems, and thus enables smooth data exchange.

Integration has two crucial advantages: firstly, all inspection-related data, such as inspection number and component or object name, can be transmitted to JiveX for image assessment purposes. Secondly, all measurement and inspection results acquired in JiveX can be forwarded to all leading enterprise management systems and get stored in a central database.

Tools and viewer

Several tools, such as **image calibration** and **distance or angle measurements**, facilitate image assessment and increase reliability. The x-ray scans are read on the viewer which can be configured individually for each inspector so all necessary tools are immediately at hand.

JiveX NDT however does not only offer a workstation viewer but also a web viewer. This unique feature allows viewing of the test results from any computer or tablet with web access. **When time is of the essence inspection results can be forwarded directly to clients or departments.**
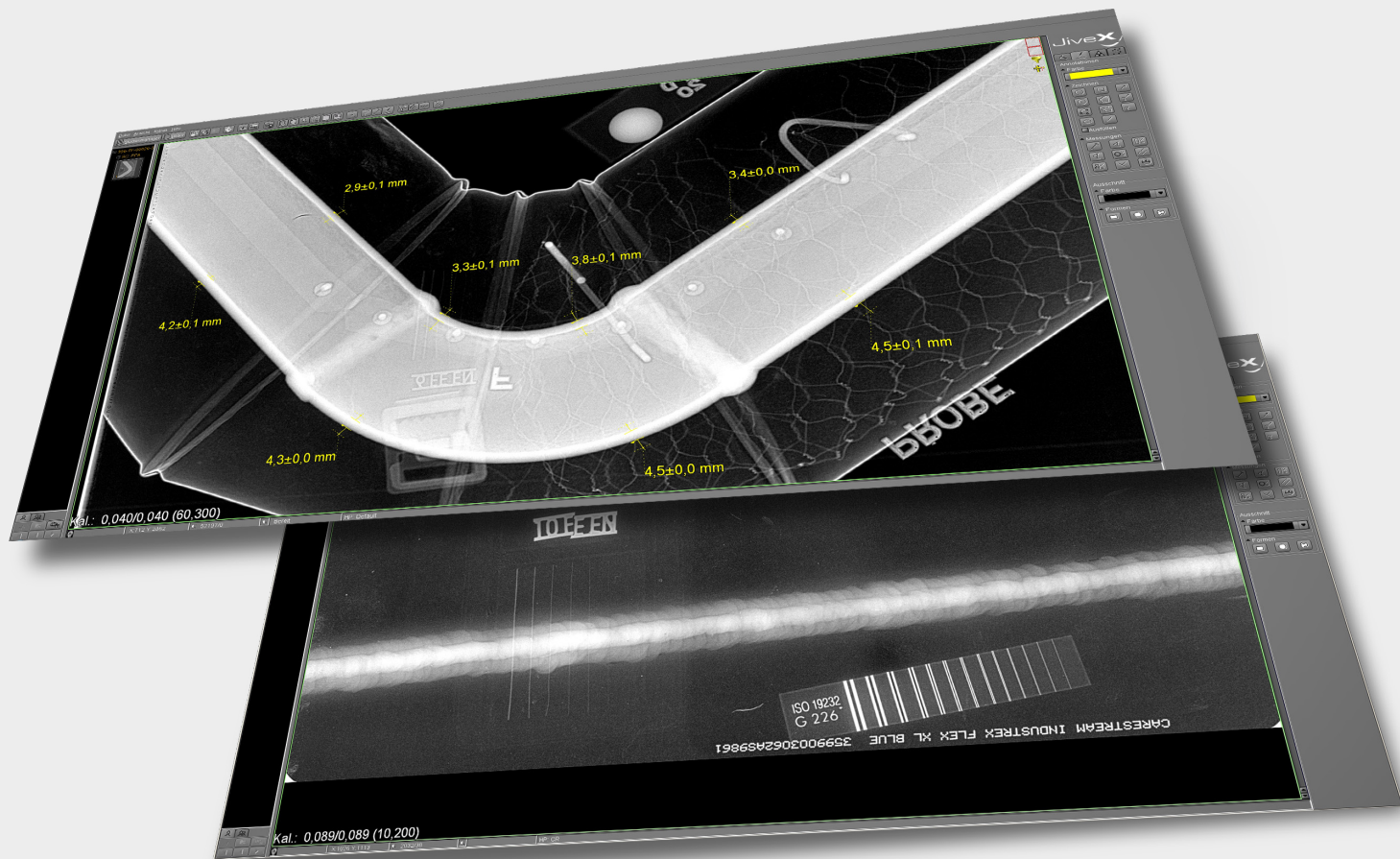
Shaping the future with JiveX NDT

