material.one

The potential of digitized initial sampling

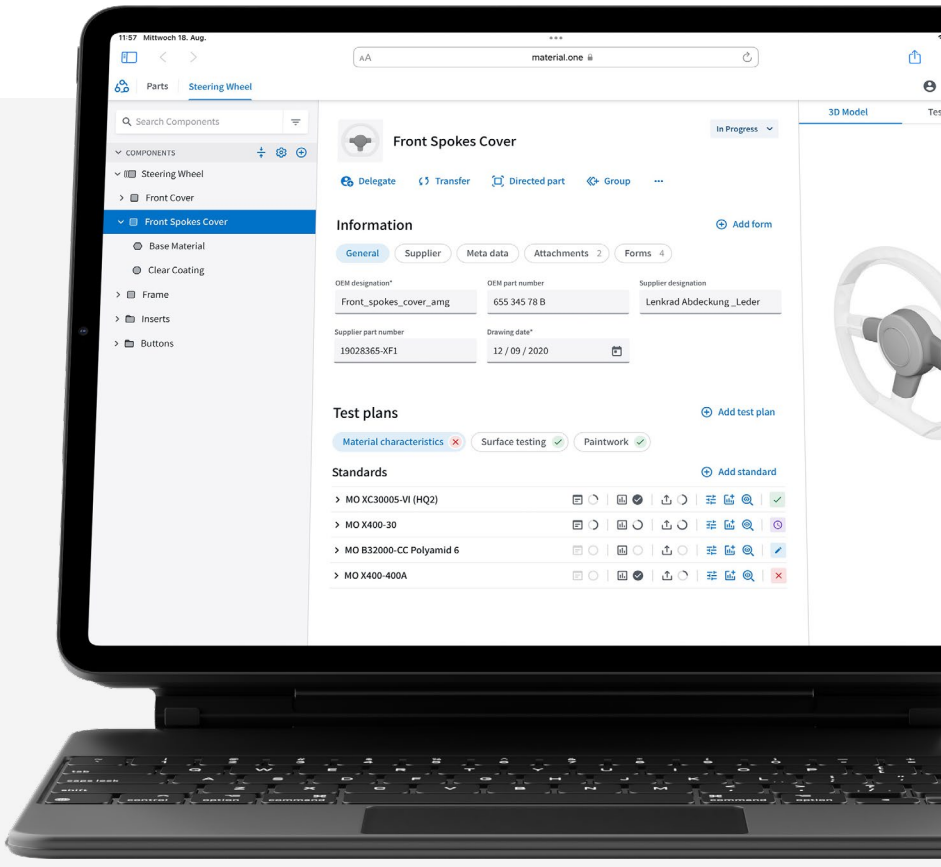
Self-driving cars and intelligent voice assistants impressively demonstrate the revolutionary advancements which are made possible through modern technologies. Digitalization has made its way into many aspects of our lives. Now, initial sampling is undergoing a similar transformation.

Today, when someone buys a new car they place great importance on the build quality and safety of the vehicle. Automotive manufacturers aim to satisfy these needs while remaining competitive. This is a challenging task considering that over three-quarters of a vehicle comes from global supply chains and is not produced by the manufacturer itself. To ensure the quality of products, every part of the vehicle undergoes an initial sampling procedure to assess its suitability for mass production. For the development of new components this translates into additional time and coordination effort throughout the supply chain.

As a „Digital Assistant“ material.one accompanies manufacturers, suppliers, and laboratories seamlessly through the process. This ensures that all necessary data is available, correct, and that the initial sampling process takes place efficiently and transparently. Over the past two years material.one has proven the potential of digital sampling through several pilot projects with leading automotive manufacturers, suppliers, and laboratories. However, this goes beyond the approval of components. The resulting data pool allows companies to optimize their requirements for materials and products thus ensuring long-term quality.

On our platform, we bring together manufacturers, suppliers, and laboratories to complete component initial sampling with less effort and more benefit.

BERND LÖHLE
MANAGING DIRECTOR



How material.one simplifies initial sampling

material.one digitalizes the initial sampling process throughout the entire supply chain—from laboratories to manufacturers. The platform enables suppliers to communicate directly with their sub-suppliers and laboratories. Sub-suppliers can be prompted to provide test results and material information. Due to the standardized formats of test plans and forms, there is no need to adjust them before analysis or processing. The benefits of an intelligent platform become particularly evident in the selection of suitable laboratories for extensive test plans. Instead of manually comparing all offered procedures and their certification with the requirements of the test plan, material.one automatically suggests a list of suitable laboratories to be selected from.

The digital test plans are transmitted directly to the laboratories upon commissioning and filled with test results on the platform. Direct entry of this sensitive information is more secure, tamper-proof, and traceable. Manufacturers and suppliers assessing these test results additionally benefit from automated pre-evaluation including an indication as to whether all specifications have been met. For OEMs, material.one offers customized digitization of their in-house manufacturing standards and the certification of testing laboratories.

Are you a manufacturer, supplier, or laboratory interested in material.one? Ask us for access to a free trial!

- Collaborative digital order processing
- Automated generation of draft inspection plans
- Inspection plans filled out electronically from labs
- 3D-Models of parts
- Automated RFQ of suitable labs and test facilities
- Improved tamper-proofing of inspection data
- Digitization of manufacturers' standards
- Porting of existing inspection results
- Automated deadline management/ transparency

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