

SEIKOH GIKEN and Sumitomo Heavy Industries Jointly Develop "SSIMC" Eco-Friendly Decorative Technology

-Realizes reductions in CO2 and advanced designability with in-mold coating-

SEIKOH GIKEN Co., Ltd. ("SEIKOH GIKEN") and Sumitomo Heavy Industries, Ltd. ("Sumitomo Heavy Industries") have jointly developed the "SSIMC" in-mold coating system, an eco-friendly decorative technology for injection molding machines. The companies aim to ready the system for sales and practical application by 2026.

[About the "SSIMC" in-mold coating system]

With the "SSIMC" in-mold coating system, which is specifically for small- to medium-sized products made with molding machines rated 280 t or lower, an in-mold coating system with an unprecedented degree of compactness has been realized. After resin formation in metallic molds, the system implants coating using a dedicated implantation machine, and forms coating film on the surface of molded products. By completing conventional coating and drying processes within the metallic molds, the system holds the promise of saving electric power and reducing CO2 emissions.

Moreover, because the coatings contain almost no Volatile Organic Compounds (VOCs), the system can be used to contribute greatly to a decarbonized society and the curbing of VOCs. Furthermore, it also excels at presenting fine patterns and textures with a three-dimensional appearance, and can be used to elevate the value of products' appearance as a decorative technology that simultaneously offers advanced designability.



[Injection molding machines]

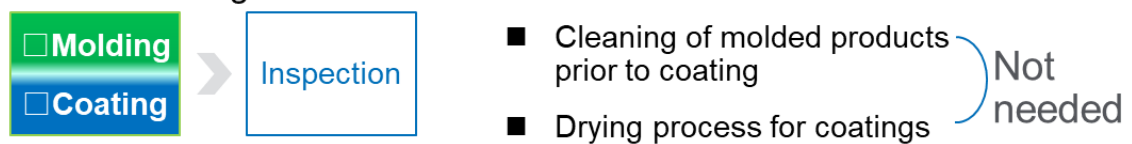


[In-mold coated products]

General coating process



In-mold coating



[Comparison of coating processes]

[Features of product]

■ Environmental performance

Reduction of processes through in-mold coating. Reduction of CO2 emissions. Use of coatings that contain almost no VOCs.

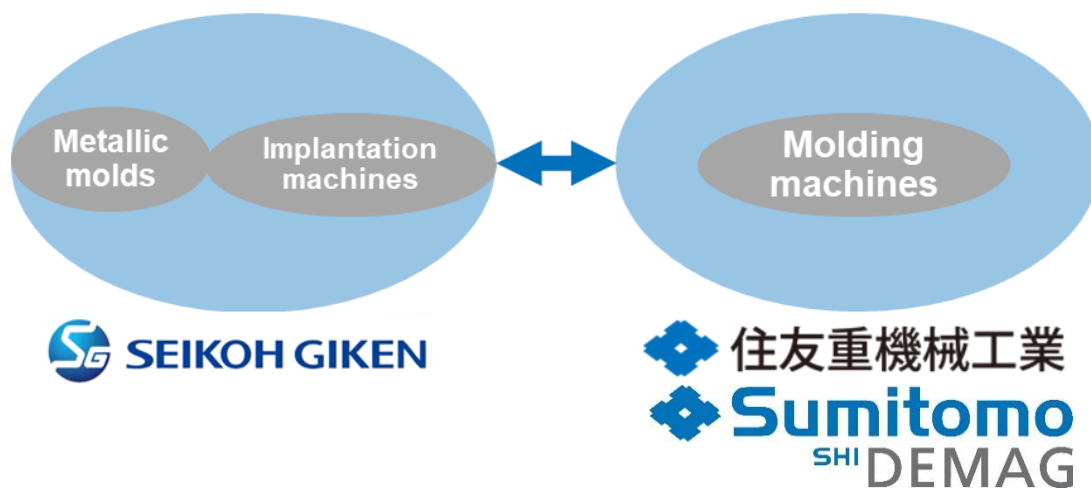
■ Advanced designability

High-precision presentation of textures and three-dimensionality through improved metallic mold transferability.

■ Application fields

Interior and exterior parts for automobiles, parts for home appliances, containers for cosmetics, etc.

[Roles of both companies in the "SSIMC" in-mold coating and molding system]



*Sumitomo (SHI) Demag is a member of the Sumitomo Heavy Industries Group.

[Exhibit information]

Samples produced using the "SSIMC" in-mold coating system will be exhibited at Sumitomo Heavy Industries' booth at "K 2025," an international trade fair for the plastics and rubber industry to be held in Dusseldorf, Germany between October 8 and October 15, 2025.

*Further details are available here:

https://www.k-online.com/vis/v1/en/exhprofiles/nn6lQfqISvSimNdWtObqQw?ticket=g_u_e_s_t

<<Reference>> Overview of Each Company

[SEIKOH GIKEN Co., Ltd.]

Main Office: Matsudo-shi, Chiba President and Chief Executive Officer: Jun Ueno URL:

<https://www.seikoh-giken.co.jp/en/index.html>

Since being founded in 1972, SEIKOH GIKEN has supplied the market with high-precision, high-quality molds. In particular, it has established its position as a global brand leader in optical disk molds, which require processing precision at the nanometer level. In recent years, SEIKOH GIKEN has commenced the supply of precision molded products for the automotive, medical, biotechnology and other growth markets by combining industry-leading mold technologies with various molding technologies that include thermoplastic, thermosetting and UV curing molding, and is pushing forward with the transformation of its business model into that of a manufacturer that conducts integrated operations ranging from molds to molding.

[Sumitomo Heavy Industries, Ltd.]

Head Office: Shinagawa-ku, Tokyo Representative Director, President and CEO: Shinji Shimomura

URL: <https://www.shi.co.jp/english/index.html>

Sumitomo Heavy Industries entered the injection molding machine business in 1965. Since then, it has been developing technologies that have been leading the industry, such as all-electric machines equipped with the industry's first direct drive system and the revolutionary integration application "Zero-molding." Its strength includes its robust lineup and precision/high-cycle molding, which contribute to the production of a wide variety of plastic products. Going forward, Sumitomo Heavy Industries will further push forward the sustainability of the global environment and the overall industry with involvement in molding that the company belongs to in its capacity as a leading company that promotes "the realization of a sustainable society."

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