DT

SPEKTRA
Ready for TESTelligence!

# DT | Device Testing

Edition 10-2018


Outstanding

**international performance**

SPEKTRA Representatives

## Who are we?

**SPEKTRA Schwingungstechnik und Akustik GmbH Dresden**, Germany was launched in 1994 by employees of the former state-owned company VEB Robotron Messelektronik Dresden, department of sound, vibration and force measurement. Up to 1989, this company was one of the leading manufacturers of measurement instrumentation for sound and vibration engineering worldwide. Based on decades of experience in the field of „electrical measurement of mechanical quantities", SPEKTRA has developed into a stable, mid-sized enterprise in the field of sound and vibration engineering. Advanced technologies and innovative ideas of our employees make SPEKTRA your premium partner for the development of measuring and testing systems as well as mechanical exciter for various applications.

# Piezoelectrical Excitation

## Features

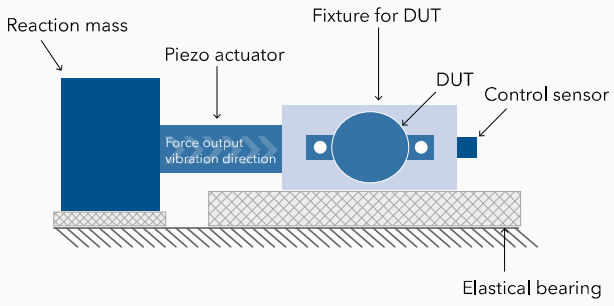
PATENT PENDING

- High Frequency excitation of big & heavy DUT (e.g. sensor cluster with gyroscopes)
- Cube from technical ceramics with piezo-electric drive
- Low weight and high stiffness lead to high resonance frequency
- Vibration vs. temperature test in thermal chamber possible

The Piezocube is a very special exciter. There is no electromagnetic drive, as is typical for most exciter. A piezo actuator is used to introduce a vibration into a cube. Nearly any vibration profile can be generated in your device under test using this technology, including very high frequencies. Its special design allows you to introduce vibrations at different attachment points of your device under test, which easily facilitates a controlled modal analysis, e.g. of a control unit in the automotive industry.

## Piezoelectrical Exciter

| Model | PC - 01 | PC - X |
|---|---|---|
| Illustration |  |  |
| Degrees of freedom | Single Axis | Multi Axis |
| Frequency | 5 kHz ... 40 kHz | 5 kHz ... 40 kHz |




## Spotlight

The **Piezocube** is not driven by an electromagnetic drive. A piezo actuator moves a reaction mass with respect to the device under test. As a result we can introduce vibrations in a very high frequency range.