



For Immediate Release
General Distribution

April 3, 2006

Sumitomo to Debut Mid-Sized, High-Speed All-Electric at NPE 2006

New Series makes Sumitomo's advanced direct-drive technology for injection and clamping available in 242-385 ton range.

(Norcross, GA)...Sumitomo Plastics Machinery will be introducing a new high-speed, mid-sized all-electric machine series to the North American market at NPE 2006: the SE-HS Series.

The SE-HS, which is available in 242, 308 and 385 US ton models, brings the advantages of Sumitomo's advanced **direct-drive motor technology** to high-speed molding applications in the **mid-tonnage** range. With this new series, mid-range applications can now get the energy efficiency, cleaner molding environment and precision benefits of an all-electric *combined* with the higher speeds and pressures typically found only on high-performance hybrids and hydraulics.

Equipped with direct-drive motors for both injection and clamping, the SE-HS is ideally suited for parts with a cycle time less than 15 seconds, thin-wall parts and other applications requiring high-speed, high-precision injection.

"Productivity improvement features can be found in almost every aspect of the new SE-HS High-Speed All-Electric," said Jeff Hicks, Vice President, Technical Sales. "High-precision thin-wall, automotive, medical and packaging applications in this tonnage range can now be run on a competitively priced all-electric without compromising on speeds, pressures, cycle times or energy efficiency."

Specific productivity improvement features of the SE-HS include:

- Sumitomo direct-drive motor technology for both injection and clamping across all model sizes. The direct-drive motors have a lighter, more compact, low-inertia/high-torque design that draws power only as it is needed, is easier and faster to stop and start, and is exceptionally precise.
- Fast, mold open/close speeds of **1300mm/sec** (51.18 in./sec)

(MORE)

(SUMITOMO SE-HS Series Continued...page 2)

- The new twin-cylinder high contact force (nozzle touch) system provides significant advantages over lower contact force systems. In addition to providing high force comparable to that of a hydraulic clamp machine, this new system provides exceptionally fast pressurization/ depressurization of 0.3 seconds for faster cycle times. (Typical times range from 0.6 to 1.0 seconds and thus this feature **can reduce cycle time by up to 1.4 seconds.**)
- New SM Screw (standard). The patent pending technology of this screw provides low shear plasticizing and thorough mixing at low temperatures, avoiding problems such as burning and black spot. Additionally, **due to the lower temperature and reduced cooling time, the SM screw can help reduce cycle times.**
- Injection speeds of 300mm/sec (11.81 in./sec) and velocity response of 25 milliseconds
- 10 modes or ramps of filling speed and hold pressure response allow the operator to precisely set the plasticizing acceleration and deceleration response.
- 5-stage mold open/close speed control and ramping that enables optimization of mold open/close profiles for fast cycles with shock-free movement, and reduced cycles for 3-plate and slide-core molds
- Multi-toggle clamp force control which includes a high-cycle mode in which **filling can begin during clamping for improved cycle time**
- Features that support fast, easy mold changeover including: increased distance between tie bars; increased space for tie-in of ejector rods; selectable nozzle position for purging; a new, highly precise rotary encoder for fast, high precision mold height adjustment; and simple (digital remote) clamp force adjustment
- Sumitomo's popular N-8 Control System which is both easy to use and includes various machine optimization features

Sumitomo will be demonstrating a 242 US ton SE-HS at NPE 2006 in Booth 1885. The SE220HS will demonstrate high-speed molding of a thin-wall medical container (4-cavity mold).

Additional information on Sumitomo's new, affordably priced SE-HS Series can be found on the company's website at www.sumitomopm.com

(MORE)

(SUMITOMO SE-HS Series Continued...page 3)

The Sumitomo **all-electric platform**, 8 to 660 US tons, includes micro to mid-sized horizontals, high-speed and high-duty models, vertical, insert and multi-shot models, and disc molding subsystems.

END

PR Contact: Susan Hunt Levin
email: info@sumitomopm.com