

**PRESS RELEASE**

June 22, 2009

**Sumitomo Plastics Machinery and Demag Plastics Group Present “Injection Molding Machinery in a Whole New Light”**

**[NPE 2009, Chicago, IL]** ... Sumitomo (SHI) Plastics Machinery (America) LLC (SHI-PM) and Demag Plastics Group Corp (DPG), affiliated companies of Sumitomo Heavy Industries, Ltd. (SHI), Plastics Machinery Division, kicked off NPE today with the theme of “Injection molding machinery in a whole new light.”

“Sumitomo Plastics Machinery and Demag Plastics Group, working together in North America, are in a unique position to help molders, and our NPE booth exemplifies this,” said Jim Mitchell, Executive Vice President for SHI-PM and DPG. “The machine demos, molded parts exhibits, videos, aftermarket service and support displays, special programs and instructional sessions on everything from the new Z controller to equipment financing, attest to the unmatched breadth of our capabilities — but more important, they are all focused on helping molders on every level possible.”

From a machinery perspective, SHI-PM and DPG provide:

- The world’s widest platform of energy-efficient all-electric machines which spans from 8 to 606 US tons including micro to mid-sized, high-speed, high-duty, vertical, insert, multi-shot and disc molding machine series
- Ultra-high-speed hybrid machines, 110 to 780 US tons, for packaging and other thin-wall applications
- Hydraulic-toggle machines, 28 to 2200 US tons, that offer high-end performance at a competitive price

Two of the company’s molding demonstrations focus on new all-electric molding machine models, the SE-DUZ direct-drive and SE-HDZ high-duty, and the Z Control.

“We brought our second generation all-electric machine to NPE 1994. In the fifteen years since then, we have developed an extensive



*The graphic of an energy-efficient compact fluorescent light bulb (CFL) encompassing the globe can be seen throughout the exhibit. The graphic was chosen to emphasize the environmental and cost savings attributes of the equipment, the worldwide capabilities and importance of the North and South American molding markets, and the technological advancements that are changing the injection molding industry.*

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**[SHI-PM and DPG Present...continued...Page Two]**

platform of all-electrics, with each new generation pushing the envelope on precision, speed, energy efficiency and applications flexibility,” Mitchell said.

“In addition to the advanced technology of the Sumitomo-built motors, you can walk from one end of the machine to the other noting every step of the way Sumitomo-specific advancements that make quantifiable improvements in precision and overall productivity. NPE 2009 is no different,” Mitchell commented. “Sumitomo is once again moving molding technology forward, particularly with our new Z Control that changes the focus on how to control the molding process.”

[For information on the Z Control, see separate press release: *New Z Control Helps Significantly Reduce Cost While Improving Quality and Productivity.*]



*Jim Mitchell  
Executive Vice President*

**The New SE-DUZ Direct-Drive All-Electric Series**



*The new SE-DUZ  
direct-drive all-  
electric is available  
in model sizes from  
20-200 US tons.*

Sumitomo introduced its new SE-DUZ direct-drive all-electric in the booth with a demonstration on an SE130DUZ (143 US tons) running a 64-cavity medical pipette mold on a 10-second cycle. The PP thin-wall part weighs 0.013 oz.

Like the predecessor SE-DU Series, the SE-DUZ features four direct-drive, Sumitomo AC servo motors with full closed-loop control and digital sensors for plasticizing, injection, clamping and ejection. All four motors are beltless, providing superior mechanical efficiency, repeatability and durability, and avoiding the problems associated with belt adjustment and dust. Unique to Sumitomo's advanced motor



*PP thin-wall medical pipettes  
molded on the SE130DUZ*

## **[SHI-PM and DPG Present...continued...Page Three]**

technology is a lighter, compact, low inertia design that:

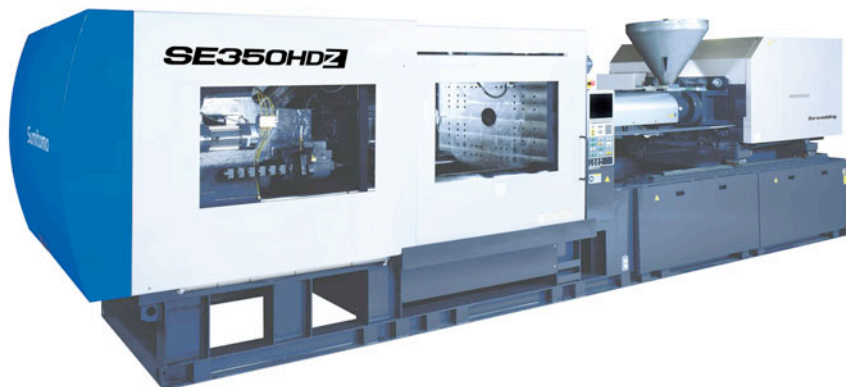
- Provides the speeds, pressures and torque for the most demanding applications
- Draws power only as it is needed and is easier and faster to stop and start
- Provides exceptional precision and repeatability

