

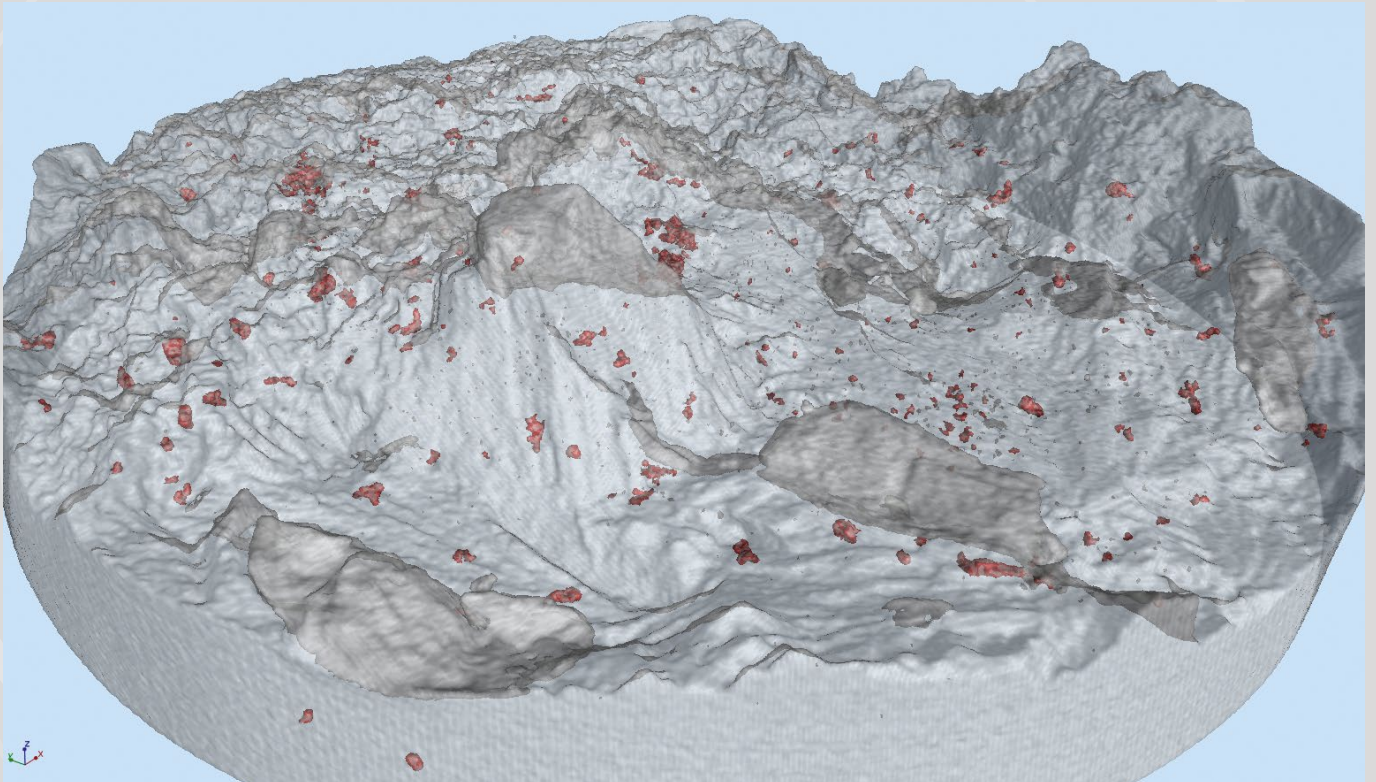
Intelligent Testing

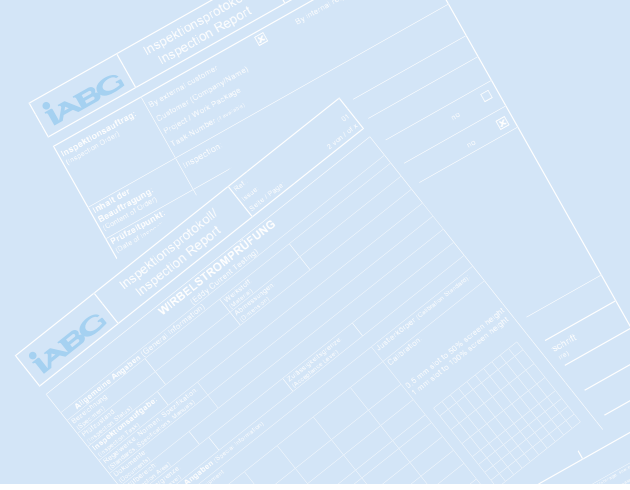


Non-Destructive Testing

NDT

NON-DESTRUCTIVE TESTING





IABG NDT Services

Ensuring the structural integrity specific structural analyses and adapted non-destructive inspections are required. IABG provides expert consulting concerning suitable measures for sustaining structural integrity and offers qualified technical personnel to perform structural inspections. We carry out inspections to meet our customers' unique needs as per requirements in compliance with the regulations by the authorities. Our portfolio includes:

