



THV-30DX, THV-50DX, THV-100DX, THV-120DX Touch Screen Digital Vickers hardness tester with(Touch screen, Digital eyepiece, Motorized Turret)



Main Features:

1. The user can customize the standard test force;
 2. Electric load closed loop control, automatic load is applied;
 3. Test force automatic correction, improve the accuracy of the force a number of levels;
 4. The hardness value can be automatically corrected as per standard block different forces,;
 5. Easy use, it do no need to install weights, special transducer for loading test force;
 6. Touch screen interface, easy to operate, in any language version;
 7. Using a modular design, easy maintenance;
 8. Large sample space for placing a large sample;
 9. Save more samples and testing information;
 10. Set up a password-protected setup parameters;
 11. U-disk data saved directly to EXCEL format for easy editing and processing;
 12. It can be easy for upgraded to Automatic Vickers hardness tester.
 13. Equipped with Motorized Turret for indenter and Object lens
- Equipped with Touch screen LCD & operation panel.
Test both HV & HK scales (with optional Knoop tester)

Advantage:

1. High Good Values
2. Good Quality (ISO Certification)
3. Knoop hardness can be measured with optional indenter
4. Stepless adjustable brightness light source;

Applicationfields:

Heat treatment, carbide, quench hardened layer,
the surface coating layer, steel,
non-ferrous metal and small and thin shape parts, etc.

Application materials:

--Ferrous metals, non-ferrous metals, IC thin sections,
--coating layer, ply-metals
--Glass, ceramics, agate, precious stones, thin plastics, etc
--Hardness test such as that on the depth
and gradient of the carbonized layers and quenched hardened layers.



Technical Specifications:

| Model | THV-30DX | THV-50DX | THV-100DX | THV-120DX |
|------------------------------------|---|--|---|---|
| Turret Type | Manual | Manual | Manual | Manual |
| Test Force | 0.3Kgf (2.94N), 0.5Kgf (4.90N), 1.0 Kgf (9.8N), 2.0Kgf(19.6N), 2.5Kgf(24.5N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10.0Kgf(98.0N), 20.0Kgf(196N), 30.0Kgf(294N) | 1.0 Kgf(9.8N), 2.0Kgf(19.6N), 2.5Kgf(24.5N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10.0Kgf(98.0N), 20.0Kgf(196N), 30.0Kgf(294N), 40.0Kgf(392.0N), 50.0Kgf(490N) | 1.0 Kgf(9.8N), 2.0Kgf(19.6N), 2.5Kgf(24.5N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10.0Kgf(98.0N), 20.0Kgf(196N), 30.0Kgf(294N), 50.0Kgf(490N), 100.0Kgf(980N) | 2.0Kgf(19.6N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10.0Kgf(98.0N), 20.0Kgf(196N), 30.0Kgf(294N), 50.0Kgf(490N), 60.0Kgf(588N), 100.0Kgf(980N), 120.0Kgf(1176N) |
| Min. Test Unit | 0.125μm (Optional: 0.0625um) | | | |
| Max Height of Specimen | 180mm | | | |
| Distance from Indenter to Out Wall | 160mm | | | |
| Hardness Test Range | 5HV~5900HV | | | |
| Method of Test Force Applied | Automatically Load and Unload Test Force | | | |
| Test Microscope Amplification | 100 ^X (observation)、200 ^X (Measuring), (Optional for :50 ^X ,400 ^X) | | | |
| Object Lens Amplification | 10X、20X Optional for: 5 X、40X(50X) | | | |
| Output | U disk | U disk | U disk | U disk |
| Dwelling time | 0~99S (input any time by key) | | | |
| Dwell Time | 0~99s (1 second as a unit, optional key in) | | | |
| Power Source | AC220V+5%,50-60Hz | | | |
| Overall Dimension | 560*260*670mm | | | |
| Net weight | About 40Kg | | | |

Standard Accessories:



| Item | Quantity | Item | Quantity |
|--------------------------|----------|----------------------------------|----------|
| Weight | 3 | Vickers hardness block 550-750HV | 1 |
| V shape testing table | 1 | Vickers hardness block 300-550HV | 1 |
| Round flat testing table | 1 | U-disk | 1 |
| Power cable | 1 | Big testing table | 1 |
| Spare Fuse (2A) | 2 | Objective 10X | 1 |
| Operation Manual | 1 | Product Certificate | 1 |

Optional Accessories:

1. An objective lens 5X, 40X, 50X
2. Knoop indenter;
3. 15X eyepiece micrometer;
4. Digital X-Y stage: X, Y axes significant position accuracy: 1 micron;
5. Vickers indentation hardness measuring device screen:
For Digital Brinell / Micro / Vickers indentation displayed on the screen, replace the eyepieces, determine indentation border, in order to measure the hardness;
6. Vickers measuring software:
The indentation clearly displayed on the computer screen, and automatic or manual measurements;
7. Universal clamps, flattening device, insert the fixture;
8. Various hardness block, can identify with the third party, such as a certificate Metrology Institute;
9. Various supplies sample preparation.