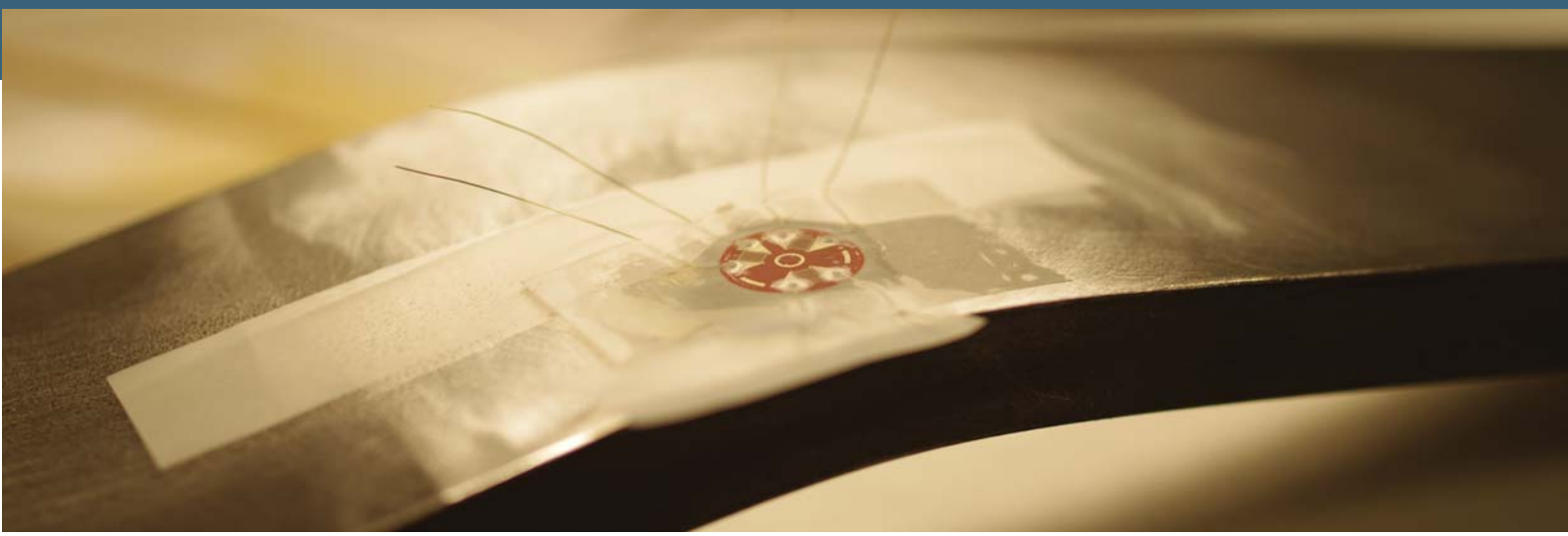
DANISH TECHNOLOGICAL INSTITUTE



STRAIN GAUGES

Measurement of strain and stress in constructions under load

Strain gauges are used for determining loads in all kinds of constructions and materials.

Strain gauges are small sensors that are attached to the surface of a construction. If the construction is exposed to eg. tension, compression or torsion it is possible, to measure the exact stresses and strains on the costruction where the strain gauges are located.

Strain gauge measurements are ideal for verfication of structural calculations and determination of critical points.

If there are defects in a construction, it is important to document the location and extent of the defects. For this purpose strain gauge measurements are very suitable, because accurate measurements on exact points of the construction are possible.

Centre for Materials Testing has the capacity to perform strain gauge measurements in many different, customer specific configurations. Measurements are performed either on site or in our large test facility.

It is possible to perform complex tests with over 20 simultaneous measurements. All equipment, both software and hardware, is state of the art and meets customer requirements for precision.

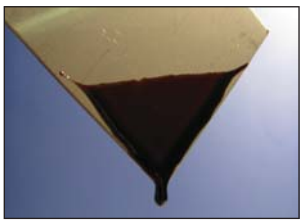
Strain gauges are applied for measuring:

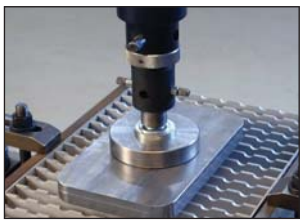
- Tension (strain)
- Residual stress
- Natural frequency
- Crack propagation
- Surface temperature
- Long-term behaviour

Centre for Materials Testing is a competence centre for metallurgical work, mechanical testing and surface technological development.

Our expertise and facilities provide a unique platform for customer tailored solutions.

We have confidential customer relations and service a growing clientele with independent inspection, consultancy and technological development.





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