

AUTOMATION

TACOMA brings rapid assisted defect detection to the automotive industry, with other sectors planned for implementation soon after.

ACCURACY

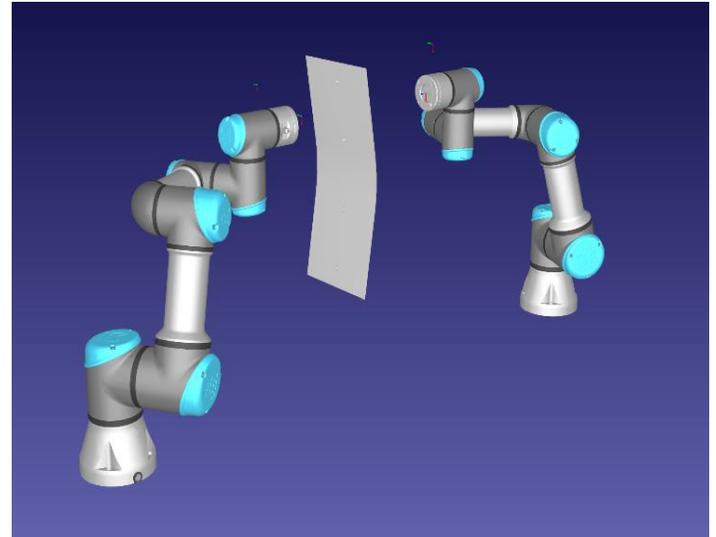
Automated path planning and ultrasonic / X-ray inspection deployed on the TACOMA system delivers accurate and minute defect detection.

SPEED

The automated nature of this solution provides production line speed scanning of parts as they are produced, something highly coveted in the current market.

TACOMA achieves scanning speeds of 30mm/s.

Rapid Non-Destructive Evaluation System for CFRPs in the Automotive Industry

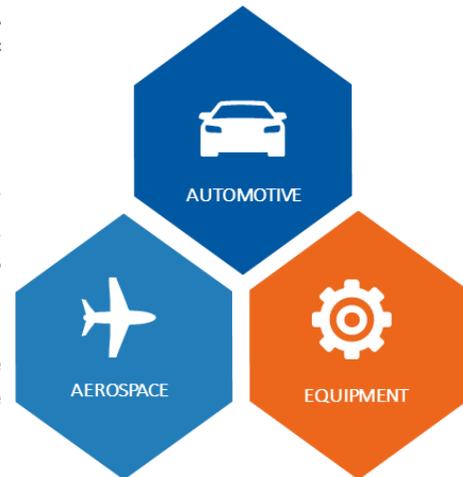


The TACOMA system uses robotically deployed advanced patented digital radiography along with air-coupled ultrasonic testing (ACUT) for the inspection of carbon fibre reinforced polymer (CFRP) parts.

With governments pledging to reduce emissions, CFRP parts are seen as a great way to lighten the weight of vehicles. Their use requires a comprehensive inspection system that can assess these parts throughout their life cycle.

Robotically deployed inspection techniques ensure that TACOMA meets the needs of the automotive industry in its ever-growing use of CFRP parts.

However, it is not just the automotive sector that looks set to benefit, as there are potential applications in other industries ranging from aerospace to wind power and rail.



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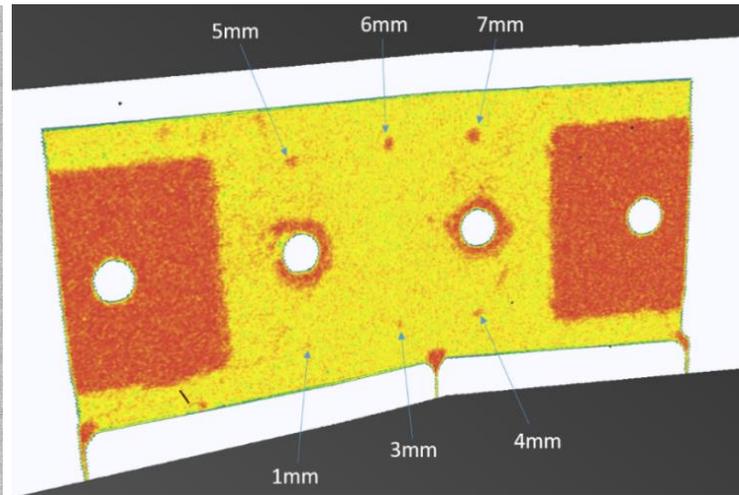
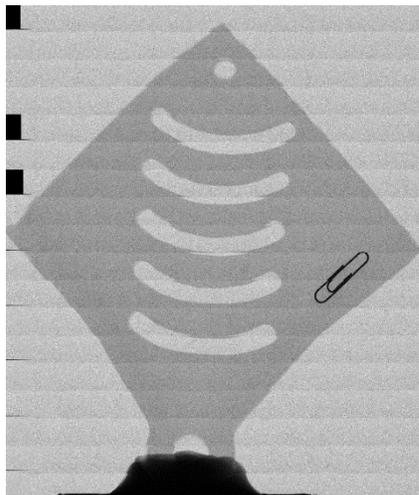
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The use both X-ray radiography and ACUT inspection ensures that all defects are detected, including:

- Debonding
- Porosity
- Foreign objects
- Matrix cracks
- Core crush
- Delamination



See above for minute flaws being detected by utilising the 2D radiography (left) and ACUT functionality with assisted defect detection features (right) of the TACOMA system

Acknowledgements:

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