ASMPT enabling the digital world

WORKS Optimization

Data-driven optimization and quality assurance across the entire SMT line



WORKS Optimization provides end-to-end visibility and continuous process improvement across the SMT line. By collecting, correlating and analyzing process, quality and production data from ASMPT and third-party equipment, the solution identifies optimization opportunities, accelerates root-cause analysis and provides actionable recommendations for continuous process improvement. The result is more stable manufacturing processes, less scrap and rework, and higher productivity at lower costs.

Integrative quality assurance application

Pre-production process validation
Analyze product and process data before production starts to identify manufacturing risks, optimize process settings and improve production readiness.

Accelerated product introduction
Determine robust process settings with minimal trial-and-error and reduce the time required to achieve stable production results.

End-to-end process visibility
Connect process, quality and production data across the SMT line to provide complete manufacturing transparency.

Root-cause analysis
Correlate data across multiple SMT process steps to quickly identify defect sources and hidden process interactions.

AI-assisted engineering support
Leverage contextual recommendations and guided troubleshooting to support faster and more consistent engineering decisions.

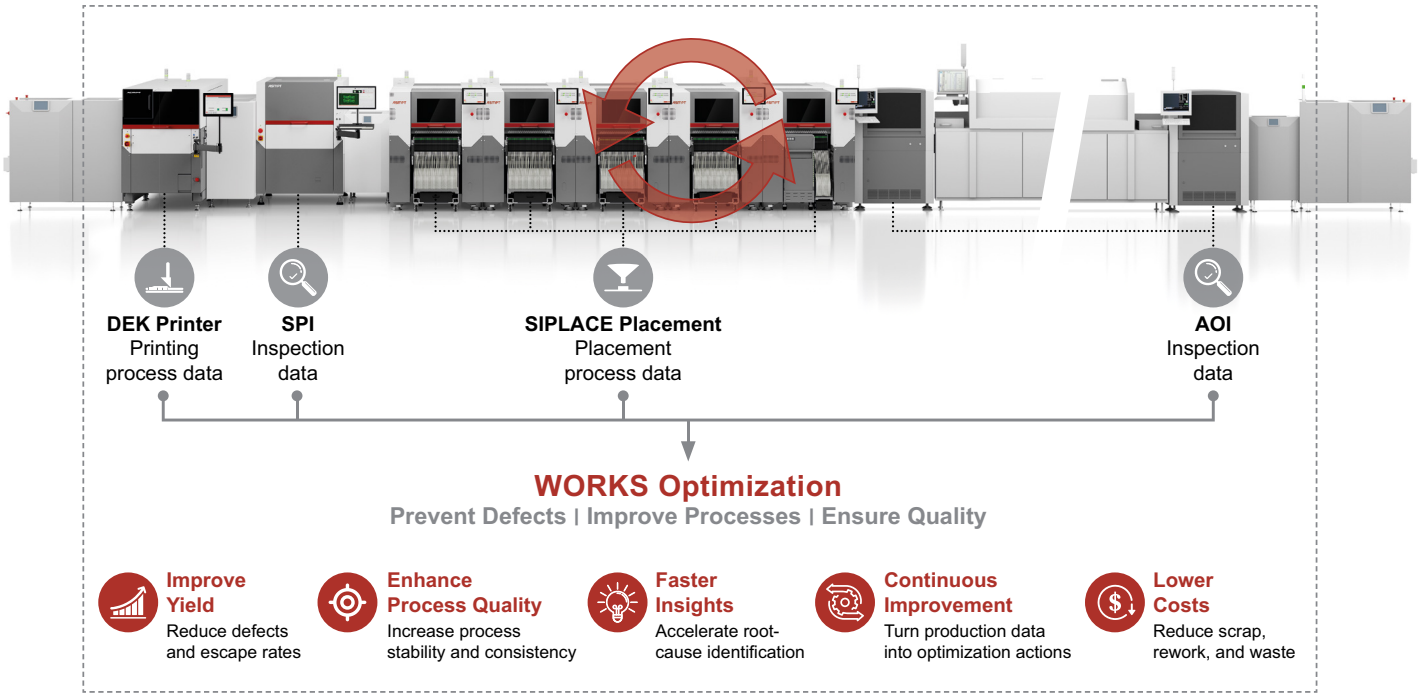
Data-driven optimization recommendations
Prioritize improvement actions based on their expected impact on quality, productivity and process performance.

Continuous process optimization
Continuously monitor manufacturing performance and drive sustainable improvements in quality, yield and process stability.

Open manufacturing integration
Integrate ASMPT and third-party SPI, AOI and manufacturing equipment through the standardized IPC-2591 CFX interface, enabling seamless data exchange across the SMT line.

From data to action:
Continuous optimization across the SMT line

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Your benefits at a glance

- Faster product introductions and ramp-ups
- Reduced process engineering effort
- Faster root-cause identification and troubleshooting
- Improved first-pass yield
- Reduced scrap and rework
- Increased process stability
- Higher productivity and equipment performance
- Better manufacturing transparency across the SMT line
- Better utilization of engineering expertise
- Seamless third-party equipment integration
- Preservation and scaling of process know-how
- Foundation for future automation

More about
WORKS Optimization

ASMPT

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