

High-speed rotor achieves greater packaging sustainability

Sumitomo (SHI) Demag presents EI-Exis SP 250, the fastest packaging machine on the market.

Schwaig, September 2021 - Sumitomo (SHI) Demag Plastics Machinery GmbH, Schwaig, is bringing a small version of its EI-Exis SP 250 packaging machine series to Fakuma 2021. Available worldwide, the EI Exis SP range, now comprises ten machines, with a clamping force range of 150 to 1,000 tons. At the trade fair in Friedrichshafen, a cup application, made from a ISCC Plus-certified polypropylene material, will impressively demonstrate the high speed, user-friendliness, sustainability and durability of this hybrid machine.

"The opening and closing sides of our machine are the fastest on the market," explains Arnaud Nomblot, Business Development Director, Packaging. "Achieving injection speeds of 1,000 mm/s with short cycle times is a direct result of the hydraulic accumulator. Further supporting the sustainability agenda, processors can produce ever thinner and lighter packaging items, significantly reducing raw material requirements, packaging waste and carbon footprint", notes Nomblot.

Revealing Act! "Sustainably" benefits

Unveiling the company's new trade fair slogan Act! "Sustainably", the EI-Exis SP series underpins Sumitomo (SHI) Demag's efforts and future production innovations. Integrated firmly into the company's mission statement, only machines and equipment that are compatible with these ecological and corporate social responsibility credentials will be considered for production projects moving forward.

Examining the key post-pandemic packaging trends, Nomblot highlights that environmental compatibility and multi-purpose capability are now the most important decision factors for packaging moulders, along with price of "green" packaging and how product quality is perceived. Additionally, with the introduction of the EU Packaging Levy on non-recycled packaging waste within EU Member States, a shift towards more sustainable and single material packaging is inevitable.

"Thanks to our diversified machine portfolio and our high performance machines, we are in the position to meet all requirements and are therefore involved in nearly all new packaging projects," verifies the packaging expert. Measured against competing technologies, not only is the EI-Exis SP's processing cycle time significantly shorter, the hybrid design also offers discernable energy efficiency advantages, Nomblot confirms.

Accelerating circular agenda

At Fakuma, the EI-Exis SP 250 demonstration will showcase the efficient production of four decorated cups every 5.5 seconds in collaboration with Société Nouvelle Caulonque, Soustons (France), supplier of the four-cavity mould tool. Feeding labels with precision into the packaging machine is an automated Spark IML system from Pagès Group, Foncine-le-Haut (France), with iPB Printing B.V., Reusel (Netherlands) supplying the high quality labels.

Leader in recyclable materials Borealis, Vienna (Austria) supplies its BJ368MO PP copolymer for the trade fair application. Characterised by its good flow behaviour and optimal combination of high rigidity and high impact strength, the material is part of the company's trademarked Borneables™ portfolio of circular premium polyolefin materials. Produced with renewable feedstock derived entirely from waste and residue streams, the ISCC Plus certified cycle-oriented polypropylene solution offers a viable alternative to virgin PP, with a much reduced carbon footprint.

For optimum efficiency, the EI-Exis SP 250 at the booth features Sumitomo (SHI) Demag's web-based "myConnect" software solution. Giving customers direct access to a wide range of fully networked support services, the central platform assists packaging production managers to better manage inefficiencies, reduce costs, improve total cost of ownership, troubleshoot errors and minimise machine downtime. "With myConnect, customers can instantly access machine documentation online. Additionally, our helpdesk experts can remotely access the machine and provide valuable troubleshooting support," comments Nomblot.

Images/captions



→ Save the Date – Invitation to our Press Conference

You are invited to join our press conference FAKUMA! Come hear our executives talk about the latest Sumitomo (SHI) Demag developments and how we are getting ready for the future.

Wednesday, October 13, at 9.00am
Room Oesterreich, Conference Center West, 1. Floor

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Sumitomo (SHI) Demag Plastics Machinery GmbH

Sumitomo (SHI) Demag has shaped the development of the plastics industry from its very beginning. As a specialist for injection moulding machines for plastics processing, Sumitomo (SHI) Demag and its Japanese parent company are leading the industry.

The global development and production network of Sumitomo Heavy Industries and Sumitomo (SHI) Demag is comprised of four facilities in Japan, Germany and China with more than 3,000 employees. The product portfolio includes all-electric, hydraulic and hybrid injection moulding machines with clamping forces of between 180 and 15.000 kN. With more than 125,000 installed machines, Sumitomo (SHI) Demag is present in important global markets and ranks among the largest manufacturers of injection moulding machines in the world.

At Sumitomo's headquarters in Chiba, Japan, the company manufactures machines with clamping forces in the small to medium range. Nearly 95 % of all delivered machines are equipped with an all-electric drive concept. Sumitomo (SHI) Demag's German facilities in Schwaig and Wiehe produce the Systec Servo range with hybrid drive as well as the EI-Exis SP and Systec SP range of high-speed, high-performance machines. The all-electric IntElect range for international customers is also being produced in Germany.

As early as 1998, Sumitomo (SHI) Demag set up its first production site in Ningbo/China. In 2015, the Chinese subsidiary Demag Plastics Machinery (Ningbo) Co., Ltd. installed a new facility with a 13,000 m² floor space. It is earmarked for the production of the Systec C range with clamping forces of between 500 and 10,000 kN for the Asian market.

In addition to injection moulding machines, Sumitomo (SHI) Demag offers customised and standardised systems for the part handling automation, technical and process solutions for special applications, tailored services and service concepts as well as a range of financial options to support investment in injection moulding machines.

With its comprehensive sales and service network of subsidiaries and agencies, Sumitomo (SHI) Demag is present in all major markets.