

PRESS RELEASE

April 2, 2012

Sumitomo (SHI) Demag Brings 12 Machines to NPE 2012

- **Company introduces new all-electric, new hybrid and various other breakthrough technologies at Orlando exposition**

[NPE 2012, Orlando, FL]... Supporting the Society of the Plastics Industry's NPE 2012 theme of "The Return of the Machines." Sumitomo (SHI) Demag opened its NPE 2012 exhibit with ten machines in Booth 2103 plus two more machines in other exhibitor booths.

"We are very pleased to be able to exhibit such a wide range of technology to the visitors at NPE 2012," said Jim Mitchell, Executive Vice President. "Having more machines here allows us to present a greater diversity of applications and solutions to help molders improve their molding precision, overall productivity and bottom-line profitability. Our machines will be demonstrating productivity solutions for everything from consumer, automotive and thin-wall medical molding to LSR molding, ultra-high-speed packaging and in-mold labeling."

New to the North American market are both the SE-EV advanced all-electric (55-198 U.S. tons) and the ultra-high-speed EI-Exis SP hybrid (165 to 825 U.S. tons). [*Separate press releases are provided in this press kit on each of these machine introductions.*] The exhibit includes two SE-EV machines (110 and 198 U.S. tons) and two EI-Exis SP machines (220 and 500 U.S. tons).

"As part of our demonstrations at NPE, we are also pleased to present the plastics processing products and advanced technology of 38 other companies from around the world who have generously contributed

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resin, molds, auxiliary equipment, specialized components and processes. Each of these contributions is documented throughout the booth and in our NPE brochure,” said Mitchell. “For the attendees who have traveled to Orlando to see what's new and exciting, there will be plenty to see in just our booth.”

In an unprecedented move for the company, three used machines are on display and molding parts in the booth — a **1993 Milacron Vista VT-300-34**, a **1992 Sumitomo SG125** and a **1989 Van Dorn 170HT**. All three machines have been retrofitted with the **VDU®** — Van Dorn Universal Control — to showcase the retrofit control’s universal capabilities for breathing new life into used machines with a wide variety of processing and diagnostic capabilities, process monitoring and production statistics and as well as remote access via PC, iPhone® and iPad®.

“Our Aftersales products and services serve to ‘protect and build value’ for our customers by expanding the capabilities of their machinery, extending its useful life and optimizing their investment,” said John F. Martich III, Vice President. “Beyond traditional parts, service and training, we provide a comprehensive range of value-added solutions that improve the control, performance, energy efficiency, molding capabilities and longevity of customers' machinery. Using the 138-inch touch-screen interface in our booth, attendees can perform a hands-on interactive review of our extensive Aftersales offerings under the Sumitomo, Demag and Van Dorn brands.”



Demonstrations

In addition to the SE-EV, EI-Exis SP and SE-DUZ demonstrations described in separate press releases, the company's other machine demos include the following.

An **SE280HSZ** (308 U.S. tons) high-speed all-electric is molding thin-wall medical vials in a Cavaform International (NPE Booth

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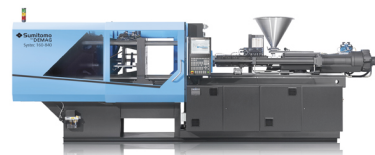
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4653) 16-cavity mold on a 10.0-second cycle. The vials (many of which will be filled with a candy treat for attendees) weigh 11.5 grams and are being made with PP (TOTAL #LX2 11 32). Special features of the mid-sized SE-HSZ include:

- The advantages of an all-electric combined with injection speeds of 350 mm/sec and injection pressures up to 39,825 psi
- Z-molding: MCM system, that senses minimum force required at mold touch, helps avoid flash, burn spots and short shots, and can reduce mold wear, cycle times and power consumption
- Fast, 6.61-ton high-contact-force nozzle-touch system (comparable to a hydraulic machine)
- The SM screw (standard) that provides low shear plasticizing and thorough mixing at low temperatures
- Unique clamp force correcting system that keeps clamping force stable



A **Systec 280 AD/630-1450** (310 U.S. tons) is molding a 6.01 oz PP automotive arm-rest insert in a two-cavity cold runner mold on a 30-second cycle. This machine includes the "activeDrive" (AD) speed-regulated pump drive option.



Available in model sizes from 39 to 2248 U.S. tons, the Systec Series provides excellent energy efficiency and ruggedness through the use of toggle technology for machines 146 U.S. tons and above or fully-hydraulic operation for machines up to 135 U.S. tons. It is available in multiple levels of sophistication, from basic models with extensive equipment packages to complete production cells. Energy-efficient injection is provided via highly dynamic DFEE pumps as standard. The Systec's high production speed is due to fast dry-cycle times plus the activeQ active mold protection system. Linear guidance of the



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moving platen as standard ensures maximum precision, less wear on the mold and shorter cycle times.

Zeiger Industries (NPE Booth 4373, West Hall) is molding 43-gram Liquid Silicone Rubber (LSR) quiche pans (Shin-Etsu Silicones of America, Inc. KEG-2000-70) on a 38-second cycle. The PTG Silicones single-cavity cold-runner mold is being run in an **SE50DUZ** direct-drive all-electric using Zeiger's LSR plug-n-play conversion kit. The Zeiger conversion kit is designed to take a thermoplastic molding machine and quickly convert it to an LSR molding machine.



In NPE Booth 1563, West Hall, Yushin America's new small YC-series, high-value robot is mounted on an **SE180DUZ** (198 U.S. tons) direct-drive all-electric. The complete cell is molding a custom-designed 0.18-lb ABS smartphone desk stand or tablet desk stand in New Star single-cavity mold.



Sumitomo (SHI) Demag is a worldwide group of companies 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 spans from 8 to 606 U.S. tons, including micro to mid-sized, high-speed, high-duty, vertical, insert, high-speed multi-shot and disc molding machine series. Ultra-high-speed hybrid machines are offered for packaging and other thin-wall applications, plus high-performance hydraulic and toggle machines, including configurable multi-component models, are offered up 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.

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