

Selmo

MAHLE
Filtersysteme
Austria GmbH

Optimization of an existing
plant through a retrofit with
Selmo.

About MAHLE

MAHLE is a leading international development partner and supplier to the automotive industry as well as a pioneer and technology driver for the mobility of the future.

Based on a broad systems competence consisting of Engine Systems and Components, Filtration, and Thermal Management, the group's product portfolio addresses all the crucial issues relating to the powertrain and air conditioning technology. Thanks to its expertise in electric and electronic components and systems, MAHLE can thus also offer integrated system solutions for e-mobility.



MAHLE commissioned Selmo to modernize an End-of-Line-Tester for the quality control of a production line. The goal was to maintain the existing machine and replace the complex and vulnerable control system. The process flow was optimized by commissioning the new control system and the cycle time improved.

The Results

01

The process of the machine becomes visible

02

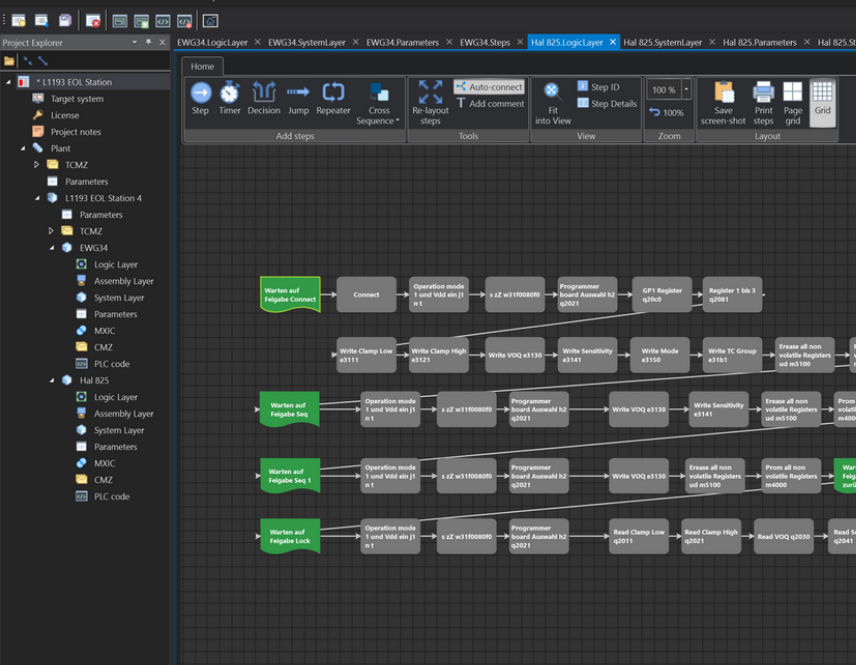
Control and monitoring are ensured

03

Improvement of cycle times

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Brief Description Project

- Analysis of the process flow.
- Analysis of status quo.
- Modeling of the process flow in Selmo Studio.
- Creation of the drivers according to the requirements of the machine.
- Implementation of the revised process model in the control system.
- Commissioning and optimization of the machine.
- HMI is used to control and diagnose the station.
- Test data acquisition and storage in the MAHLE network.

Facts

- 1 Plant
- 1 Hardware zone
- 2 Sequences
- 196 Zones
- 6 CMZ
- 192 Steps
- 249 Parameter
- 32 Assemblies

The End-of-Line-Tester was an outdated system that urgently needed to be modernized. The system was programmed on a proprietary software environment with which only specific experts were familiar. The biggest challenge here was a required change in the software and communication of the sensor technology. This conversion could not be carried out because the people responsible were no longer available. Contracts with third parties failed.

Selmo rethought the process and automated the inspection station. The software environment was migrated to an open and standardized platform. The sensor technology was equipped with modern interfaces and integrated into the Selmo system. Due to the successful commissioning of the End-of-Line-Tester, another testing station was modernized with Selmo.