

## PNEUMATIC SHOCK/BUMP TEST SYSTEM

SA series Pneumatic Shock/Bump Test System is featured with advanced design, high degree of automation and reliability, simple operation and convenient maintenance. The system meets the requirements of both shock and bump test, can perform conventional half-sine, post-peak sawtooth, trapezoid (square) and other waveform shock tests.

### Features

- Pneumatic drive, simple structure and high reliability
- Maximum bump rate up to 120 times/min.
- Impact testing for small pulse lower to 0.3m/s
- Shock acceleration up to 3,000g
- It can easily realize large shock pulse width and small overload test.
- The speed and rate of shock can be easily controlled by adjusting the gas pressure.
- The integrated controller and measurement system is capable of executing manual, continuous, single and interval shocks
- Built-in brake mechanism ensures the safety of operation in any situation



System Model	SA-50		SA-100		CTS-100		SA-400	
Rated Load (kg)	50		100		200		400	
Table Size (mm)	500×400		600×600		800×600		1,000×800	
Shock Waveform	Peak Acc. (g)	duration (ms)	Peak Acc. (g)	duration (ms)	Peak Acc. (g)	duration (ms)	Peak Acc. (g)	duration (ms)
Half-Sine	15-400	60-3	15-300	60-3	15-200	60-3	15-200	60-3
Post Peak Sawtooth	10-200	18-3	10-200	18-3	10-60	18-6	10-60	18-6
Trapezoid	15-100	18-6	15-100	18-6	15-60	18-6	15-60	18-6
Max. Bump Rate (times/min)	80		60		50		30	
Overall Size (mm)								
Length	1,040		1,200		1,250		1,450	
Width	880		1,030		1,150		1,350	
Height	1,880		1,882		2,200		2,300	
Total Weight (kg)	1,800		1,800		2,800		3,800	
Standards	MIL-STD-810F IEC68-2-27 UN38.3 IEC62281 IEC62133-2 UL2054 IEEE1625 SAEJ2929 IEC62660-2 ISO12405-3 UL2580							

System Model	SA-600		SA-800		SA-1000		SA-2000/SA-5000	
Rated Load (kg)	600		800		1,000		2,000-5,000	
Table Size (mm)	1,000×800		1,200×1,000		1,200×1,000		Customized	
Shock Waveform	Peak Acc. (g)	Pulse duration (ms)	Peak Acc. (g)	Pulse duration (ms)	Peak Acc. (g)	Pulse duration (ms)	Peak Acc. (g)	Pulse duration (ms)
Half-Sine	15-200	60-3	15-100	60-6	15-100	60-6	Customized	
Post Peak Sawtooth	10-60	18-6	10-50	18-6	10-50	18-6		
Trapezoid	15-60	18-6	15-50	18-6	15-50	18-6		
Max. Bump Rate (times/min)	30		20		20			
Overall Size (mm)								
Length	1,450		1,950		1,950			
Width	1,350		1,550		1,550			
Height	2,300		3,110		3,110			
Total Weight (kg)	3,800		5,200		5,200			
Standards	MIL-STD-810F IEC68-2-27 UN38.3 IEC62281 IEC62133-2 UL2054 IEEE1625 SAEJ2929 IEC62660-2 ISO12405-3 UL2580							