

Vibration Measurements



Measurements are the basis for nearly every vibration analysis. We attach great importance to the accuracy of our measuring instruments and the adequate state of all equipment. We are bound to a strict quality assurance system. All instruments are calibrated once a year. For that purpose we keep our own shaker with a gauged sensor system.

With a random selection of channels we record concurrent or separately:

- Displacement amplitude
- Vibration velocity
- Vibration acceleration
- Dynamic strain
- Dynamic stiffness
- Noise immission
- Electromagnetic Fields (DC-1 kHz)

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For inducing vibration and shocks to the subsoil we use different

machinery and equipment:

Dynpact® gives a puls excitation, is flexible in application and has delivered an optimal performance in practice. Parallel measurement of force and resulting vibrations on the surface or in a bore hole (up to a depth of 25 m) allow a variety of simulation tests for dynamic loads.



Excitation: Impuls

Force direction: vertical

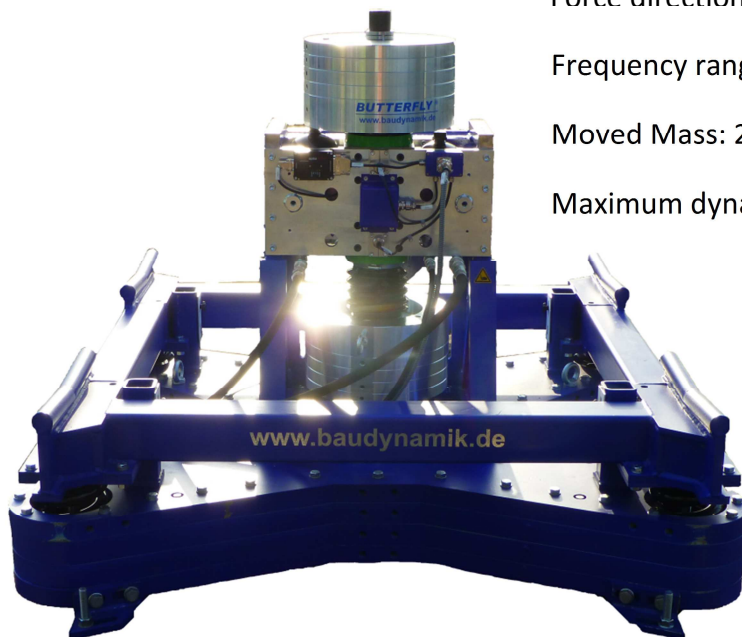
Frequency range: 1-400 Hz

Weight of hammer: 10-75 kg

Impact energy: 100-750 J

10-30 Beats per minute

Butterfly® is a servohydraulic shaker for artificial excitation and is our proprietary development. The shaker was made for worldwide mobile application.



Excitation: harmonic

Force direction: vertical and horizontal

Frequency range: 0,01-110 Hz

Moved Mass: 200-800 kg

Maximum dynamic force amplitude: up to 20 kN

...for more information, please visit our website www.baudynamik.de