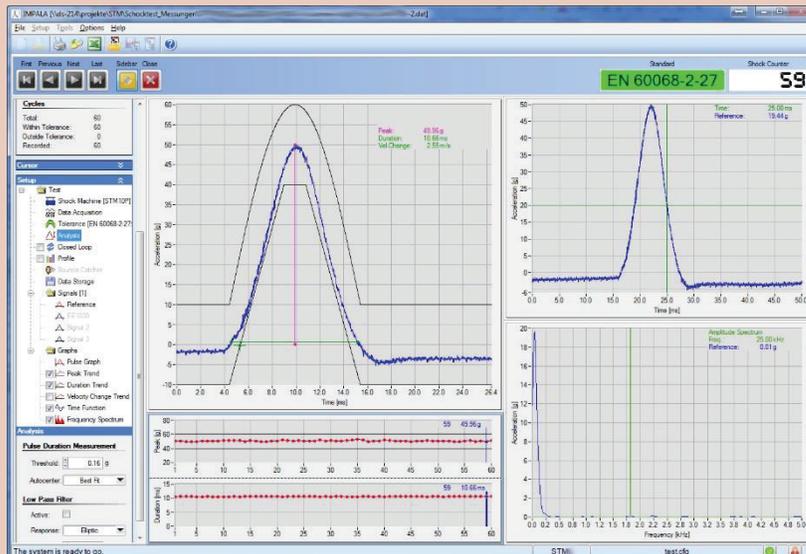


HIGH ACCELERATION – TRI-AXIS MOUNTING – HIGH SPEED

- Shock repetition rate of up to ~1 shock per second.
- Full closed loop shock amplitude control.
- Test item can be mounted in three axis.
- Shock amplitudes of up to 2000g.
- Ideal for watch and small component testing.



The STM5 has been developed to meet the shock testing requirements of the small components industry. Several machines have been delivered to watch manufacturers in the field of production quality control together with research and development. Test items are mounted on a 150mm cube which allows for testing multiple components to be tested in three axis. This machine is unique in our product line in having a dynamically tuned beam pivoting at one end, this construction allows resonant free testing down to at least 0.3ms. Beam lifting is achieved by a built in pneumatic ram which is then accelerated down allowing the beam 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.



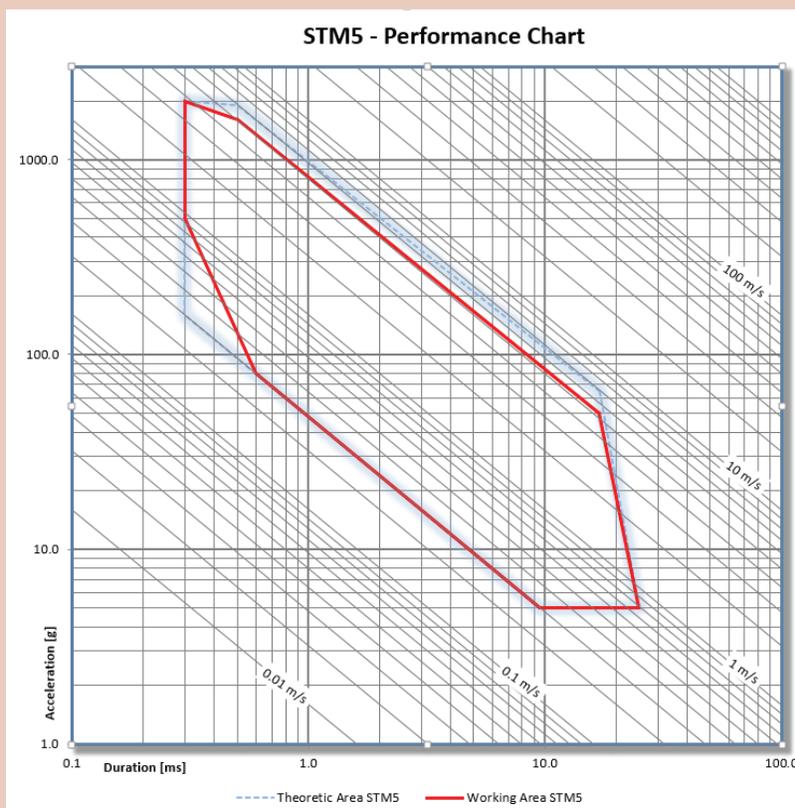
IMPALA is a closed loop control and visualisation software that continuously monitors the response signal from the test item mounting platform. Any change in the response amplitude will be immediately corrected ensuring continuous high quality shocks. A range of current industry standard tolerance zones 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:	5kg
Mounting Surface	152mm x 152mm x 152mm
Maximum Acceleration	up to 2000g
Shock Pulse Width Limits	0.3ms to 25ms
Maximum Velocity Change	0.3m/s to 5m/s
Shock Repetition Rate	up to ~60/minute