Predictive maintenance is a component of Industry 4.0, a term that refers to digitalization in process manufacturing. Predictive maintenance aims to prevent disruptions and shut downs by way of regular inspections based on digital data.

Such an inspection requires that all relevant parameters are captured digitally on the one hand and that these regularly performed inspection data are available as digital input to any subsequent analysis on the other hand. Since particularly the latter requirement is frequently not fulfilled, predictive maintenance is only possible when the digital RT workstations are deeply integrated into the existing IT infrastructure, such as ERP / RBI systems or MES – as is JiveX NDT.

A perfect fit between digital strategy and enterprise depends on a number of factors. If digitalization is to generate true added value and a marked increase in productivity, all enterprise-specific factors have to be meticulously analyzed. VISUS Industry IT will be happy to support you throughout this process and the implementation of a successful strategy.

Please contact us for a preliminary discussion of your project!

JiveX NDT functionality for radiographic testing

Funktion	Simple interfacing to digital x-ray or CR, DR and CT scanners due to DICOM and DICONDE standard: no limitations on the selection of the best-suited x-ray systems.	User-specific search criteria for work lists (e.g. name of inspected component, component ID, test device, date).	Calibration of the x-ray scans, e.g. with a phantom or an inserted scale bar.	Calibration of the projection radiography scans, e.g. by way of outside diameter DN of the pipes or a phantom.	Assessment of image quality by evaluation of the duplex wire (SNR).	Optimized visualization for evaluation, no change of the original image.	Markers and text labels without changes to the original image.	Automatic measurement of residual wall thickness with display of the measuring results and standard deviation as DICONDE-compliant annotations on the image.	Simultaneous display of new and previous scans. The reading workstation supports up to 3 monitors (1 side, 2 grayscale calibrated).	Archiving and data replication: supports compliance with audit requirements.	Optional interfaces to additional test devices, also for different procedures (UT, VT, PT, MT, etc.)	Optional interfaces to existing management systems, such as ERP, QA or lab systems.	Optional import of all relevant test reports: all data are only a mouse click away.
Relevant for RT x-ray scans	X	X	X		X	X	X		X	X	X	X	X
Relevant for RT projection radiography	X	X		X	X	X	X	X	X	X	X	X	X

NDT archive for all test procedures

PT/MT · RT-D · RT · VT · Camera · UT · PDF Report →

JiveX NDT Server
- audit-proof long-term archiving
- DICONDE-compliant and manufacturer-neutral

→ JiveX NDT Viewer
- can be integrated into the ERP system, e.g. SAP

YOUR BENEFITS AT A GLANCE

▸ **Increased analytical confidence due to reproducible values**

▸ **Workflow optimization due to increased standardization and increased data availability**

▸ **Audit-proof archiving of the documentation in compliance with Directive 2009/104/EC and other relevant regulation**

▸ **Seamless, digital networking as a basis of the digital transformation of NDT**

VISUS Industry IT is an innovative and dynamic company, based in Bochum, Germany, whose IT solutions take material testing into the digital future. With **JiveX NDT**, VISUS Industry IT has developed a software package which facilitates and increases the safety of destructive as well as non-destructive testing in different industries. The system is designed to intelligently and cost-efficiently support and manage the transformation of analog processes into Industry 4.0 processes. The VISUS Industry IT products are based on globally recognized standards such as **DICONDE**. This strategy allows extremely flexible application of the systems since test modalities of any manufacturer can be connected. Moreover, JiveX NDT features a modular architecture which easily adapts to company-specific environments.