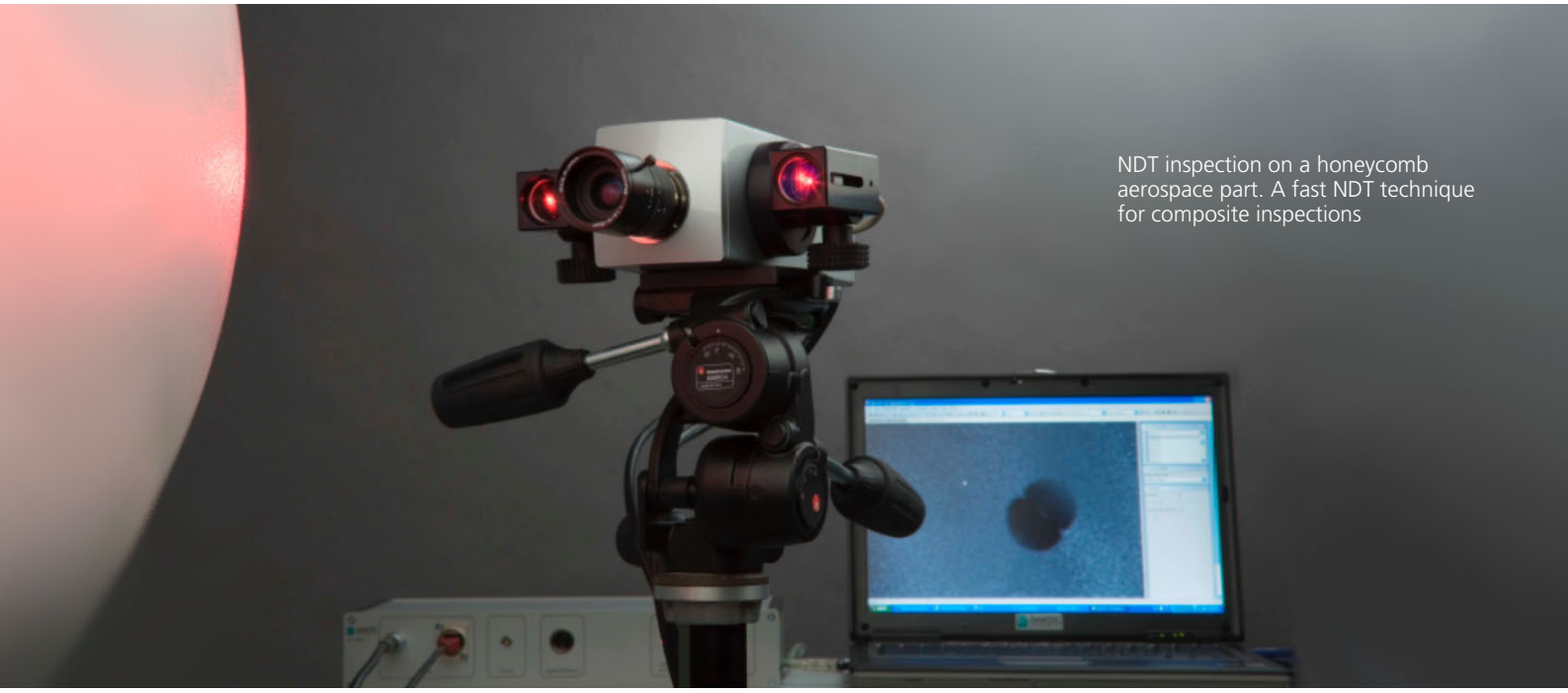
ALAVA INGENIEROS

DANTEC DYNAMICS



NDT inspection on a honeycomb aerospace part. A fast NDT technique for composite inspections

