

Case study:

MICROSTOPS DETECTION IN TOBACCO FACTORIES

Accevo Monitoring System was selected as a global performance solution for over 600 lines and 2500 machines in over 30 factories worldwide. The system allows real-time monitoring and analysis of production data, enabling proactive maintenance and optimization of manufacturing processes.

Challenges:

- Production characterised as a high-speed volume of 10 thousand pieces per minute
- Microstops have significant influence on production results
- SKU and changeover Times must be monitored and minimized
- Diverse machine park, different technologies, machines, suppliers, and models

Requirements :

- Solution for real-time data collection, fast and consistent analysis, supporting Integrated Work System
- Ability to automatically identify causes for microstops >5secs
- Ability to identify parts needed for production and replace unended parts
- Integration with the local MES

Solutions:

1 Automated data gathering and key algorithmics

- Communication with more than 100 machine types (2k machines)
- Algorithmics creation for root-cause and drill-down line performance
- Roll-out for ca. 30 factories

2 Advanced data driven applications

- Additional applications:
 - Defect Handling,
 - Quality Control
 - Energy Monitoring
 - Centerline
- Data Aggregation in the Cloud
- KPIs standardisation / benchmarking

3 Next generation models

- Extension for Next Generation Tobacco Products:
 - Modern Oral
 - THP
- AI/ML Algorithmics for Autonomous Maintenance

Customer benefits:

20%

Overall equipment effectiveness

115%

Mean time between failures

14%

Microstops reduction

80%

Saving time for reporting and analysis

Ease in **identifying most common causes** of performance problems

6mth

Return of Investment (ROI)