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 an 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.
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

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.

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

ACCELERATED CALIBRATION OF HUMIDITY SENSORS
ACCELERATED MECHANICAL TEST
ACCELERATED 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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