PERFORMANCE CHART



PHYSICAL

Machine Weight	120kg
Required Floor Area	400 x 1300mm
Machine Dimensions	350 x 1250 x 1070mm 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



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

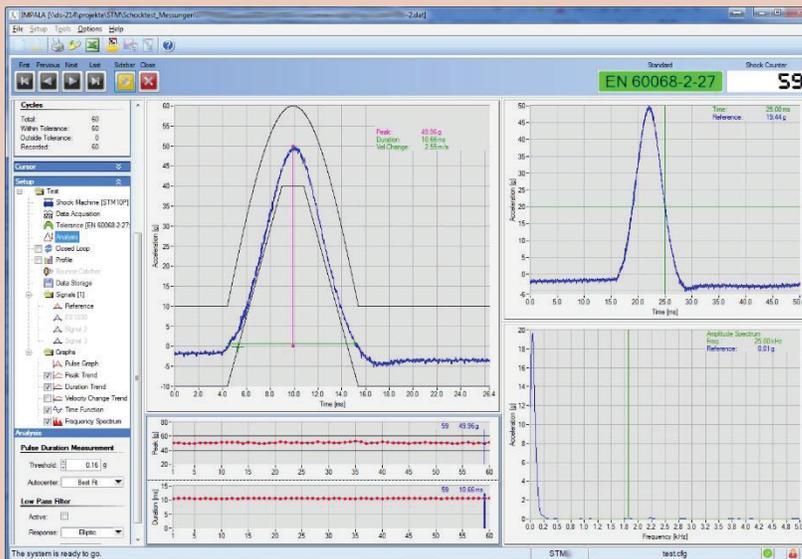
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FREE STANDING – 10KG PAYLOAD – HIGH SPEED – HIGH ACCELERATION

- Shock repetition rate of up to ~1 shock per second.
- Full closed loop shock amplitude control.
- 320 x 250mm payload area.
- Shock amplitudes of up to 1400g.
- Ideal for production testing.



The STM10P is the smallest of our flat bed shock machines offering cost effective shock testing. Several machines have been delivered to the watch industry and to automobile component suppliers in the field of production quality control together with research and development. Test items are mounted on a 320x250mm 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, or accelerated with flexible bands. 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 of 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:	10kg
Mounting Surface	320mm x 250mm
Maximum Acceleration	up to 1400g
Shock Pulse Width Limits	0.5ms to 20ms
Maximum Velocity Change	0.13m/s to 5m/s
Shock Repetition Rate	up to ~60/minute

PERFORMANCE CHART



PHYSICAL

Machine Weight	~440kg
Required Floor Area	450mm x 370mm
Machine Dimensions	400mm x 320mm x 800-950mm 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



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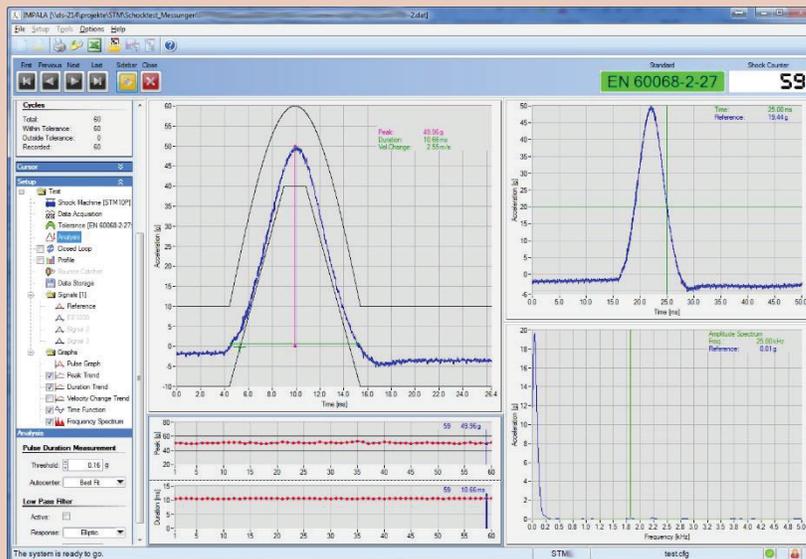


