

PRESS RELEASE

January 29, 2008
For Immediate Release
General Distribution

Sumitomo Demonstrates New LSR Injection Molding System

(Plastec West, Anaheim, CA)...Sumitomo Plastics Machinery's Plastec West exhibit demonstrated the exceptional precision that can be achieved in LSR and high-cavitation thin-wall applications using the company's SE-DU Series of direct-drive all-electric machines.

New to the marketplace is the company's LSR system, as described in Demonstration #1.

Demonstration #1

Machine

U.S.-built Sumitomo SE75DU direct-drive all-electric (83 US tons)

Product

Two-duck-bill medical valve used in surgical scrub rooms

Part weight

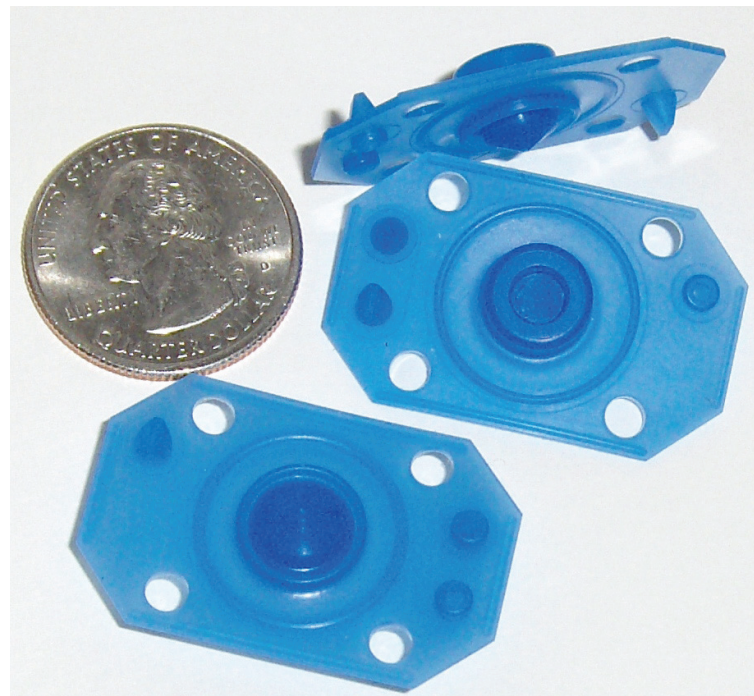
0.039 oz (1.1 g)

Material

LIMSTM (Liquid Injection Molding System)
KE1950-70 silicone, compliant with USP Class VI. Material provided by Shin-Etsu Silicones of America, Inc., Akron, OH, www.shinetsusilicones.com

Mold

Runnerless, 2-cavity valve-gated two-drop system with cold deck. Mold courtesy of Kingson Mold & Machine Inc., Brea, CA, www.kingsonmold.com, cold deck provided by Seiki Corporation.



Hi-res photo can be downloaded at www.sumitomopm.com/PW/LSRparts.jpg

The **Meter-Mix Dispensing System and shut-off nozzle** provided by Fluid Automation Inc., Wixom, MI, www.fluidautomation.com

Applications

LSR applications requiring exceptional precision and repeatability.

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“Sumitomo has been providing LSR and LIM machines for some time now, but we are particularly pleased to introduce our new LSR package for this growing market segment,” said Jim Mitchell, Vice President Sales.

“LSR’s extremely low viscosity makes precision shot control imperative, and Sumitomo’s direct-drive all-electrics are uniquely well-suited for this type of application. Due to the extreme process linearity of the Sumitomo-designed direct-drive servomotors, we are able to consistently deliver very fine control and stability that hydraulics and belted electric motors simply cannot provide,” Mitchell said.

Using Sumitomo all-electrics for LSR applications also benefits molders with a very clean operating environment and significant reduction in energy use, no hydraulic fluids to purchase/clean up/dispose of, etc., minimizing manufacturing costs.

“Unlike some LSR systems that are fixed, our new system can be changed over to thermoplastic molding — an added benefit for custom molders. By switching out the screw and barrel assembly and making a few program changes, the system can be switched to run thermoplastics if needed, and then switched back again,” Mitchell said.

A second machine featured in Sumitomo’s booth demonstrated fast-cycle, high-cavitation, thin-wall molding.

Demonstration #2

Machine

U.S.-built Sumitomo SE100DU direct-drive all-electric (110 US tons)

Product

Thin-wall pipettes

Material

Basell Polyolefins Pro-Fax PD702
Polypropylene Homopolymer

Part weight

0.013 oz. (0.359g)

Cycle time

10 seconds

Mold type

64-cavity hot-runner (Mold courtesy of Cavaform International, www.cavaform.com)

Applications

High-volume molding of thin- and semi-thin-wall high-precision parts



Hi-res photo can be downloaded at www.sumitomopm.com/PW/Sumitomopipettes.jpg

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Highlights:

- Center Press Platen design and ultra-precise mold protection settings ensure superior mold protection in this high-speed, high-cavitation application
- Servo control with specialized algorithm and software that achieves faster response and outstanding stability for parts with tight tolerances; plus machine equipped with optional SK-II control

Sumitomo (SHI) Plastics Machinery (America), LLC, is headquartered in Norcross, GA. The company manufactures a wide range of high-precision all-electric injection molding machines for diverse applications, plus a hybrid electric series for ultra high-speed packaging. The Sumitomo all-electric platform spans from 8 to 660 US tons, including micro to mid-sized, high-speed, high-duty, vertical, insert, multi-shot and disc molding machine series. Additional information on the company and its equipment can be found on the company's website at: www.sumitomopm.com.

(END)

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