

INNOVATION IN COMPOSITE MATERIALS

SHORTLISTED: Lineat Composites

Lineat's Aligned Formable Fibre Technology (AFFTTM) is a disruptive new fibre composite material developed in the UK that transforms the traditional manufacturing methods based on slow lay-up procedures with continuous fibres textiles.

AFFT technology aligns short fibres of 3-6mm length into uni-directional tape with highly aligned fibres, retaining up to 80% of continuous fibre mechanical properties.

A unique advantage is enabled through relative fibre movement, allowing the material to uniformly stretch and form around complex geometries.

This allows the replacement of multiple lay-up operations with a single forming operation, as well as reducing manufacturing defects such as wrinkles or fibre bridging. This innovation opens up an easy, high-volume stamp-forming route for high performance composites and help turn carbon fibre into a commodity material.

Website: www.lineat.co.uk



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