

KraussMaffei at the NPE: "Make plastic green" - Sustainable production solutions in reaction process machinery

- precisionMixhead - for energy-efficient PUR production
- Sustainable production of high-end interior components with ColorForm

(Parsdorf, Germany, March 18, 2024) At the NPE in Orlando, Florida (May 6-10, West Hall A, Booth W600), KraussMaffei will be presenting innovative exhibits under the motto "Make plastic green - with high quality and efficiency".

"Make plastic green" is also the benchmark for our developments in reaction process machinery," explain Dr. Frank Szimmat, Executive Vice President EMEA RPM, Managing Director KraussMaffei Technologies GmbH and Nolan Strall, President KraussMaffei Corporation. "We are showcasing pioneering possibilities in reaction process machinery for sustainable products and sustainable production. A good example is the new precisionMixhead, which has been designed for energy-efficient PUR production and particularly high product quality. With our ColorForm development, the carriers and surfaces are produced in a single work step, making it particularly efficient and sustainable."

The innovative precisionMixhead - compact, powerful, energy-efficient and easy to service

With the new precisionMixhead, KraussMaffei is presenting a mixing head at the NPE that is not only small and powerful, but has also been designed to be particularly service-friendly. It has been specially developed for the energy-efficient production of polyurethane (PUR), sets standards in product

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quality and thus contributes to sustainability in production and polyurethane products.

The innovative design of the precisionMixhead combines maximum precision in mixing quality with impressive availability for the production of polyurethane, with a production window that is up to 30% larger. The particularly customer-friendly service and repair concept is based on the rapid replacement of worn parts, which saves both time and costs during regular maintenance.

Thanks to its compact design and a weight reduction of up to 20%, the new precisionMixhead also scores with simplified handling both in production and in the service area.

The reduced mass of the mixing head not only saves energy because the handling robot has to move less mass, but also makes manual operation and maintenance work easier. This saves time and increases productivity at the same time. The innovative precisionMixhead thus sets new standards in polyurethane production and stands for efficiency, performance and sustainability.

Innovative mixing heads for ColorFom - efficient, sustainable production with small sizes and easy color changes

Come and see another groundbreaking development for yourself at the NPE: KraussMaffei ColorForm is based on the proven multi-component injection molding process. The outstanding feature of this process is that the thermoplastic base carrier is flooded with high-quality polyurethane (PUR) or polyurea (PUA) as a surface material in the second cycle after the injection molding process. The result is a surface of exceptional quality and scratch resistance.

The surface material (PUR/PUA) is applied using the RimStar Flex ColorForm reaction machine specially developed for this process in combination with the mixing head, which feeds the materials directly into the cavity. The outstanding feature of this mixing head is its innovative color nozzle, which enables a drag-free color change.

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Thanks to the compact design of the mixing head, it can be easily integrated into the mold and installed in easily accessible positions in the clamping area of the injection molding machine. The central media supply ensures constant temperature control and outstanding mixing quality.

The mixing heads for ColorForm therefore offer an efficient production solution that impresses with its small size, simple handling and innovative technologies. ColorForm technology for high-quality surfaces is used in the automotive industry for both interior and exterior applications.

ColorForm surfaces are not only transparent, high-strength and robust, but also self-healing. The production of substrates and surfaces in a single work step is particularly efficient and sustainable.

KraussMaffei presents a wide range of mixing head models and provides insights into their functionality

At the NPE KraussMaffei will not only be presenting groundbreaking innovations, but also providing fascinating insights into how its various mixing head models and metering pumps work. Visitors will have the opportunity to experience the different functions and inner workings of these models in order to gain a deeper understanding of the processes and the manufacturing process.

Photos:

1_KM_RPM_precisionMixhead

precisionMixhead - compact, powerful, energy-efficient and easy to service

2_KM_Mixing head ColorForm

ColorForm mixing head for efficient, sustainable production

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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 4.700 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.

In April 2016, China National Chemical Corporation Ltd. ("ChemChina") became the majority shareholder of KraussMaffei Group. In December 2018, ChemChina listed the KraussMaffei Group as KraussMaffei Company Limited in Shanghai. The listing opened up access to the Chinese capital market and local investors. Now ChemChina is part of Sinochem Holdings Corporation Ltd., one of the world's leading chemical conglomerates with over 220,000 employees.

For more information: www.kraussmaffei.com

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