The Aerostructure Inspections World Reference

TESTIA is pleased to share the latest news from its branches over the world:

We are proud to have been awarded the “Grand Prix V.I.E. Entreprises” from Business France, in the ETI category (mid-large companies). This accolade especially applauds TESTIA’s commitment towards its “V.I.E”, our young Sales Engineer who have been supporting our international development.
A Testia Research and Development Project: Metal Powder Characterization with CT

Additionally to “normal” inspection of additive manufacturing (AM) parts, Computed Tomography is another promising method used by TESTIA. Over the past few years, the mechanical properties of AM metal parts have been developed immensely. But there is still potential to improve reproducibility. Metal powder plays a key role for this improvement and its parameters need to be thoroughly studied to ensure a good quality of printed parts.

We’re also glad to announce TESTIA Mexico has been accepted as an associate of the prestigious FEMIA (Mexican Aerospace Industry Federation).

Testia provides inspections for manufacturing and maintenance, worldwide and 24/7. All our inspectors are certified and tests are carried out in compliance with PART 145 and FAR 145 international regulations. For more information, contact us.
Masters thesis, which can inspect several parameters with only one scan: particle size distribution, particle shape, closed pores and powder cleanliness. Besides the new CT scan process he also developed an image quality indicator that enables a differentiation between different types of material inclusions (impurities). Our goal is to offer this scanning method as a TEST service in the near future.

Example of a CT scan of titanium powder

**NADCAP certifications**

Both our shopfloor in Nantes, France and our site in Bristol, UK have received their NADCAP re-certification for UT inspections.
A new Testing Standard for the Orion Program

Before the Orion space mission flies to the moon in a few years, there is still a lot to prepare - for example new testing standards for the components of the spacecraft. This is exactly what TESTIA is working on, together with Airbus Defense and Space, ESA and NASA: The CFK tubes that will be used to hold the solar array wings of the spaceship got their first ever NDT inspection.

After a few field tests, done by TESTIA and Airbus in Bremen, all involved companies met in Leiden (Netherlands) to develop a test specification for thermography testing of the tubes. In a clean room, 700 single image shots are done, via lock-in and hot air gun stimulation. Since these tubes have never before been tested with this procedure, all partners had to put their expertise together to develop it from scratch. Based on the specification as the first step, a standardized process is now being developed for future inspection of the components after production as well as after the load test.

The team that develops the testing procedure at their meeting in Leiden, Testia employee Markus Stehmeier at the right side.
Boeing approval

TESTIA Mexico recently got Boeing’s approval for Level III consultancy services for Magnetic Testing (MT).

Supporting its other ranges of services, Testia strives to continuously develop its engineering services, which include operations as various as NTM, tear-down, chemical testing, periodic verification, SHM and more. For more information, contact us.

Structural health monitoring on a Hamburg landmark

Structural health monitoring (SHM) is a useful technology not only for Aerospace, but many other areas as well - whenever structures need to be monitored over a longer period of time.

The TESTIA team from Stade has proven this recently, at the famous Köhlbrand bridge in Hamburg. They installed about 40 measuring points on the bridge’s structure. They are used to test the load and stress on the bridge for several months and years. The data will support plans for building a new bridge in the future. Stretching, temperature change, compression, vibration - all can be measured permanently and precisely.

As Dominik Schmarje from TESTIA’s SHM team puts it: “When a fly lands next to one of the measuring points, we will notice it.”
One of the many measurement points our team applied on the bridge.

The Köhlbrand bridge in Hamburg.

Testia's pioneering spirit keeps investing into innovation to develop the future of NDT. Testia offers a unique range of NDT inspection equipment for quick and efficient analysis of aerostructures and components. For more information, contact us.
The Smart UE1 praised by ST Aerospace

The global MRO ST Aerospace, based in Singapore, recently purchased one of TESTIA’s Smart UE1. The Smart UE1 is the Swiss-army knife of NDT inspections with both UT and ET applications, along with many additional modules.

We are honoured ST Aerospace trusted TESTIA on this purchase, which they praised after a few days in use:

« Very often we have to do both UT and ET inspections at the same time when we go on aircraft. So the fact that the SmartUE1 combines the two technologies is a big advantage. We have this incentive to become more and more efficient and we believe this tool can help us to achieve that goal.

[...] Because it can replace several tools of our workshop, we can also save costs on aftersales and calibration on the long term.

[...] Buying a new equipment involves a part of risk. But because Testia has this worldwide setup, including the facility in Singapore, we trust them to provide us with a local support and be reactive if we need it »

Chua. NDT dept ST Aerospace Services Co

Discover the Smart UE1

ST Aerospace NDT team along with TESTIA Asia-Pacific experts for a training session on the Smart UE1
for NDT Aircraft Inspections”, presenting TESTIA’s innovative tools and services to support faster and more efficient inspections.

On the other hand, our Technical Sales Manager Bernardo Ordóñez spoke about the “Advanced Drone Inspection for Aircrafts”, showcasing Airbus’ Inspection Drone whose software TESTIA developed.

The show & the conferences were a great occasion to present our range of Aerostructure inspection devices.
Guests from China visit Testia at Bremen

In mid-September, TESTIA GmbH had the honor to welcome guests from China: A delegation of over 20 directors and managers of China Aerospace Science Corporation visited the new EcoMaT office building in Bremen during a professional training journey to Germany.

On their short stay, they learnt more about the wide range of TESTIA NDT Products and TESTIA Training Services. Besides, they took part in a short hands-on with remote assistance technology (see image).
TESTIA holding its 1st Showcase & Networking Meeting in Asia-Pacific

On Tuesday, 24th September, our Singapore team hosted TESTIA's first ever Showcase and Networking meeting in Asia-Pacific.

This event, organised straight after the end of MRO Singapore's first day, revolved around major theme: Aerostructure Inspections future trends by current solutions.

Our local team, along with our CEO Mr David Rottembourg presented TESTIA's innovative tools and solutions to support airlines, MROs and NDT professionals.

The formal presentation was followed by an exchange with the audience, demonstrations of the tools and a cocktail.

We look forward to hosting such an event again soon!
TESTIA CEO David Rottembourg leading the panel discussion

Singapore Sales Manager Maxime Bellocq presenting TESTIA's Smart UE1
Thank you to all the participants!

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Meet us next

MEET US NEXT

**Inter Airport Europe**  
Munich, Germany  
October 8th-11th  
TESTIA on booth #480 with SATAIR

**MRO Europe**  
London, UK  
October 15th-17th  
TESTIA on booth #1037

**VII COPAEND - Conferencia Panamericana de Ensayos No Destructivos**  
México City, Mexico  
October 21st-24th  
TESTIA on booth #5

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Check our video
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