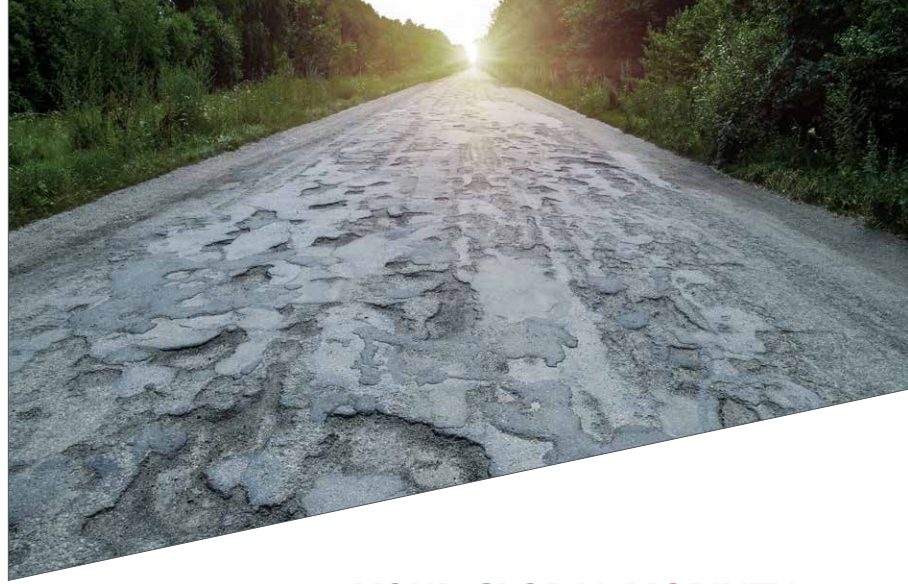


FATIGUE STRENGTH

SERVOHYDRAULIC TESTS

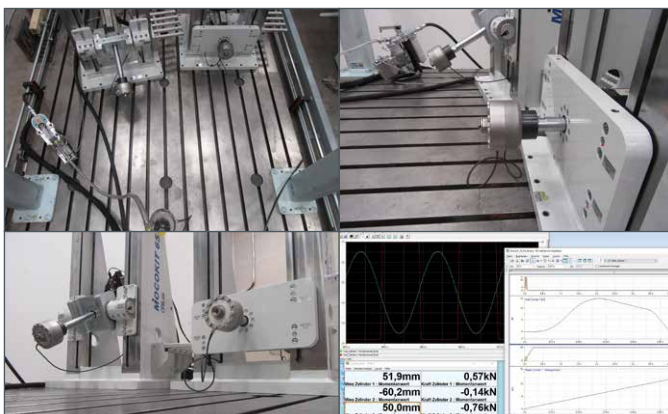


YOUR GLOBAL MOBILITY ENGINEERING EXPERTS

Nowadays, lightweight construction is used in many areas, for example to reduce fuel consumption by lowering weight, to increase the payload or make optimum use of the material used in terms of resource efficiency. For this purpose, the dimensioning of components is not permanent, but only operationally.

The fatigue strength provides information about the service life of components under static and dynamic loads, considering the environmental conditions.

At EDAG we provide experimental proof of the calculated service life with our own servo-hydraulic test fields. With cylinders of different performance classes, we can carry out uniaxial and multi-axial stress and fatigue tests. We create customized test setups, in order to apply the loads to the test objects realistically and according to your specifications.



Unsure An overview of our services

- Abuse, rigidity and strength tests on universal test benches with multi-axial, servo-hydraulic testing technology (test forces up to 63kN per cylinder)
- Execution of static and dynamic component tests as function or endurance tests
- Planning, execution, evaluation of fatigue strength analyzes (e.g. on aggregate and chassis components)
- Preconditioning of the test object, environmental simulation during the test
- Damage analysis and component optimization
- Simulation and validation with virtual methods (MKS, FEM, CFD)

We have the right test facility for almost everything

In our test laboratories, which are accredited according to DIN EN ISO/IEC 17025:2018, we carry out operational fatigue tests using the latest servo-hydraulic test fields.

Our test locations:

Wolfsburg, Fulda, Ingolstadt, Böblingen, Munich, Puebla (Mexico)

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