

# TAHARA Newsletter

August.2025

**TAHARA**

**JSW**group

Visit us at Hall 13 B77

## Japan's No.1 Extrusion Blow Molding Machine Manufacturer

- 3-layer 3-head Double Station
- PCR, Regrind, and Calcium Carbonate Usable in Middle Layer
- Fully Electric Blow Molding Machine



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## Tahara to Exhibit at K 2025

At the upcoming K 2025 show in Düsseldorf (Oct. 8-15), Tahara Machinery Ltd. of Japan, a subsidiary of the Japan Steel Works (JSW), will introduce its **MBD series: all-electric double station extrusion blow molding machines with internet connectivity**. The range of product sizes for these machines is 300ml to 1.5 liters. The **MBD-C33A/54E2Z-AP(C3)** at the show will mold **three-layer, 1L bottles**, using **Tahara's own coex die head**. The middle layer is composed of post-consumer recycled (PCR) resin.

This 3-layer, 3-head model was awarded an **Environmental Award at Plastpol 2024**.

►Watch the machine in action here: <https://youtu.be/-DCfgtuPkb0>

## Multilayer Molding with PCR

Notably, the machine on display can mold bottles with **eco-friendly materials** such as **PCR**, **polyethylene containing calcium carbonate**, and **bio-based resins** in the middle layer. Its screw design, featuring barrier flights, a Maddock mixer, and dam flights, ensures excellent mixing and uniform dispersion of PCR materials.

Since launching the **world's first all-electric blow molding machine in 1994**, Tahara has built a strong track record of meeting diverse customer requirements, offering screw designs

optimized for specific materials.

The 1L bottles molded at the show will have a three-layer structure:

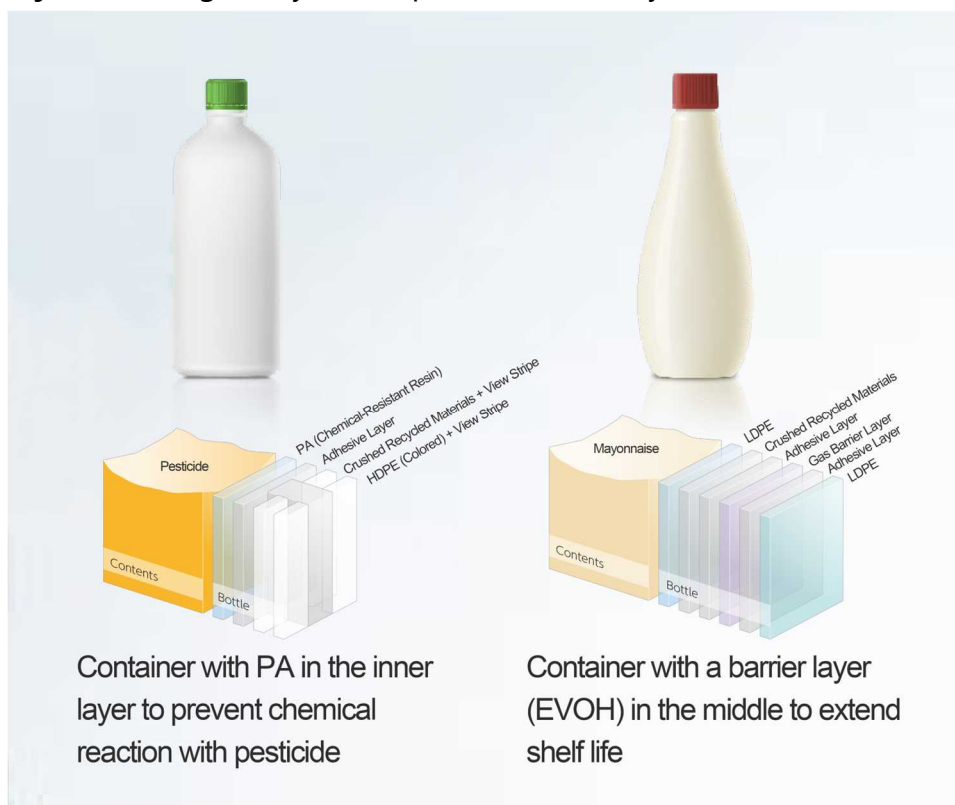
Layer	Inner	Middle	Outer
Resin	HDPE	PCR	HDPE + Masterbatch
Ratio	20%	60%	20%

Using **PCR in the middle layer** helps bottle molders comply with increasingly strict **environmental regulations** while **reducing material costs**. Regrind material can also be used in the middle layer, enabling waste resin reuse. Additionally, adding pigment only to the outer layer helps lower raw material costs.

## Why Multilayer Matters

Though recycled materials can potentially affect appearance or raise concerns about contents contacting them, **multilayer bottles solve these issues**. **Virgin resin on the inner and outer layers** prevents contact between the contents and recycled or regrind layers. This avoids **chemical reactions** and **protecting the appearance** of the bottle.

At the exhibition, Tahara will also showcase **co-extruded bottles** used for **food, cosmetic, and agrochemical containers**. Six-layer food containers provide excellent oxygen barrier properties. Meanwhile, pesticide containers use PA resin for strong chemical resistance. **Tahara's original coex head** extrudes multilayer structures with **uniform thickness in each layer**, ensuring no layer disruption. Detailed layer structure materials are available on request.



## Remote Maintenance with EWON

Furthermore, the machine is equipped with “**EWON**” for remote maintenance via VPN. By allowing our operators to perform **initial diagnosis using the customer’s machine information (logging data) and PLC data (programs and error history)**, the need for on-site inspections can be reduced. This enables faster on-site support by preparing necessary parts and tools in advance. In some cases, issues can be **resolved entirely through remote support**, cutting down both the time and cost of dispatching engineers. Moreover, accurately identifying faulty parts helps avoid unnecessary replacements.

## Visit Us at K 2025 – Hall 13 / B77

We invite you to visit us at **Hall 13 / B77**, located in the **JSW corner**. At the JSW booth, you will find a range of **injection molding machines** and **twin-screw extruders** on display, designed to meet the diverse needs of our customers. Our technical and sales experts will also be there to discuss how **Tahara’s proven multilayer solutions** are ready to meet the challenges of today and tomorrow.

To **schedule a meeting during K 2025**, please contact us through our reservation form:

<https://www.tahara-mc.com/en/reservation>

We look forward to seeing you in Düsseldorf.

For further information, please feel free to contact us.

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