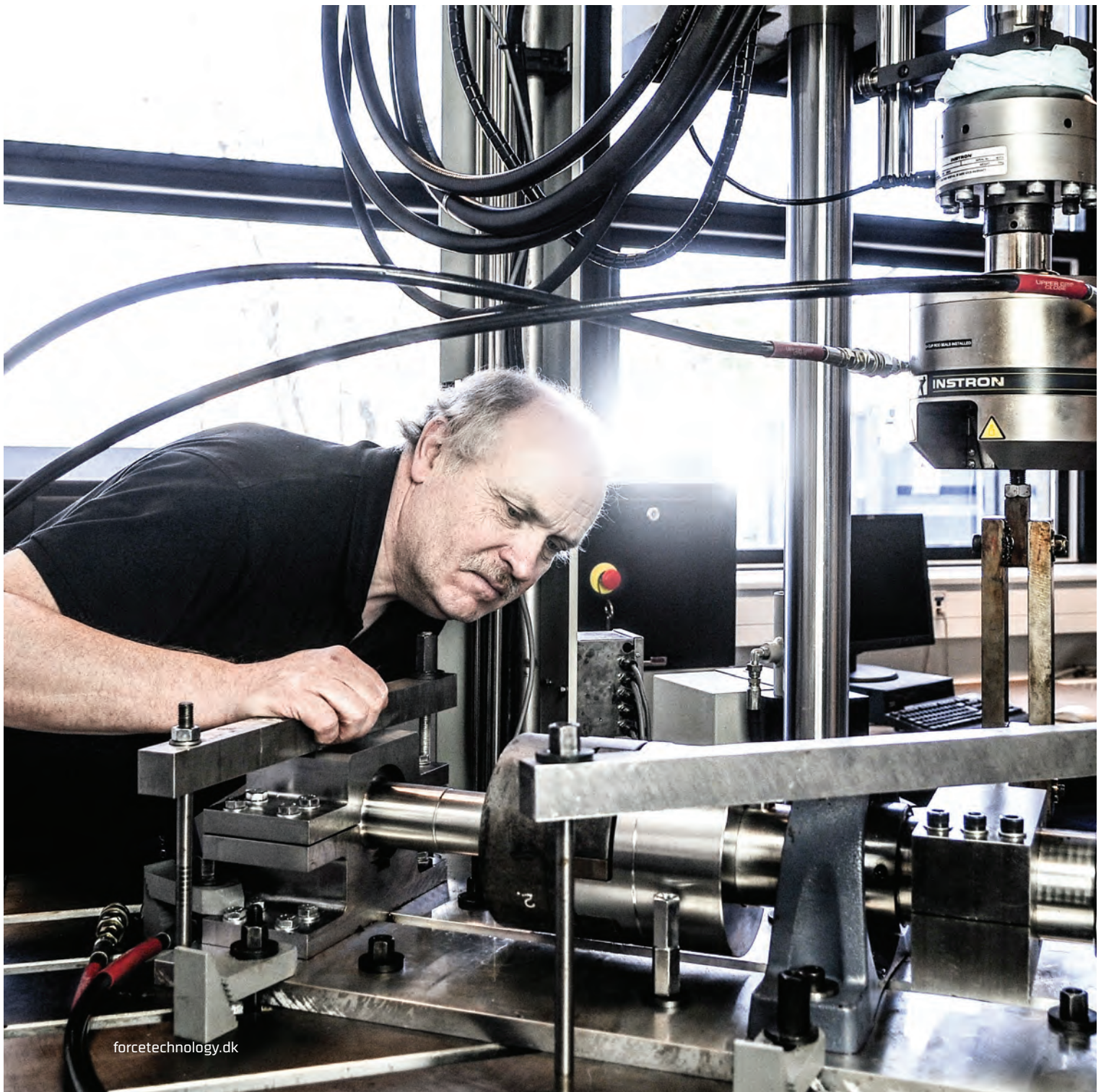


## Tensile and fatigue test

Ensure that your product is sufficiently robust to withstand daily wear and tear with a tensile and fatigue test.



# Tensile and fatigue test

Ensure that your product is sufficiently robust to withstand daily wear and tear with a tensile and fatigue test.

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.

» We have benefited greatly from the close dialogue with FORCE Technology. It is a great advantage for us to be able to bounce ideas off FORCE Technology's experts regarding test setups and choice of methods, as well as being able to glean from their experience, especially in designing comprehensive tests which consist of many setups.

– Jens Pawlik, Technology Expert, Danfoss RAC

The FORCE Technology test documents the quality of your product during normal use. In addition to preventing complaints and risks of faults and breakdowns, the tests can also be used as recognised documentation for approval purposes - e.g. CE marking.

FORCE Technology carry out tensile and fatigue testing, and has advanced testing facilities for this purpose. We have some of the industry's most experienced and knowledgeable testing

experts who focus on that you end up with a complete and successful result.

