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Sumitomo Introduces 55-88 Ton SHC General-Purpose Machines

(Booth #6550, NPE 2000, Chicago, IL)... Sumitomo Plastics-Machinery has added two new model sizes to the popular, US-built SHC Series: the SH50C and the SH80C (55 and 88 US tons respectively.)

Like the 110-385 ton models, the new, smaller SHCs provide high-performance, precision repeatability at a general-purpose price. For example, injection performance features include:

- Screw positioning settable to .001 in.
- Fine Flow Control screw assembly for superior pressure transmission
- Auto Slow Down mode to ensure optimum stroke accuracy without hampering cycle time
- Programmable V/P switchover selectable by position, time or pressure

For the two new sizes, however, closed loop control of velocity and pressure is achieved by Direct Digital Control (DDC) of a variable volume pump with highly sophisticated pressure and flow measuring feedback devices.

The high-performance, precision repeatability of these new machines is being demonstrated in Sumitomo's booth with an SH80C running banking industry security seals.

The SHC's fast-response, PID temperature control, with barrel zones settable to 0.1°F and 2-second sampling, helps ensure the uniform, low-stress melt necessary for these high-tensile strength, nylon seals. The SHC also delivers the precision repeatability needed for the tamper-evident seals' tight-tolerance locking teeth.

The only significant difference in the smaller SHCs is the clamping mechanism. Unlike the hydromechanical clamp in the 110-385 ton models, the 55-88 ton models have a

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closed-loop, electronically controlled, direct hydraulic clamping system that features:

- Precise digital setting and Direct Digital Control (DDC) of mold open/close positions
- Three-stage mold open/close speed control settable on a percentage basis
- Fast response prefill valve for cycle time improvement
- 20% thicker platens with increased rigidity compared with the 55-88 ton SHM (predecessor machine series)

In keeping with the rest of the series, the new SHC models have been designed with the same wide range of features to ensure ease of use and production flexibility.

For ease of use, the N-VII control is standard, offering full-color graphics on a large, 10.4 inch LCD screen, screen-prompted setup assistance, auto-programming of initial molding conditions, password protection and "pop-up" screens that help avoid operator error.

Production flexibility is the result of the large capacity injection units, wide platens/tie bar spacing, High-Resolution Low-Speed mode and the intrusion molding capability.

The SHC Series, including the new 55 and 88 ton models, is manufactured at Sumitomo Plastics-Machinery Manufacturing's one-and-a-half year old plant in Jefferson, GA. Opened in November 1998, the \$10 million, 40,000 square foot facility recently completed its 100th machine.

Sumitomo Plastics-Machinery provides a complete line of injection molding machines, from 20 to 716 US tons, including general purpose, all-electric, hydraulic, ultra high-speed toggles and disc molding systems.

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