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**FREE STANDING –
10KG PAYLOAD – HIGH SPEED**

- Shock repetition rate of up to ~1 shock per second.
- Full closed loop shock amplitude control.
- 320 x 250mm payload area.
- Shock amplitudes of up to 500g.
- Ideal for production testing.

The STM10 is the smallest of our flat bed shock machines offering cost effective shock testing. Several machines have been delivered to automobile component suppliers in the field of production quality control together with research and development. Test items are mounted on a 320x250mm 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.



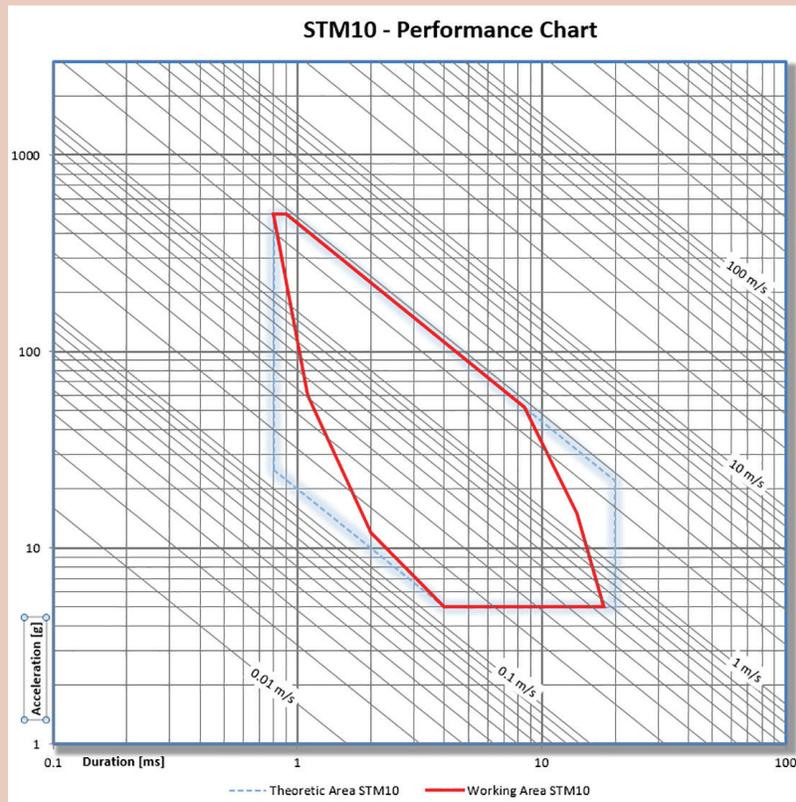
IMPALA is a closed loop control and visualisation software that continuously monitors the response signal from the test item mounting platform. Any change in the response amplitude will be immediately corrected ensuring continuous high quality shocks. A range of current industry standard tolerance zones 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:	10kg
Mounting Surface	320mm x 250mm
Maximum Acceleration	up to 500g
Shock Pulse Width Limits	0.8ms to ~20ms
Maximum Velocity Change	0.13m/s – 2.5m/s
Shock Repetition Rate	up to ~60/minute

PERFORMANCE CHART



PHYSICAL

Machine Weight	~320kg
Required Floor Area	450mm x 370mm
Machine Dimensions	400mm x 320mm x 620-770mm 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



