

KraussMaffei at the K 2025: Performance. Perfected. For you.

- Injection molding technology, automation and additive manufacturing
- World premiere for the new all-electric PX injection molding machine series and the MC7 control system
- Chopped fiber processing revolutionizes the processing of chopped glass fibers
- Self-sufficient automation impresses as an efficient assembly cell

(Düsseldorf/Parsdorf, June 16th 2025). Under the motto "Pioneering Plastics – Performance. Perfected. For you.", KraussMaffei will showcase its capabilities at K 2025 (Düsseldorf, October 8th – 16th) as a comprehensive solution provider along the entire polymer processing value chain. The focus of injection molding technology, automation and additive manufacturing will be on the latest technologies for maximum efficiency, top component quality, sustainability and consistent digitalization. The trade fair highlights include the new all-electric PX series with intuitive MC7 control, the new Chopped Fiber Processing (CFP) process, an automated assembly line as well as digital solutions and innovations in additive manufacturing.

"What sets KraussMaffei apart is the unique combination of innovative mechanical engineering, profound expertise in process technology and intelligent digital solutions. And this in the areas of injection molding, automation, reaction process machinery, extrusion and additive manufacturing," explains Jörg Stech, CEO of KraussMaffei Technologies GmbH. This portfolio is complemented by a global, high-performance service that supports customers throughout the entire product life cycle - with fast response times, maximum availability and digital tools such as the pioneersClub. "Our aim is to develop future-proof and sustainable solutions

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for our customers. Cost-effectiveness is clearly our top priority - and that's exactly what we'll be demonstrating live at K 2025 in Düsseldorf."

PX series redefined: Compact, powerful, sustainable

A highlight at the KraussMaffei stand will be the world premiere of the all-electric PX injection molding machine series. The new generation impresses with outstanding energy efficiency, excellent shot weight consistency and short cycle times. The machines offer a wide range of applications and high overall equipment effectiveness (OEE) "The new PX machines from KraussMaffei are the most advanced injection molding machines on the market. Their attractive price-performance ratio and long service life make them a future-proof investment for our customers," explains Jörg Stech.

In addition to cost-effectiveness, the new series also focuses on sustainability: thanks to state-of-the-art drive technology with energy recovery, minimal media consumption and a resource-saving machine concept, the PX machines achieve top values in terms of energy efficiency, both in operation and in idle mode. With their compact design, they also enable flexible production cells with integrated handling and conveyor technology - perfectly tailored to the requirements of modern production.

Live at K: New PX series with new LRXplus linear robot

At K 2025, KraussMaffei will be showcasing the new all-electric PX series in combination with the new LRXplus linear robot. The LRXplus series offers a wide range of functions for flexible automation and is characterized by a high level of compatibility, both with KraussMaffei injection molding machines and with systems from other manufacturers as well as with various automation tasks.

Visitors to the trade fair can experience the efficient combination of PX machine and LRXplus robot live at the KraussMaffei booth. Future-oriented applications for medical technology, technical components and packaging/logistics will be on display.

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New MC7 control generation: More power, more operating convenience

With the MC7, KraussMaffei presents a modern, web-based control platform. It impresses with its intuitive operation, powerful software and hardware architecture and the highest security standards. The MC7 architecture already includes the upcoming requirements of the Cyber Resilience Act (CRA). This means that the control system is even better protected against cyber-attacks and the distribution of malware. The CRA standard also makes it easier to connect machines to the network for digital data usage.

Another feature of the new MC7 control system is the new, web-based visualization concept, which impresses with its intuitive user guidance, clear display and extended functionality. The new interface makes set-up, operation and maintenance easier and increases efficiency in day-to-day production.

Revolutionizing the processing of chopped glass fibers

With the new Chopped Fiber Processing (CFP) process, KraussMaffei presents an economical solution for direct compounding of chopped glass fibers and polypropylene. Compared to conventional long glass fiber pellets, CFP offers significantly greater flexibility and noticeable cost advantages - while maintaining the same component performance.

