

► **HST-HVS5/10/30/50ZC**

**Digital Display Automatic Turret**

**Vickers Hardness Tester With Load Cell**

◆ **PRODUCT FEATURES**

- The optical system designed by senior optical engineers not only has clear images, but also can be used as a simple microscope with adjustable brightness and comfortable vision.
- Cast aluminum shell molding, the structure is stable and not deformed, high-grade automotive paint, anti-scratch ability, use for many years is still bright as new.
- On the industrial display screen, the hardness value can be visually displayed, the hardness can be converted, the test method, the test force, the time of the charge and the number of measurements, and the test process can be intuitively understood.
- It adopts a closed-loop loading control system with high test force accuracy and good repeatability and stability of the indicated value.
- Large LCD screen display.
- Observation - test - measurement of the position switch by the automatic turret
- Built-in printer; direct printing of test results and test data;



◆ **TECHNICAL PARAMETERS**

| Model                              | HST-HVS5ZC                                                                                                                                                                                                                               | HST-HVS10ZC | HST-HVS30ZC | HST-HVS50ZC |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|-------------|
| Turret Type                        | Automatic                                                                                                                                                                                                                                |             |             |             |
| Test Force                         | 0.3kg(2.94N), 0.5kg(4.9N) 0.3kg(2.94N), 0.5kg (4.9N) 1kg(9.8N),3kg(29.4N), 1kg(9.8N), 2kg(19.6N), 1kg (9.8N), 3kg (29.4N), 5kg(49N),10kg(98N), 3kg(29.4N), 5kg (49N) 5kg (49N), 10kg (98N) 20kg(196N), 30kg(294N) 30kg(294N), 50kg(490N) |             |             |             |
| Display                            | 5-digit hardness value, 4-digit diagonal length (D1, D2), Hold time, number of tests, average, standard deviation, return                                                                                                                |             |             |             |
| Loading control                    | Automatic (load/hold/uninstall)                                                                                                                                                                                                          |             |             |             |
| Test mode                          | HV/HK                                                                                                                                                                                                                                    |             |             |             |
| Objective lens and indenter switch | Automatic switching                                                                                                                                                                                                                      |             |             |             |
| Measurement multiple               | Both 10X and 40X can be measured with double objective lens                                                                                                                                                                              |             |             |             |
| Optical channel                    | Dual optical channel (eyepiece and CCD camera channel)                                                                                                                                                                                   |             |             |             |
| Test force retention time          | 1~99s                                                                                                                                                                                                                                    |             |             |             |
| Optical system                     | Objectives: 10×, 20× (Customizable 40X) Eyepiece Magnification: 10× (optional 15X) Total magnification (μm): 100×, 200× Measuring range: 800μm 400μm Resolution :1μm 0.5μm                                                               |             |             |             |
| Hardness test range                | (5-3000)HV                                                                                                                                                                                                                               |             |             |             |
| XY test stand (optional)           | Size (mm): 100×100 Travel range (mm): 25×25 Minimum reading (mm): 0.01                                                                                                                                                                   |             |             |             |
| Maximum height of specimen         | 165mm                                                                                                                                                                                                                                    |             |             |             |
| Maximum width of specimen          | 130 mm(distance from the center line of the indenter to the wall)                                                                                                                                                                        |             |             |             |
| Meet standard                      | GBT4340.1, GBT4340.2, ASTM_E92                                                                                                                                                                                                           |             |             |             |
| Conversion of hardness value       | According to GB1172-99 and ASTM standards                                                                                                                                                                                                |             |             |             |
| Accuracy                           | JJG260-91, JIS B 7725, JIS B 7734, GB/ T3430.2-99, ASTM E-384, ISO 6507-2, ISO4546                                                                                                                                                       |             |             |             |
| voltage                            | AC220V/50HZ                                                                                                                                                                                                                              |             |             |             |
| Overall size                       | 585*200*630mm                                                                                                                                                                                                                            |             |             |             |
| Weight                             | 42kg                                                                                                                                                                                                                                     |             |             |             |

◆ **STANDARD CONFIGURATION**

| Name                       | Quantity | Name                | Quantity |
|----------------------------|----------|---------------------|----------|
| Hardness tester host       | 1        | Dust cover          | 1        |
| Cross measurement platform | 1        | Power cable         | 1        |
| Flat clamping table        | 1        | Fuse 2A             | 2        |
| 10X micrometer eyepiece    | 1        | Product Certificate | 1        |
| Vickers hardness block     | 2        | Instruction Manual  | 1        |
| Level adjustment screw     | 4        |                     |          |