

PRESS RELEASE

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EI-Exis SP 300 Molds Over 130,000 Precision Caps Per Hour in NPE Booth W3045

[NPE Booth W3045, Orlando, FL – May 7, 2018]...

To open its NPE 2018 exhibit, Sumitomo (SHI) Demag Plastics Machinery North America, Inc. demonstrated fast-cycle, high-cavitation caps molding on its ultra-high-speed EI-Exis SP hybrid. Molding over 130,000 caps per hour, a waterfall of 72 caps is ejected from the z-moulds hot runner mold on a sub 2-second cycle. The HDPE (MFI 7) material for the 1-gram caps was contributed to the demo by NOVA Chemicals.

To verify the process stability and repeatability of the EI-Exis SP, and to permit a 100%-check of all screw caps, the production unit is also equipped with an Intravis, Inc. CapWatcher III optical inspection system.

“The EI-Exis SP is celebrating 20 years in the market,” said Mike Uhrain, Technical Sales Manager – Packaging.

“With over 3000 EI-Exis/EI-Exis SP machines delivered, and various improvements made over time, this Series continues to provide the industry’s best combination of speed, precision, energy efficiency and long-term reliability for packaging, caps and other applications requiring high speeds.”

The EI-Exis SP’s record setting speed is due to a variety of features:

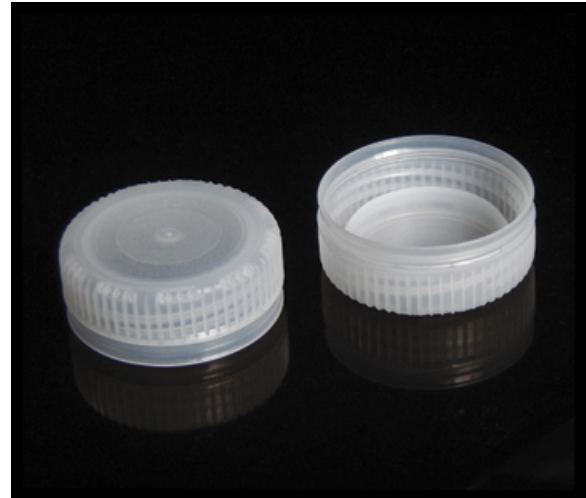
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Sumitomo (SHI) Demag Plastics Machinery North America, Inc.

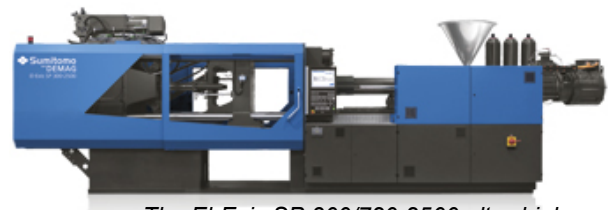
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72 still water caps (26/22 mm) with tamper evident band are being molded on a sub 2-second cycle.



The EI-Exis SP 300/720-2500 ultra-high-speed hybrid (337 U.S. tons) has a dry cycle (Euro-map 6) of 135 s – 19.84 in (504 mm).

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- Extremely fast all-in-one clamp motion
- Ultra-high-speed, accumulator-assisted injection with increased flow from accumulator to valve
- Full stroke mold protection with no impact on clamp speed
- High-speed hot runner decompression
- High-speed ejectors that match high-speed clamping for waterfall ejection of parts
- Ejectors are driven by accumulators and servo valve
- activeAdjust on transfer position, clamp and ejectors that allows for optimized ramping for the fastest speed with smoothest operation

At the same time, the EI-Exis SP offers an energy efficient design due to the following:

- A direct-drive, high-torque, electric screw drive
- Variable accumulator loading
- A toggle clamp that consumes no energy during the cooling phase
- The clamp is driven by a hydrostatic drive rather than the accumulator
- Regenerative braking

Offering exceptional precision, the EI-Exis SP is equipped with a Moog servo valve for fast, accurate injection performance from injection to hold.

Equally important is the exceptional reliability of the EI-Exis SP for field proven, long-term reliability at ultra-high speeds. The high-speed toggle clamp also provides natural acceleration and deceleration at mold touch resulting in a smooth cycle and reduced mold wear. The direct-drive motor, which is unaffected by belt wear/stretching, also contributes to the reliability.

Customers can also count on Sumitomo Demag for free, 24/7 technical phone support for the life of the machine, as well as exceptional parts, service and training throughout North America and around the world.

Other contributors to the EI-Exis SP NPE molding demo include: Una-Dyn, A Piovan Company (mold cooling); Maguire Products, Inc. (loader); EISBÄR Trockentechnik GmbH (mold dehumidification & cap cooler); SISE SAS (hot runner temperature control); and

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MAC Automation Concepts (resin bins).

The EI-Exis SP 300 is just one of Sumitomo (SHI) Demag's 12 diverse machine demos at NPE highlighting the **Productivity⁺** benefits that expand molding capabilities and increase profitability for molders. To see all of the company's NPE demos, attendees are encouraged to visit the following booths:

Sumitomo (SHI) Demag	Booth W3045
RJG Inc.	Booth W3383
Yushin America, Inc.	Booth W2173
Gammaflux L.P. (Männer molds)	Booth W763
Canon Virginia, Inc.	Booth W223

Sumitomo (SHI) Demag's worldwide group of companies is dedicated to helping plastics processors compete more effectively in the global market. The company manufactures a wide range of high-precision IM machines for diverse applications. Its all-electric platform (SE, SR and CL series) spans from 8 to 935 U.S. tons, including micro to mid-sized, high-speed, packaging, high-duty, vertical, insert and high-speed multi-shot machine series. Ultra-high-speed hybrid machines (EI-Exis SP and Systec SP series) are offered in models from 165 to 825 U.S. tons for packaging and other thin-wall applications. Configurable, high-performance hydraulic and toggle machines (Systec Series), including multi-component models, are also provided for applications from 39 to 2248 U.S. tons. Equally important, Sumitomo (SHI) Demag has an extensive worldwide network, ensuring customers of sales, parts, training, service and processing support when and where it is needed.

Information on the North American operations of Sumitomo (SHI) Demag can be found at www.sumitomo-shi-demag.us.

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