

HT225D Digital Rebound Apparatus has the following characteristics: integrated design, small in size; adopt non-contact optical coupler sense to realize data collection, without changing the original physical structure of mechanical rebound apparatus, in which way the optical coupler sensor has no contact nor friction with the mechanical part of rebound apparatus and thus its service life is extended; inside of the apparatus, national curve and local curve are provided, can be set optionally by yourself; angle, tested surface, pumping or not, carbonization depth and other parameters can be set on site; after detecting data of original value, the original rebound value, testing zone strength value, component overall strength value and other data of the completed component can be checked immediately; self-contained access control further reflects the fairness and safety of the test; equipped with USB data transmission interface, able to transfer data to computer; computer software saves the test data as Excel format, and reporting format can be created immediately, simple and convenient for the later software process; memory space of original data are as much as 1000 components.

### Specification

#### Mechanical Index of Rebound Apparatus

Metrological verification specifications: Verification Regulations of Rebound Apparatus (JJG\_817-2011)

Impact energy: 0.225kgm (2.207J±0.100J), for testing ordinary building and bridge construction

Rigidity of recoiling tension spring : 785±30.0N/m

Length of pointer : 20.0±0.2mm

Friction of pointer : 0.65±0.15n

Spherical radius of recoiling rod : R25±1.0

Active length of recoiling tension spring : 61.5±0.3mm

Impact length of recoiling rod : 75.0±0.3 mm

Initial bouncing position of recoiling hammer : graduated scale"0"+1

Calibration value on steel anvil : 80±2

Graduating position "100" of shell calibration: overlap with the side of positioning gap of calibrator cover plate of the rebound apparatus.

Consistency of test indicating value : ≤±1

Operating Temperature : -4°C-+40°C

### Key features

High contrast OLED display

All setup can be made on site

Automatic calculating compressive strength

Automatic correction of impact direction

All data will be stored in memory

All data can be transferred to PC by USB cable or blue tooth(optional)

Dual display for analogue ruler and digital value

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## Specifications

Model	HT-225D	HT-75D	HT-20D
Display	OLED digital		
Measuring range	10-100N/mm <sup>2</sup>		1-25N/mm <sup>2</sup>
Accuracy	±0.1R		
Impact energy	0.225kgm (2.207Nm)for testing ordinary building and bridge construction	0.075kgm (0.735Nm)for testing small and impact-sensitive parts of concrete or artificial brick	0.020kgm (0.196Nm)for testing mortal or clay of products
Communication	USB2.0 or Bluetooth(optional)		
Storage	data for 4000 concrete structures		
Operating temperature	-40°-60°C		
Power supply	3.7V Li-ion rechargeable battery charged via USB port		
Dimension (mm)	280x75x60		
Net weight	1.1kg		

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