

Machinery dynamics and Acoustics
Safety and Reliability of Structures and Components

Sulzer Innotec

Today no one can afford the failure of a safety relevant component or structure. Human injuries in the domains of passenger transportation, medical technology or power generation can lead to incalculable consequences due to claims. Defects in components can cause production downtimes and sensitive losses of revenues or forfeits. Sulzer Innotec offers tests, analysis and consulting for such components and structures.

What we offer

- Analysis of operating states and loads
- Design of a representative test sample
- Set-up of a laboratory test
- Any multidimensional loading tests, also under controlled environmental conditions
- Experimental and numerical stress analysis
- Recommendations, cost-benefit analysis for various surface treatments
- Statistical evaluation using durability hypothesis of different specimens
- Discrete troubleshooting, if the first damage has already occurred
- Technical supervision / expertise for conflicting parties involved in legal dispute



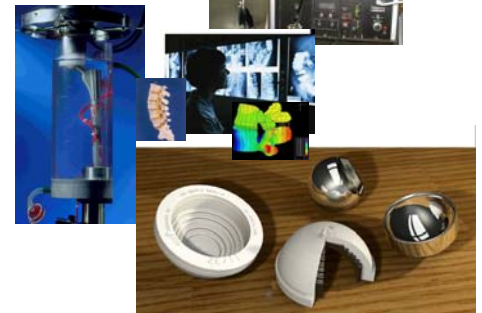
Power plant Schwarze Pumpe



Operational loads on ICN

Customer benefits

- Experimental and analytical proof of safety for components and structures
- Detection of weak points
- Evaluation of safety margins
- Knowledge of life cycle
- Reduced risk of failure
- Independent expertise



Component development for biomedical applications

Examples

- Engine mount of ICN
- Passenger cabs
- Safety parts of passenger lifts
- Bucket wheel for food industry
- Hip joints
- Pumps



Operational safety on offshore platform

Sulzer Innotec has many years experience in the area of structural mechanics and materials. 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.