



GHI Systems

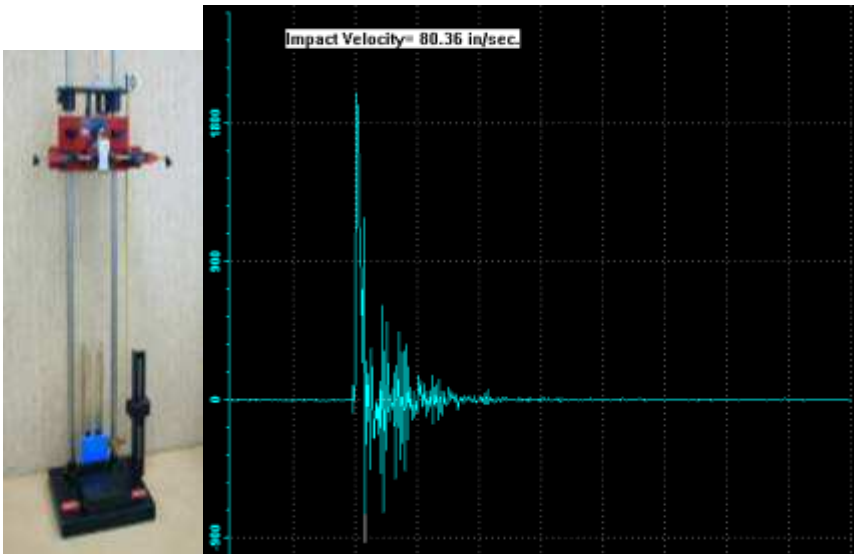
Newsletter v.903

Controlled-Impact Free-Fall Shock Machine

The Environmental Shock Simulation Machine is a free-fall, hard-surface impact machine that simulates the environmental handling threat which small or hand-held products must survive. The **ESSM** controls product orientation at impact with an adjustable grasping assembly that maintains product orientation during free fall, then releases it just before impact on a selectable surface. The threat drop height is set by the user and is precisely verified by impact velocity measurement.

The **ESSM** produces realistic shocks on small products that are identical to those experienced in the handling environment. It allows you to drop your product onto a surface of your choice, from a free-fall height you select, with impact orientation you control, and documented impact velocity, while facilitating high speed filming for dynamics analysis.

- Tests Fragility of Hand-Held or Portable Products such as Cell Phones, iPods, Cameras, Medical Devices, Disk Drives, Containers, Packaging Systems
- Adjustable Drop Height
- Controlled Impact Orientation
- Selectable Impact Surface
- Duplicates Real-World Handling Threats
- Impossible Test for Standard Programmed Shock Machines
- Transient Recorder Instruments Product to Measure and Document Actual Shock
- Easy Access for High-Speed Video for Impact Dynamics Analysis
- SRS Analysis Software
- Velocity Sensor Verifies Impact Speed
- Simulates Real-World Shock Dynamics



2,000 g Shock Waveform from 2.5" hard disk drive dropped on corner from 10"

There is a high-speed video of the machine in operation on our web site at:
<http://www.ghisys.com/essm.html>

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