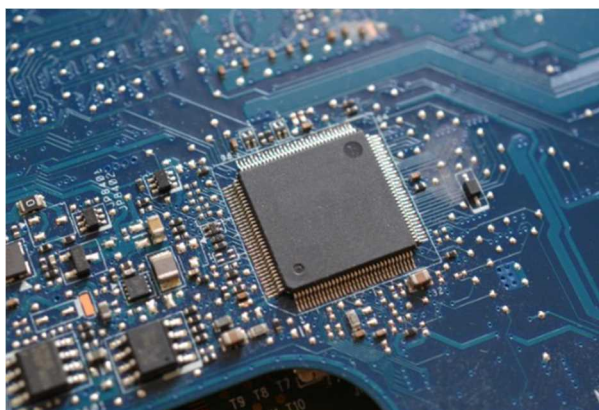


Proven molding machine for Semiconductor chemical solution container



Recently, the demand for semiconductors has been increasing, and many factories are being built around the world to meet that demand. Did you know that a special chemical solution used in semiconductor manufacturing requires clean, additive-free containers to prevent unwanted chemical reactions? It is not widely known, but molding this container requires an extrusion blow molding machine with proven technical

expertise.

Containers for this chemical solution are commonly 20-liter industrial containers or 200-liter drums, made with 2 or 3 layers, including a non-additive resin inner layer. The typical layer compositions are as follows:

	Inner		Outer
Rasin	UHMW-PE/HDPE (non-additive)	REG	UHMW-PE/HDPE
Ratio	20%	60%	20%

	Inner		Outer
Rasin	UHMW-PE/HDPE (non-additive)	REG	UHMW-PE/HDPE
Ratio	30%	40%	30%

This non-additive resin is unique, and most other extrusion blow molding manufacturers have little experience with it. The resin has challenging characteristics that can cause problems if not processed correctly. When using unsuitable molding machines, problems such as overheating, shark-skin on the inner surface of the packages, and elution of metallic components may occur.





Here are our strengths in preventing these issues.

1.Special screw:

We design a suitable screw to prevent overheating, output instability, and sharkskin when processing this non-additive HDPE.

2.G5-standard High-Purity container production:

Tahara extrusion blow molding machines can produce high-purity plastic containers that meet SEMI grade 5 (G5). We achieve this by applying special coatings to the flow path, using the right materials, and installing proper filters. These steps prevent metal elution. This technology has been developed through many years of cooperation with Japanese customers.

If you're interested in this machine, we encourage you to reach out to us before encountering any failures or difficulties!



Exhibited Our Flagship MBD Series at K 2025

Tahara participated in K 2025, held in Düsseldorf, Germany from October 8–15, 2025. The show welcomed over 3,000 exhibitors and 170,000 visitors from around the world. From Tahara, a team of ten members—including our President, overseas sales staff, and engineers—traveled to the event.



At the JSW booth, we conducted a live demonstration of our flagship blow molding machine, the MBD-C33A/54E2Z-AP(C3). The machine produced 1L three-layer bottles with PCR material in the middle layer, demonstrating our multilayer technology that meets the European market's strong focus on sustainability. We also introduced our enhanced remote

maintenance functions, supporting quicker troubleshooting and service for overseas customers.

While the Japanese market continues to see strong demand for 100 mL to 1 L bottles for daily goods, food, and pharmaceuticals, inquiries at K 2025 focused heavily on 20L industrial jerrycans, widely used for chemicals, fuel, agricultural products, and logistics. Their stackable design offers excellent efficiency in storage and transportation. These jerrycans can be produced using our TJS and TJD series, which provide reliable and high-quality solutions for industrial applications.

You can watch the molding process of the TJS on YouTube.

https://youtu.be/KP1c32mCAOw?si=J3_AEOWVC8e2A84p



Live demonstrations allowed visitors to fully appreciate the machine's impressive scale, quiet operation, and seamless molding process—an experience that catalogs or videos cannot capture. Tahara remains committed to advancing its technology and services to meet the evolving needs of global markets.

For further information, please feel free to contact us.

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