

SMT Analytics

Throughput analysis and optimization – with expert know-how



SMT Analytics analyzes the SMT process in depth by detecting and localizing issues down to the specific placement area. Otherwise, such issues often remain unnoticed in the system and can lead to efficiency and performance reductions, for example due to lost build time, material or cycle time. The innovative software supports employees in analyzing the causes, identifies performance impacts and highlights optimization potentials to increase the overall production efficiency.

To provide an expanded optimization analysis, SMT Analytics automatically collects all relevant production and process data, and stores, correlates and visualizes it. To provide a full overview of the SMT production lines and a comprehensive understanding of the processes involved, SMT Analytics presents a combination of historical-, real-time-, and reference data at a glance.

This automated analysis relieves employees of routine tasks and prevents excess costs by reducing the production time and effort. It analyzes material losses and problems so that critical deadlines can be met more easily and with less stress. SMT Analytics allows electronics manufacturers to get the most from their existing ASMPT equipment by maximizing its performance and efficiency.

Automated analysis and optimization of the SMT production line



Optimization based on experience

As a technology and market leader in the field of SMT production, ASMPT has contributed its entire expertise to the development of this application.



User-friendly and practice-oriented

The software provides expert know-how on desktop and mobile devices¹ with analytical dashboards that show only what is actually relevant for increasing the line's efficiency.



Multivendor Capability¹

The software is able to connect to third-party equipment to give the complete overview over the production processes.



Comprehensive performance comparisons

Comparisons of real-time data with historical values and reference data pinpoint the sources of problems and highlight their impact on the production.



Detailed and at a glance

While SMT Analytics analyzes the SMT process in detail, it also provides line-level and facility-level benchmarking options that address all roles ranging from process engineers to operators and factory management.



Like an experienced colleague

Thanks to the process-related optimization knowledge contained in SMT Analytics that is presented in a standardized format, even newcomers become productive right away and make the right decisions.

¹ Coming soon

SMT Analytics answers questions for five use cases to analyze time, material and condition:

Rate Efficiency Analysis (Time Analysis)

Why do I not meet the target even though the line is in a productive state and there is no obvious error?

Reject Analysis (Material Analysis)

What is the main cause of my reject loss?

Recipe Time Analysis (Time Analysis)

How will a change in my SIPLACE Pro settings affect the line's cycle time?

Error Analysis (Condition Analysis)

How do my errors influence my uptime?

Operational Analysis (Condition Analysis)¹

Why is my line not productive, and how high is the performance availability loss?

Licencing model

SMT Analytics is a subscription-based product. Licenses are allocated based on the number of machines in use.

ESSENTIAL package ²	
Use case: Rate Efficiency Analysis	✓
Use case: Reject Analysis	✓
Use case: Recipe Time Analysis	✓
Use case: Error Analysis	✓
Use case: Operational Analysis ¹	✓
Machine license scale	10, 20, 50 or 100
Users	Unlimited

Plus and Ultimate packages will be coming soon with additional use cases, enhancements and multivendor capability.

Your benefits at a glance

- Expert know-how from the technology and market leader
- Practice-oriented use cases and dashboards
- Analyses on placement, machine, line and facility level
- Localization of problem causes
- Integrative evaluation model
- Improvement of existing equipment
- Identification even of difficult-to-locate shortfalls
- Consideration of historical, real-time and reference data
- Ensuring deadline compliance
- Reduction of production costs

¹ Coming 2025. ² Essential package only for SIPLACE placement machines.

ASMPT

More about
SMT Analytics



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