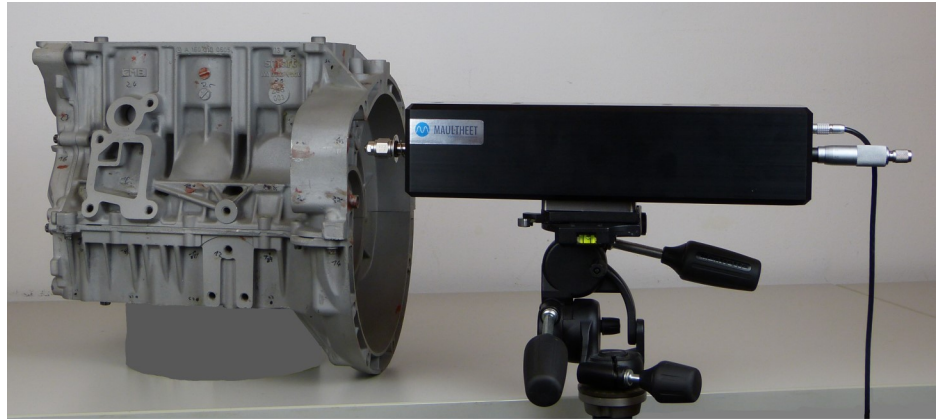




vImpact 2000

- **Automatic Modal Hammer**
- **Adjustable Impact Intensity**
- **Timer Operation max. 1 impact / s**
- **External Trigger**
- **High Excitation Force up to 2 kN**
- **Frequency Range up to 4kHz**
- **Highest Impact Repeatability**



Adjustable Automatic Modal Hammer for Higher Forces

The new vImpact 2000 hammer was developed for excitation forces up to 2 kN. The Impact strength can be setup with the controller.

It can be used for measurements where a high repeatability is required and in test cells where persons are not allowed to stay inside during operation. A typical application is an automatic modal analysis with a laser scanner.

MAUL-THEET developed the automatic Modal Hammer vImpact 2000 as an extension of the smaller vImpact 60 series that has a lower impact strength but high excitation frequencies. Larger structures can be excited with the vImpact 2000 in the frequency ranges up to 4 kHz depending on the hammer tip.

The vImpact 2000 system is divided into three components:

- Hammer head
- Control unit
- Power Supply

The control unit sends the impulse that drives the actor inside the hammer head. An internal timer or external signals can trigger the automatic hammer.

The force is measured with an IEPE force cell.



The hammer can be triggered by several methods:

- Manually with the trigger button at the front of the control unit.
- By closing the external input with a switch through an extension wire or by any device with a closing contact.
- By TTL-Signal (+5V)
- With the internal timer in the range of 1 hits per second up to 1 hit per 1000 seconds.



Technical Specifications:

Frequency Range	0-4kHz, depending on object
Sensitivity	2,25 mV/N
Measuring Range	2224 N pk
Resonance Frequency	≥ 36 kHz
Nonlinearity	$\leq 1\%$
Output impedance	$< 100\Omega$
Coupling	2-20mA, IEPE
Trigger	Button External switch (Closer) TTL-Signal 40....200ms Timer
Power supply	24V DC
Dimensions Head	340 mm x 80 mm x 80 mm
Mass	Head: 4.9 kg, Controller: 0.6 kg

Information:

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

MAUL-THEET GmbH
Bülowstrasse 66
D-10783 Berlin
tel: 0049 (0) 30 8620 7775
fax: 0049 (0) 30 8620 7568
info@maul-theet.com