

TELESTE



High quality along the line

Integrated solution delivers more manufacturing flexibility

The challenge

As a leader in broadband, security and information technology, Teleste manufactures products that are highly critical in terms of safety and user success. Accordingly, delivery reliability and a consistently high level of quality are among the standards that Teleste sets throughout the industry. The increasing need for flexibility in the company's high-mix/low-volume production, especially in the area of solder paste printing, proved to be a key challenge, with the goals being to automate quality assurance and offset correction, reduce the scrap rate, and maximize overall uptime.



“Since upgrading to the latest technology from ASMPT, our production runs faster, more effectively, and more transparently. We raised our output while reducing the number of manual assists.”

Aki Enberg
SMT Process Developer at Teleste

25
percent

increase in overall uptime

95
percent

less scrap on average

3
minutes

for a product change-over with the same setup

172
thousand

components per hour maximum throughput

The solution

Teleste was able to significantly increase its output and reduce manual assists with a fully networked and highly integrated hardware and software solution from ASMPT. The company uses [SIPLACE X S](#) high-speed placement machines for its assembly and the [DEK TQ](#) printing platform for its solder paste printing operations. The subsequent inspections are handled by the [Process Lens](#) SPI system.

Seamless M2M communication

To automatically make corrections, the printer and the SPI system are in direct communication via standardized interfaces. The Process Lens SPI system controls the printing results instantly and communicates with the DEK TQ printing platform. Thanks to high-resolution semiconductor-based micromirrors and combined 2D and 3D imaging, the system operates extremely quickly even for very fine structures and delivers significantly fewer false calls than conventional SPI systems. The system's extremely high scanning quality does not affect its speed.

On top of all these benefits, the [WORKS Optimization](#) application minimizes the setup changeover times with its offline printer programming feature. And the SIPLACE X S high-speed machines, which can place up to 172,000 components per hour thanks to their robust heads and intelligent feeders, guarantee maximum line throughput during the subsequent assembly process.

Holistic electronic production

With its intelligent factory concept, ASMPT emphasizes the integrative collection, processing and use of data across multiple lines. The market and technology leader covers almost the entire SMT production with its portfolio, which allows it to optimally coordinate its hardware and software. This integrative strategy is equally successful at Teleste, which focuses on flexibility, high throughput and speedy product changeovers while delivering consistently excellent quality. ASMPT achieves these optimization goals with highly flexible solutions that seamlessly and automatically interact with each other during the manufacturing process.



Ilkka Ylönen, SMT Development Manager at Teleste (r.)
and Aki Enberg, SMT Process Developer at Teleste (l.)

Teleste - the company

Headquartered in Turku, Finnish electronics developer and manufacturer Teleste offers an integrated portfolio of products and services for a more connected society. The company's innovative solutions deliver state-of-the-art television and broadband services, ensure safety in public spaces, and serve as guidance and control systems in public transit applications. With a combination of long-term industry experience and a constant drive for innovation, Teleste has established itself as an international leader in the areas of broadband, security and information technologies and related services. The company provides individualized customer support through a global network of offices and partners. In 2023, Teleste generated sales of 151.3 million euros with roughly 800 employees.

The success story

ASMPT's equipment has led to a significant increase in efficiency in Teleste's daily operations. The company's average scrap rate in particular has declined drastically from over 1 percent to roughly 0.05 percent. Teleste was also able to triple the speed of complete setup changeovers and increase the overall run time of its line by 25 percent. Results like these are primarily due to the reliability of the hardware from ASMPT and the reduction of line downtimes caused by flaws in the placement process.

ASMPT

ASMPT GmbH & Co. KG

Rupert-Mayer-Strasse 48 | 81379 Munich | Germany | Phone: +49 89 20800-22000 | Email: smt-solutions.de@asmpt.com

asmpt.com | smt.asmpt.com

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