

Press release  
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Innovative drive concept activeDrive enables energy savings of up to 60 % compared with standard hydraulics

## **Sumitomo (SHI) Demag already delivers every second hydraulic machine with an energy-saving drive**

**Energy efficient injection moulding is actively driven by the energy-saving drive activeDrive of the Systec hydraulic series from Sumitomo (SHI) Demag Plastics Machinery GmbH. A reduction in energy usage of up to 60 % is possible according to application.**

As ever, hydraulically driven injection moulding machines represent a large market. Sumitomo (SHI) Demag offers its multifunction machine Systec at a clamping force from 350 to 1,200 kN with a fully hydraulic clamping unit, and from 1,600 to 20,000 kN with a toggle clamping unit. Numerous production-efficient building blocks are available for the Systec, which support the processor in the realisation of the best possible production efficiency. The energy-saving drive activeDrive guarantees a dynamic performance adjustment to the respective requirements and in doing so ensures the optimum degree of efficiency and minimum loss, especially in the partial load area and when idling. The combination of a high-dynamic, frequency-controlled servomotor and a constant pump enables energy-savings of 30 - 60 per cent compared with a standard hydraulic drive.

When investing, many companies decide on sustainable solutions, which offer the greatest degree of efficiency even under future production conditions. The increasing pressure of costs for power, water and other operating materials can be met through investment in new technologies. Therefore, Sumitomo (SHI) Demag already delivers every second machine with the hybrid concept activeDrive. "We are in the meantime seeing a huge increase in activeDrive drives, even in the small hydraulic machines, and this although here the return on investment (ROI) for our customers takes somewhat longer than for machines with greater tonnages", states Marketing Manager Bernd Tröger, and continues: "Sustainability is shifting

increasingly into focus during investment. Here we are providing exactly the right answers with our “Blue Technolution” system solutions.”

### **activeDrive and activeMotionControl increase performance and lower energy usage**

As a manufacturer of technical plastic injection-moulded parts for vehicle construction, Borscheid + Wenig GmbH in Diedorf by Augsburg has been operating several Systemec machines for many years. A further Systemec 50-310 with the technology building blocks activeDrive and active MotionControl will be delivered shortly and support the company in the framework of its environmental management. The managing partners Norbert and Sven Borscheid and Carlo Wenig are extremely satisfied with both the performance of the hybrid machines with activeDrive and activeMotionControl as well as with the energy-saving. “The Systemec machine offers a good price/performance ratio and, with the energy-efficiency building block activeDrive we additionally save energy and can considerably reduce the cycle time further thanks to activeMotionControl”, say the partners.

### **Summit (SHI) Demag Plastics Machinery GmbH**

Sumitomo (SHI) Demag has consistently shaped the plastics industry from its inception. As a specialist for injection moulding machines for polymer processing, Sumitomo (SHI) Demag and its Japanese parent company are among the leading companies in this sector globally. The Japanese-German company was formed in the spring of 2008 by merging the injection moulding activities of Sumitomo Heavy Industries (SHI) and those of Demag Plastics Group.

The global development and production network of Sumitomo Heavy Industries and Sumitomo (SHI) Demag consists of four plants in Japan, Germany and China with more than 3,000 employees. The product portfolio encompasses all-electric, hydraulic and hybrid injection moulding machines with clamping forces of between 180 and 20,000 kN. With over 100,000 machines installed, Sumitomo (SHI) Demag is present in all important markets throughout the world.

With more than 5,000 machines sold each year, the Plastics Machinery Business of Sumitomo Heavy Industries counts as one of the largest Global manufacturer of injection moulding machines.

The main Sumitomo plant in Chiba produces machines with low and medium clamping forces. Around 95 % of all machines supplied by Japan have an all-electric drive.

The main Demag facility in Schwaig/Germany focuses on the hydraulic Systec and the hybrid high performance, high-speed EI-Exis machines. Recognising the increasing importance of electric drive technology for injection moulding machines, Sumitomo (SHI) Demag has expanded the former Demag factory in Wiehe/Germany into an international centre of competence for electric machines. Thanks to the new production capacities, Wiehe now supplies all electric injection moulding machines worldwide with its IntElect series with clamping forces up to 4,500 kN and also the hydraulic Systec series with clamping forces of up to 1,200 kN.

Sumitomo (SHI) Demag continues to operate the former Demag plant in Ningbo/China which has been active since 1998. Since 2007 the subsidiary located there, Demag Plastics Machinery (Ningbo) Co., Ltd, had its own, newly built plant and after reaching full capacity, moved to a larger factory with a production area of 11,000 sqm. Injection moulding machines from the Systec C product line with clamping forces of between 500 and 10,000 kN are produced here for Asian markets.

In addition to injection moulding machines, Sumitomo (SHI) Demag offers customised and standardised systems for the automated handling of moulded parts, technical solutions for special applications in process engineering, tailor-made service concepts and various forms of financing for investments in injection moulding machines.

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

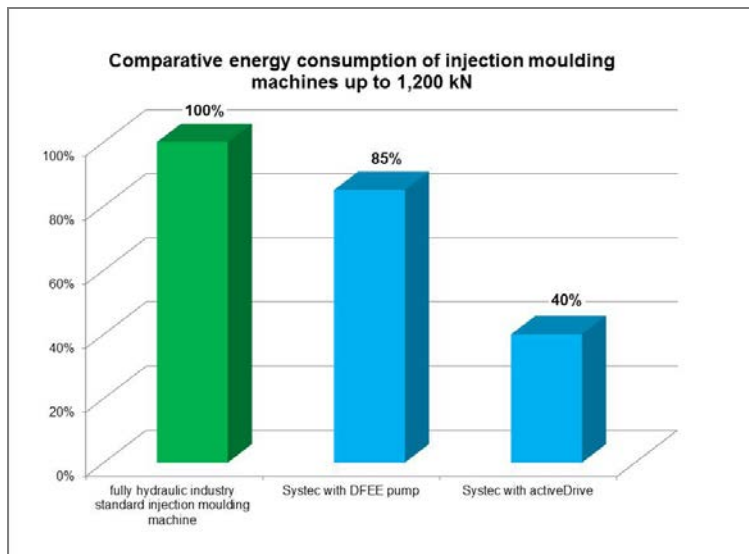
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## **Contact**

Stefanie Lauterbach, Marketing  
Sumitomo (SHI) Demag Plastics Machinery GmbH  
Tel. +49 911 5061-2915  
Fax +49 911 5061-750  
E-mail: [Stefanie.Lauterbach@dpg.com](mailto:Stefanie.Lauterbach@dpg.com)

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*The energy-saving drive activeDrive enables savings of 30 - 60 per cent compared with standard hydraulic drives.*

*Graphic: Sumitomo (SHI) Demag*

<Systec100-310>



*The Systec machines, offered with fully hydraulic clamping forces ranging from 350 to 1,200 kN represent an economic production solution for the wide field of standard applications.*

*Photo: Sumitomo (SHI) Demag*