



For Immediate Release
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Sumitomo Debuts All-Electric Vertical at NPE

(Booth #1491, NPE 2003, Chicago, IL) ... Sumitomo's new SR Series all-electric vertical injection molding machines made their North American debut today with the opening of NPE.

The new, rotary-table vertical series is designed for insert and over-molded parts including automotive, electrical, medical, consumer product and other applications including thin-wall parts.

The SR Series features Sumitomo's all-electric technology that has been field-proven on the company's popular SED and SES Series. Each machine is equipped with five Sumitomo-built, synchronous AC servo motors that draw power only as needed and ensure fast, energy-efficient, high-precision operation. All five motions—plasticizing, injection, clamping, ejection and table rotation—are controlled by these motors. The result is precision and repeatability in which the set points and actual values are virtually indistinguishable from each other. Results for shot weight accuracy and repeatability yield a typical deviation-to-mean ratio of less than 0.02%.

Demonstrating up to 50% less power consumption compared with hydraulic vertical machines, the SR Series delivers quantifiable energy savings. Demand on cooling systems is also lower, and expenditures related to the purchase of hydraulic oil and filters, oil clean-up and disposal are reduced.

The SR Series achieves faster cycles due to its ability to simultaneously perform insert and molding operations and the exceptionally fast table rotation. The electrically gear-driven table rotates 180° in less than 1.6 seconds and uses a mechanical stop mechanism for repeatable positioning.

High speeds and pressures, including 300 mm/second injection velocity, are standard features of the SR Series, supporting a wide range of applications including parts with thin-wall sections.

The design of the SR Series provides a 5-30% smaller footprint and larger daylight than competitors' machines. The SR50, for example, has a 1.6 m x 1.6 m (63 in x 63 in) footprint and 520 mm (20.5 in) of daylight.

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(Sumitomo Debuts All-Electric Vertical...continued)

Built for reliable, precision operation, the SR Series also features a twin-backbone, high-rigidity frame with LM guide that secures the linearity of the platens and injection unit.

Sumitomo's SR Series is currently available in 55 and 83 US ton models.



<http://www.sumitomopm.com/hi-resolution-images/SR75.jpg>



In the booth, Sumitomo demonstrated the SR50 (55 US tons), producing insert-molded automotive sensor housings. Each 30% glass-filled PBT part weighed 0.69 oz plus the 0.13 oz brass insert.

<http://www.sumitomopm.com/hi-resolution-images/Sumitomo%20Insertpart.jpg>

Sumitomo Plastics-Machinery provides a complete line of injection molding machines, from 20 to 716 US tons, including all-electric horizontal and vertical models, hybrid electrics, hydraulic and hydromechanical clamp models, ultra high-speed toggles and disc molding systems.

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