

DIGITAL CONCRETE TEST HAMMER

HT-225D/HT-75D/HT-20D

HT-225D is an integrated digital concrete test hammer which combines data processor and test hammer into one unit. It is widely used for non destructive testing quality of concrete and building materials in finished structure or prefabricated blocks. From its rebound value, the compressive strength of concrete can be calculated out automatically. All testing data can be stored in memory and transferred to PC by USB cable or wireless by Blue tooth. ●



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

Specifications

Model	HT-225D	HT-75D	HT-20D
Display	OLED digital		
Measuring range	10-70N/mm ²		1-25N/mm ²
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		

Digital Concrete Hammer

Standard package

HT-225D/HT-75D/HT-20D main unit	1
Grinding wheel	1
USB cable	1
USB charger	1
Software CD	1
Operation manual	1
Carrying case	1

Optional accessory

Bluetooth module

Standard package - HT-225A

- HT225A main unit 1
- Grinding wheel 1
- Conversion table 1
- Operation manual 1
- Carrying case 1

Standard package - EMT220

- EMT220 main unit 1
- Short feeler lever (only for integrated type) 1
- Acceleration transducer (only for separate type) 1
- Transducer connection cable (only for separate type) 1
- Thermo electro couple transducer (only for EMT220 with temperature measuring function) 1
- 6F22 cell 1
- Operation manual 1
- Carrying case 1

Optional accessories

- Long feeler lever
- Earphone Leather sheath
- Signal output wire

Standard package - EMT260A

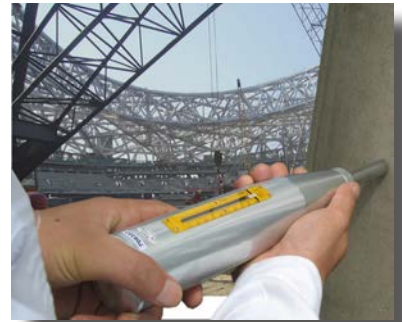
- EMT260A main unit 1
- Reflective tape 1
- Support converter 1
- Battery 2
- Operation manual 1
- Carrying case 1

Standard package - EMT260B

- EMT260B main unit 1
- Contact tip assembly 1
- Contact tip(concave and convex) 1
- Linear contact wheel 1
- Operation manual 1
- Carrying case 1



CONCRETE TEST HAMMER HT-225A



When testing the strength of concrete, the concrete test hammer uses a certain elastic force to transit the impact force of an impact hammer to the surface of concrete, its initial kinetic energy redistributes, a part of energy in the form of plastic deformation or residual deformation is adsorbed by the concrete, and another part of energy which is proportional to the surface hardness is transmitted to the impact hammer, making the hammer resile to a certain height, then the strength of the concrete is derived from the proportional relation between the height of resilience and the concrete strength.

With the merits of simple structure, easy correction, maintenance and repair, and portability, the concrete test hammer is widely used in civil engineering and construction industry for testing the strength of concrete. Compared to other nondestructive testers, the concrete test hammer is an economical and practical nondestructive testing instrument.

HT-225A is used for testing the strength of various concrete members (slab, beam, column, truss) of normal building strength and bridge.

- ✓ Nominal kinetic energy: 2.207J(0.225kgf.m)
- ✓ Flip tension spring rigidity: 7.84N(0.80kgf)/cm
- ✓ Punch advance for impact hammer: 75mm
- ✓ Impact surface hardness value between impact hammer and rod: HRC59-63
- ✓ Maximum breakout friction of pointer system: 0.49-0.78N(50-80g)
- ✓ Mean-value of steel -anvil rating of concrete test hammer: 80±2
- ✓ Standards: ISO/DIS 8045, EN 12504-2, ENV 206, DIN 1048 part 2, ASTM C 805, ASTM D 5873, NFP 18-417, B 15-225, JGJ/T 23-2001, JJG 817-1993
- ✓ Dimension: Ø60x280mm
- ✓ Net weight: 1kg

PORTABLE VIBRATION METER EMT220

Vibration transducer:

Integrated, annular shear type acceleration transducer (only for integrated type)

Separate, built-in electric charge amplifier, shear type acceleration transducer (only for separate type)

Temperature transducer:

Type K thermoelectric couple transducer (only for EMT220 with temperature measuring function)

Detector: Root Mean Square

Vibration measurement scale:

Displacement: 0.001-1.999 mm (peak to peak)

Velocity: 0.01-19.99 cm/s (r.m.s. value)

Acceleration: 0.1-199.9 m/s² (peak value)

Vibration acceleration: ≤ 199.9 m/s² (peak value)

Temperature measurement scale:

-20-400°C(only for EMT220 with temperature-measuring function)

Accuracy:

Vibration measurement: ±5% Measurement value; ±2 Digits

Temperature measurement: ±1% Measurement value; ±1 Digit

Vibration Frequency Range:

10-1 kHz (Normal type)

5-1 kHz (Low frequency type)

1-15 kHz (only at "HI" position for acceleration)

Display: Digits liquid crystal display

Sample period: 1 second

Vibration measurement value readout:

Displacement: Peak to peak value (r.m.s.×2√2)

Velocity: Root mean square (r.m.s.)

Acceleration: Peak value (r.m.s.×√2)

Readout-keeping function:

Readout of vibration / temperature value can be remembered after releasing the Key (Vibration / Temperature Switch)

Output Signal:

2V AC (peak value) (load resistance above 10 kΩ at full measuring scale)

Power supply:

6F22 9V laminated cell

Battery life about 30 hours for continuous use

Power on / off:

Power up when pressing Measure Key (Vibration / Temperature Switch)

Power automatically shut off after releasing the Measure Key for one minute

Operating condition:

Temperature: 0-50°C

Humidity: ≤ 90% RH

Dimension: 185mm×68mm×30mm

Net weight: 200g



PORTABLE OPTICAL TACHOMETER EMT260

- ✓ Unique ergonomic design provides direct line-of-sight viewing of display and target
- ✓ Easy reading 5 digit LCD display
- ✓ On-target and low battery indicator
- ✓ Maximum, minimum and last measurement of rotational speed, frequency, cycle, linear speed and counter.

Specifications

Speed Ranges:

Rotational speed: 1-99999r/min

Frequency: 0.0167-1666.6Hz

Cycle: 0.6-60000ms

Counter: 1-99999

Linear speed: 0.1-3000.0m/min
0.0017-16.666m/s

Accuracy: ±0.005% of reading

Display: 5 digit LCD display

Input signal: 1-5VP-P Pulse Input

Output signal: TTL compatible Pulse Output

Power: 2x1.5V batteries

Dimension (LxWxH):

128mmx58mmx26mm

Net weight: 90g

