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Vibration testing is conducted to all kind of products to know the strength of the product. It is conducted to how the product will sustain the stress it gets during the real environment. Whenever a product is introduced into the market two kinds of test are mandatorily done. One is vibration testing and the other is environmental testing.

For example if a automobile may it be a truck of car is introduced in the market that particular model goes through extensive vibration testing and environmental testing to know how it will cope up with different terrain.

These kind of tests are conducted on the products to know about the durability of a product. These kind of tests will make sure that the product is of top quality when it hits the market and environmental testing on a product is very much essential to know whether the product will pollute much and it will not harm the environment.

All the testing methods have their own set of rules to follow. Only by following these rules we can get the right result of the tests. When you take this vibration testing there are two methods one is called low frequency vibration testing and high frequency vibration testing. In a low frequency vibration testing hydraulic forces are used to get the test results whereas with high frequency vibration testing electro dynamic forces are employed. These forces create sound waves that will create vibration and through this vibration we will be able to get the results.

There is also a special kind of equipments called shaker equipment to conduct this kind of tests. The high end shaker equipment can generate more than forty thousand force pounds at a time, but the equipment that produces around ninety to hundred force pounds are very much enough for this kind of testing.

Another important factor with vibration testing is to have proper measurements of the product before the test. The measurements should accurate and to get the accurate measurements people use a tool called accelerometers. It is a very small toll but it calculates the measurements using the electrical reading, so this makes sure the reading is accurate. When the product is put through the vibration testing the minute changes in the measurement is recorded by this instrument and it makes to have an accurate test result.

Finally one should remember that these tools and machinery should be handled with utmost care to have an accurate result, when mishandled the tools and machinery can be damaged the result of test will be awfully wrong.

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DATASYST Engineering & Testing Services, Inc provides ample information about a vibration testing and a environmental testing in their website. They also have details on exact methods to

perform this kind of testing.

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