Air Bearing Calibration Vibration Exciter
Model CAL25AB

Features:

- Air bearing design
- Calibration bandwidth of 3 Hz to 15 kHz
- Provides improved transverse performance over traditional flexural based exciters
- Lightweight Magnesium (Mg) armature and removable aluminum (Al) test instrument mounting fixture (TIMF)
- Automatic payload re-centering (pneumatic)
- User-replaceable reference accelerometer, not built-in to the armature
- 100 mV/g IEPE internal reference accelerometer
- Internal reference features extremely low sensitivity to thermal drift
- Capable of resonance frequency search of device under test (DUT) to 18 kHz (max.)
- Max. force output: 25 lbs
- Capable of 18 g RMS max acceleration level.
- Max device under test (DUT) weight/payload: <910 gm
- Armature axial resonance of 19 kHz ±5%
- Complies with ISO 16063-21, Clauses 4.3 & 4.4
- Transverse motion meets ISO 16063-21
- Transducer mount: Female 10-32 thread (1/4-28 opt.)
- Maximum stroke between stops: 13 mm pk-pk
- Continuous stroke for calibration 10 mm pk-pk max.
- Air supply: 6 bar, 150 l/m; 90 psi, 5 CFM
- Dimensional specifications:
  - CAL25AB Diameter: 74 mm
  - Exciter: 190 mm dia. X 170 mm H
  - Weight: 16 kg

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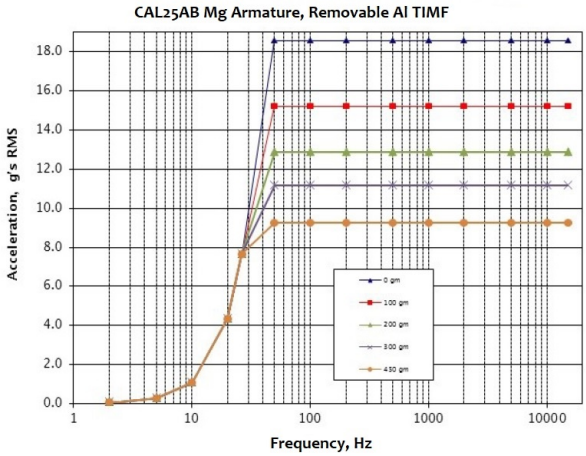

Applications:

- Calibrates accelerometers and vibration sensors weighing <910 grams and with <70 mm diameters
- Available from MB Dynamics as a stand-alone product, or as part of a full automated calibration test system
- Sensor manufacturing quality assurance testing
- In-laboratory R&D instrumentation verifications

Other MB Calibration Vibration Exciters:

- CAL50, 1" stroke, operating to 10 kHz
- CAL110, 1.5" stroke, 110 lbf, operating to 10 kHz
- CAL12AB, operating to 15 kHz with lower rated force output
- CAL25HF, high frequency, operating to 20 kHz

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