

## Media Release

Voith GmbH & Co. KGaA  
Center of Competence Corporate and  
Market Communication EMEA  
St. Poeltener Strasse 43  
89522 Heidenheim, Germany  
Tel. +49 7321 37-2487  
Fax +49 7321 37-7107  
www.voith.com

### **Voith introduces innovations in automotive and aerospace composite manufacturing at JEC World 2019 expo in Paris**

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- **World premiere of breakthrough technology in composites for aerospace**
- **Voith Roving Applicator (VAR) allows high-volume serial production of carbon fiber-reinforced polymer (CFRP) components**
- **Smart Factory Industry 4.0 production at Voith sets standards in efficiency and flexibility**

**PARIS, France – With an eye on innovations that will help ensure a sustainable future, Voith Composites is supplying its advanced fiber placement technology in the development of vertical-takeoff air taxis aimed at enhancing urban mobility. It is all part of Voith's focus on alternative propulsion systems as a means to power carbon-neutral automobiles and aircraft for generations to come.**

Capitalizing on the Voith Roving Applicator technology – a two-time winner of the JEC Innovation Award – Voith Composites has been contracted to design and serial produce highly efficient, extremely light and stable carbon fiber-based composites to equip multi-passenger, autonomously piloted vertical take-off air taxis. This groundbreaking innovation has the potential to radically alter the transport of goods and passengers in areas with high population density. As this aviation concept reaches mass production volume, air vehicles will help alleviate city congestion and contribute to environmental sustainability.

The future of the air taxi concept and its wide-spread adoption depend on the ability to affordably mass produce the units. Already in next-generation development, Voith's VRA technology – a continuously digitized and automated production line for the large-scale manufacture of CFRP structural components – will contribute to this goal. The system drastically reduces waste and thus material costs by depositing the carbon fibers to near-final

shape, while delivering the specific strength and stiffness that is critical in aerospace design.

“With our Smart Factory in full operation, we are able to supply our customers in all industries with lightweight composite components,” said Matthias Odrobina, CEO of Voith Composites. “From the initial idea to engineering, simulation and serial manufacturing, we are the ideal partner for companies that are driving innovation.”

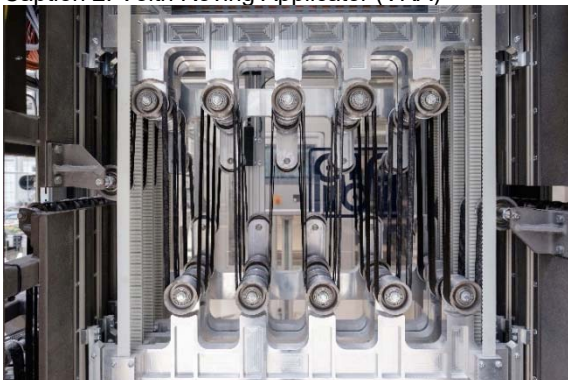
Learn more about this project and Voith’s VRA production line at JEC World 2019, Hall 6, Booth #F83.



Caption 1: Aerospace duct segment



Caption 2: Voith Roving Applicator (VRA)



Caption 3: VRA fiber-to-component technology



Caption 4: Voith composites production line, Garching, Germany

## About the company

Voith Composites specializes in the development and production of customized carbon, glass fiber and hybrid solutions for the automotive and aerospace industries. The production ranges from first concepts, design and construction of component prototypes to series production in industrialized manufacturing processes.

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, oil & gas, paper, raw materials and transport & automotive. Founded in 1867, the company today has more than 19,000 employees, sales of € 4.2 billion and locations in over 60 countries worldwide and is thus one of the large family-owned companies in Europe.

## Contact:

Oliver Berger

Voith GmbH & Co. KGaA

Global Business Partner Composites

Phone: +49 7321 37-2487

[Oliver.Berger@voith.com](mailto:Oliver.Berger@voith.com)

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