By collaborating with FORCE Technology for your tensile and fatigue testing you will get:

- Tests which are methodologically correct
- Testing conducted according to the standards that are relevant to your industry
- Expert advice on whether any adjustments are needed to the test procedure or product design
- Access to the great knowledge about standards, via FORCE Technology's active participation in standardisation working groups
- The possibility to expand the testing to include other parameters

## 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 gauges 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.

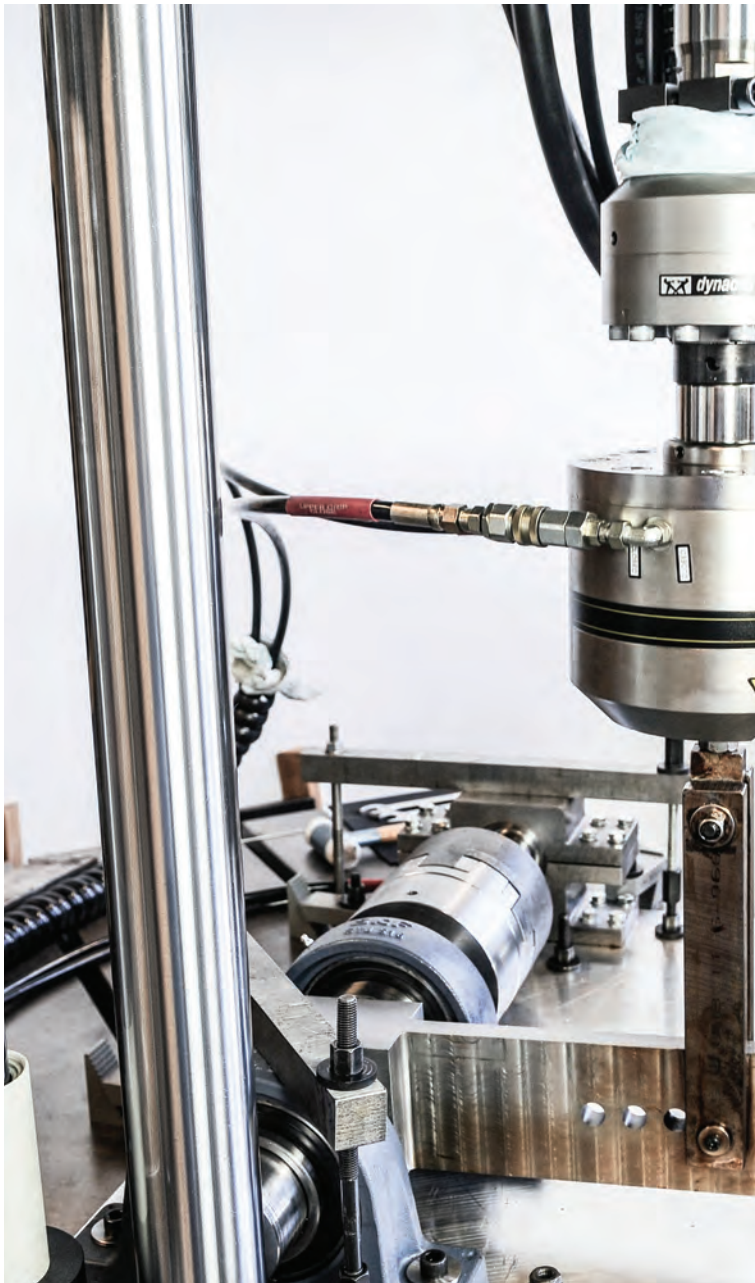
Contact us to find out more: tel. +45 43 25 14 50.



### 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

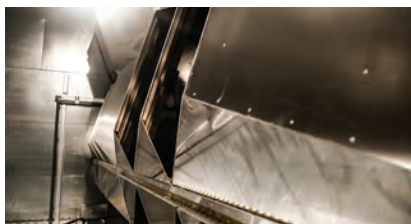
### FACTS

 Hørsholm  
Nordborg

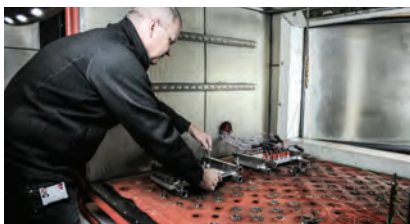
 DIN 50125, ISO 6892, EN 10002, DIN50100, DIN50125 and DIN50145 or according to your specifications

## SIMILAR SERVICES

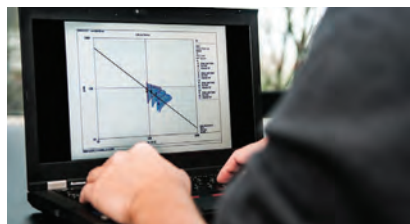
FORCE Technology offers a wide range of other test services, please see below. In addition, we can offer a customised solution where we perform tests across several parameters within a single process, according to your needs. Contact us to find out more: +45 43 25 14 50.



ACCELERATED EMC TEST



ACCELERATED ROBUSTNESS TEST



ACCELERATED RELIABILITY TEST



ACCREDITED CALIBRATION OF HUMIDITY SENSORS



ACCREDITED MECHANICAL TEST



ACCREDITED INGRESS PROTECTION (IP)



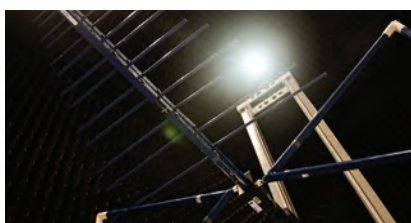
ACCREDITED CLIMATIC TEST



ACCREDITED EMC TEST



ADVICE ABOUT PRODUCT APPROVALS



WIRELESS APPROVAL AND PERFORMANCE TEST



ACCREDITED PACKAGING TEST



TENSILE AND FATIGUE TEST



GUIDANCE ABOUT MARKET ACCESS FOR MEDICAL DEVICES



EMC PRE-TEST: DO-IT-YOURSELF



ELECTRICAL SAFETY TEST

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