NDT INSPECTION ON COMPOSITES WITH SHEAROGRAPHY

Digital Shearography NDT System Q-800

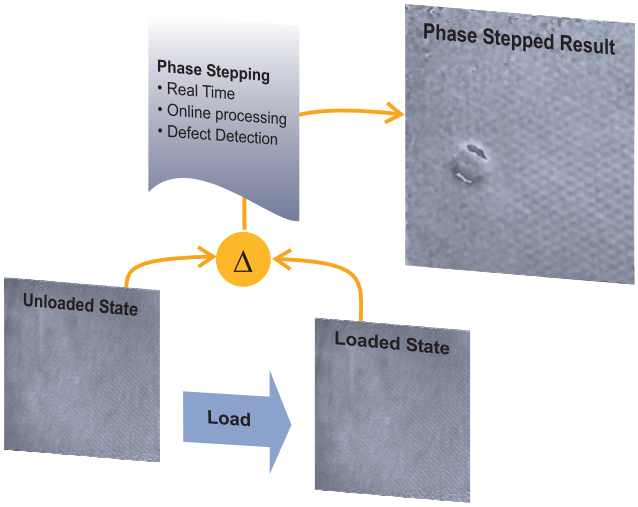
Applications

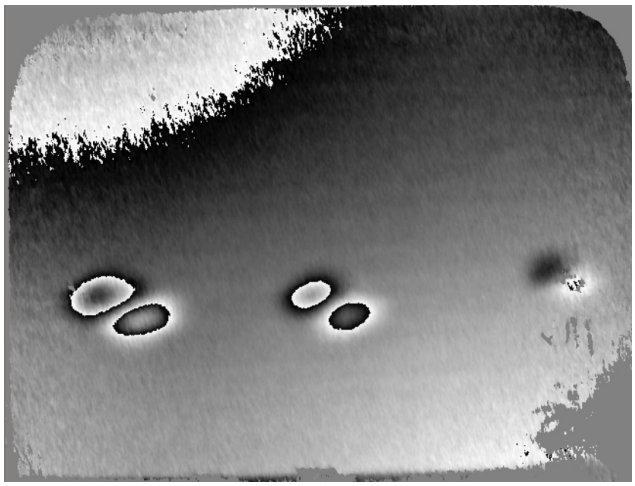
- A Non-Destructive Testing method for a large variety of different composite materials
- Reinforced plastics, laminates, honeycomb, foam, wood, metal, glare etc.
- Approved in the aerospace, automotive, wind turbine and other industries

Features

- A certified NDT method, ASNT, EN 4179, NAS 410 and ASME
- Detects delaminations, disbonds, kissing bonds, wrinkling, impact damage and much more
- Optical and highly efficient with inspection rates of up to 1000 mm x 1000 mm / minute
- Non-contact and full field - no surface preparation
- Live display - fast results
- Easy Integration with a robot for an automatic NDT system

NOVA INSTRUMENTS
a Nova Instruments company





Shearography results of "dry spots" on a rotor blade

Wind Power Applications

Shearography is an ideal method to inspect rotor blades due to its unique capability to detect wrinkling and disbonds on non-monolithic structures. In combination with the large area testing capabilities shearography is one of the most important NDT methods for production and in-field testing of rotor blades.

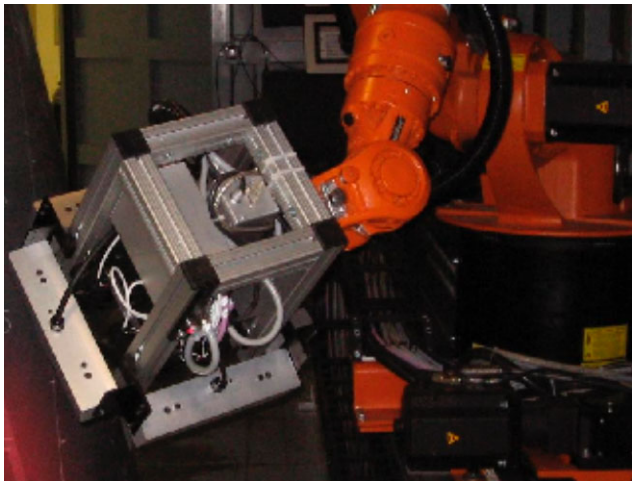
Rotorblade NDT inspections with Shearography

High Performance NDT

The Q-800 Laser Shearography System is a compact and fully portable NDT measuring solution that can detect defects, delaminations, disbonds, kissing bonds, wrinkling, impact damage and much more.

Robotic Q-800 Shearography NDT

Dantec Dynamics delivered in 2008 a fully automatic robotic Q-800 shearography system for a leading business jet manufacturer in the USA. The robotic system is capable of inspecting 1-2 m^2 per minute over complex geometries, which is cutting edge performance in the world of NDT. The system operates in a production environment, inside a vacuum chamber. The system's interface is designed for ease of operation and harmonization with a company's written practice standard, in accordance with SNT-TC-1A or equivalent.



Automated Robot Shearography System for production NDT testing of sub-assemblies parts for a Business jet aircraft manufacturer

Additional information

For additional information please contact your Dantec Dynamics representative.

The specifications in this document are subject to change without notice

DANTEC DYNAMICS

www.dantecdynamics.com

ALAVA INGENIEROS

Edificio Antalia
Albasanz, 16
28037 MADRID
Tel. 91 567 97 00
Fax: 91 570 26 61

Torre Mapfre-Vila Olímpica
Marina, 16 - Planta 11-C 2
08005 BARCELONA
Tel. 93 459 42 50
Fax: 93 459 42 62

www.alavaingenieros.com
alava@alava-ing.es

Publication No.: F-Q800_10-04