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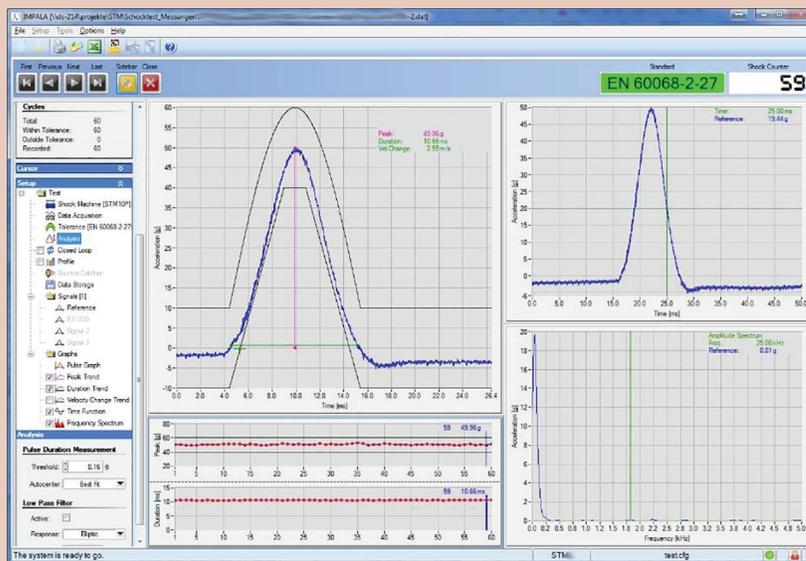
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**FREE STANDING –
100KG PAYLOAD – HIGH SPEED**

- 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.



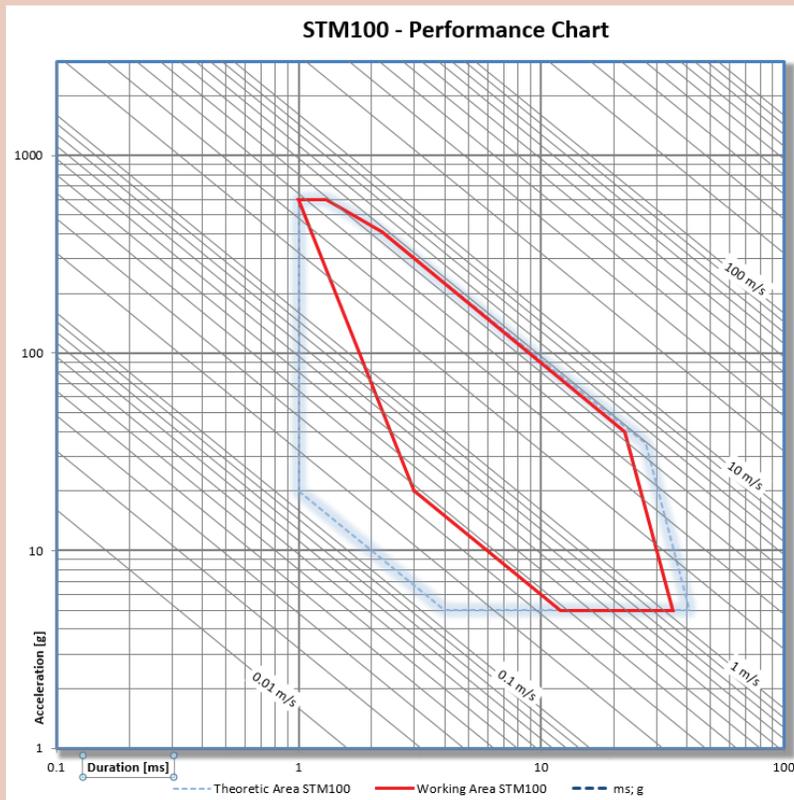
IMPALA is a closed loop control and visualisation software that continuously monitors the response signal from the test item mounting platform. Any change in the response amplitude will be immediately corrected ensuring continuous high quality shocks. A range of current industry standard tolerance zones 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



