

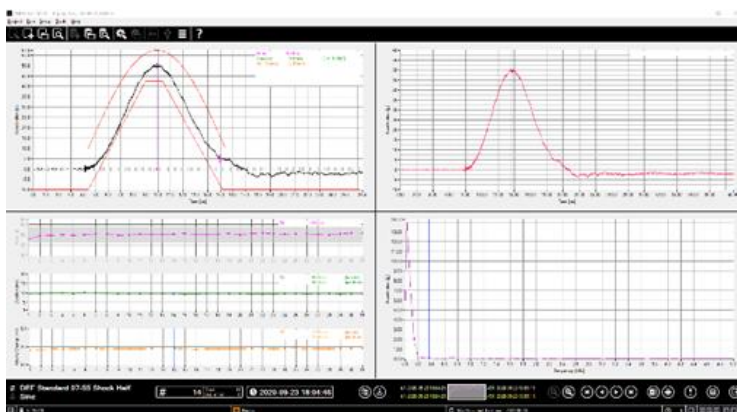
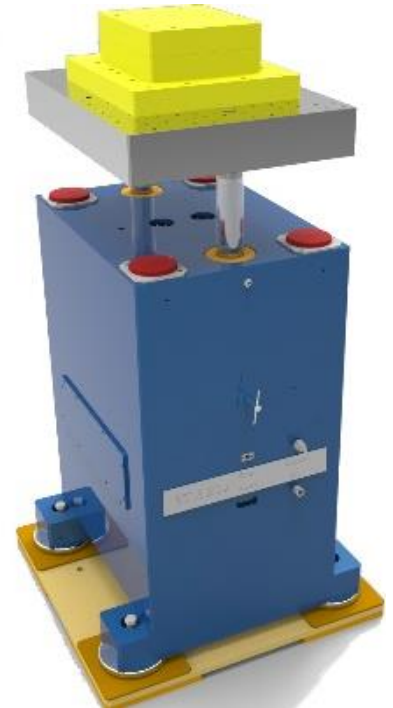
STM200 - Free Standing – 200kg Payload – High Speed

- Shock repetition rate of up to ~1 shock/second
- Closed loop control on shock amplitude
- 800x600mm payload area.
- Resonance free shock amplitudes of up to 450g
- Ideal for production testing of larger components and battery testing
- Free standing machine, with own seismic mass

The STM200 meets customer requirements of higher mass test objects offering cost effective shock testing. Perfectly suited for large sub-assemblies for the automotive, defense or aerospace industry.

Test items are mounted on a 600x800mm aluminum table which can be adapted to interface with quick release platforms for minimum setup time. The STM200 is equally suited to environmental testing. Table lifting is achieved by a built-in pneumatic ram which is then accelerated down allowing the table to free fall. Through utilization of timer counters coupled to high precision valves controlled by our IMPALA2 software, this machine generates highly repeatable shocks at a rate of up to ~60/minute.

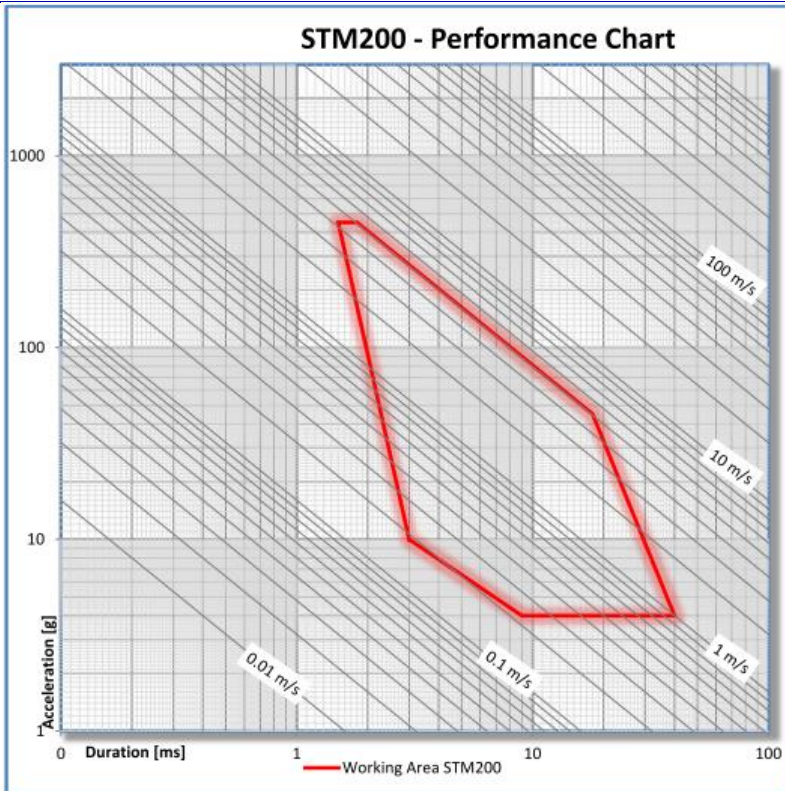
IMPALA2 is a closed loop control and visualization software that continuously monitors the response signal from the test item mounting platform. Any change in the response amplitude will be immediately corrected ensuring continuous high-quality shocks. A range of current industry standard tolerance zones can be selected and displayed over the response waveform. Full remote control is available for integration into the production environment.



Feature Highlights

- Easy and user-friendly software
- Automatic amplitude control (Closed loop)
- Time function FFT and trend data on peak, duration, and velocity
- 4 channel data acquisition
- Simple test and data viewer with replay function
- Comprehensive cursor read-outs
- Tolerance window monitoring

Technical Specifications

PERFORMANCE AND TEST ITEM MOUNTING	
Maximum Test Item Weight	200kg
Mounting Surface	800 x 600mm
Maximum Acceleration	up to 450g
Range of Shock Pulse Width	1.6ms to 35ms
Range of Velocity Change	0.25m/s to 5m/s
Shock Repetition Rate	up to ~60/minute
Performance Chart	
PHYSICAL	
Machine Weight	approx. 3400kg
Required Floor Area	920 x 900mm
Outside Dimensions	600 x 800 x 1380mm (1960mm included safety guard)
REQUIRED UTILITIES	
Air Pressure	4-6 bar (6 bar recommended)
Power	wide range 110/240VAC - 50/60Hz
Min. Software/HW requirements	>= Win10 - Prof. / 1x free USB-A / Full-HD Monitor
Accelerometer	1x Ref. Accelerometer with BNC end



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