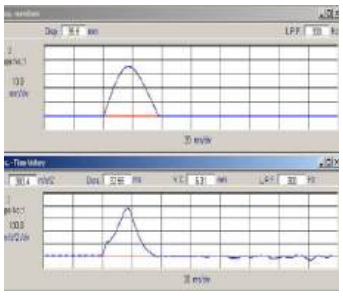
MATERIAL TESTING SYSTEM ACST series

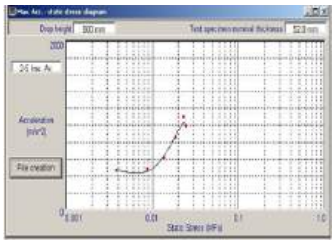
Dynamic Compression Tester for Cushioning Materials

ACST-200

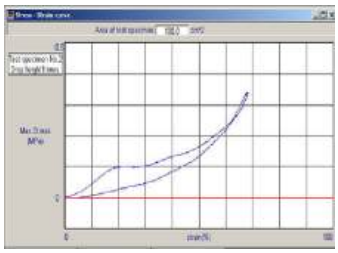
ACST can conduct the dynamic compression test to identify the characteristics of cushioning materials.
Shock response acceleration and displacement waveform of cushioning material are captured with ease when the compressive plate is dropped using this tester.



Acceleration and displacement wave form



Cushion Curve from some experimental data



Stress-Strain curve

Features

- Easy operation with the automatic controller.
- Compressive plates for each mass are variable from 2.0kg to 50kg when in full spec.
- Velocity of drop plate also can be measured via optional indicator.
- With the specialized software, the characteristics of cushioning material is analyzed as stress-strain curve, cushion curve, cushion factor, etc. for practical use in the protective packaging design.

Compliance Standard

- JIS Z0235-2002
- ASTM D 1596-02 (2009)
- MIL-C-26861-87

Specification

Model	**ACST-200**
Specimen max size (mm)	220 × 220
Fall weight (kg)	Lightweight type : 2.3 ~ 10.0
Max acceleration (m/s²)	3000 (300G)
Max drop height (mm)	1200
Size (W × D × H mm)	W565 × D740 × H2730
Capacity (kg)	480
Controller Size (W × D × H mm)	W575 × D750 × H1220
Power supply	AC200V, 3-phases, 5A

Options

Velocity measuring device VS-2	Measurement of velocity of dropped weight
Analysis software for cushion characteristics CCA-Win	・Acceleration / Displacement - Time History ・Cushion fuctor - Dynamic Stress Diagram ・Maximum Acceleration - Static Stress Diagram ・Maximum Displacement - Static Stress Diagram ・Making of Test Data Record Table etc.

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