

Pendulum Shock Testing Machine

PST-300

Equipped with a mechanism that is known for its reliability and effective power in performing shock testing of precision instruments, electronic components, medical products and cosmetics.

Can be set up in any location

Can be used on any type of worktable. Equipped with a double-layered shock absorber for reducing the shock during testing. Generates accelerated waveforms for more consistent testing.

Wide acceleration range

The desired acceleration can be applied to test samples within a wide range of 50~50,000m/s² (5~5,000G)

Easy-to-use test settings

A variety of test samples with different shapes and sizes can be easily set into the holder to allow for efficient three-directional shock testing.

High reproducibility

All the machine components, including the holder, are very rigid, allowing for greater compatibility with the shape and material of the buffer zone and resulting in an improved shock wave. In addition, the high precision mechanism makes it possible to apply a constant rate of acceleration even during continuous testing.

Fully automatic operation

Operation is fully automatic from the drop height setting to the rotation and drop until the predetermined amount of impact is applied to the specimen. Automatic operation applies repetitive impact for a predetermined number of times for use in endurance testing.

Generated acceleration range of

**5G~
5,000G**



Base unit

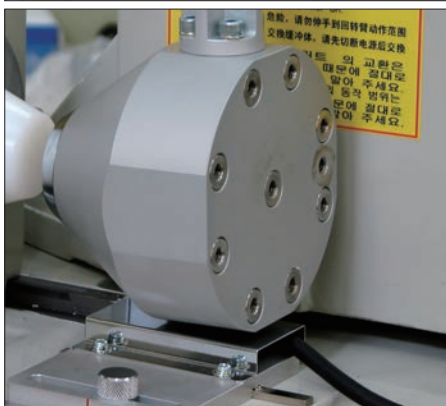
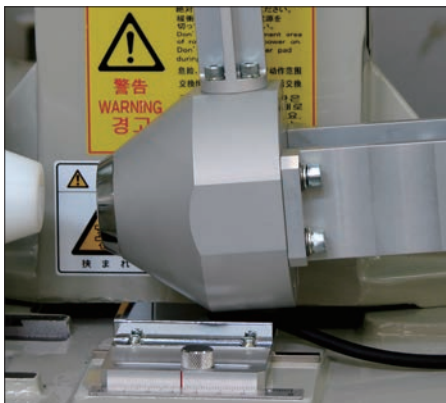
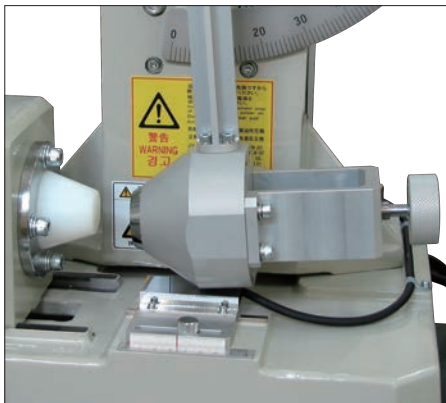
Controller

Machine dimensions when installed

620x360mm

The PST-300 Pendulum Shock Testing Machine with high-quality operating efficiency plays an active role in the field of micro device development.

The test sample holder and installation unit



*The test sample holder can be custom made to fit a variety of different shapes of test samples. Ask a sales consultant for details.

Specification

Test sample table size : 100 ϕ

Test sample maximum weight : 800g

Impact acceleration range : 50~50,000 m/s² (5~5,000G)

Pulse duration range : 11~0.2ms

Shock waveform : 1/2 sine wave

Pendulum turning radius : 300mm

Anti rebound mechanism : Mounted

Control system : Single-turn and auto cycle operation

Set count in auto cycle : 4 digits

One cycle in auto cycle : Maximum of 15 seconds

Electrical power supply : AC 100V, 1A

Test machine dimensions / weight : W620mm x D360 mm x H675mm / approx.100 kg

Controller dimensions : W380mm x D250mm x H220mm

Pad (relationship between acceleration range and operating time)

m/s ²	50~800	100~1,600	500~9,000	1,000~20,000	2,000~50,000
G	5~80	10~160	50~900	100~2,000	200~5,000
ms	11	6	1.0	0.5	0.2

* The testing machine comes standard with any 3 of the pads listed above. Additional pads are optional.

* Additional pads for use with other impact times can also be ordered. Ask a sales consultant for details.

SM-500 Acceleration Measurement and Analysis Shock Manager System

(Hardware:SMH-12, Software:SMS-500)



By combining the PST-300 pendulum shock testing machine and SM-500 acceleration measurement and analysis shock manager system(sold separately), and measurement of the drop/impact mechanism is made easier.

Shinyei Group,
Your partner for prosperous society
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Specifications and information listed in this catalog are subject to change without notice. 201511