

KraussMaffei with new products for polyurethane processing and for lightweight construction at the K

- precisionMixhead – For more efficiency in PUR processing
- 60% lighter chassis for vans with pultruded profiles
- Sustainable production of high-end interior components with ColorForm
- Automatic premixing station for flame-retardancy filler expandable graphite

(Munich, October 19, 2022) In reaction process machinery and with lightweight construction solutions, KraussMaffei has been a leader in technology and innovative partner for many industries for decades. With the new, compact, highly efficient precisionMixhead mixing head, as well as sustainable production solutions and current application examples from surface technology, profile pultrusion and for processing delicate flame-retardancy filler, the pioneers are inspiring visitors to the K 2022 once more.

"'Make plastic green. With the highest quality and efficiency.' is also the principle that underlies our developments in reaction process machinery," explains Xiaojun Cui, Executive Vice President New Machines. "We are showing the opportunities that reaction process machinery creates for more sustainability in production and products." An excellent example is the aforementioned precisionMixhead. It has been designed for energy efficient PUR production and particularly high product quality. Other highlights include functional interior designs with PUR surfaces, solutions for processing delicate PUR fillers and pultruded chassis profiles for improved performance and reduced consumption in transport vehicles.

precisionMixhead – A new mixing head design

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The new design of the precisionMixhead pairs maximum precision in mixing quality with maximum availability for polyurethane production. An especially customer-friendly service and repair concept, based on quick changes of wear prone parts, saves time and costs during regular maintenance. Its compact design and a weight reduction of up to 20% is reflected in simplified handling in production and service.

Pultrusion for lighter chassis

KraussMaffei has opened up new areas of application for the pultrusion process with pultrusion technology for production of fiber-reinforced, pultruded profiles. The most recent example is chassis profiles for our customer CarbonTT in Stade. These profiles make small trucks lighter and therefore more efficient. Up to 60% weight savings in the chassis benefit the load capacity and suitability for electric drives in equal measure.

ColorForm – Ready for the future

The ColorForm technology for premium quality surfaces is used in the automotive industry as well as for interiors and exteriors. ColorForm surfaces are not only transparent, high strength and robust – they are also self-restoring. In modern electric cars, touch sensors are increasingly integrated for control systems for function in components with ColorForm surfaces. Production of substrates and surfaces in a single-pass is particularly efficient and sustainable.

Automatic premixing station for expandable graphite

For industrial processing of expandable graphite as filler, there is now a complete system comprised of a premixing station, mixing and metering machine and mixing head. The automatic premixing station guarantees that the expandable graphite is mixed gently into the polyol, which extends the usability time of the mixture. Less material and higher machine availability enable sustainable production of flameproof components, such as for use in public transportation.

1_KM_RPM_2022_10_19_precisionMixhead.jpg

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New to the K, the precisionMixhead – The new mixing head from KraussMaffei:

Reduced weight and volumes for more efficiency and lower energy consumption.

2_KM_RPM_2022_10_19_pultruded_chassis_profile.jpg

Pultruded chassis profiles (from KraussMaffei customer CarbonTT) make small trucks lighter and therefore more efficient. The weight saving in the chassis is up to 60% compared with steel.

3_KM_RPM_2022_10_19_ColorForm_interieur_design_element.jpg

ColorForm component with function integration: In modern electric cars, touch sensors are integrated for control systems for function in components with ColorForm surfaces. Integrated production of substrates and surfaces in a single-pass is also particularly efficient and sustainable.

4_KM_RPM_2022_10_19_premix_station.jpg

The automatic premixing station from KraussMaffei for gently mixing expandable graphite and polyol provides long usable life for the mixture and thus avoids waste.

Photo: KraussMaffei

Enclosure: Pictures and more information can be found 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 180 years. Our range of services covers all areas of injection molding machinery, extrusion technology and reaction process machinery. This 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. Since its foundation in 1838, the company's headquarters have been in Munich.

In April 2016, the Chinese state-owned company China National Chemical Corp. Ltd. ("ChemChina"), one of the leading chemical companies in China, became the majority shareholder of KraussMaffei Group. At the end of 2018, ChemChina listed the KraussMaffei Group as KraussMaffei Company Ltd. in Shanghai. The listing opened up access to the Chinese capital market and local investors.

For more information: www.kraussmaffei.com

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