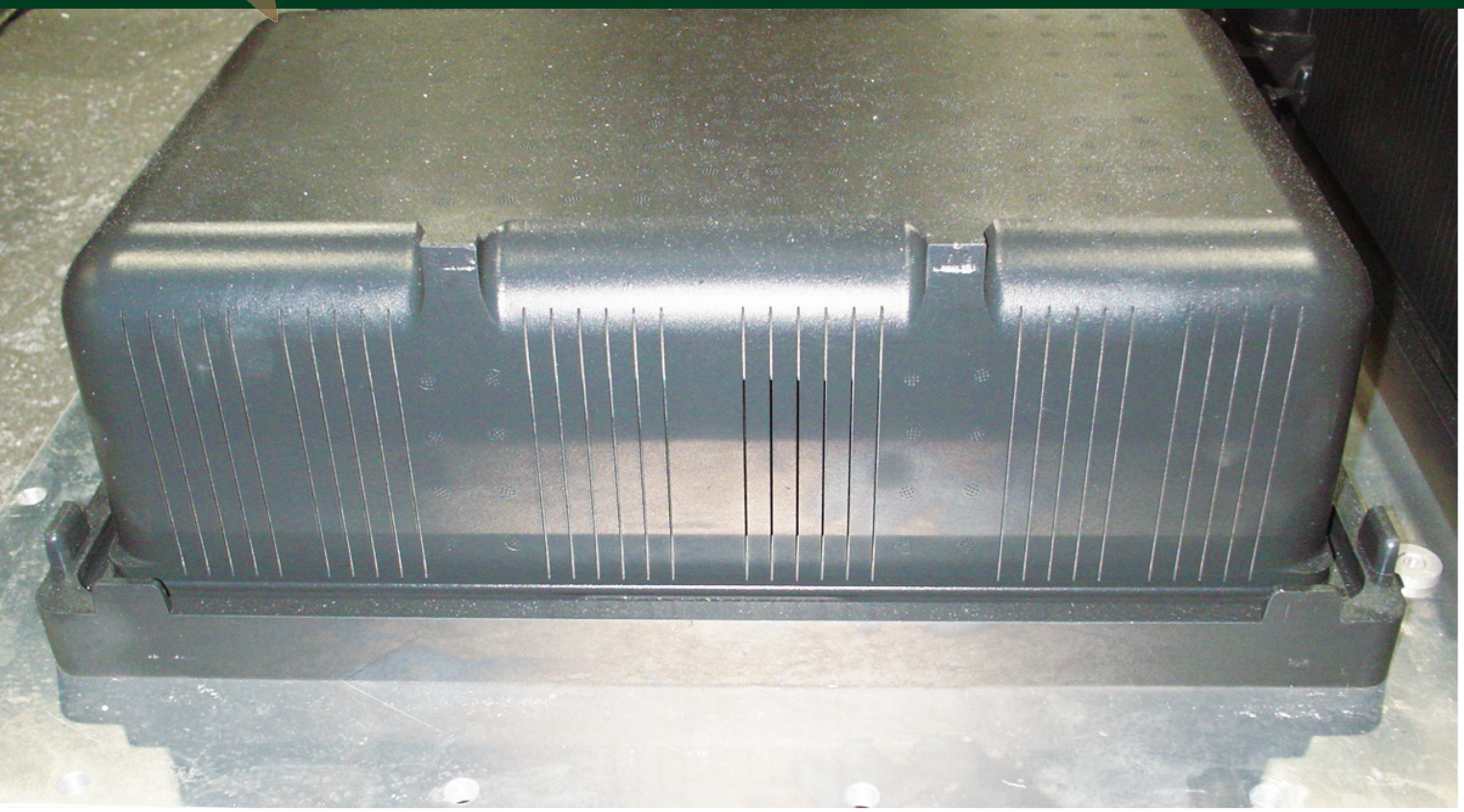
Increasing the quality and productivity of Styrofoam molding



Name of product or technology

Die Styrofoam molding

【 Overview 】

The product is a die that incorporates slits (cuts) in order to smooth the process of ejecting and introducing compressed air and heated steam during molding. Its use makes it possible to fill raw material and perform hot forming in a uniform manner, and the molded Styrofoam produced by the process exhibits excellent uniformity of strength. In addition, by reducing the amount of compression that is applied to the raw material inside the die by the conventional raw material filling method (which involves opening the die), the amount of time during which steam is introduced during fusing of the raw material can be shortened. This improvement yields significant benefits in terms of improved quality, productivity, and energy savings.

The product facilitates stable production since molding conditions are easy to configure and less experience is required, making it an ideal candidate for integration with automatic alignment and packaging equipment.

Key feature

The product contributes to energy-efficient production and improved molding quality by facilitating reduced steam use, faster cooling, and faster molding during Styrofoam forming.

【 Reference price 】 120% of conventional die (per product)

【 Company profile 】

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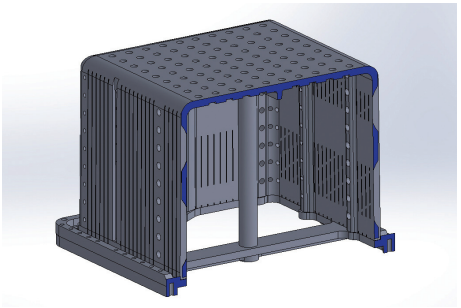

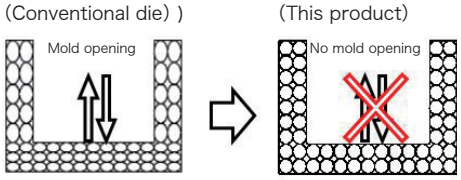

With conventional dies, the die has to be opened in order to fill it with raw material (foamable beads) during the molding process. However, this product eliminates that step, allowing uniform filling and more uniform strength in the resulting formed products.

Comment from company/promotional message

The product uses a special slit design that makes it possible to fill it with raw material and perform hot forming in a uniform manner, reducing steam consumption and shortening molding times. As a result, it makes possible energy-efficient production while improving the quality of molded products.