HDT-2 Dynamic performance tester of personal fall arrest systems

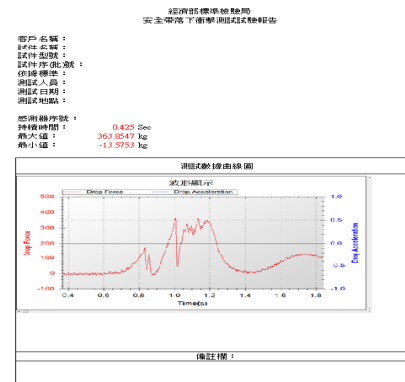**Features:**

- Dynamic performance testing of full body harnesses (Safety harness)
- Dynamic performance testing of self-retracting lifelines
- Dynamic performance testing of safety belt
- Dynamic performance testing of safety strap

Applications:

- Industrial safety belts, harnesses and safety lanyards test
- Full-Body Harness, EN 361:2002), ANSI A10.14, ANSI Z359.1, AS/NZ 1891.1, CSA Z259.10, OSHA 1926.502, ISO 10333-1
- Body Belts, ANSI A10.14, JIS M7624
- BS 1397

Description:

The HDT-2 apparatus of Advance Instrument (AI) are computer controlled, electromechanically operated dynamic load measuring devices. The dynamic load measuring unit can perform drop tests. It is for the investigation of various forms of harness, self-retracting lifelines or textile.

The system consists of the dynamic load measuring units, datum acquisition unit, testing software, control system and the test frame. The facility is designed for dynamic load testing.

The electromagnet device that is release the dummy torso with trigger the acquisition board to acquire load data.

The date acquisition rate is specified by the operator's computer software. The measured value from the load cell will be displayed on the computer screen by means of the software. The computer saves both the load data automatically. The data will be available for further management in ASCII (*.csv) format with test graphic.

The basic design of the unit includes a dynamic load, with signal conditioner with data acquire device. The computer controls the data acquire device and saves the measured data.

The HDT-2 instrument is capable to perform dynamic load tests. Operational parameters are set up through the user-friendly software that allows generator of report with Excel format .

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Specification:

- HDT-M1 Personal fall arrest systems dynamic performance test units
  - Dynamic Load Cell : range 20 \ 30 \ 50 kN
  - Load Cell Fixture
  - 7011 Strain Gage Amplifier, 7012C-HDT Control Enclosure with power supply
  - Dynamic Data acquire board
  - Personal Computer with printer
  - HDT-AP2 Harness Dynamic load measuring software

- HDT-RDD dummy torso electromagnet release device
  - Force >500 kgf

- HDT-HB1 Torso Test Mass
  - 75Kg\ 100Kg \160Kg

- HDT-ACM1 Accelerometers with Signal Conditioning Amplifier
  - HDT-ACC-120 Accelerometers IEPE voltage output 50g
  - 7611 IEPE Voltage Signal Conditioning Amplifier

- Fall protection test tower Testing Frame (Fall protection test tower)
  - Custom frame widths, column space, and frame high to suit any test setup
  - Electric hoist
  - Scale

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