

INSPECTION OF MULTI-LAYER ALUMINUM STRUCTURES IN AEROSPACE

Defects in multi-layer aluminum structures can be difficult to detect from the surface. Eddy current testing enables reliable inspection of safety-critical areas, including bolt and bore holes, without damaging the component.

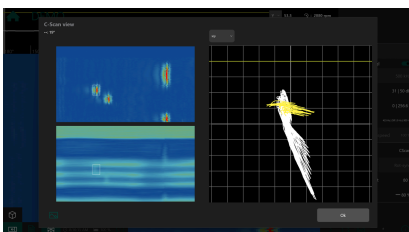


THE CHALLENGE

Defects in multi-layer aluminum structures can occur at different depths and positions. Bolt, bore and fastener holes are particularly critical, as cyclic loads can cause fatigue cracks that must be reliably detected during aircraft maintenance.

THE SOLUTION

The portable TCM enables eddy current inspection of multi-layer aluminum structures directly on the aircraft or during maintenance. Reference standards with defined defects support reliable calibration. Different probes and test frequencies allow adaptation to inspection tasks such as crack and bore hole testing.



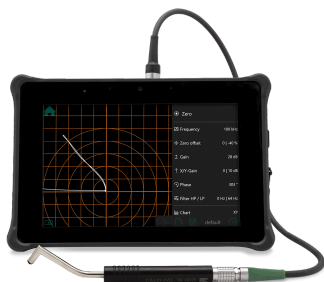
THE RESULT

The TCM enables efficient, non-destructive inspection of multi-layer aluminum structures. Reliable calibration and multiple eddy current applications in one compact platform support flexible inspection of safety-critical aircraft components.

THE PRODUCTS

TCM PRODUCT FAMILY

One mobile device for all eddy current testing tasks



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