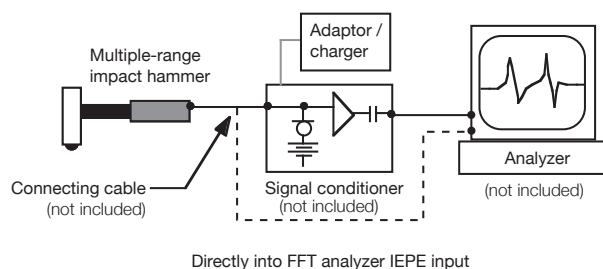
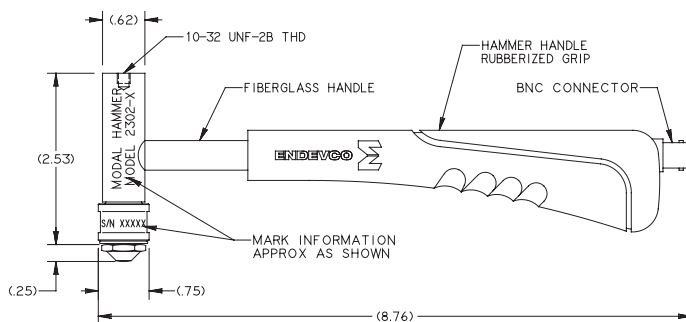




Model 2302 Modal hammer

Features

- Four ranges available (50, 100, 500, 1000 lbf)
- 3 replaceable tips
- Low impedance (Isotron®) output
- Acceleration compensated
- Ergonomically designed grip



Description

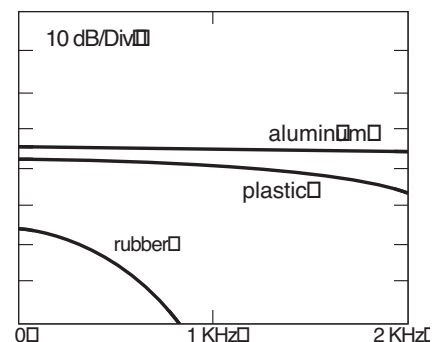
Scaled modal models require a precise force measurement. This can be achieved by electrodynamic and servohydraulic exciters controlled by a signal generator via a power amplifier. A more convenient and economical excitation method is a hammer fitted with a high-quality piezoelectric force transducer. In applications where a high crest factor and a limited ability to shape the input force spectrum is of no concern, impact hammer testing is an ideal source of excitation. Impact hammers are highly portable for field work and provide no unwanted mass loading to the structure under test.

The modal hammer excites the structure with a constant force over a frequency range of interest. Three interchangeable tips are provided which determine the width of the input pulse and thus the bandwidth. Typical force spectra produced with different tips are shown at the bottom.

For larger structures, an optional head extender is available to increase the head's mass. The hammer structure is acceleration compensated to avoid glitches in the spectrum due to hammer structure resonances. The ergonomically designed handle grip helps the user optimize control and reduce the possibility of "double hits".

The hammer features an Isotron impedance converter providing an IEPE output which is compatible with most FFT analyzers and data acquisition systems.

Endevco brand model 133, 2775B, 2793, 4416B, 4999, 6634C and Oasis 2000 (4990A-X with cards 428 and/or 433) signal conditioners are recommended for use with the 2302. To excite larger structures, see Endevco brand model 2303, 2304 and 2305 sledge hammers.



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smart engineering for
extreme environments

The following performance specifications are typical values, referenced at +75°F (+24°C, 4 mA and 100 Hz, unless otherwise noted.

Accessories

Endevco complete modal front end system

1. Only the 2 gram tips supplied with the hammer set should be used. Heavier or lighter tips may affect acceleration compensation.
2. To prevent damage to mounting threads, do not use excessive torque when installing/changing impact tips.
3. Maintain high levels of precision and accuracy using Meggitt's factory calibration services. Call Meggitt's inside sales force at 800-982-6732 for recommended intervals, pricing and turn around time for these services as well as for quotations on our standard products.