

SIM – Smart Inspection & Monitoring

The holistic, digital DMT testing concept for more safety and planning in the operation of alternately loaded machines and plants.

Authorised. Reliable. Future-proof.



Our DMT experts give advice and help you comply with your regulatory requirements through SIM, while measurably extending service life. **Reduce costs and unplanned downtime. Optimise planned maintenance measures, plant operating modes, production times and extend inspection intervals.** For example, with SIM we were able to extend an inspection interval from 3 to 6 years for Deutsche Gasrußwerke GmbH in Dortmund. The effects on business efficiency are immediately visible – decisive side effects include longer plant service life, better OTD rates (On Time Delivery) and sustainable success on the path to operational excellence.

SIM combines fracture mechanical damage tolerance analyses, predicted component ageing and residual life reserves, online monitoring and regulatory approval aspects through intelligent analysis and evaluation, monitoring and inspection.

And now the good news: SIM is not only more cost-effective than unplanned downtime, but also in line with the German Ordinance on Industrial Safety and Health (BetrSiv), here in particular with the offered option of extending the inspection period, provided that safety is ensured by other means.

In the meantime, online monitoring with the help of sensor technology is also firmly anchored, e.g. in the **bulletins and standards such as 451 (VdTÜV) and 501 (VGB)**. With our advice and measurement technology, you can keep your operation running smoothly and according to plan. And you can meet your **obligation to provide evidence of operational safety**. At the same time, you obtain reliable conclusions about the condition of the plant – **the basis for optimised maintenance and predictable, plannable operation.**

SIM: The S stands for smart evaluation. Evaluation of system conditions, digital twin incl. calculation of permissible inspection intervals, as well as precise forecasts depending on the future driving style. **The I for Inspection stands for finding.** This means, for example, crack detection and measurement with qualified ultrasonic testing methods in recurring non-destructive tests. **The M is Monitoring and stands for measurement.** DMT's monitoring experts offer continuous component monitoring. They record conditions and reliably detect deviations and trends.

Your advantage: We take horror out of the high complexity in the interaction of your requirements, given regulations and laws, as well as the integration of targeted SIM measures. We put together the right package of advice, measurement technology and service life evaluations based on your needs.

Enough of the details! On one hand, you obtain **regulatory operational safety** and, at the same time, the SIM measures pay directly into **profitability**: SIM allows shorter downtimes, optimised start-up and shutdown controls, longer inspection intervals as well as solid proof of integrity. This ultimately reduces the overall costs of your plants. **Make measurable use of the service life potential of your plants for longer – with certainty!**

