

CONTACT

徐 海浪 Frank

MP: 13918380976

s5@china-sam.com

FOR IMMEDIATE RELEASE

Shenzhen SAM Electronic Equipment Wins Mexico Technology Award for SM-6700 In-line PCBA Cleaning Machine

SHENZHEN, CHINA — October 2026 — Shenzhen SAM Electronic Equipment Co., Ltd. has received a 2026 Mexico Technology Award in the Cleaning Equipment category for its SM-6700 In-line PCBA Cleaning Machine. The award was presented during a ceremony held before SMTA Guadalajara 2026 on Wednesday, October 7, 2026, in Guadalajara, Jalisco, Mexico.

“We are honored to receive this Mexico Technology Award for the SM-6700,” said Frank Xu, Director of Product Strategy at Shenzhen SAM Electronic Equipment representative. “This recognition reflects our commitment to developing automated cleaning equipment that combines thorough cleaning performance, precise process control, efficient production and practical maintenance features. We are pleased to bring these capabilities to manufacturers seeking reliable and consistent PCBA cleaning solutions.”

Designed to address the cleaning requirements of electronic industry products, the SM-6700 is a fully automatic in-line cleaning system engineered to remove flux residues, impurities, dust and inorganic contaminants from PCBA surfaces. The system combines high-pressure spray cleaning with multiple rinsing stages, air-knife water removal and hot-air drying to deliver a high standard of cleanliness while supporting efficient, repeatable production.



The SM-6700 incorporates an 11-stage process consisting of three cleaning stages, chemical isolation, three rinsing stages, final rinsing, two air-knife cutting stages and hot-air drying. Process parameters can be controlled and adjusted through a touchscreen and precision ball valves to accommodate the cleaning requirements of different products. An SUS304 stainless steel mesh conveyor transports products through the system, with conveyor speed adjustable from 0.1 to 1.5 meters per minute.

The machine's cleaning system uses a high-pressure spray process in which cleaning solution is pumped from the storage tank, pressurized and filtered before being delivered to the product through fan-shaped nozzles. The nozzles feature a 65-degree spray angle and are arranged on the upper and lower spray bars to provide coverage across both sides of the product while eliminating cleaning blind spots. According to SAM's equipment specifications, the spray pattern provides strong wetting, impact and penetration to effectively address contaminants on product surfaces.

A circulating filtration system further supports cleaning consistency by filtering contaminants from the cleaning solution. The SM-6700 employs filtration elements at multiple stages, including 10 µm, 5 µm, 1

µm and 0.1 µm filtration, with filter-life monitoring incorporated into the control program to help operators track usage and schedule maintenance.

Following cleaning, the SM-6700 employs multiple DI-water rinsing stages. The final rinse uses externally supplied DI water, while recovered water is directed back into the rinsing system. The equipment also incorporates air-knife technology to remove residual water from PCBA surfaces. High-pressure turbo blowers direct air through air knives with 0.8 mm openings, and the air-knife angle can be adjusted by ±30 degrees. Recovered liquid is redirected to the appropriate tank, helping improve water utilization and reduce production costs.

The final drying stage uses hot air in an internal circulation configuration. A heating module and precision air filtration system support rapid surface drying, while insulation around the drying tank is designed to reduce energy loss. The system's tanks and primary structural components are constructed from stainless steel, providing durability for continuous industrial operation.

The SM-6700 also incorporates features intended to simplify operation, maintenance and process monitoring. Transparent panels and built-in LED lighting allow operators to observe cleaning and rinsing activity in real time, while digital and mechanical pressure gauges provide process pressure information. Quick-release spray rods and piping facilitate maintenance, and liquid-level sensors automatically initiate DI-water replenishment when levels fall below operating requirements.

Additional protective features include low-liquid-level protection, high-level alarms, emergency-stop buttons at the material infeed and outfeed areas, leak detection and a welded drip tray. An over-temperature protection device helps protect heating elements in the event of abnormal liquid levels. The SM-6700 has a 600 mm conveyor width and can accommodate products up to 550 mm wide × 400 mm long × 60 mm high. SAM's production-efficiency calculation indicates that, at a conveyor speed of 800 mm/min and with three rows of PCBA loaded in parallel, the system can process approximately 660 boards per hour based on a 178 × 75 × 3 mm board size with 40 mm spacing.

The Mexico Technology Awards recognize the most recent technological innovations in Mexico's manufacturing landscape, spotlighting achievements by OEM manufacturing equipment and materials suppliers over the past year. For more information about the awards, please visit www.mexicoems.com/mta-awards.

To learn more about Shenzhen SAM's products, visit www.china-sam.com.

###

About Shenzhen SAM Electronic Equipment Co., Ltd.

Founded in 2005, Shenzhen SAM Electronic Equipment Co., Ltd. is a leading manufacturer of precision cleaning systems for the semiconductor and SMT industries. The company specializes in developing reliable, energy-efficient cleaning equipment for stencils, misprinted PCBs, squeegees, and other production tools. With a strong focus on research, innovation, and environmental responsibility, SAM has earned the trust of customers worldwide through its commitment to quality, performance, and long-term value. For more information, visit www.china-sam.com.