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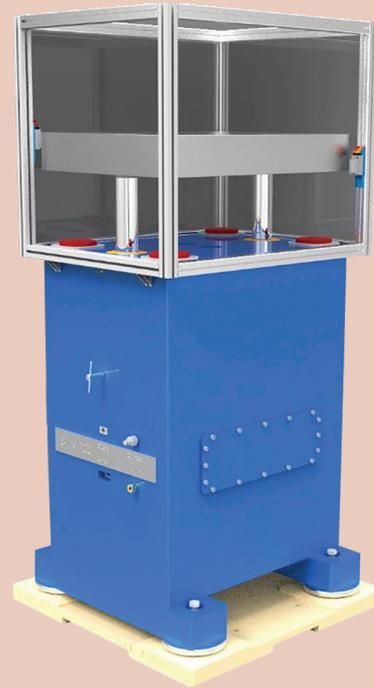


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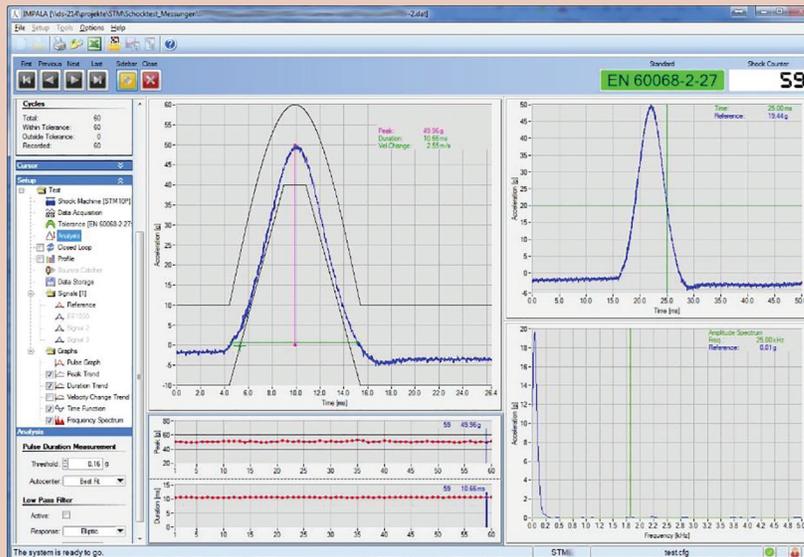
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FREE STANDING – 200KG PAYLOAD – HIGH SPEED

- 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.



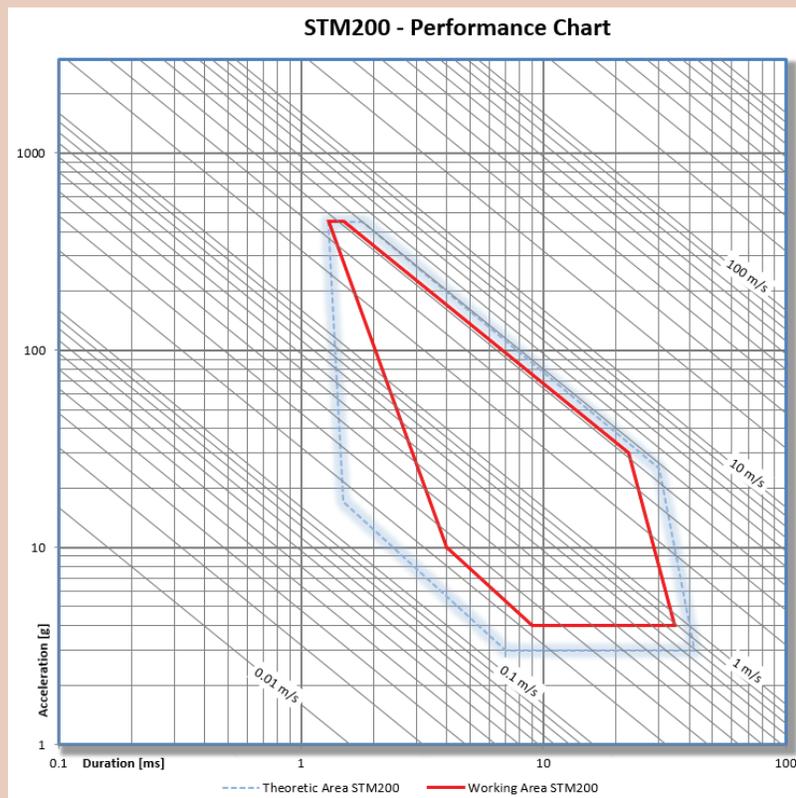
IMPALA is a closed loop control and visualisation software that continuously monitors the response signal from the test item mounting platform. Any change in the response amplitude will be immediately corrected ensuring continuous high quality shocks. A range of current industry standard tolerance zones 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



