

# Electric Pencil Hardness Tester

**Model: QHQ-B**

**Application :**

This machine is suitable for all kinds of coating hardness test of products, such as: the shell of mobile, MP3/MP4, notebook computer and all kinds of home appliances such as digital products shell coating hardness testing. Machines for electric control, through an ac adjustable speed motor drive, to achieve around mobile, low noise, stable.



**Features :**

1. It is suitable for testing the hardness of paint, especially for metal coating, decorative materials, synthetic leather, etc.
2. The test method of pencil hardness tester meets the requirements of ASTM D333, ISO 15184, BS 3900-E19, ECCA-t4/1
3. Pencil hardness tester uses the standard hardness to scratch the surface of the tested product. According to the standard pencil hardness mark, to determine the hardness of the product surface.

**Test theory :**

The pencil hardness tester is mainly composed of a pencil holder and a test bench, and the pencil holder and a column are composed of four connecting rods, which ensures that the weight of the weight acts vertically on the intersection of the pencil lead and the test bench, and makes the pencil and the test bench form an angle of  $45^\circ$  and remain unchanged. The test bench can move horizontally and longitudinally. It can be used to fix the coating sample plate and make the sample plate slide towards the scratch direction. The pencil will draw the corresponding track on the test piece. Using different pencils to draw different marks, the hardness of the coating can be determined.

## Test method :

Fix the sample on the horizontal table, hold the sharpened pencil and make it form a 45 ° angle with the coating, and push it forward with force at a speed of about 1 mm / s. The force is appropriate to break the edge of the pencil or plow the coating. Starting from the hard pencil of Zui, draw 5 times with each grade of pencil. If the coating can be broken twice in 5 times, replace it with a softer pencil until the pencil that can not be broken at most 4 times in 5 times is found. The pencil hardness is the pencil hardness of the coating to be tested.

## Technical specifications :

Test Angle	45 degrees
Load	500g~750g~750g, adjustable
Move speed	5~100RPM/ min, adjustable
Trip distance	40 mm
Platform	about 12x17cm, samples can be fixed
Accessories	Standard pencil : 6B~6H, total 13pcs Standard weights : 500g 1pcs, 250g 2pcs
Power	AC220V, 50HZ

## Different models can be chosen :



QHQ-A manual model



QHQ-B1 digital model



QHQ-B1 Touch screen model

Real imagines :



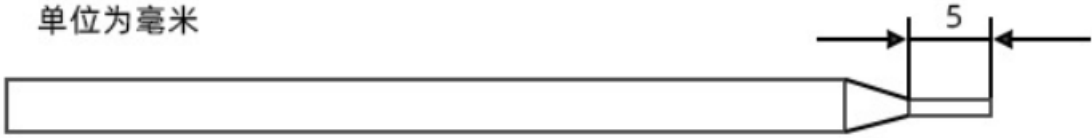
Digital display model, the test circle will be showed on the tachometer, other contol part will be use button control.



Touch screen model, every setting can be showed directly on the touch screen , much easy to cooperate

## How to use pensile ?

unit : mm  
单位为毫米



6B.5B.4B.3B.2B.B.HB.F.H.2H.  
3H.4H.5H.6H共14种三菱铅笔可选

Japan brand



6B.5B.4B.3B.2B.B.HB.H.2H.3H.  
4H.5H.6H共13种中华牌铅笔可选

China brand



## Professional packing

**We have professional packaging teams and shipping forwarder to pack and deliver your products safely!**

- ❖ Out packing: Standard export wooden case.
- ❖ Inner packing: With careful stretch film wrap products, hard wood board + strong bandage to fix corners.
- ❖ Checking teams: Specialized staff to inspect and classified your goods.



**What we produce? (always accept customize)**

- |                              |                          |                                |
|------------------------------|--------------------------|--------------------------------|
| 1. Universal tensile testers | 2. Hardness testers      | 3. Environmental chambers      |
| 4. Mobile/Laptop testers     | 5. Paper&package testers | 6. Abrasion resistance testers |
| 7. Insertion force tester    | 8. Color testers         | 9. Rubber/plastic testers      |
| 10. Fabric testers           | 11. Wire testers         | 12. Other testers              |