



Three lines. One concept. Maximum flexibility.

TSTRONIC standardizes its
SMT production with ASMPT



The challenge

For more than 30 years, TSTRONIC in Gdansk, Poland, has been manufacturing electronics for international customers with order sizes ranging from prototypes to large production runs. The requirements are correspondingly diverse: small batch sizes entail frequent product changes, while high throughput and process stability are essential for large-volume jobs. On the other hand, quality, traceability and delivery reliability must be guaranteed regardless of lot size and order structure.

As TSTRONIC's production demands grew, the Polish EMS provider looked for ways to expand its capacities without losing flexibility, which is why the company focused on consistent standardization early on and opted for SIPLACE technology already in 2013. Together with JSD Polska, ASMPT's Polish sales and service partner, TSTRONIC built over the years an SMT production facility with three largely identical production lines.



More **efficient use** of existing
production capacities



Cross-line use of programs,
component libraries and feeders



Seamless **traceability of components,**
printed circuit boards, and batches



Shorter setup changeover times
with frequent product changes



**Faster new product
introductions**



"We can standardize our
production across all SMT lines.
The shared use of programs,
component libraries and
feeders simplifies our
production management
while increasing our
scheduling flexibility."

Grzegorz Butora
Head of SMT Department
at TSTRONIC

The solution

The largely standardized configuration of the three SMT lines provides TSTRONIC with a great deal of flexibility in day-to-day production operations by allowing it to shift orders between lines, share programs and component libraries, and deploy feeders on any line. This simplifies the production scheduling, enables the more efficient use of existing capacities, and keeps setup costs low in light of frequent product changes.

The first SMT line combines a DEK Horizon stencil printer and an SPI system with three [SIPLACE SX](#) placement machines with various placement heads, a reflow oven, and two AOI systems. The second line largely features the same configuration with an additional glue dispenser. On the third line, an additional waffle pack changer handles the automatic feeding of odd-shaped components (OSCs).

Product changes are everyday business

Large lots today, small lots or a new product tomorrow — frequent product changes are part of TSTRONIC's everyday business. [WORKS Operations](#) bundles and prioritizes the requirements from all SMT lines and supports the operations staff in executing them quickly and efficiently, while [WORKS Monitoring](#) provides management with a real-time overview of key performance indicators.

The standardization also pays off during changeovers. Feeders loaded with components can be reused on other lines, production programs can be created quickly, and new products can be introduced expeditiously. In addition, the automated verification of supplied materials helps to avoid errors before the actual production begins.

Uncompromising on quality and delivery reliability

Flexibility alone is not enough. To ensure quality and delivery reliability, TSTRONIC needs stable and repeatable processes, which is why the company depends on the stability and predictable performance of ASMPT assembly platforms. All three SMT lines are integrated into its ERP system, while the integrated sensor technologies in the SIPLACE SX



About TSTRONIC

Headquarters in Gdansk, [TSTRONIC](#) is one of Poland's leading EMS providers with more than 30 years of experience in electronics manufacturing. Its services range from SMT and THT assembly for prototypes and large lots to coating processes and mechanical assembly. TSTRONIC offers flexible manufacturing solutions for international customers with high demands on quality, process stability and delivery reliability.

placement machines and X-ray, SPI and 3D AOI systems ensure quality in real time. Each component, each circuit board and each lot can be traced seamlessly to deliver the process reliability that is essential in everyday production operations.

The success story

By running three standardized SMT lines, TSTRONIC has expanded its capacities and created space for additional projects. Today, the company produces more efficiently, introduces new products more quickly, and can manufacture even highly complex products economically and on time. The high precision of the SIPLACE SX placement machines forms the foundation for the high quality standards of TSTRONIC.

Since progress never stops, TSTRONIC plans as a next step to upgrade to the new [DEK TQL](#) printer in order to further advance its level of automation and performance. With JSD Polska, the company has a partner at its side that provides solid support in everyday production operations with technical expertise, quick response times, and physical proximity.

ASMPT

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