

PRESS RELEASE

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Sumitomo (SHI) Demag to Introduce SE-EV-HD High-Duty All-Electric at NPE 2015

- **High-precision all-electric specifically designed for molding thicker-walled parts**
- **Provides longer and higher pack and hold pressures while maintaining molding stability**



[Strongsville, OH – December 16, 2014]...Sumitomo (SHI) Demag announced today that it will introduce the SE-EV-HD all-electric to the North American market at NPE 2015, March 23 - 27 in Orlando (Booth W623). The new high-duty (HD) models of its flagship SE-EV Series are specifically designed for thicker-walled parts including complex parts with a combination of thin and thick walls. An SE180EV-HD (202 U.S. tons) will be demonstrated at NPE. Other model sizes for the Japan-manufactured machine will include 100 and 130 metric tons (112, 146 U.S. tons).

Ideally suited for parts with cycle times 15 seconds and up, the SE-EV-HD can provide full pressure for up to 40% of the molding cycle while maintaining exceptional molding stability. Applications range from automotive, appliance and consumer products to other types of general-purpose parts requiring high-precision, energy-efficient molding.

“Sumitomo (SHI) Demag’s unique capabilities in advanced motor

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technology have enabled us to expand the high-speed SE-EV Series with an HP model for ultra-high speed applications requiring injection speeds up to 1000 mm/sec, and now with an HD model that meets the need for longer and higher pack and hold pressures,” said John F. Martich III, V.P. and Chief Operating Officer of Sumitomo (SHI) Demag’s U.S. operations. “While we may be best known for our high-speed all-electrics, our mid-size SE-HDZ high-duty all-electric has proved to be very popular in the North American market, and we’re looking forward to expanding our all-electric molding solutions with this smaller tonnage high-duty model.”

Machine Features

Key to the precision and molding stability of the SE-EV-HD are the full Z-molding capabilities and the ISC II servo controller. Designed to help molders achieve zero-defect molding and optimum machine performance, Z-molding combines three unique systems:

- The Flow Front Control (FFC) System takes advantage of the energy in the flow front of the resin to complete filling in an even fashion as opposed to forcing material into open areas and thus flashing the areas that were already filled.
- The Minimum Clamping Molding (MCM) System allows the machine to automatically detect the minimum point at which the mold halves are completely parallel and defines the threshold where flash-free molding can occur and the optimum point at which the best cavity venting exists.
- The Simple Process Setting (SPS) System allows easy setup, operation and machine optimization while helping the operator avoid oversights and mistakes.

Other standard features of the SE-EV-HD include:

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- Proprietary belted motors for ejection and plasticizing
- High-power, belted injection servo motor that enables longer hold time and prevents sink marks and cosmetic issues with thick-walled parts
- High-contact nozzle force with selectable settings
- A high-speed direct-drive motor for clamping
- Field-proven high-precision clamping unit
- Linear platen support system plus high rigidity frame for better mold linearity and parallelism
- Plated, bush-less tie bars for a clean molding area

SE-EV-HD customers will also receive the benefits of:

- Attractive financing options
- Our extensive service and support network
- North American stock machine availability with a choice of screw/barrel combinations
- The comprehensive 24/48 Warranty that comes with all SE Series machines

Sumitomo (SHI) Demag's worldwide group of companies is 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 (SE and CL series) spans from 8 to 935 U.S. tons, including micro to mid-sized, high-speed, packaging, high-duty, vertical, insert and high-speed multi-shot machine series. Ultra-high-speed hybrid machines (EI-Exis SP and Systec SP series) are offered in models from 165 to 825 U.S. tons for packaging and other thin-wall applications. Configurable, high-performance hydraulic and toggle machines (Systec Series), including multi-component models, are also provided for applications from 39 to 2248 U.S. tons. Equally important, Sumitomo (SHI) Demag has an extensive worldwide network, ensuring customers of sales, parts,

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training, service and processing support when and where it is needed.

Information on the North American operations of Sumitomo (SHI)
Demag can be found at: www.sumitomo-shi-demag.us

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