



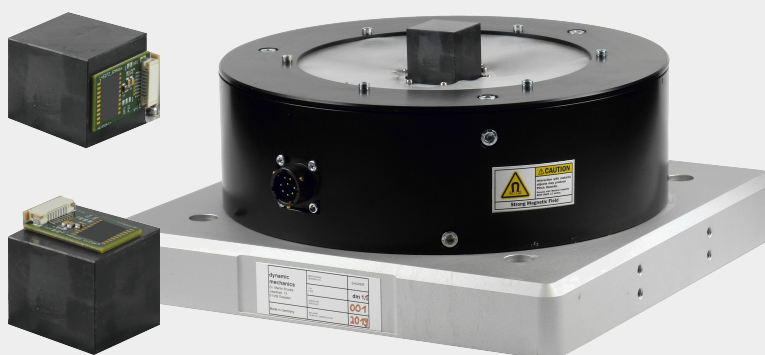
## dm1.1 high frequency vibration exciter

### Application

dm1.1 is specially designed for broadband vibration MEMS testing in an extended temperature range. The armature design allows in plane and out of plane vibration excitation up to 60 kHz. Due to the special chosen components the vibration exciter can operate in a climatic chamber from -40 °C up to 120 °C (-40 °F to 248 °F). A special designed flexure bearing system combines the performance and the robustness needed for high class testing.

### Features

- Broadband in plane / out of plane MEMS vibration testing
- Extended operation temperature
- High acceleration ratings
- Lowest cross motion



### Technical Data

- Frequency range: 5 Hz – 60 kHz, First axial armature resonance > 62 kHz
- Armature design for DUT mounting: cube 28 mm x 28 mm x 28 mm
- Operation temperature: -40 °C up to 120 °C (-40 °F to 248 °F)
- Force rating: max. 75 N / 45 N (with / without cooling)
- Maximum acceleration: 500 m/s<sup>2</sup> pk / 300 m/s<sup>2</sup> pk (with / without cooling)
- Maximum usable stroke: 8 mm (pk-pk)
- Cross motion: 5 % typical, isolated peaks up to 10 %
- Internal reference standard (IEPE, 1 mV/m/s<sup>2</sup>), flat frequency response 5 Hz - 60 kHz
- Magnetic stray field: 5 mT at DUT position

dm1.1  
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## Remarks

- Height: 125 mm
- Weight: 12 kg

- Technical data achieved with 800 W Power Amplifier (BEAK BAA800)