Highlights of the demonstration include:

- Patent-pending Flow Front Control (FFC) System of the new Z Control optimizes the flow front further allowing control of low internal pressures inside the cavities. This provides exceptional precision to control/eliminate flash and short shots by effectively controlling gases under filling.
- Center Press Platen design and precision settings ensure superior mold protection in this high-speed, high-cavitation application
- Unique clamp force correcting system that uses a sensor on the tie bar to measure clamp tonnage. Working together with a control device and rotary encoder, this system compensates for thermal expansion of the mold, keeping clamping force stable.
- A standard-equipment machine with high-speeds and pressures and fast mold/open close

[Machine specifications can be found in the Booth Brochure.]

## **The New SE-HDZ High-Duty All-Electric Series**



*The new SE-HDZ high-duty all-electric is available in model sizes from 242-496 US tons.*

**[SHI-PM and DPG Present...continued...Page Four]**

Sumitomo also introduced its new SE-HDZ high-duty all-electric in the booth with a demonstration of a SE220HDZ (242 US tons) running a two-cavity automotive armrest insert mold. The part, weighing 6.01 oz, was run on a 17-second cycle.

The SE-HDZ Series is designed for parts with 15+ second cycles and thick walls. This machine series features high hold pressures, up to 31,718 psi, that match injection pressures. Equipped to deliver full power for up to 40% of the cycle, this series ensures exceptional stability, durability and the ability to handle tough, high-duty applications. Highlights of the exhibit include:

- Z control's Minimum Clamping Molding (MCM) system uses a built-in detection capability to sense minimum force required at mold touch. The MCM system helps avoid flash, burn spots and short shots, and can reduce mold wear, cycle times and power consumption.
- Double Center Press Platen design that provides high rigidity and uniform distribution of clamping force, reducing the force required by up to 20%. This feature, plus wider platens and higher injection capacities, allows larger molds to run on smaller machines.
- Four Sumitomo-built AC servo motors provide significant energy savings. Combined with the exceptional precision and cycle-time optimization, the result is less cost and higher yield for improved overall productivity.

[Machine specifications can be found in the Booth Brochure.]

The company also announced today that it is idling its U.S. manufacturing plant in Pendergrass, GA. Operating as a separate company, Sumitomo (SHI) Plastics Machinery Mfg., LLC, is a standalone facility located approximately 60 miles north of Atlanta. The facility, which is owned by SHI, was built in 1998. The company is considering different options for the facility.

Prior to the opening of the Pendergrass facility, all of the company's machines came in from overseas, and even in recent years, there were many model sizes not manufactured in Pendergrass that were imported. "We have always stocked machines and brought machines



*6.01-ounce automotive armrest inserts molded on a 17-second cycle*

**[SHI-PM and DPG Present...continued...Page Five]**

in to meet customers needs. That will not change,” Mitchell said. “Further, this announcement needs to be viewed in conjunction with the recent announcement that SHI will invest \$50 mil Euro in Sumitomo (SHI) Demag GmbH in Germany and designate the Wiehe plant as a second, major manufacturing center for the company’s platform of all-electric machines. Going forward, we will have the option of utilizing the all-electric IMM manufacturing centers in Chiba, Japan, and Wiehe, Germany, as best meets the needs of our North American customers.”

Additional information on Sumitomo Plastics Machinery’s products and services can be found at **[www.sumitomopm.com](http://www.sumitomopm.com)**.

Sumitomo (SHI) Plastics Machinery (America), LLC, headquartered in Norcross, GA, and Demag Plastics Group Corp., headquartered in Strongsville, OH, are affiliated companies of Sumitomo Heavy Industries Ltd., Plastics Machinery Division. The company has the world’s largest platform of advanced all-electric machines which spans from 8 to 606 US tons including micro to mid-sized, high-speed, high-duty, vertical, insert, multi-shot and disc molding machine series. Ultra-high-speed hybrid machines are offered for packaging and other thin-wall applications, plus high-performance configurable hydraulic-toggle machines are offered up to 2200 US tons.

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