

Accredited mechanical test

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Before your company launches a new product, it is important to ensure that it is designed to be functional and reliable during daily use in the real world. The product must possess the necessary properties such as e.g. hardness, impact resistance, elasticity, fracture resistance and agility.

It is possible to test the product's mechanical reliability in a effective manner prior to launch. For that purpose, FORCE Technology offers your business the service of performing an accredited mechanical test, where you can get materials, components, or complete products tested under different loads. For example, we can check material strength, and the strength of assemblies, in order to assess whether the product has the necessary quality, and will not become deformed or defective over time.

With an accredited mechanical test at FORCE Technology, you can test your product for both constant and variable loads, and across many various parameters, e.g. sinusoidal vibration, random vibration, sine on random, shock, free fall, bump, drop topple and stability, bouncing, static loading, compression, bending, and combined vibration and temperature.

FORCE Technology's mechanical tests provide you with the documentation which shows that your product can withstand the conditions that it will be exposed to during normal use. Thus, you can prevent faults and operational problems caused by mechanical failure.

FORCE Technology is accredited to perform mechanical tests, and has advanced testing facilities for this purpose. We have some of the industry's most experienced and knowledgeable testing experts who want to help you reach your goal with a complete and successful result.

By choosing FORCE Technology as your test partner, you will get:

- Accredited third-party test
- Tests which are methodologically correct
- Testing conducted according to the standards that are relevant to your market

- Expert advice on whether any adjustments are needed to the test procedure
- Access to extensive knowledge about standards, via FORCE Technology's active participation in standardisation working groups
- The possibility to expand the test to include other parameters.

SPECIFICATIONS

Ling vibrator

Frequency range: 1-2000 Hz
Effect: 31 kN (sine peak), 33 kN (random rms)
Acceleration: 90 g (sine peak), 75 g (random rms)
Velocity sine peak: 1.8 m/s
Displacement: ± 25.4 mm / 1"

Long stroke vibrator

Frequency range: 1-2000 Hz
Effect: 35.6 kN
Acceleration: 112 g (sine peak), 100 g (random rms)
Velocity sine peak: 1.8 m/s
Displacement: ± 37.1 mm / 1.5"

Shock test

Half sine shock max. acceleration: 4000 g
Max. rate equivalent to: 1000 ms x g

MORE INFORMATION

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

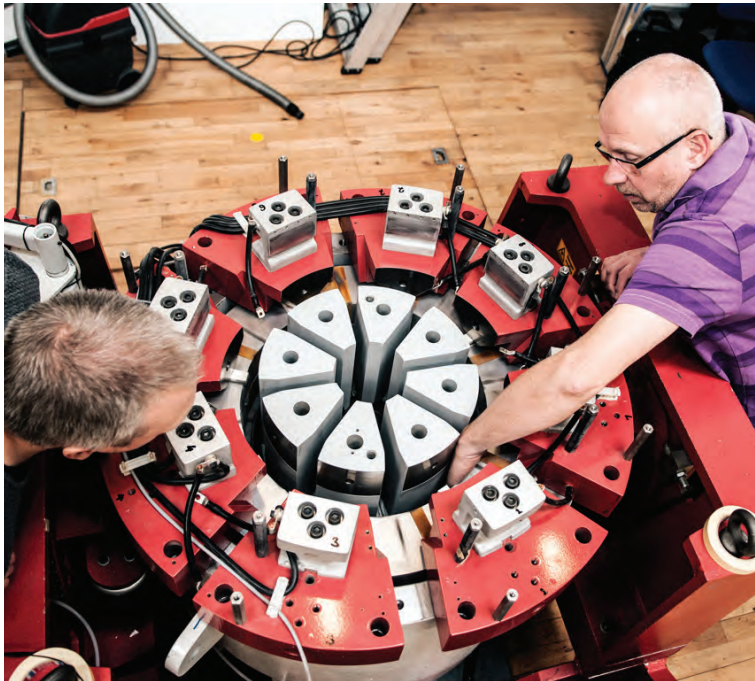
Contact us to find out more: tel. +45 43 25 14 50.



