

Simplicity meets efficiency and performance: KraussMaffei presents the new precisionMolding and powerMolding at K 2022

- New injection molding machine series combine cost-effective production with a high performance level and rapid availability
- Ideally suited for standard applications for technical components, electrical and electronic devices, automotive, packaging and medical technology
- Live at K 2022: Sustainable applications for the toy and automotive industry

(Munich, June 21, 2022) The world of plastics is changing. In view of dynamic, fast-growing markets, it is important to be more agile and cost-efficient—whether you are a small startup, medium-sized company or an established corporation. KraussMaffei is responding to this trend and now offers its European and North American customers two additional injection molding machine series: the precisionMolding and powerMolding. At the KraussMaffei booth at K 2022, being held in Düsseldorf from October 19 – 26 (Hall 15, booth C15/C24-D24), they will demonstrate sustainable solutions for the toy and automotive industry.

The new precisionMolding is the basic, all-electric PX series machine with a reduced number of options, while powerMolding is the counterpart of KraussMaffei's proven hydraulic GX series. "In the basic machine concept, we offer our customers outstanding fast reaction times and thus short delivery times to enhance their efficiency and competitiveness even more. This opens up entirely new potential markets and applications for our customers. At the same time, of course, this opens up entirely new applications and groups of customers for us we have not been able to serve

**KraussMaffei Technologies GmbH
Marketing**

Krauss-Maffei-Strasse 2
80997 Munich, Germany

Phone +49 89 8899 2334
Presse@kraussmaffei.com
www.kraussmaffei.com

before," says Xiaojun Cui, Executive Vice-President New Machines Business at KraussMaffei.

Ideal for standard injection molding applications

Both precisionMolding and powerMolding are ideal for standard applications, for example for technical parts, electric and electronic devices, and the automotive, packaging or medical industry. The precisionMolding was introduced in Asia in 2019, the powerMolding 2021. Both series have established themselves very successfully in that region. Customers in these markets particularly appreciate the high level of precision and high performance level as well as the rapid availability and ease of operation. And this is available at an outstanding price/performance ratio. With the K 2022 launch, the precisionMolding and powerMolding are now also gaining entry into markets in Europe and North America.

Fast ROI and optimum energy efficiency

Both the precisionMolding and powerMolding stand for high efficiency and profitability that meet the familiar KraussMaffei quality standards. For example, a selected range of options, including a wide variety of mold installation heights or the easy integration of automation solutions, let you configure customized system solutions quickly.

Depending on the application of the powerMolding, the boost in throughput can amount to as much as 15 percent over comparable standard injection molding machines on the market. This is ensured by the short dry cycle times, the high shot weight consistency and the associated low scrap rates. "The bottom line is that the investment pays off very quickly for our customers, precisely when compared to other standard machines on the market," explains Xiaojun Cui.

Soaring energy prices are making energy-efficient manufacturing more important all the time. Thanks to the all-electric machine design, the precisionMolding machine inherently has good energy efficiency. The powerMolding offers the proven KraussMaffei BluePower servo drive in standard models. This controls the pumps according to the optimal

KraussMaffei Technologies GmbH
Marketing
Krauss-Maffei-Strasse 2
80997 Munich, Germany

Phone +49 89 8899 2334
Presse@kraussmaffei.com
www.kraussmaffei.com

requirement/energy consumption. Only as much energy as necessary at the given moment is consumed. The bottom line: Depending on the application, the powerMolding offers up to as much as 40 percent higher energy efficiency over comparable standard injection molding machines on the market.

Sustainable fun for kids - precisionMolding live at K 2022

Sustainability and efficiency for the toy industry are the focus of the application of the precisionMolding 160-750 with a clamping force of 1600 kN at K 2022. The application is production of a soft tennis ball racket from 100 percent sustainable raw materials. Based on cane sugar, the biopolyethylene from FKUR not only binds CO₂ during production, but is particularly robust and durable and can be recycled up to 100 percent after use. Thus the material makes a valuable contribution to conserving fossil fuel resources.

The APC plus function from KraussMaffei assumes an important task when processing the biomaterial on the precisionMolding at the K-show 2022. Similar to the method employed for fossil fuels, the machine function reliably compensates for the usual process fluctuations, even for biomaterials. Thus it ensures consistently high component quality. The cost-effective system solution is being supplemented by an LRX EasyControl. The linear robot is ideal for pick-and-place applications, is easy and intuitive to operate and, in combination with the precisionMolding, offers a fast introduction to all-electric injection molding and handling.

Processing 100 percent recycled material as part of the circular economy – powerMolding live at K 2022

The powerMolding 1300-11900 with a clamping force of 13,000 kN is part of the complete circular economy at the KraussMaffei trade show booth. It produces door modules for the automotive industry made of 100 percent recycled PP. The recycled material, in turn, comes from caps for insulin pens produced on a PX 200-1400. The material is shredded and then, in an upcycling process, prepared on a ZE 28 BluePower twin-screw extruder with different additives such as bonding agents and liquid dye.

KraussMaffei Technologies GmbH
Marketing
Krauss-Maffei-Strasse 2
80997 Munich, Germany

Phone +49 89 8899 2334
Presse@kraussmaffei.com
www.kraussmaffei.com

For this application on the powerMolding, too, the APC plus machine function assumes an important function. It reliably compensates for the batch fluctuations commonly encountered in recycle processing and thus ensures consistently high component quality here as well. An integrated linear robot of the LRX series takes over safe and reliable handling of the components.

Broad range of applications

Whether we look at applications for technical parts for the toy industry or the automotive industry as at K 2022, whether bioplastic, recycled material or new products—the spectrum of the precisionMolding and powerMolding is wide and opens up entirely new options for the market for standard injection molding applications.

KraussMaffei at K 2022

Hall 15, Booth C15/C24-D24

KM_2022_0621_K-Previews_precisionMolding.jpg

The precisionMolding offers the perfect entry into the world of all-electric injection molding

2022_0621_K-Previews_precisionMolding_application tennis racket.jpg

Sustainable fun for kids: At K, the precisionMolding 160-750 produces soft tennis ball rackets made of 100 percent biobased polyethylene

2022_0621_K-Previews_powerMolding.jpg

A 15 percent boost in throughput and 40 percent better energy efficiency: powerMolding is the ideal solution for standard injection molding applications

2022_0621_K-Previews_powerMolding_application door module.jpg

From 100 percent recycled PP material: As part of the circular economy, the powerMolding produces a door module for the automotive industry at the KraussMaffei trade show booth

Photos: KraussMaffei

KraussMaffei Technologies GmbH
Marketing
Krauss-Maffei-Strasse 2
80997 Munich, Germany

Phone +49 89 8899 2334
Presse@kraussmaffei.com
www.kraussmaffei.com

Enclosure: Pictures and more information can be found at

www.kraussmaffei.com

Press contact:

Petra Rehmet

Content & Campaign Manager / Press Officer Injection Molding Machinery

Phone: +49 (0) 89 8899 2334

Email: Petra.Rehmet@kraussmaffei.com

Mathias Künstner

Head of Corporate Marketing Global

Telefon: +49 (0) 89 8899 2217

Email: Mathias.Kuenstner@kraussmaffei.com

(Number Words: 1,005 / Number Characters: 6,862)

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

KraussMaffei Technologies GmbH
Marketing
Krauss-Maffei-Strasse 2
80997 Munich, Germany

Phone +49 89 8899 2334
Presse@kraussmaffei.com
www.kraussmaffei.com