Structural Inspection

Whether in our testing laboratories or on-site, we carry out inspections in a flexible manner, using the state-of-the-art technology to exceed our customers' expectations. Our highly experienced specialists are qualified up to Level III under EN ISO 9712 or EN 4179 (NAS410) in Eddy Current Testing (ET), Ultrasonic testing (UT), Dye Penetrant Testing (PT), Magnetic Particle Testing (MT), Visual Testing (VT) and XRay.

Structural Health Monitoring (SHM)

- Advising on the application of SHM sensors
- Collaboration on research programmes
- Preparation of feasibility studies and cost-benefit analyses
- Validation, verification and qualification of SHM sensor technologies

Failure Analysis

IABG materials testing laboratory is an independent facility accredited for material and failure analyses. Our methods and reports comply with the VDI3822 standard.

- Material analysis
- Root cause investigation
- Failure prevention measures

Technical and Scientific Consultancy

- Selection of inspection techniques and preparation of associated specifications
- Development and validation of NDT procedures
- Performance of non-destructive inspections
- Optimisation of structural inspections using NDT techniques
- Consultancy and quality assurance for the development and manufacturing of structures

Inspection and Damage Documentation

- Compilation of inspection manuals (Non-destructive Testing Manual)
- Design and manufacture of calibration standards within the framework of the inspection manual
- Documentation of inspection results according to customer requirements, or IABG performance

Damage documentation and damage management are captured in the software DamDoc, an IABG serverbased database. The experience of numerous structural fatigue tests on aircrafts is integrated in the database and enables via various interfaces the safe and fast communication and coordination with our customers.

Cross-sectoral references

- Airbus family, e.g. A380, A320, A400M, A350 XWB
- BMW
- Bombardier Aerospace: C-Series, Global 5000/6000
- Deutsches Zentrum für Luft- und Raumfahrt (DLR)
- Fokker
- OptoPrecision
- Sonaca



AUTOMOTIVE



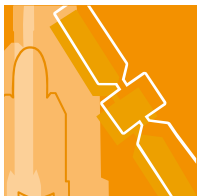
INFOCOM



MOBILITY, ENERGY & ENVIRONMENT



AERONAUTICS



SPACE



DEFENCE & SECURITY

About IABG

We are a closely networked business group and offer integrated, future-oriented solutions in the sectors Automotive • InfoCom • Mobility, Energy & Environment • Aeronautics • Space • Defence & Security. We understand the requirements of our customers and support them independently and competently. We implement effectively, efficiently and with target orientation. We operate reliably and sustainably. Our international market presence and our success are based on technological excellence and a fair relationship to our customers and business partners.

About IABG Aeronautics

We resort to decades of experience of entire aircraft structures or components testing with regard to strength and life span. The items under test have to withstand thousands of flights in our hangars, long before they enter into regular operation with the airlines. This applies to passenger aircraft well as to aeroplanes used in general aviation and to military aircraft.

With our testing facilities and know-how we are Europe's leading testing and qualification enterprise for the aeronautical industry, particularly regarding speed, flexibility, adherence to delivery dates and quality.

- Life cycle and security analyses
- Testing concepts and programmes
- Test simulation
- Static loading tests
- Strength tests of entire airframes and substructures
- Materials testing and characterisation
- Non-destructive inspection
- Flight tests

For further information please contact:

Phone +49 89 6088-4454
Fax +49 89 6088-4066
ndt@iabg.de
www.iabg.de

IABG
Einsteinstraße 20
85521 Ottobrunn
Germany
Phone +49 89 6088-2030
Fax +49 89 6088-4000
info@iabg.de
www.iabg.de

Berlin Bonn Dresden Erding Hamburg Hannover Karlsruhe Koblenz
Lathen Letzlingen Lichtenau Noordwijk(NL) Oberpfaffenhofen