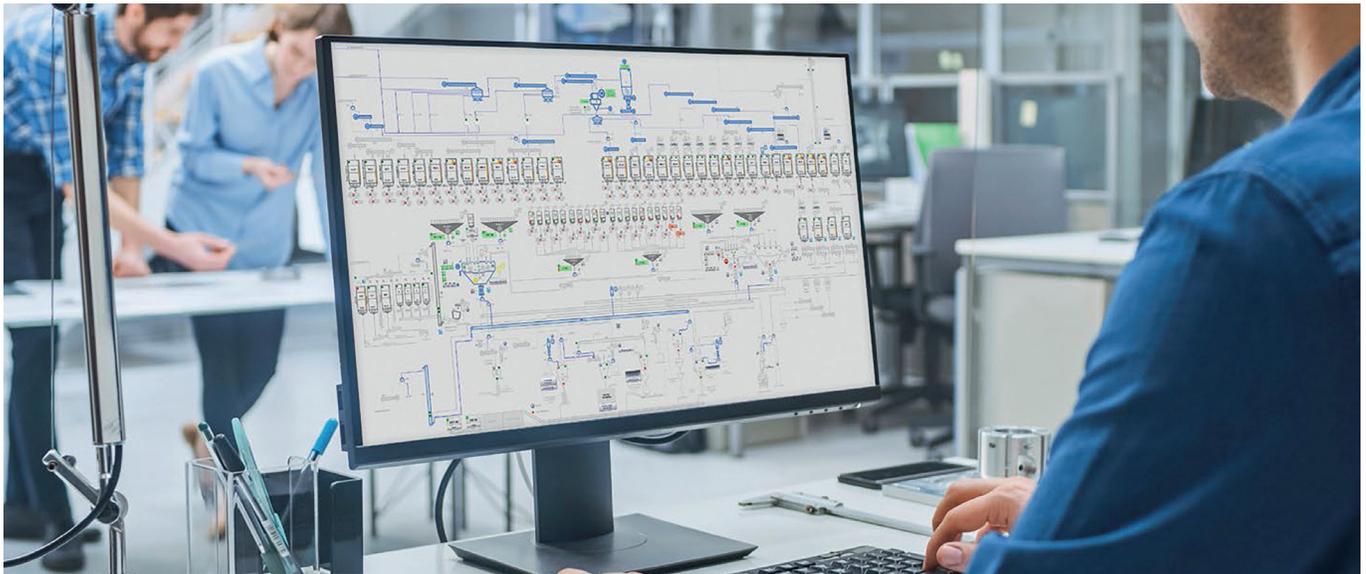


LIFE 2 IMPROVE – PERFORMANCE OPTIMIZATION BOOK YOUR PERFORMANCE COACH

CASE STUDY

Cost Savings by Optimization of Use and Dosing of Auxiliaries on Paper and Board Machines



Solution approach

The entire production process is monitored by a GAW Performance Coach during operation. Based on existing records (from databases, ERP systems, etc.) and experienced operating personnel, current/historical data are analyzed. This results in:

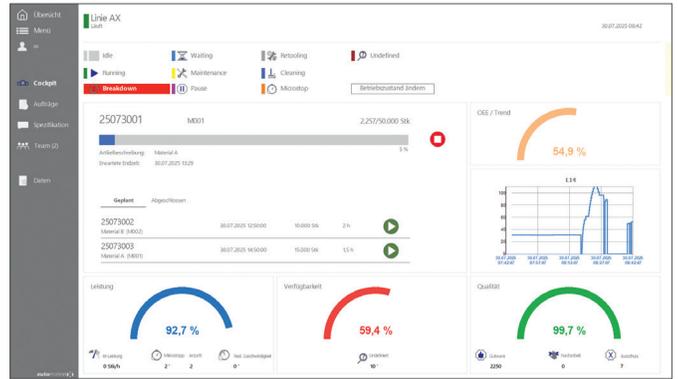
- Establishing benchmarks for ongoing operations, changeovers, product variations
- Target/actual comparison and identification of deviations

Basic tasks

- ① Review and verify the dimensioning and design of pumps, piping, etc., using a computational model.
- ② Identify control fluctuations and pulsations, and pinpoint their causes.
- ③ Isolate malfunctions in the system or system components.
- ④ Determine responses to shutdowns, failures, and other process changes.

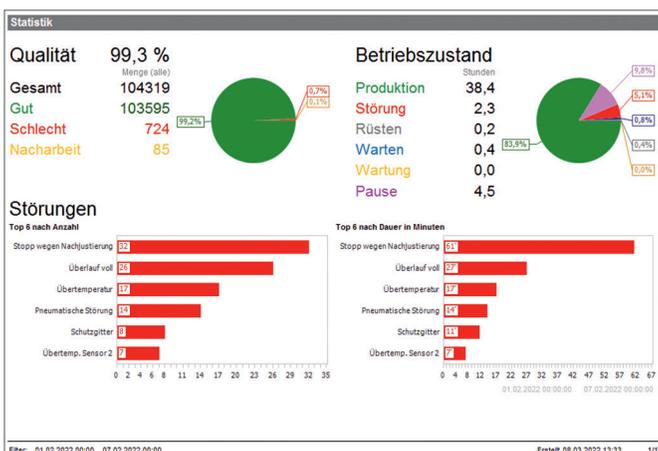
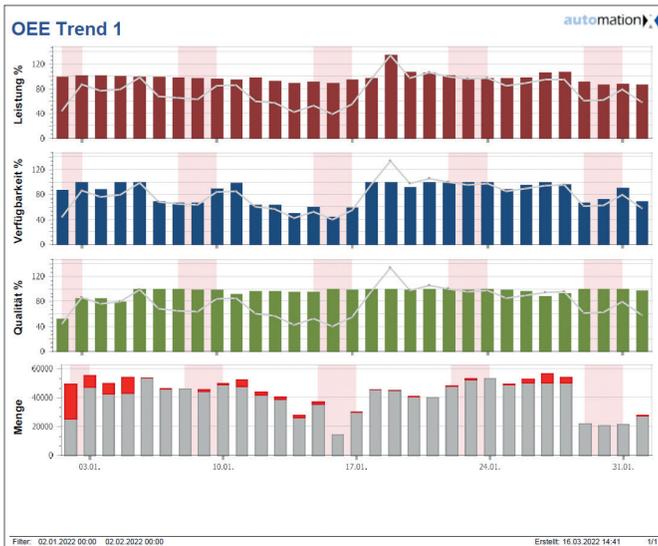
Key tasks

- 1 Revise the control concept
- 2 Optimize changeover times
- 3 Create and utilize a digital twin
- 4 Reduce workload through fully automated operation
- 5 Provide staff training where necessary
- 6 Develop an OEE



Results

- ✓ Stable operation, less wear and tear
- ✓ Reduces downtime, increased runtime
- ✓ Increased transparency and traceability
- ✓ Optimized consumption per production unit
- ✓ Fully automated operation, reduced personnel requirements
- ✓ ROI less than 1 year
- ✓ SAVINGS of 7-8%



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