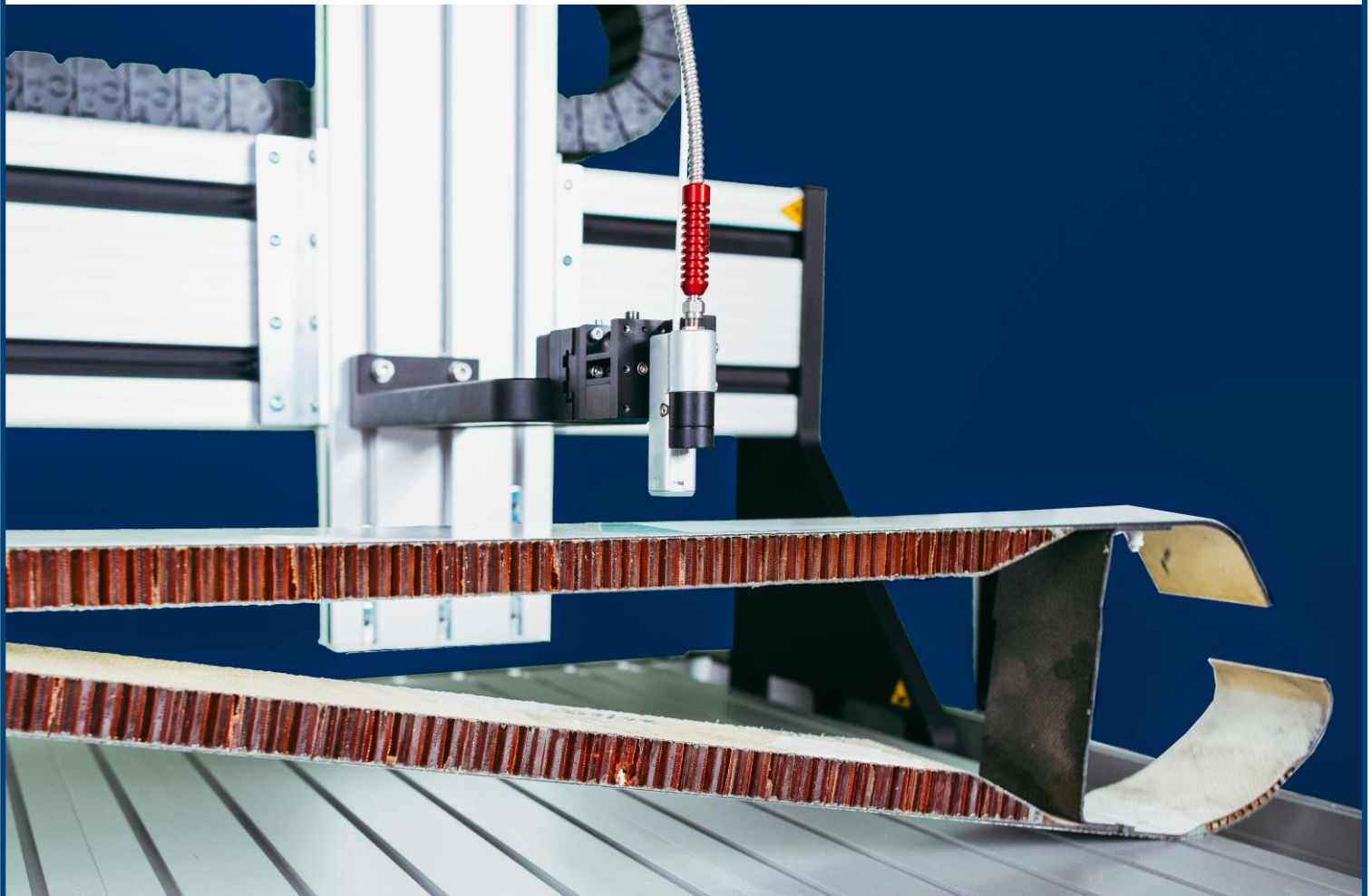


Contact-free

# Ultrasonic Testing

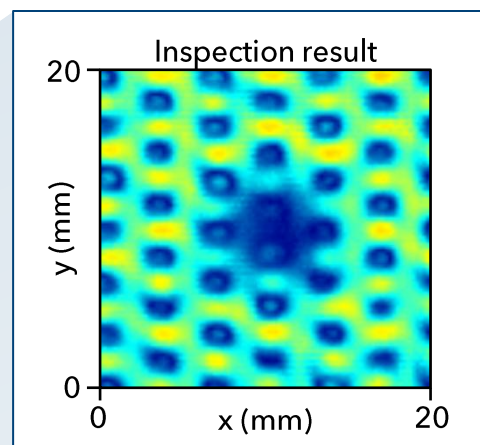


# Functionality

XARION's unique Laser-Excited Acoustics (LEA) technology enables contact-free ultrasonic testing of composite parts with high resolution. The combination of ultrasound excitation by laser pulses and XARION's proprietary ultrasound detector achieves the best of two worlds: it matches today's standard liquid-coupled UT in sensitivity and resolution, while it does not require water or coupling gel. The compact LEA probe is fully fiber-coupled and has been designed for robotic inspection from the start. Its robustness against misalignment and surface variations ensures high signal-to-noise ratio over the whole inspection area, rendering costly manual retesting a thing of the past.

## Features

- No water, no coupling gel needed
- Sub-mm resolution of internal defects and delaminations
- High-speed inspection with up to 2000 mm/s
- Robust against misalignment in stand-off and angle
- Single-sided and through-transmission arrangement possible
- Compatible with monolithic parts and honeycomb sandwich structures



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