Tensile and fatigue test

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Your product should have the strength to withstand a little bit of everything. Each day it will be pressed, worn, pulled and raised by many different loads and under various different conditions.

Although the product looks good, seems to work perfectly and has managed to endure your own tests, it may be difficult to predict how the product will react when your customers use it in practice. Perhaps your product is of vital importance to your customers, for example if it is used in a production process. Thus, it is even more important that the product can cope under everyday wear and tear.

You can be certain of this by having a tensile and fatigue test performed by FORCE Technology. We measure and pressure test your product so you can get clarity on whether it is sufficiently robust to withstand in the long run. You will also find out ahead of time, whether it is necessary to modify the product design before the product is launched.

At FORCE Technology you can have your product measured over several parameters: Pulling and pressure (constant and variable load), tensile strength, impact resistance and mechanical strength. The test may include components, sub-component, materials or entire products. Prior to the test you will be given advice from our experts regarding the optimal testing process, test setups and selection of methods.

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SPECIFICATIONS
FORCE Technology’s tensile and fatigue test can be performed in a laboratory or on-site, where the product is located. Strain gauges (strain gauge resistors) are installed in-house on test objects and measuring equipment.

Fatigue
10 N to 50 kN
Temp -100 °C to +350 °C
Frequencies up to 30Hz

Tensile & Compression
0.1 N to 100 kN
Temp -100 °C to +350 °C

MORE INFORMATION
FORCE Technology can help you with a wide range of other types of environmental tests. We offer guidance and specialist knowledge throughout all phases, before, during and after testing, including during the concept and design development phase, as well as in connection with troubleshooting on existing products.

Contact us to find out more: tel. +45 43 25 14 50.
STRATEGIC ADVANTAGES
With a tensile and fatigue test, you will gain a number of strategic advantages:

- Possibility to adjust the design prior to launch
- Lower risk of having many complaints and repair costs
- Clear documentation for CE marking or other types of approval of your product.

INDUSTRIES

- Consumer electronics
- Industrial electronics
- Medical device and welfare
- Military and aerospace
- Marine and offshore
- Machinery and production equipment
- Technical audiology
- IT and telecom
- Automotive and transportation
- Wind and energy

FACTS

Hørsholm
Nordborg

DIN 50125, ISO 6892, EN 10002, DIN50100, DIN50125 and DIN50145 or according to your specifications
SIMILAR SERVICES
FORCE Technology offers a wide range of other test services, please see below. In addition, we can offer a customised solution where we perform tests across several parameters within a single process, according to your needs. Contact us to find out more: +45 43 25 14 50.

ACCELERATED EMC TEST
ACCELERATED ROBUSTNESS TEST
ACCELERATED RELIABILITY TEST

ACCELERATED EMC TEST
ACCELERATED ROBUSTNESS TEST
ACCELERATED RELIABILITY TEST

ACCELERATED CLIMATIC TEST
ACCREDITED MECHANICAL TEST
ACCREDITED INGRESS PROTECTION (IP)

ACCREDITED CLIMATIC TEST
ACCREDITED MECHANICAL TEST
ACCREDITED INGRESS PROTECTION (IP)

WIRELESS APPROVAL AND PERFORMANCE TEST
ACCREDITED PACKAGING TEST
TENSILE AND FATIGUE TEST

ACCREDITED CALIBRATION OF HUMIDITY SENSORS
ACCREDITED MECHANICAL TEST
ADVICE ABOUT PRODUCT APPROVALS

ACCREDITED CLIMATIC TEST
ACCREDITED EMC TEST
ADVICE ABOUT PRODUCT APPROVALS

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