At the heart of the process is a newly developed, patented screw geometry that ensures particularly efficient melting and homogeneous mixing of polymer and fibers. The result: high-quality, fiber-reinforced components with optimum material utilization.

Another advantage: CFP is compatible with all KraussMaffei standard injection molding machines and can be easily retrofitted via the KraussMaffei Service. The return on investment (ROI) is less than one year. "The CFP process from KraussMaffei is currently unique on the market. For the increasing demand for fiber-reinforced plastics, we offer a real game-changer with the CFP solution to significantly reduce material costs," explains Jörg Stech.

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Visitors to the K 2025 can experience the CFP process live at the KraussMaffei stand on a GX 650-4300 in combination with a LRXplus linear robot. A complex tailgate component for the automotive industry will be produced, providing practical proof of the capabilities of the new technology.

When every part fits perfectly - Automated assembly cell

KraussMaffei is expanding its automation portfolio beyond injection molding technology to include autonomous automation cells that are versatile and easy to integrate. At K 2025, the company will be presenting a fully automated assembly cell that assembles three plastic parts in real time - without any manual intervention. The mobile, compact unit enables particularly short cycle times with a minimal error rate.

Assembly is carried out by form-fit clipping of the components. A laser scanner then checks the height and width of the components with an accuracy of 0.01 mm. An optical inspection automatically detects and sorts out faulty parts, while the good parts are filled directly into boxes.

Digitalization that makes the difference

Digital solutions that increase efficiency and make everyday production noticeably easier are an integral part of KraussMaffei's strategy. Numerous innovations will be presented at K 2025: With the Dataset Manager, the socialProduction platform will receive new functions for transferring, versioning and comparing machine data sets. A new AI function supports machine operators with intelligent assistance in real time. Two new modules are being added to the tried-and-tested and patented APCplus machine function: cascadeX for cascade control and the new materialX database for customer-specific material parameters.

Additive manufacturing: Large format printing on a new level

Following the successful launch of the powerPrint at K 2022, KraussMaffei is presenting the new powerPrint FLEX and printCore variants at K 2025. These modular systems offer maximum flexibility, high productivity and excellent print quality for industrial applications - e.g. in design, mold making and functional end components.

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As part of a live demonstration, KraussMaffei will be showing the powerPrint FLEX in combination with the new printCore extruder in an industrial robot cell. The focus will be on mold and die making applications as well as functional end-use parts and design models.

Performance. Perfected. For you.

With the trade fair appearance at K 2025 under the motto "Performance. Perfected. For you", KraussMaffei underlines its claim to combine innovative technologies, sustainable solutions and maximum cost-effectiveness in perfectly coordinated system solutions - individually tailored to the requirements of customers along the entire polymer processing value chain.

KraussMaffei at K 2025

Hall 15, Stand C24

01_PM_K-Previews 2025_new PX.jpg

World premiere at K 2025: The new all-electric PX series with new MC7 control system from KraussMaffei sets standards in terms of energy efficiency, cost-effectiveness and flexibility.

02_PM_K-Previews 2025_LRXplus.jpg

Simply. Always. Fits: The new LRXplus linear robots from KraussMaffei can be easily integrated into any periphery

03_PM_K-Previews 2025_CFP.jpg

Efficient, flexible, cost-saving: The new CFP process from KraussMaffei enables the economical direct compounding of chopped glass fibers and PP - to be seen live at the K 2025 during the injection molding of a sophisticated tailgate component

04_PM_K-Previews 2025_CFP GX 650 .jpg

Efficiency begins in the detail: The GX 650-4300 with patented CFP screw ensures a perfect mix and optimum component quality - a real game changer in fiber-reinforced plastics processing.

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05_PM_K-Previews 2025_Autarc assembly cell .jpg

When every part fits perfectly: An automated assembly cell assembles three plastic parts fully automatically by clipping live at K 2025, inspects them with a laser scanner and camera – all without manual intervention, ensuring highest precision and short cycle times.

Photos: KraussMaffei

Further information and images in print quality are available at:

www.kraussmaffei.com

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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.

Further information: www.kraussmaffei.com

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