



vImpact-20

- **Automatic Modal Hammer**
- **20 kHz Impulse Hammer**
- **Adjustable Impact Rate**
- **Timer Operation**
- **External Controllable**
- **Frequency Range up to 20 kHz**
- **Highest Impact Reproducibility**



Automatic Modal Hammer | *vImpact-20*

A manual excitation with a small Modal Hammer without a „Double Hit“ is nearly impossible – a well-known and very inconvenient issue.

As solution for this issue MAUL-THEET developed the Automatic Modal Hammer *vImpact-20*. This enables you to precisely and reproducibly excite structures and measure the excitation forces. The frequency ranges **up to 20 kHz** make the small Modal Hammer very interesting for acoustic or laser measurements.

The product-series of automatic Modal Hammer from MAUL-THEET includes the *vImpact-20* and the *vImpact-60*. The difference lies mainly in the performance of the measuring range – the *vImpact-60* to max. 60 kHz, the *vImpact-20* measures up to 20 kHz.

The *vImpact* system is divided into two components:

- Hammer head
- Control unit

The Hammer head includes a small Modal Hammer who has an integrated force cell and the electro dynamic actor that moves the Hammer.

The control unit sends the impulse that moves the Modal Hammer to the actor inside the Hammer head. The measured force signal is at the output of the control unit available.



The Hammer can be triggered by several methods:

- Manually with the trigger button at the control unit.
- By closing the external input with a switch through an extension wire or by any device with a closing contact.
- With the internal timer in the range of 3 hits per second up to 1 hit per minute.



Technical Specifications:

Frequency range	0-20 kHz, depending on object
Sensitivity	25 mV/N
Measuring range	222 N pk
Resonance Frequency	≥ 300 kHz
Nonlinearity	$\leq 1\%$
Output impedance	< 100 Ohm
Coupling	2-20 mA, IEPE
Trigger	Button, Timer External switch (Closer)
Power supply	12-15V DC

Information:

For further information, please contact us under the address given below!