

February 14, 2024

## DITF honored with JEC Composites Innovation Award

Paris, 8.2.2024 - Hermann Finckh received the prestigious award in the category *Equipment Machinery & Heavy Industries* for the innovation **MAXIMUM WEIGHT REDUCTION OF COMPOSITE TOOLS**. The research team from the German Institutes of Textile and Fiber Research Denkendorf (DITF) developed a new modular cutting tool for woodworking machines, which was produced and successfully tested by the industrial partner Leitz GmbH & Co. KG.

The extremely lightweight planing tool was made from carbon fiber-reinforced plastics (CFRPs) instead of aluminum using a completely new modular construction principle. As a result, it weighs 50 percent less than conventional tools. It enables significantly higher working speed, which enables a one-and-a-half-fold increase in productivity. The development of the extreme-lightweight principle was performed by numerical simulation and every solution was virtually tested in advance. A patent application has been filed for the concept.

*JEC World* in Paris is the most important trade fair of composites materials and showcases the entire value chain of the composites industry. Each year, the *JEC Group* recognizes the most innovative and creative projects that demonstrate the full potential of composites through the prestigious *JEC Composites Innovation Awards*.

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Hermann Finckh (DITF) and Andreas Kisselbach (Leitz GmbH & Co. KG) presenting the JEC Composites Innovation Award. Photo: Leitz

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Award-winning planer cutter in extremely lightweight construction. Photo: DITF