MAUL-THEET
Vibration Test & Analysis

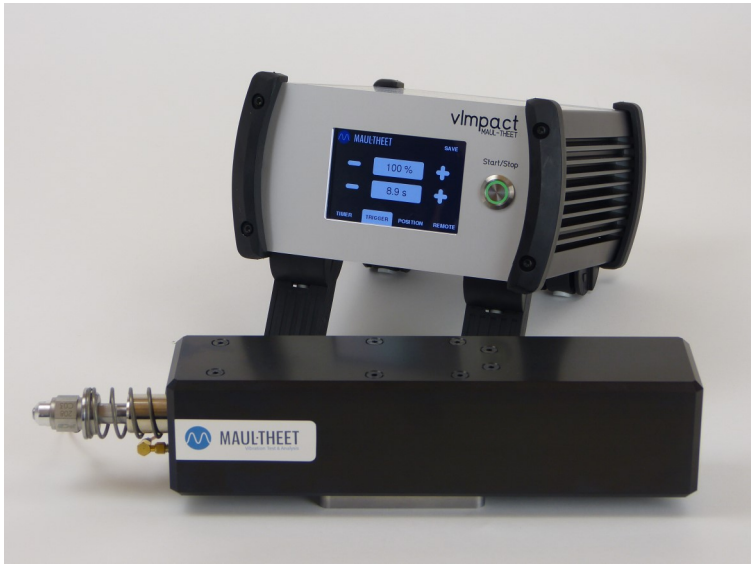
vImpact-2003c

Adjustable Automatic Modal Hammer

for forces > 2000 N

- *Automatic Modal Hammer*
- *Changeable hammer tips*
- *Max. Impact Force with different hammer tips*
  Steel ~ 2kN
  Polyamide ~ 600N
  Rubber ~ 40N
- *High Impact Repeatability*
- *Setup operation via positioning of the hammer tip*
- *Works in all directions*
- *Timer Intervals*
  1 impact per 2s to
  1 Impact per 9999s
- *External Trigger*
  - Closer
  - TTL
  - USB
- *Frequency Range up to 6 kHz*
- *Touch Screen*
- *Remote Control via PC*
- *Replaceable Force Cell*

The new ***vImpact-2003c*** modal hammer is further development of the successful ***vImpact 2003*** with reduced dimensions and much less weight by keeping all technical specs like max. impact force.
Depending on the hammer tip, maximum forces between 40N and >2000 N can be achieved in all directions.
Via the touch screen of the ***vImpact-2003c*** controller it is possible to set the preload of the hammer mass, the interval time and the setup position. In the



setup position, the hammer tip moves out to the specified position, enabling

the user to align the hammer head precisely.
The improved mechanics of the ***vImpact-2003c*** guarantees a high repeatability of the impact force as well as constant excitation location and direction. In comparison to manual excitation with a conventional modal hammer, significantly better coherences are achieved.
The hammer can be controlled with a PC via the USB interface of the controller.
The scope of delivery includes remote software that enables control by the PC.

Optionally we deliver a hydraulic arm and a holding magnet, suitable for the ***vImpact-2003c***.

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The ***vImpact-2003c*** hammer can be triggered in different ways:

- With the internal timer in the range of one hit per 2 seconds up to one hit per 9999 seconds.
- Manually with the trigger button at the front of the controller.
- By closing the external trigger input with a switch, by any device with a closing contact or a TTL signal.
- By the **vImpact Remote Software** and ASCII commands sent via the USB Port.

With the ***vImpact-2003c*** it is possible to remove the force cell and send it for calibration or replace it with another load cell.
Smaller load cells are available for softer hammer tips with lower excitation forces.

The standard version of the ***vImpact-2003c*** is delivered with a 2.2 kN force cell.

Technical Specifications:

Impact Force	Adjustable via preload of the hammer mass
Max. Impact Force	~ 2000 N peak with steel tip ~ 600 N peak with polyamide tip ~ 40 N peak with rubber tip
Frequency Range	> 6 kHz, depending on object
Coupling	2-4 mA, IEPE
Trigger	Timer Button External contact (Closer, TTL) USB Inferface
Power supply	24V DC
Mass	Head: 2.2 kg, Controller: 0.6 kg
Dimensions Head	320 mm x 70 mm x 60 mm

Information:

For further information, please contact us.

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