

Impact Testing Machine For Electronic Aerospace Battery And Automotive Components

Item Number: DA14



Introduction

Impact testing machine for electronic aerospace battery and automotive components delivers selectable half sine post peak sawtooth and square pulse testing with 20 to 2000 G acceleration and 10 kg capacity.

[Learn More](#)

Application	Description	Key Benefit
Electronic product shock evaluation	Test electronic products for response to selected half-sine, post-peak sawtooth, or square-wave impacts.	Waveform selection helps align the applied shock event with the product test plan.
Aerospace equipment testing	Evaluate aerospace equipment and associated components under controlled mechanical impact conditions.	Peak acceleration from 20 to 2000 G provides a defined shock-test range for laboratory assessment.
Marine and shipboard component assessment	Perform impact testing of products intended for ship-related applications.	The specified force range of 500 to 155000 N supports clear test-condition planning.
Military product impact verification	Apply selectable shock waveforms to military products requiring resistance-to-impact evaluation.	Measurement parameters meet JJG541-88 requirements for acceleration amplitude, pulse width, uniformity, and transverse motion ratio.
Battery product testing	Assess batteries and battery-related assemblies for their response to controlled mechanical shock.	A 10 kg maximum load and compact working platform support defined specimen handling limits.
Automotive component shock testing	Test automotive parts exposed to impact events during product development or verification.	The 0.2 to 18 ms pulse-duration range supports adjustment to specified pulse widths.
Transportation equipment component testing	Evaluate components used in transportation applications for resistance to mechanical impact.	Repeat-impact endurance of the half-sine waveform generator supports ongoing test schedules.

Parameter	Specification
Product Item Number	DA14
Product Type	Impact testing machine
Working Platform	200x250 mm
Maximum Load	10 kg
Peak Acceleration	20---2000 G
Pulse Duration	0.2---18 ms
Impact Force Range	500~155000 N
Available Impact Waveforms	Half-sine wave, post-peak sawtooth wave, square wave
Unit Dimensions (LxWxH)	660x700x2380 mm
Total Equipment Mass	Approximately 820 kg
Power Supply	220VAC +/-10% 50Hz, 2kVA

Parameter	Specification
Environmental Temperature	0~40 degrees C
Environmental Humidity (25 degrees C)	0~90RH%
Reliability	Cumulative mean trouble-free operating time >=5000H
Half-Sine Waveform Generator Endurance	Continuous impact count not less than 10000 times
Verification Standard	Acceleration amplitude, pulse width, uniformity, and transverse motion ratio meet the requirements of JJG541-88