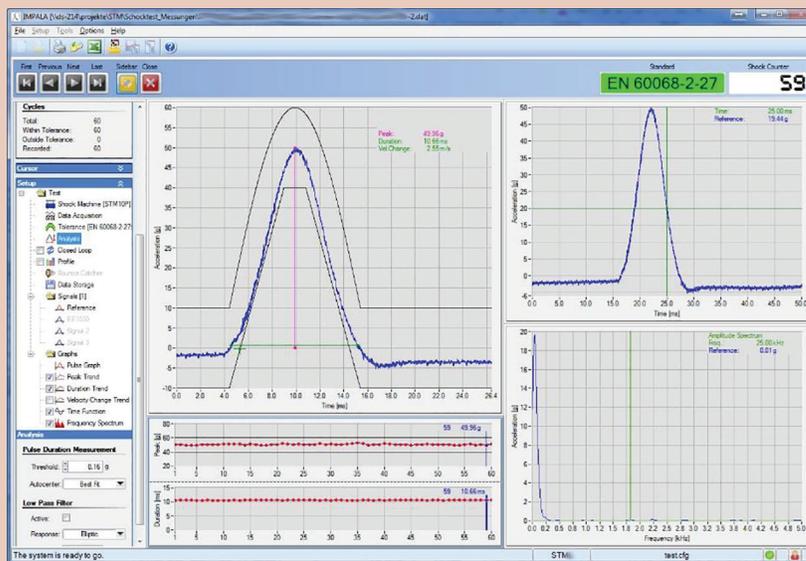


**FREE STANDING –
100KG PAYLOAD – HIGH SPEED**

- Shock repetition rate of up to ~1 shock per second.
- Full closed loop shock amplitude control.
- 450x500mm payload area.
- Shock amplitudes of up to 600g.
- Ideal for production testing of larger sub assemblies.



The STM100 meets the requirements of customers with higher mass test objects offering cost effective shock testing. As automobile component suppliers are building ever larger sub-assemblies for a more efficient production line phase, there is requirement for larger capacity shock machines. Test items are mounted on a 450x500mm aluminium table which can be adapted to interface with quick release platforms for minimum setup time. The STM100 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.



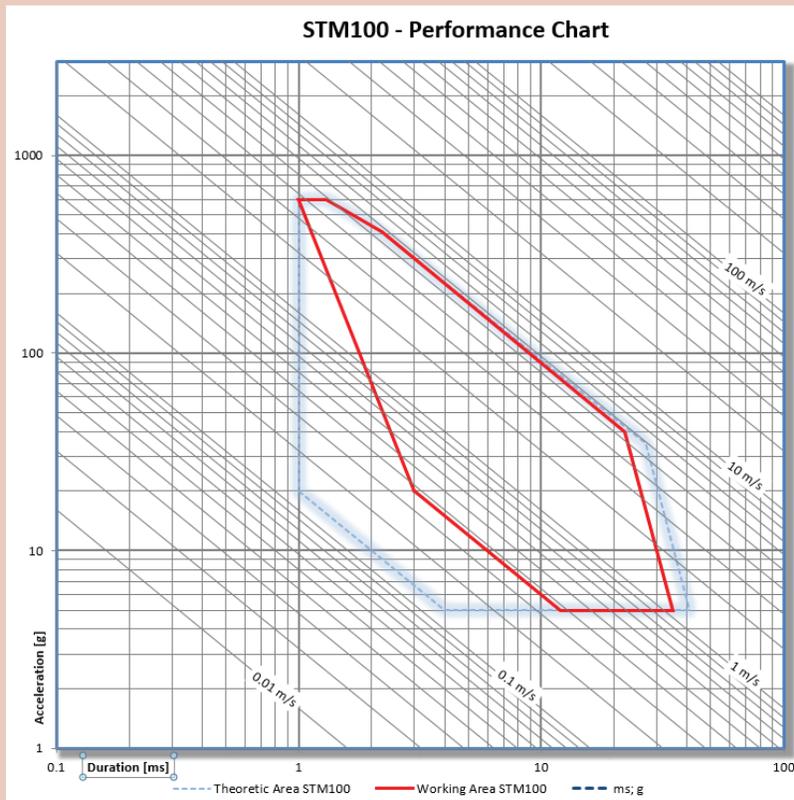
IMPALA is a closed loop control and visualisation software that continuously monitors the response signal from the test item mounting platform. Any change in the response amplitude will be immediately corrected ensuring continuous high quality shocks. A range of current industry standard tolerance zones 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:	100kg
Mounting Surface	450mm x 500mm
Maximum Acceleration	up to 600g
Shock Pulse Width Limits	1ms to 30ms
Maximum Velocity Change	~0.4m/s to ~5.5m/s
Shock Repetition Rate	up to ~60/minute

PERFORMANCE CHART



PHYSICAL

Machine Weight	1250kg
Required Floor Area	500mm x 450mm
Machine Dimensions	450mm x 500mm x 1350mm 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.

L.A.B Equipment, Inc., 1549 Ardmore Avenue, Itasca, IL 60143, USA
Phone: 630-595-4288 Fax: 630-595-5196 www.labequipment.com