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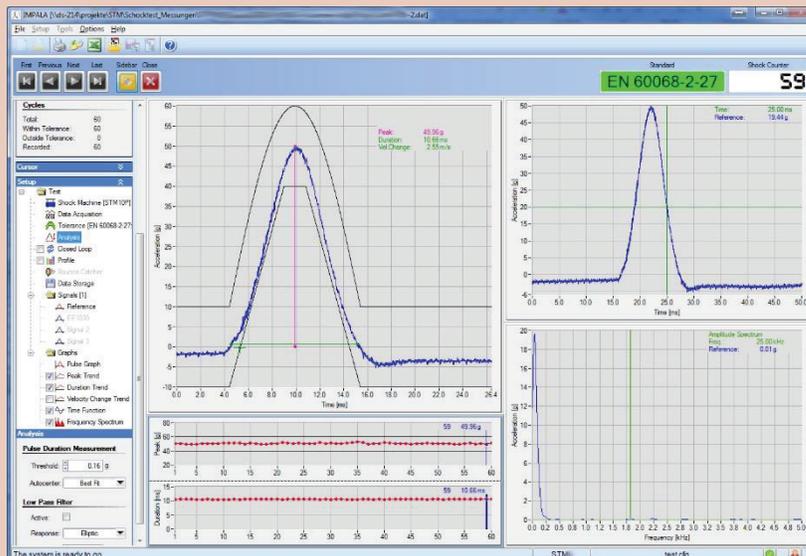
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**FREE STANDING –
50 KG PAYLOAD – HIGH SPEED**

- 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.



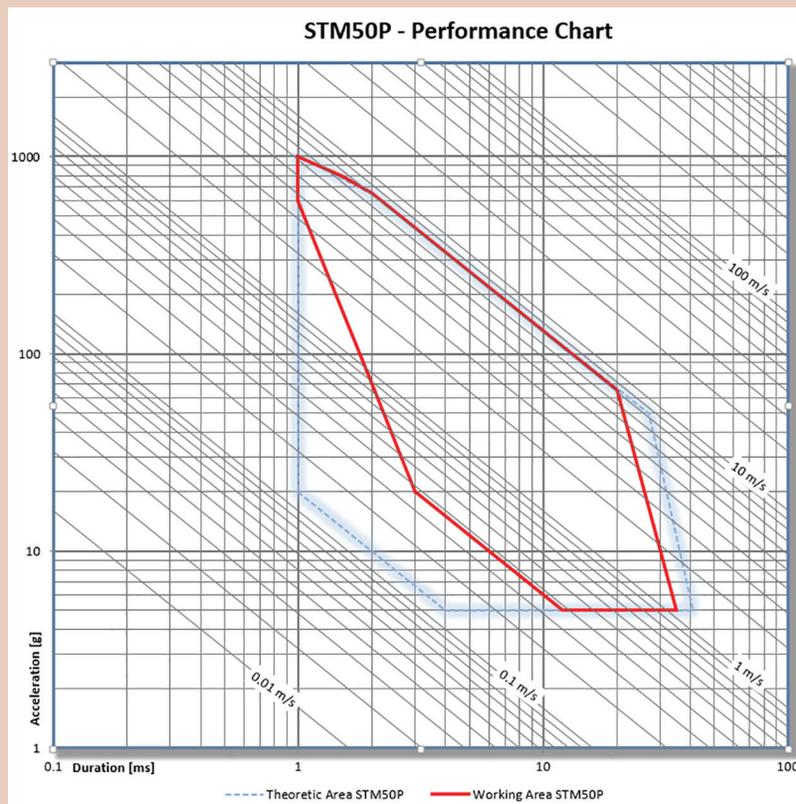
IMPALA is a closed loop control and visualisation software that continuously monitors the response signal from the test item mounting platform. Any change in the response amplitude will be immediately corrected ensuring continuous high quality shocks. A range of current industry standard tolerance zones 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
Maximum Velocity Change	0.4m/s to ~8m/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 1000mm 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



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