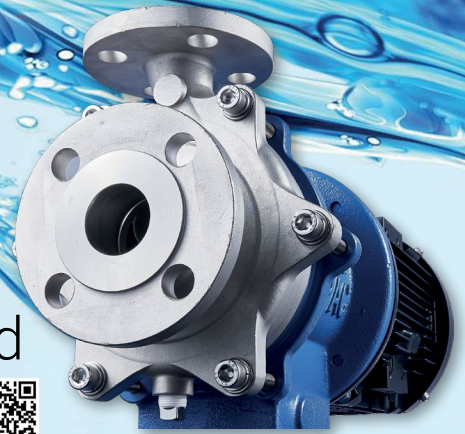


Pioneering the Net ZERO Era: Sanwa Hydrotech's 90-Year Legacy and Beyond

"Leak-Free" is just the beginning—Sanwa's magnetic drive pumps are next-generation solutions, engineered with a philosophy and proven track records to unleash productivity at the frontline. *By Daniel De Bomford and Bernard Thompson*



Stainless Steel Leak-Free Pump 'MP'

"Towards the realization of a NetZERO society, we aim to create new value unique to our company."

Kiyotaka Horiuchi,
President and CEO,
Sanwa Hydrotech



Celebrating 90 years of innovation, Japanese industrial pump manufacturer Sanwa Hydrotech Corporation is cementing its legacy. Continuing to break new ground, it is expanding into emerging markets and driving advancements in fluid control technology. Solidifying its reputation as a market leader, the company has earned a reputation as an indispensable partner.

"We position NetZERO at the core of our global business strategy," says company President and CEO Kiyotaka Horiuchi. He describes the sector as an "unexplored frontier" and says the company is committed to developing new technologies.

Having established itself in 1934 with stainless steel casting, it wasn't long after the company moved into pump manufacturing. "Our ability to adapt and meet customer needs has allowed us to sustain our business," The President says. In response to the growing need for pumps that safely handle hazardous and toxic liquids, the company pioneered corrosion-resistant magnetic drive

pumps in the 1980s. Branded as "Sanwa Pump," these stainless steel centrifugal models are known for their leak-free operation, modular design, and exceptional durability—qualities that have become synonymous with the Sanwa name. A testament to their success, four decades on the worldwide supply record of their flagship stainless steel magnetic drive pumps is approaching a cumulative total of 200,000 units.

With its long lifespan, excellent maintenance efficiency, and space-saving design, the company is also expanding its presence in the Net ZERO sector. One of these key initiatives was introducing pumps into the methanation pilot plant¹ being developed by Osaka Gas Co. Ltd. at the Expo 2025 Osaka, Kansai. Horiuchi explains: "Sanwa Pumps are used in the water electrolysis system of the methanation pilot plant, as well as for circulating high-temperature liquids within the methanation reaction equipment. There are very few pumps capable of withstanding such harsh conditions, making

this a perfect application of our technology." He adds, "The synthesized methane gas is supplied to the kitchen of the guest house, where it serves as the heat source for preparing meals for distinguished guests from around the world."

Sanwa Hydrotech boasts a 20-year legacy in green hydrogen production through water electrolysis systems, earning a strong reputation for the reliability and safety of its cutting-edge pumps. Further solidifying its role in the clean energy transition, its technology has been

of each era and develop products that truly make a difference."

As Sanwa Hydrotech pursues continued growth, Mr. Horiuchi maintains a forward-looking approach, emphasizing adaptability to societal changes and evolving industry needs. With the company's 100th anniversary on the horizon, he underscores the importance of accurately understanding customer demands and strengthening partnerships both domestically and internationally. By aligning innovation with collaboration, the company



Sanwa Pumps support the Guest House at Expo2025 Osaka, Kansai© Japan Association for the 2025 World Exposition

selected for a pioneering demonstration project in Japan, where surplus solar power is harnessed for hydrogen production. By driving innovation in this critical initiative, it is actively shaping the future of the hydrogen society.

As the petrochemical industry intensifies efforts to cut CO₂ emissions, the company stands above, powering key sustainability processes. It plays a vital role in carbon recycling, where CO₂ emitted from factories is captured, separated, and repurposed as a raw material for chemical production and reuse.

In 2003, Sanwa Hydrotech shifted its focus entirely to pump manufacturing, discontinuing its stainless steel casting business. To honor its founder's vision, the company created a monument inscribed with his guiding principle: "New Technologies, New Materials, New Products," ensuring that his legacy continues to inspire future generations. The President speaks to this truth: "We must continuously respond to the demands

aims to remain a trusted, future-ready partner across the diverse sectors it serves.

As the company strives for continued growth, Mr. Horiuchi remains forward-thinking. "We aim to embrace societal changes and take on



Methanation pilot plant© Osaka Gas Co., Ltd.

new challenges, ensuring that Sanwa Hydrotech evolves alongside the industries it serves," he concludes.

1. The project commissioned by the Ministry of the Environment: Project to Construct and Demonstrate a Model for Reducing the Cost of Hydrogen Supply by Utilizing the Existing Infrastructure.



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Sanwa Pump team with EU distributor at AICHEMA 2024