STRATEGIC ADVANTAGES

With an accredited mechanical test, you will achieve a number of strategic advantages:

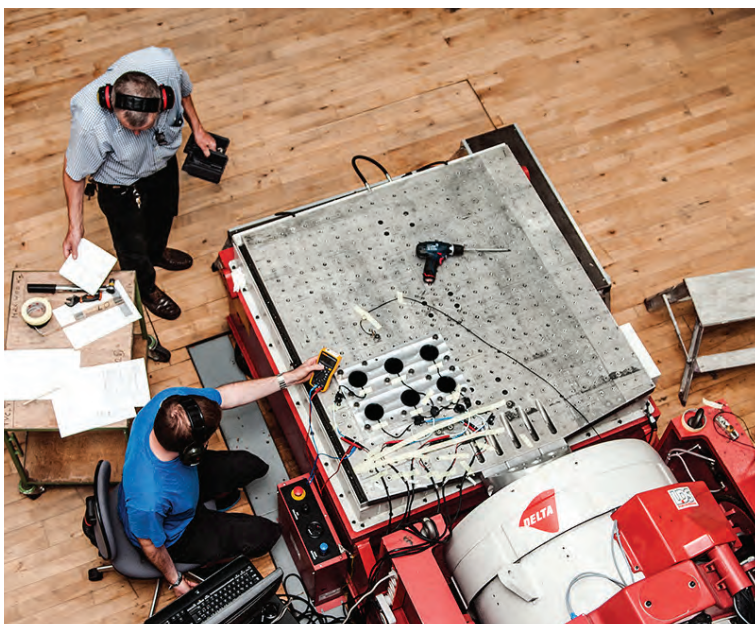
- Possibility to adjust the design prior to launch
- Lower risk of product complaints and repair costs
- Clear documentation for CE marking or other types of approval of your product.




INDUSTRIES


FORCE Technology offers mechanical tests and other environmental tests of mechanical, electronic, and electro-mechanical products. We have special expertise within the following industries:

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



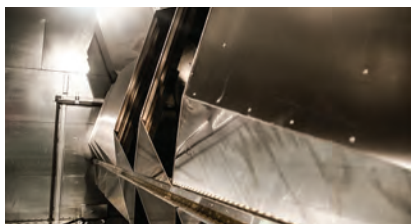
FACTS

 Hørsholm
Nordborg

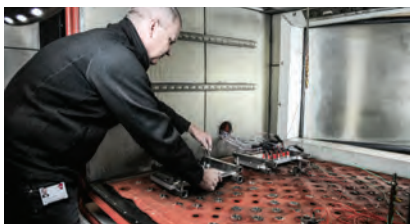
 Typically tested in accordance with IEC60068-2-6, IEC60068-2-27, IEC60068-2-64 or according to your specifications.

SIMILAR SERVICES

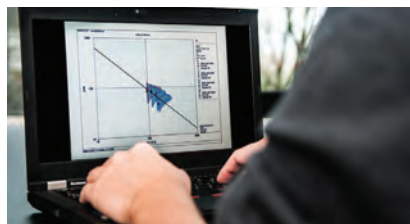
FORCE Technology offers a wide range of other test services, please see below. In addition, we can offer a customised solution where we perform tests across several parameters within a single process, according to your needs. Contact us to find out more: +45 43 25 14 50.



ACCELERATED EMC TEST



ACCELERATED ROBUSTNESS TEST



ACCELERATED RELIABILITY TEST



ACCREDITED CALIBRATION OF HUMIDITY SENSORS



ACCREDITED MECHANICAL TEST



ACCREDITED INGRESS PROTECTION (IP)



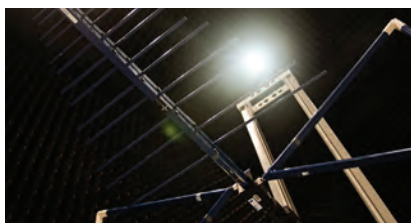
ACCREDITED CLIMATIC TEST



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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