

### MAX.FREQUENCY 10,000Hz / MAX.EXCITATION FORCE 1,000N SUITABLE FOR MODAL EXCITATION

The VE-M series exciter is a wideband exciter. The excitation force range is 100-1,000 N and the frequency range is DC-10,000 Hz with low vibration and high stress. They are ideal for modal excitation because they are stable and reliable.

A modal test determines the structural characteristics of a product, including its frequency, damping ratio, and vibration pattern. The goal is to provide a reference for analyzing, diagnosing, and predicting system faults and optimizing the system's dynamic structural characteristics.

The ECON modal test system includes a small shaker, force hammer, data acquisition and analyzer, modal software, sensor, and power amplifier. The test system is affordable and portable.



#### Features-Exciter

- Wide frequency band, small body, large vibration force and strong stiffness;
- The length of the excitation rod can be adjusted through the through-hole moving coil, and the clamping position can be adjusted, which is convenient to connect with the test piece;
- With electronic zero adjustment, the axial stiffness is adjustable, almost no additional stiffness is added to the test parts;
- Stroke length up to 25.4mm, suitable for structures tests with various stiffness and requiring suspension shakers at low

#### Features-Modal test system

- Modal testing to support shaker or forced-hammer excitation;
- Based on multiple data acquisition and analyzer platforms, suitable for various modal test occasions;
- Rich trigger functions and various adjustable window functions make the acquired data more convenient and accurate;
- Integrated sinusoidal sweep, white noise, trigger random and other signal sources to provide convenience for shaker excitation;
- Generality of test data, support Modal Genius, ME' Scope and other Modal analysis software.

#### System Diagram



Exciter

#### Application

Measurement of dynamic response of structure, modal test, fatigue test of components, etc.



Power Amplifier



Dynamic Signal Analyzer

