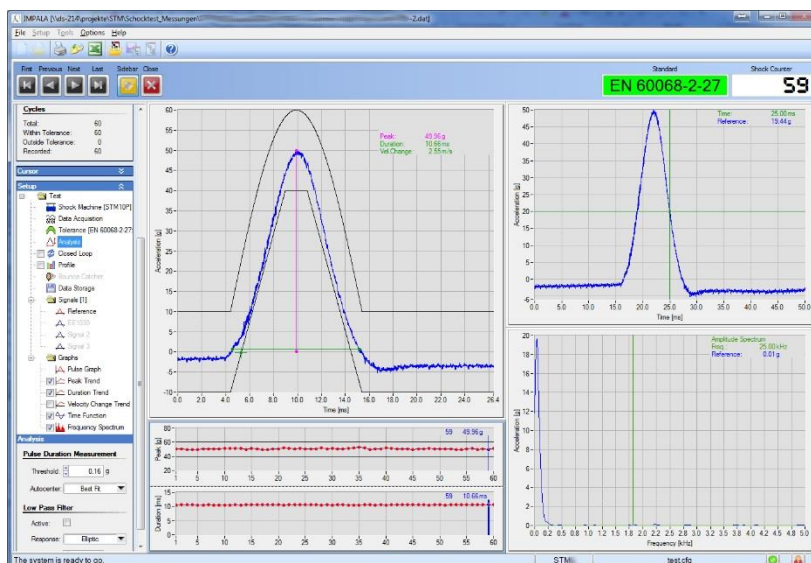


## Free Standing – 50 kg Payload – High Speed

- Shock repetition rate of up to ~1 shock per second.
- Full closed loop shock amplitude control.
- 450x500mm payload area.
- Shock amplitudes in excess of 1000g.
- Ideal for production testing.



The STM50P is the most popular of our flat bed shock machines offering cost effective shock testing. This machine is suited to applications ranging from environmental testing for military standards to automobile component testing in the field of production quality control together. Test items are mounted on a 500x450mm aluminium table which can be adapted to interface with quick release platforms for minimum setup time on the production line. 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.



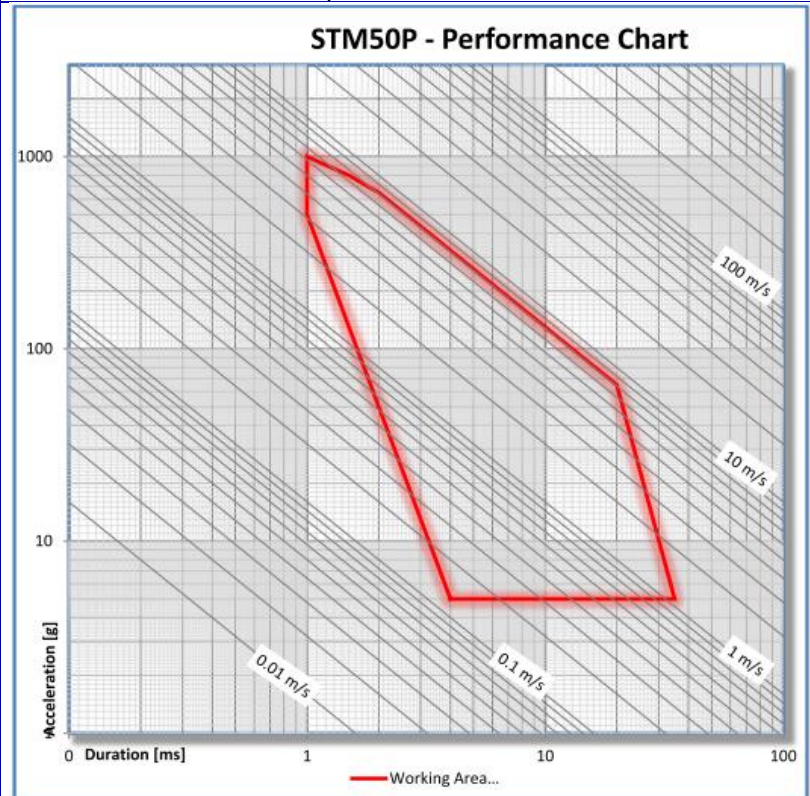
**IMPALA** is a closed loop control and visualisation software that continuously monitors the response signal from the test item mounting platform. Any change in the response amplitude will be immediately corrected ensuring continuous high quality shocks. A range of current industry standard tolerance 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	50kg
Mounting Surface	500mm x 450mm
Maximum Acceleration	up to 1000g
Shock Pulse Width Limits	1ms to 30ms
Velocity Change	0.4m/s to ~8m/s
Shock Repetition Rate	up to ~60/minute

Performance Chart



### PHYSICAL

Machine Weight	ca. 1250kg
Required Floor Area	500mm x 450mm
Outside Dimensions	450mm x 500mm x 1000mm high

### Min. REQUIRED UTILITIES

Air Pressure	4-8 bar (6 bar recommended)
Power	110/240VAC 50/60Hz
Software / HW	>= WIN7-SP1 - Prof. / 2x PCI slots

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