

Press release
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Demag Plastics Machinery (Ningbo) demonstrates expertise in packaging injection moulding

Demag Plastics Machinery (Ningbo) demonstrates a new record in the manufacture of screw caps at the Chinaplas 2014 in Shanghai

With two production cells for the packaging and medical sectors, Sumitomo (SHI) Demag Plastics Machinery GmbH, Schwaig/Germany and its Chinese daughter company Demag Plastics Machinery (Ningbo) Co., Ltd. will be present this year from 23 to 26 April 2014 at the Chinaplas in Shanghai. With the help of the hybrid high-performance EI-Exis SP and the hydraulic all-round machine Systec C, the manufacturers will be presenting two examples of injection moulding machines on their Stand E3J01 in Hall E3.

With the EI-Exis SP, Sumitomo (SHI) Demag has meanwhile set the standard in packaging injection moulding, with regard to dynamics, speed and durability. This machine can perform the fastest process and injection movements with high precision and safety - during the production of standard caps, as well as thin-walled and packaging parts with minimum tolerances, as well as precision applications with high injection pressures. The EI-Exis SP is offered with a clamping force range of 1,500 to 7,500 kN. One example of the high dynamics of the machine: In the specification with the 2,500 kN clamping force, the EI-Exis SP accelerates to a screw advance speed of 800 mm/s in around 25 ms.

The performance will be demonstrated on the Chinaplas 2014 with the production of PE-HD screw caps using an EI-Exis SP 420-3000 (clamping force 4,200 kN). For this, a 96-fold hot runner mould is used for the 1.2 g light 28 mm caps with tamper-evident protection for still mineral water. A barrier screw with an L/D ratio of 25:1 delivers the necessary dosing capacity with sufficient reserves; a special backflow barrier ensures process safety and high reproducibility. With the hybrid drive technology, with activeAdjust optimised movement of all axles and the further developed machine control NC5 plus; this cap production already achieved a cycle time of approx. 2 s. at its premier at the K-Messe 2013 in Dusseldorf. The

application has been further optimised since then, and at Chinaplas achieved yet another cycle time reduction of around 10 %.

Systemec 120-200 C produces threaded rods for the medical area

A hydraulic Systemec 120-200 C with 1,000 kN clamping force produced toothed racks from polyoxymethylene (POM) on the exhibition stand of Demag Plastics Machinery. The 16-fold hot runner mould from KEBO AG, Neuhausen/Switzerland, affords the Systemec C high performance and precision with a 12-second cycle time. On this exhibit, a whole series of machinery contributes to the reduction in the specific energy consumption: The servo-pump motor offers high performance at low energy usage.

A Success 11 line robot from the French company Sepro Robotique, La Roche-sur-Yon, performs the removal of the parts. A quality inspection system from Avalon Vision Solutions, LLC, Lithia Springs/USA takes over the job of 100 % quality control of all the toothed racks and the evidence of reproducibility.

The fully regulated, hydraulic multi-purpose machine series Systemec C is available in 12 sizes and is fully modular in the clamping force range from 500 to 10,000 kN. Demag Plastics Machinery (Ningbo) Co., Ltd. offers its Systemec C with an hydraulic clamping unit – from 500 to 1,200 kN with full hydraulics, from 1,300 to 10,000 kN with hydromechanic toggle clamping unit. There are four sizes of injection moulding units on offer for every clamping force class. As a fully regulated, hydraulic multi-purpose machine, it can be used in the manufacture of a multitude of plastic parts for a wide range of customer sectors.

Demag Plastics Machinery (Ningbo) in profile

Demag Plastics Machinery (Ningbo) Co., Ltd., Ningbo/China, has been producing high-performance injection moulding machines for the Chinese and other Asian markets since 1998. The Chinese daughter company of the German-Japanese manufacturer Sumitomo (SHI) Demag has its own factory with a production area covering 11,000 m². The injection moulding machine program is comprised of the hydraulic construction series Systemec C, with a clamping force of 500 to 10,000 kN, for the Asian markets.

Demag Plastics Machinery (Ningbo) Co., Ltd plans to expand the production capacity in Chinese Ningbo (Province Zhejiang). Sumitomo (SHI) Demag is investing around seven

million Euros in the extension of production capacity. It is envisaged that the current annual production of around 650 will expand to 1,000 by the year 2015.

The Chinese market is not only covered optimally by Demag Ningbo in production, but also in sales and service. Therefore, the customer service in China is also structured according to the origin of the machines. In this way, the After Sales Department with its headquarters in Ningbo, manages 20 engineers in Dongguan, Chengdu, Suzhou and Shanghai and Peking. The team is responsible for the commissioning of new Chinese machines at the customer, for machine approval, test runs, mould proving, process optimisation and last but not least, customer training. The After Sales Department is responsible for the servicing, training and spare part sales for imported machines installed in China. Apart from the German machines, the After Sales Department is responsible as well for the machines from European and American production locations, and represents Sepro Robotique in China. It is responsible for the marketing and servicing of the French manufacturer of line robots. Additional regional offices in Guangdong (South China), Suzhou, province Jiangsu, Peking, Shanghai, Chengdu (West China) and Shenyang (North China) ensure a local presence.

www.demagplasticsgroup.cn

Demag Plastics Machinery (Ningbo) Co., Ltd.

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Shanghai, Hall E3 /Stand E3J01

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<El-Exis_SP_caps>



PE-HD screw caps for mineral water bottles, produced in a stable process with a 96-piece mould on the fast running machine El-Exis SP 420 in a cycle time of under 2 s.

Photo: Sumitomo (SHI) Demag

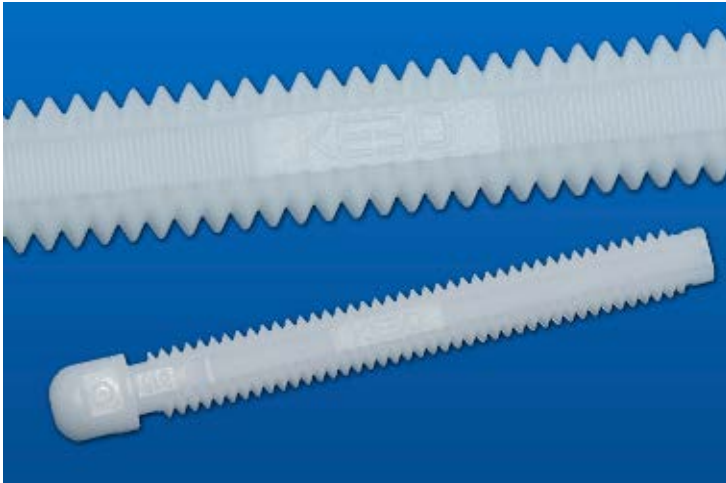
<Systec_120-200_C>



The energy efficient, hydraulic injection moulding machine Systec C from the production system of Demag Plastics Machinery (Ningbo) – here as Systec 120-200 C

Photo: Demag Plastics Machinery (Ningbo)

<Systec_C_threaded_rod>



Thanks to the servo-pump motor, the POM threaded rod is produced with low energy input.

Photo: Kebo AG