

KraussMaffei at JEC 2025 - Innovations for fiber composite technology and additive manufacturing

Efficient solutions for lightweight construction and industrial 3D printing processes

- KraussMaffei presents groundbreaking innovations for lightweight construction and surface technologies at JEC WORLD in Paris
- Versatile technology portfolio: FiberForm, NFPP, RTM, wet pressing, LFI, SCS, ColorForm, pultrusion, filament winding, battery encapsulation and additive manufacturing

(Parsdorf, 18.02.2025) At the JEC trade fair in Paris (March 4 - 6, 2025, hall 6, stand G104), KraussMaffei will be presenting a diverse selection of exhibits on various composites technologies as well as the printCore industrial pellet extruder live in action. The company is thus underlining its expertise in the development and implementation of complete production lines for plastic components - from planning to series production.

Customized manufacturing solutions for growth markets

KraussMaffei is focusing on lightweight and structural components for the automotive industry, including a carbon rim and a battery housing for electric vehicles, manufactured using the high-pressure RTM process. The company will also be presenting innovative exhibits with self-healing surfaces, manufactured using the ColorForm process. With the new battery encapsulation technology, KraussMaffei also offers an innovative solution for protecting battery cells with highly reactive polyurethane, which is specially tailored to the requirements of modern electric vehicles in the automotive industry.

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A tractor mudguard manufactured using the long fiber injection process (LFI) will also be presented at the trade fair. This technology combines cost efficiency for small production quantities with a wide range of surface design options such as thermoformed foils or artificial leather. This results in flexible and versatile solutions for various applications in the commercial and agricultural sectors.

In the construction industry, KraussMaffei relies on the pultrusion process to produce durable, corrosion-resistant profiles and concrete reinforcements. Visitors to the fair will be able to inspect profiles for windows and other applications as well as reinforcing bars.

Pultruded profiles from KraussMaffei's subsidiary Pultrex also offers innovative solutions for renewable energies, such as for the assembly of solar panels and for rotor blade belts used in large wind turbines. These components are lightweight, durable and can withstand high loads.

Mobility Planet: From sport to the automotive world - AIM relies on high-pressure RTM with KraussMaffei

Golf clubs, bicycles - and now also automotive: Taiwanese composite specialist Advanced International Multitech (AIM) is expanding its portfolio with KraussMaffei to include high-pressure RTM technology. A state-of-the-art complete system with sophisticated tooling produces high-quality carbon rims that impress with both precision and performance. A special highlight: the innovative carbon rim was honored by the jury of the JEC Innovation Planets and will be presented at the renowned Mobility Planet. KraussMaffei and AIM are thus setting new standards in the combination of lightweight construction and automotive technology. Visit the Mobility Planet and experience the future of carbon technology up close!

Additive manufacturing - a technology of the future

At JEC World in Paris, KraussMaffei will be presenting innovative solutions for industrial and large-format additive manufacturing. The focus will be on the printCore extruder, which sets new standards in large-format 3D printing with its high output and flexible integration into industrial robots and gantry systems.

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One highlight is the seamless integration of the printCore extruder into robot solutions that enable highly dynamic and flexible production - ideal for complex geometries and varying component sizes. This combination opens up new application possibilities beyond prototyping and ensures reliable industrial production. KraussMaffei will be demonstrating the system's performance in a live print cell with robot configuration. The solution on show is aimed at companies that want to integrate customized and scalable additive manufacturing processes into their production - based on proven industry standards and established safety concepts. With decades of experience in plastics processing, extrusion technology and material preparation, KraussMaffei is setting new standards in industrial additive manufacturing. The company's focus on large-format, robot-assisted 3D printing solutions makes it a leading partner for manufacturers who want to maximize efficiency and quality.

System solutions from the idea to series production

KraussMaffei offers complete system solutions, ranging from customized dispensing machines to fully integrated system concepts with automation and post-processing. The company also manufactures customized molds that are precisely tailored to the customer's specific requirements.

KraussMaffei experts will be on hand at the JEC to advise visitors from the concept phase through to final implementation and to find the optimum solution for individual requirements.

Photos:

1_KM_PM_rim Mobility Planet

2_KM_PM_printCore

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KraussMaffei - Pioneering Plastics

KraussMaffei is among the world's leading manufacturers of machinery and systems for the production and processing of plastics and rubber. Our brand stands for cutting-edge technologies – for more than 185 years. Our range of services covers all areas of injection molding machinery, extrusion technology and reaction process machinery. In 2022 we added additive manufacturing to our portfolio. This broad range of technologies gives KraussMaffei a unique selling point in the industry. With the high innovative power of our standardized and individual product, process, digital and service solutions, we can guarantee customers sustained additional value over the entire value-adding chain. Our range of products and services allow us to serve customers in many sectors including the automotive, packaging, medical and construction industries, as well as manufacturers of electrical and electronic products and household appliances. KraussMaffei employs around 4.200 people all over the world. With more than 30 subsidiaries and over 10 production plants, as well as about 570 commercial and service partners, we are represented internationally close to our customers. The company was founded in 1838 in Munich. Today, KraussMaffei is part of Sinochem Holdings Corporation Ltd., one of the world's leading chemical companies.

For more information: www.kraussmaffei.com

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