

MINIATURE, MODAL, DUAL PURPOSE SHAKERS

VIBRATION TEST SHAKER FAMILY

- Through-Hole Armature Modal Shakers
- Lightweight and Compact for Ease-of-Use
- Complete Systems Include Shaker, Amplifier, and Accessories
- Mini, Modal, Dual Purpose, and Inertial Shaker Options
- SmartShaker™ with Integrated Amplifier

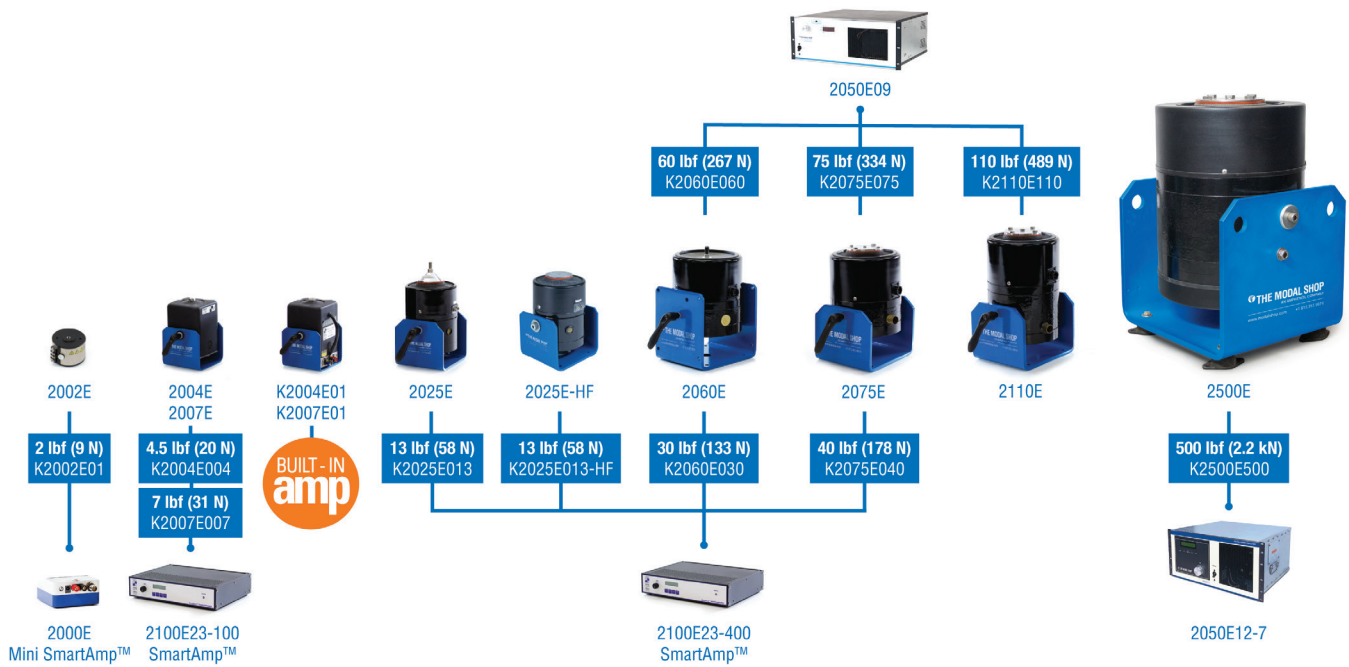
TYPICAL APPLICATIONS

- Experimental Modal Analysis
- General Vibration Testing
- Environmental Testing
- Laboratory Research
- Product Reliability Testing

VIBRATION TESTING SHAKER SYSTEM SOLUTIONS

The Modal Shop's electrodynamic exciter family includes small permanent magnet shakers rated from 500 lbf (2.2 kN) down to 2 lbf (9 N). Available designs include the revolutionary SmartShaker™ with integrated power amplifier, a variety of mini, through-hole modal, dual purpose platform and accelerometer calibration shakers, along with power amplifiers, and test accessories. These transducers are ideal for applications ranging from experimental modal analysis and general vibration testing of small components and sub-assemblies to vibration sensor testing and calibration.

The following selection guide on the reverse provides an overview of the basic shaker specifications. A simple graphical representation of shaker systems paired with appropriate power amplifiers indicates the corresponding system force ratings. Kit model numbers simplify the selection and ordering process, insuring that all the necessary shaker, amplifier, stingers, cooling blowers (if needed), and accessories are included. Visit our website for more information about each shaker.



| SPECIFICATIONS | | | | | | | |
|----------------|--------------|----------------------|-----------------------------------|----------------------|-----------------|-------------------------------|--|
| Shaker Model | Kit Model | Max Force lbf (N) pk | Max Frequency ^[1] (Hz) | Stroke in (mm) pk-pk | Amplifier Model | Type | Applications |
| 2002E | K2002E01 | 2 (9) | 3 000 | N/A | 2000E | Inertial | Modal analysis, general vibration, small structures [circuit boards, small devices] |
| 2004E | K2004E004 | 4.5 (20) | 11 000 | 0.2 (5) | 2100E23-100 | Mini | |
| 2004E | K2004E01 | 4.5 (20) | 11 000 | 0.2 (5) | Integrated | Mini | |
| 2007E | K2007E007 | 7 (31) | 9 000 | 0.5 (13) | 2100E23-100 | Mini | |
| 2007E | K2007E01 | 7 (31) | 9 000 | 0.5 (13) | Integrated | Mini | |
| 2025E-HF | K2025E013-HF | 13 (58) | 20 000 | 0.5 (13) | 2100E23-400 | Calibration Vibration Test | General vibration testing, calibration of vibration sensors |
| 2025E | K2025E013 | 13 (58) | 10 000 | 0.7 (18) | 2100E23-400 | Modal | Modal testing of small to large structures [sub-components, automotive, aerospace] |
| 2060E | K2060E030 | 30 (133) | 6 000 | 1.4 (36) | 2100E23-400 | Modal | |
| 2060E | K2060E060 | 60 (267) | 6 000 | 1.4 (36) | 2050E09 | Modal | |
| 2075E | K2075E040 | 40 (178) | 6 500 | 1.0 (25) | 2100E23-400 | Modal Vibration Test | Dual purpose design, modal testing of small to large structures, general vibration testing |
| 2075E | K2075E075 | 75 (334) | 6 500 | 1.0 (25) | 2050E09 | Modal Vibration Test | |
| 2110E | K2110E110 | 110 (489) | 6 500 | 1.0 (25) | 2050E09 - FS | Modal Vibration Test | |
| 2500E | K2500E500 | 500 (2 224) | 4 500 | 1.0 (25) | 2050E12-7 | Vibration Test | General vibration testing, small to medium test articles [electronics, optical devices, satellite sub-components] |

[1] Load dependent * Cooling system not pictured and amplifiers not in scale