

HST-DIT1800E Ejection Impact Testing Machine



Picture just for reference

Application

The ejection Drop Weight Impact Testing machine is mainly a testing equipment for testing the impact resistance of various metal and non-metal pipes and plates (including various non-metal materials such as plastics, ceramics, nylon, building materials, etc.). The impact force value sensor and test system are used, and the high-speed data acquisition card uses the oscilloscope impact sensor to measure the load and deformation transient values during the fracture process of the impacted sample, that is, the impact absorbed energy, the force-displacement-energy curve and the curve during the impact process.

Standards

ASTM D 7136/D 7136M-05, ASTM D 3763-02, ASTM E 23-07a

Specifications

Model	HST DIT 1800E
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Impact energy	6~1800J
Impact speed	1.6~20m/s
impact height	0.1~1.2m(Simulation up to 20m)
maximum impact speed	7m/s~20m/s (70kg~3kg)
Hammer lifting speed	1m/min~3m/min Continuous adjustable
Hammer head positioning accuracy	1mm
Maximum load of impact force sensor	100kN
Impact force value sensor static linear error	Full range $\pm 1\%$ (10%~50%FS) Point by point $\pm 2\%$ (50%~100%FS)
A/D sampling resolution	16bits
Maximum sampling frequency	2MHz
Frequency response	500kHz
Channel storage capacity	60000
Experimental dynamic error	<2%
Test area space	720mm×660mm×580mm
Testing machine dimensions	920×860mm×3300mm
Testing machine net weight	1200kg
power supply	220V $\pm 10\%$, 50Hz $\pm 10\%$, 3kw

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