

Buy or print-on-demand: KraussMaffei launches sales of large- scale 3D printer powerPrint

- powerPrint offers maximum process stability and production efficiency
- Component sizes up to 2 m x 2.5 m x 2 m can be implemented
- Print-on-demand service for individual applications thanks to wide range of materials

(Parsdorf, July 20, 2023) Molds and tools, custom packaging or a table in a modern design: The large-scale 3D printer powerPrint produces products with a volume of up to ten cubic meters and made its debut at the K trade show. It is now available for purchase; alternatively, KraussMaffei also offers a print-on-demand service.

Industrial and process-reliable 3D printing with the best possible manufacturing costs per part: The powerPrint large-scale printer opens up new fields of application for additive manufacturing. Since its introduction at K2022, it has been successfully tested for a wide variety of fiber-reinforced and compounded materials. According to Rolf Mack (Vice President Additive Manufacturing), "The powerPrint is ready to produce custom parts for the customer at the customer's facility with the highest industry and quality standards."

The basis for the cost-effective production of 3D objects is the use of thermoplastics in granulate form and extruder-based pressure build-up (nozzle area 2 to 20 mm). As an international company, KraussMaffei manufactures systems for extrusion, injection molding and reaction process machinery and can use this extensive process knowledge to develop new technologies, such as additive manufacturing.

KraussMaffei Technologies GmbH
Corporate Communications & Marketing
Krauss-Maffei-Straße 1
85599 Parsdorf/Germany

Phone: +49 (0) 89 8899 1896
www.kraussmaffei.com

The powerPrint thus offers a high output rate (up to 30 kg/h) with high product quality at the same time. The large-scale printer produces components with dimensions of up to 2 m x 2.5 m x 2 m independently and without manual intervention at a temperature of up to 350 °C. The parts are removed from the machine from the front through a door or by crane via a folding roof in the heat-resistant enclosure. Print jobs can be changed quickly thanks to vacuum-fixed printing plates. A specially developed human-machine interface ensures intuitive and simple operation of the device. The intelligent machine design also ensures a high level of work safety.

The powerPrint is suitable for all industries that require large-format objects with consistently high product quality, such as tool and mold makers, packaging and logistics, and the automotive industry.

For companies that want to see for themselves whether the powerPrint is of interest to them, KraussMaffei also offers the print-on-demand service as an alternative to purchase. In this service, applications are designed according to customer specifications and technical possibilities and then printed, with KraussMaffei also handling post-processing. The powerPrint has already implemented several components in this way, such as a molding tool for the vacuum infusion process, a sand casting mold and a charging column, among others.

The large-scale 3D printer opens the door to the manufacturing of the future—with maximum design freedom and cost efficiency. KraussMaffei offers a well thought-out end-to-end process and supports its customers every step of the way: as a consultant, machine manufacturer, trainer and service partner. What more could you ask for?

KM_AM_2023_07_powerPrint Start of Sales.jpg

Photos: KraussMaffei

Enclosure: Pictures and more information can be found at

www.kraussmaffei.com

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Phone: +49 (0) 89 8899 1896
www.kraussmaffei.com

Press contact:

Julia Reich

Content & Campaign Manager / Press Officer Additive Manufacturing

Phone: +49 (0) 89 8899 1896

Email: Julia.Reich@kraussmaffei.com

Uli Pecher

Head of Corporate Communications

Phone: +49 (0) 89 8899 1080

Email: Uli.Pecher@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 4.700 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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