

Simplicity Meets Performance – KraussMaffei to Showcase the Perfect Entry into All-Electric Injection Moulding at Interplas 2023



At the Interplas exhibition this September, KraussMaffei UK will be demonstrating its new injection moulding machinery range for the first time at a UK event. In partnership with Soniplas and Matrix Plastics, a 120T precisionMolding machine will be running throughout the event, showcasing the latest in energy-saving and cycle time reduction technology.

KraussMaffei is returning to the [Interplas exhibition](#) at the NEC Birmingham on 26-28 September 2023. This year is a special celebratory edition of Interplas, as it recognises 75 years since inception, which also coincides with a special milestone for the machinery manufacturer.

185 Years of KraussMaffei

Coinciding with the Interplas celebration is the **185th Anniversary of KraussMaffei** as a company, an impressive milestone for a company with humble beginnings in Germany's locomotive industry in 1838.

Today, KraussMaffei is one of the world's leading manufacturers of ~~or~~ machinery and systems for producing and processing plastics and rubber, with a portfolio covering all technologies in the injection moulding, extrusion, reaction process machinery and additive manufacturing sectors, and the company will be displaying its versatile machinery portfolio to Interplas visitors this September.

The Perfect Introduction to All-Electric Moulding

At Interplas 2023, the KraussMaffei UK team will be showcasing its expertise with a series of planned demonstrations, the feature being a [precisionMolding 120-380 machine](#) running on the show floor for the first time live at a UK exhibition.

Along with partners Soniplas, Piovan and Matrix Plastics, the moulding cell demonstrates the latest in injection moulding technology with the addition of **APCplus** from KraussMaffei, and a **Soniplas** system supplied by Matrix Moulding Systems, to further increase the impressive efficiency criteria of the precisionMolding range.

Using a single cavity spiral flow test tool with complex geometry, the KraussMaffei team will be moulding from the Interplas floor, demonstrating the savings possible for customers when coupling efficient all-electric machine technology with the Soniplas system and KraussMaffei's industry 4.0 connected applications.

precisionMolding at a Glance

- Optimised price-performance ratio
- High levels of energy-efficiency
- Realisation of challenging delivery times
- All-electric clamping unit
- 5-point toggle system
- Intelligent MC P1 control system
- Enlarged mould mounting platen sizes
- High-performance and versatile servomotor



Billed as 'the perfect introduction into all-electric moulding' the precisionMolding machinery range provides high levels of performance and efficiency, at a reasonable entry point for the market, and can be fitted with all of KraussMaffei's digital tools and industry 4.0 connectivity.

On top of impressive machinery performance, KraussMaffei has developed its own catalogue of digital products and performance improvements and has partnered with leading technology suppliers to bring further efficiency and cost-savings to its customers.

Transform your Moulding Process with Ultrasonics

The [Soniplas Ultrasonic Unit](#) supplied by Matrix Moulding Systems uses ultrasonic technology to bring a variety of benefits to the moulding process. The precisionMolding machine on display at Interplas will be fitted with the Soniplas system, allowing show visitors to see the process in action, live from the event floor.

The Soniplas unit applies ultrasonic energy to the molten polymer as it is injected into the mould tool, causing a temporary reduction in viscosity as the polymer melt fills the tool. This enables manufacturers to **reduce melt temperatures** by say, 30 degrees, meaning there is less of a heat requirement in the moulding process, as well as less heat to remove after injection, giving benefits in both **energy use** and **cooling time**.

Further benefits include **improved part quality** and **reduced scrap** for difficult to mould parts, by reducing injection pressures making complex features more readily moulded. With injection pressure often defining the clamp force requirement, Soniplas can also **reduce the clamp force requirement** for a given tool.

To fully realise the benefits a Soniplas system could have on your moulding process, speak to the experts from both KraussMaffei and Soniplas, available on Stands F90 and F91 throughout the event.

Digital Demonstrations & Process Experts Available

Also from the event floor, the KraussMaffei UK team will be giving live demonstrations of its digital portfolio, including [socialProduction](#), pioneersClub and [APCplus](#).

socialProduction connects human and machine in shared chat rooms, with machines sending updates and reports independently, if an interruption or error has occurred in production. With seamless integration, your team can communicate and visualise the production landscape wirelessly from any location.

APCplus, developed by KraussMaffei, compensates for external influences on part quality, with intelligent and automatic process control. Using sensors and digital connectivity, APCplus enables customers to achieve consistently high part quality, and will be on full display at the Interplas exhibition, fitted to the precisionMolding machine on the KraussMaffei stand, F90 and F91.



Figure 1 socialProduction products enable the intuitive monitoring of injection moulding machines, the production process and the condition of machine components.

pioneersClub lets you benefit from the advantages of a digital service platform, with lifecycle value calculators to quantify your economic and ecological improvement potential.

On the show floor in September, expert engineers from KraussMaffei's extrusion and reaction-process machinery (RPM) segments will also be present, to offer advice and expertise to visitors in any sector of plastics manufacturing.

Learn More – Interplas Stand F90 & F91

There is a whole host to see and learn on stand **F90** and **F91** at Interplas, at the NEC Birmingham 26 – 28 September. The KraussMaffei stand will feature the latest all-electric machinery technology coupled with digital tools and selected partner technologies, to bring simplicity and high-performance moulding to its customers.

You can register to visit for free here: <https://interplasuk.com/>

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KraussMaffei is one of the world's leading manufacturers of machines and systems for producing and processing plastics and rubber. Our range of products and services covers all technologies in injection moulding, extrusion, reaction process machinery and additive manufacturing. This gives us a unique selling proposition in the industry.

With strong innovation capacity, we ensure sustainable added value for customers across their entire value chain, with standardised and individual product, process, digital and service solutions. We deliver these services to customers in the automotive, packaging, medical and construction industries, and to electrical and electronic product and household appliance manufacturers, among others.

Our global network comprises 30 subsidiaries and 570 trade and service partners. This means we are always close to our customers.