

1.10.18. ULTRASONIC ARRAY INSTRUMENT FOR COMPOSITE INSPECTION DURING AIRCRAFT MAINTENANCE AND MANUFACTURING

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Aircraft manufacturers, maintenance service providers, and airline operators have recently started to use the ultrasonic array technology to ensure the quality of their composite parts during maintenance and manufacturing. Olympus NDT has developed various solutions with its phased-array instruments like the OmniScan PA and the Focus LT to meet the most demanding requirements. Phased-array probes and holders were specifically designed for the inspection of composite flat panels and corners. These tools combined with composite specific software features provide greater productivity while maintaining a high degree of reliability. This paper summarizes the advantages and the benefits obtained by the use of this technology.