

# Machinery Dynamics and Acoustics Lifecycle Management

**Sulzer Innotec**

The fatigue limit of components is an area in which even today experiments play the major role. On the one hand, computational methods are not always reliable enough for critical components. On the other hand, large size structures with many welds, bolted connections and contact surfaces subject to friction, can overstretch the capabilities of even the most modern and powerful simulation tools.

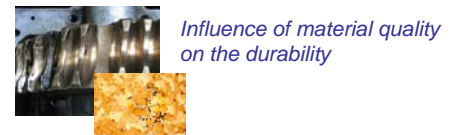
**What we offer**

- Consulting by experts
- Selection of test load cases in close cooperation with the customer
- Integrated approach
- Conception and set-up of a representative tests
- Modern laboratory
- State-of-the-art equipment
- Efficient statistical evaluation of test data



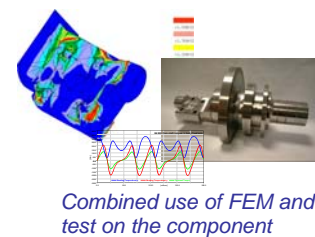
**Customer benefits**

- Safety proofs for components and structures
- Indications of weak points
- Quantitative knowledge of safety margins
- Endurance testing
- Assurance of functionality and reliability



**Examples**

- Welding of a rotor disc with cells
- Engine mounting of ICN-propulsion unit
- Cross head axle of a rapier weaving machine
- Bogie Lok 2000



**Sulzer Innotec has many years experience in the area of structural mechanics and fatigue. Our structural laboratory is one of the biggest among similar test facilities in Switzerland. You benefit from our know-how and have access to the newest solutions.**

**Our specialists will be pleased to advice you further.**