Overmolding Plastic on Medical Devices

MDT Staff

Diversified Plastics, Inc. has installed a Newbury/VanDorn 80-ton vertical rotary injection molding machine. This gives the company expanded capabilities along with additional production support.

“This type of press is very important for our medical device business,” said Mark Gremmels, operations manager for Diversified Plastics. “We felt equipment redundancy, along with increased capacity would give us more flexibility, allowing us to respond quickly and efficiently to our customers’ needs. A benefit of another vertical press is that it allows us to group jobs by material, such as a thermoplastic elastomer (TPE). We can be more efficient during project change over and do not have to worry about material cross contamination.”

The company over-molds plastic on medical devices and this requires the component to be inserted into a mold prior to injection molding. The press features a rotary table which holds two B-side tools (lower mold halves), and one A-side tool (upper mold half), which remains stationery in the vertical injection section of the press. While one part is molded, the operator can preload inserts into the second B-side tool. After each part is molded, the table rotates and the operator removes the finished part, then loads the next insert.

Employee-owned Diversified Plastics is a custom injection molder of high-precision, close tolerance, small- to medium-sized injection molded components for medical device, filtration, aerospace and a variety of other industrial markets. The 36-year-old company is a full-service injection molder, from design assistance and mold construction, to intricate molding and clean room assembly. Diversified Plastics is ISO 9001:2008 and 13485:2003 certified, ITAR and UL registered.

For more information, visit www.divplast.com [1].

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[1] http://www.divplast.com