

Driving quality forward

How MAHLE modernised its quality control processes with a future-proof solution

MAHLE

**CUSTOMER
SUCCESS STORY**



Customer challenge

MAHLE is a global leader in automotive development and a pioneer in mobility technology, with products featured in every second vehicle worldwide. Its global operations span 160 production sites, 12 R&D centres, and a workforce of over 71,000.

In its South African operations, MAHLE relied on an outdated, decentralised line-side quality control system. This legacy environment was difficult to maintain, dependent on external technical support and proprietary code, and lacked the scalability needed for future growth.

The solution

First Digital from First Technology Group partnered with MAHLE to design and implement a modern .NET-based quality control system that replaced the legacy environment line-by-line without disrupting operations.

The new solution centralised configuration, auditing, and reporting, simplified label creation without developer input, removed reliance on bespoke hardware, and supported multiple languages and character sets.

The result was a scalable, maintainable, and future-proof platform tailored to MAHLE's production environment.



The results

- **Streamlined quality assurance:** Centralised control improved consistency and auditability.
- **Simplified operations:** Quality Assurance teams now manage the system directly.
- **Reduced technical debt:** Eliminated reliance on external expertise and proprietary code.
- **Future-Ready infrastructure:** Scalable platform ready for evolving production needs.