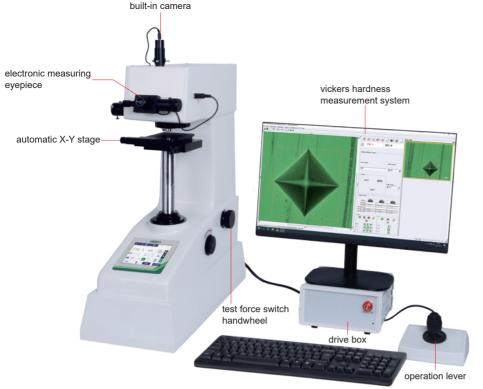
AUTOMATIC VICKERS HARDNESS TESTER

MOTOR DRIVEN TURRET









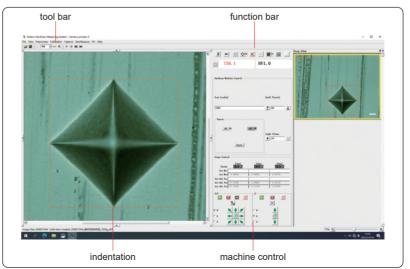


automatic X-Y stage



desk (optional)

- Suitable for vickers hardness determination of various metals and non-metal materials, effective depth and heat affected area measurement, especially suitable for measuring workpieces hardness gradient distribution curve and surface hardness after heat treatment, effective hardening laver depth
- Automatic switch between the indenter and objective lens
- Z-axis automatic focus, X, Y axis automatic movement, can be for multi-point continuous measurement
- Automatic moving table by built-in step motor, high positioning accuracy, good repeatability, fast moving speed, high efficiency
- Automatic moving table bidirectional movement, equipped with safety devices to avoid misoperation
- The software can control the hardness tester hardware operation, two-way communication with each other
- The image acquisition device has fast reaction speed, high automatic measurement accuracy and good repeatability
- The system can automatically generate Word or Excel test report, and the report template can be modified
- According to ISO 6507



vickers hardness measurement system (included)

AUTOMATIC MEASUREMENT, CONTROL SYSTEM

| Hardness tester control | 1.automatic turret, automatic loading, automatic measurement 2.automatic display of test force, load dwell time, illumination brightness | | |
|---|---|--|--|
| Automatic control of X-Y stage | software system automatic control of X-Y stage movement | | |
| Measurement mode | 1.automatic mode: automatic loading, automatic measurement, automatic display of measurement results 2.manual measurement mode can be selected | | |
| Automatic measurement | about 0.3sec of one indentation | | |
| Measurement repeatability | ±1% (700HV/5kgf) | | |
| The smallest indentation that can be measured | about 10µm (automatic measurement) | | |
| Data output format/ edit functions | 1.inspection reports can be customized according to customer requirements 2.the depth of hardened layer is shown in table form 3.output various measurement data, hardness table, hardening layer depth, maximum value, average value, minimum value, image with hardness value | | |

AUTOMATIC X-Y STAGE

| Drive motor | step motor | | |
|----------------------------------|---|--|--|
| Drive control | movement control by software, speed is adjustable | | |
| Dimension | 110×110mm | | |
| Maximum travel distance | 50×50mm | | |
| Minimum travel distance | 1µm | | |
| Movement speed | 1~10mm/sec, speed can be adjusted | | |
| Displacement repetition accuracy | within 1µm | | |

SPECIFICATION

| Code | HDT-AVH05 | HDT-AVH10 | HDT-AVH30 | HDT-AVH50 | |
|-------------------------------|--|--|--|---|--|
| Test force | 0.3kgf, 0.5kgf, 1kgf, 2kgf, 3kgf, 5kgf | 0.3kgf, 0.5kgf, 1kgf, 3kgf, 5kgf, 10kgf | 1kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf | 1kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf | |
| Vickers scales | HV0.3, HV0.5, HV1, HV2, HV3, HV5 | HV0.3, HV0.5, HV1, HV3, HV5, HV10 | HV1, HV3, HV5, HV10, HV20, HV30 | HV1, HV5, HV10, HV20, HV30, HV50 | |
| Converted scales | HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T | | | | |
| Range | 5~3000HV | | | | |
| Length measurement resolution | 0.01µm | | | | |
| Objective/indenter switch | motor driven turret | | | | |
| Stage lifting | manual/electric | | | | |
| Focus mode | Z-axis autofocus | | | | |
| Load control | automatic (load/dwell/unload) | | | | |
| Load dwell time | 1~60 second | | | | |
| Objective | 10X, 20X | | | | |
| Eyepiece | 10X | | | | |
| Total magnification | 100X (for measurement or observation), 200X (for measurement) | | | | |
| Max. workpiece height | 160mm | | | | |
| Max. testing width | 130mm (from the center of indenter to the wall of main body) | | | | |
| Pixel | 5M | | | | |
| Communication interface | RS232 | | | | |
| Power supply | 220V, 50/60HZ | | | | |
| Dimension | 630×300×800mm | | | | |
| Weight | 75kg | | | | |

STANDARD DELIVERY

| Main unit | 1 pc |
|-------------------------------------|--------------|
| 10X, 20X objective | 1 pc of each |
| Vickers indenter | 1 pc |
| Hardness test block | 2 pc |
| Automatic X-Y stage drive box | 1 pc |
| Vickers hardness measurement system | 1 pc |
| Computer | 1 pc |
| Auti-dust cover | 1 pc |

OPTIONAL ACCESSORY

| Hardness test block | |
|---------------------|-------------|
| Desk | HDT-DESK |
| OFFICE software | 7313-OFFICE |