

# PRESS RELEASE

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## **ILA Goes Digital – Automation & Production Technology for Adaptable Aircraft Production**

**Live event – July 1, 2020 - 11:00 to 11:45 (CET)  
"Automation in Aerospace Industry @ Fraunhofer IFAM"**

The Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM | Stade is presenting its forward-looking R&D portfolio for the first time at the "ILA Goes Digital 2020" ([www.ila-berlin.de/en/node/5174](http://www.ila-berlin.de/en/node/5174)) until July 31, 2020. The focus of the digital trade fair presence will be the live event "Automation in Aerospace Industry @ Fraunhofer IFAM" on July 1, 2020.

During the live event, the experts for Automation and Production Technology from Stade will be giving extraordinary insights into current project results during a tour into the 4000 square meter hall at the CFK NORD Research Centre. The focus will be on Integrated Production Systems, Assembly Technologies and Adaptive Application Systems for adaptable production in civil aircraft construction. Afterwards they will be available in a live chat for individual questions of the participants.

### **Highlights of the live event "Automation in Aerospace Industry @ Fraunhofer IFAM"**

➔ **Automated cabin & cargo lining and hatrack installation method – Clean Sky2 ACCLAIM**

The Clean Sky 2 ACCLAIM project aims to automate cabin and cargo assembly processes for new lining and hatrack parts led by Fraunhofer. The project work also includes virtual reality (VR) based assembly planning and an augmented reality (AR) process environment for the installation and quality assurance. A fuselage section made for automation is used as mock-up for validation.

➔ **Mobile robotic systems for flexible solutions of production applications – MBFast18**

In recent projects like MBFast18, several different mobile and highly precise robotic systems for machining applications have been developed. With interchangeable manipulators, multifunctional use and individual adaptations can be maintained. Further R&D-aspects include the development and examination of mobile holding fixtures, measurement systems and end effectors on AGVs.

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→ **Automated adhesive layup and stringer integration – AutoGlare**

The AutoGlare project aimed to a fully automated assembly of a fuselage shell consist of a Glare composite. The Fraunhofer IFAM research focus within this project was the development of an industrial robot tool for an automatic layup of a double sided adhesive film, as well as the integration of stiffening elements using cooperating robotics. Supported by a virtual commissioning, an offline path planning was created, which allows a precise placement of the adhesive film and the integration of the stringers in a double-curved geometry.

## Livestream

July 1, 2020 | 11:00-11:45 am (CET)

→ **Download the live event into your calendar:**

[www.ifam.fraunhofer.de/content/dam/ifam/de/documents/Klebtechnik\\_Oberflaechen/FFM/Automation%20in%20Aerospace%20Industry%20@%20Fraunhofer%20IFAM.ics](http://www.ifam.fraunhofer.de/content/dam/ifam/de/documents/Klebtechnik_Oberflaechen/FFM/Automation%20in%20Aerospace%20Industry%20@%20Fraunhofer%20IFAM.ics)

→ **Follow this link to the livestream.**

Please use the "desktop version" also as a mobile participant (non-desktop device user).

[https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_NjQ0MTAxODktNWU2Zi00NjU1LWl4MTMtYTk0ODRlM2NiMmMx%40thread.v2/0?context=%7b%22Tid%22%3a%22f930300c-c97d-4019-be03-add650a171c4%22%2c%22Oid%22%3a%22be3cb616-002e-4dda-a1ac-b232508c3264%22%2c%22IsBroadcastMeeting%22%3atrue%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NjQ0MTAxODktNWU2Zi00NjU1LWl4MTMtYTk0ODRlM2NiMmMx%40thread.v2/0?context=%7b%22Tid%22%3a%22f930300c-c97d-4019-be03-add650a171c4%22%2c%22Oid%22%3a%22be3cb616-002e-4dda-a1ac-b232508c3264%22%2c%22IsBroadcastMeeting%22%3atrue%7d)



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**Further information | ILA Goes Digital 2020**

[www.ila-berlin.de/en/node/5174](http://www.ila-berlin.de/en/node/5174)

[www.ifam.fraunhofer.de/en/Events/ila\\_digital\\_2020.html](http://www.ifam.fraunhofer.de/en/Events/ila_digital_2020.html)

**Further information | Fraunhofer IFAM | Stade  
Automation and Production Technology**

[www.ifam.fraunhofer.de/en/Profile/Locations/Stade](http://www.ifam.fraunhofer.de/en/Profile/Locations/Stade)

**Photo**

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[www.ifam.fraunhofer.de/en/Press\\_Releases/Downloads.html](http://www.ifam.fraunhofer.de/en/Press_Releases/Downloads.html)



**Figure caption**

Automated installation of aircraft cabin side walls – Clean Sky2 – ACCLAIM project (© Fraunhofer).



**Figure caption**

Mobile robotic system from Fraunhofer IFAM | Stade for high-precision machining processes in aircraft construction – MBFast18 project (© Fraunhofer IFAM).



**Figure caption**

Automated adhesive film application and stringer integration for aircraft construction from Fraunhofer IFAM I Stade – AutoGlare project (© Fraunhofer IFAM).

The Fraunhofer-Gesellschaft, headquartered in Germany, is the world's leading applied research organization. With its focus on developing key technologies that are vital for the future and enabling the commercial exploitation of this work by business and industry, Fraunhofer plays a central role in the innovation process. As a pioneer and catalyst for groundbreaking developments and scientific excellence, Fraunhofer helps shape society now and in the future. Founded in 1949, the Fraunhofer-Gesellschaft currently operates 74 institutes and research institutions throughout Germany. The majority of the organization's 28,000 employees are qualified scientists and engineers, who work with an annual research budget of 2.8 billion euros. Of this sum, 2.3 billion euros is generated through contract research.

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