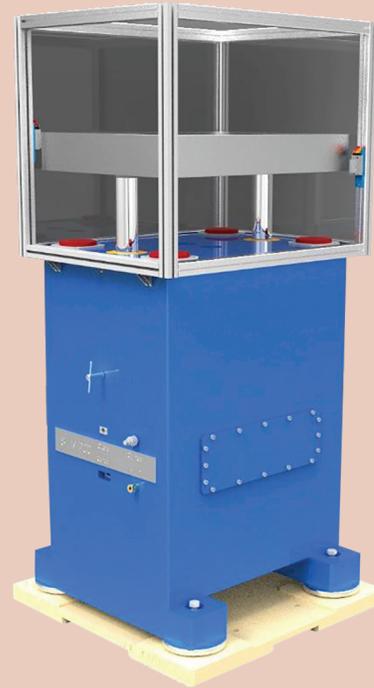
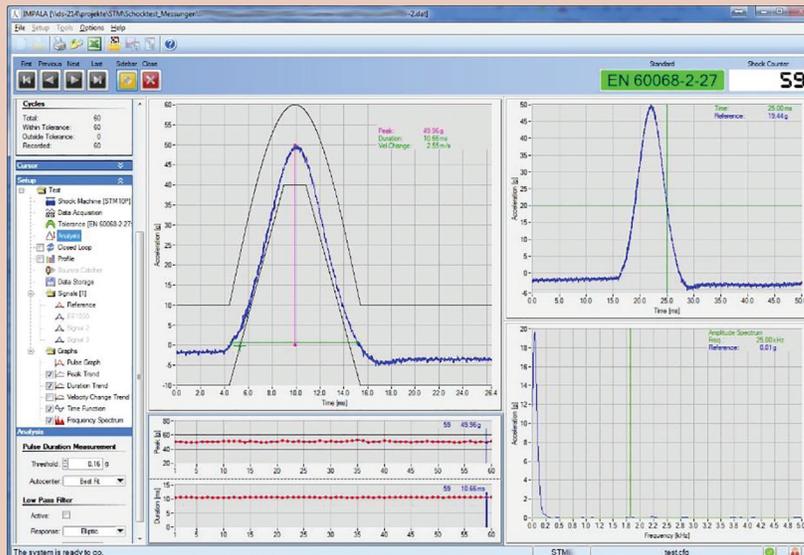


FREE STANDING – 200KG PAYLOAD – HIGH SPEED

- Shock repetition rate of up to ~1 shock per second.
- Full closed loop shock amplitude control.
- 600x800mm payload area.
- Shock amplitudes of up to 450g.
- Ideal for military component testing.



The STM200 meets customer requirements of higher mass test objects offering cost effective shock testing. As automobile component suppliers are building larger sub-assemblies for a more efficient production line phase, there is requirement for larger capacity shock machines. Test items are mounted on a 600x800mm aluminium 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 utilisation of timer counters coupled to high precision valves controlled by our **IMPALA** software, this machine generates highly repeatable shocks at a rate of up to ~60/minute.



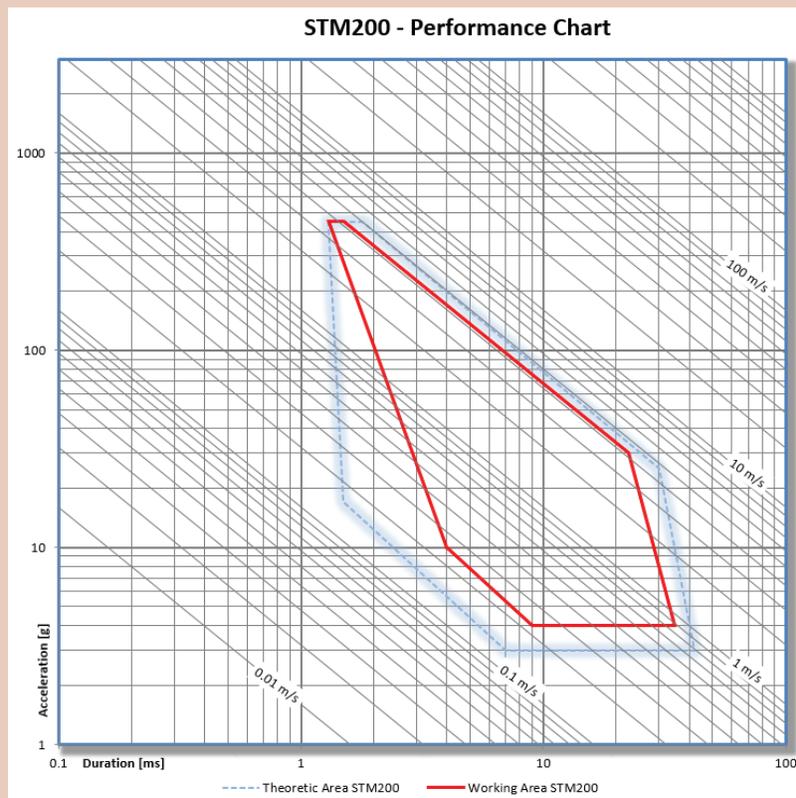
IMPALA is a closed loop control and visualisation software that continuously monitors the response signal from the test item mounting platform. Any change in the response amplitude will be immediately corrected ensuring continuous high quality shocks. A range of current industry standard tolerance zones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

Technical Specifications

PERFORMANCE AND TEST ITEM MOUNTING

| | |
|---------------------------|------------------|
| Maximum Test Item Weight: | 200kg |
| Mounting Surface | 600mm x 800mm |
| Maximum Acceleration | up to 450g |
| Shock Pulse Width Limits | 1.6ms to 35ms |
| Maximum Velocity Change | 0.25m/s to 4m/s |
| Shock Repetition Rate | up to ~60/minute |

PERFORMANCE CHART



PHYSICAL

| | |
|---------------------|-----------------------------|
| Machine Weight | 3400kg |
| Required Floor Area | 650mm x 850mm |
| Machine Dimensions | 600mm x 800mm x 1375mm high |

UTILITIES

| | |
|-------------------|--|
| Air | 6 bar (90 PSI) @ 84 liters/min (3 CFM) |
| Electrical | 110/240 VAC 50/60hz 10 Amps |
| Software/Hardware | Impala™ / Win 11- USB 2.0/3.0 |



OUR EQUIPMENT. YOUR SUCCESS.
Your only source for customer-focused
shock and vibration testing equipment

A Spectral Dynamics Company



Due to our continuous commitment to product development, the above specifications and features may be modified without notice.

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