

HV-1000Z Digital Micro Vickers Hardness Tester



The picture is for reference only

1. The Micro Vickers Hardness Tester is a new type high-tech product combining the optical, mechanic and electronic techniques; with a novel and pleasing appearance, operational functions and reliability, besides, it has a special characteristic that the indenter and the objective switching are automatically rotated to complete, hence it is an ideal instrument for the testing of micro-hardness.
2. Made with a precise design in the field of mechanics, CPU control of the testing process in the electric field, and adopted the highly clear optic testing system in the field of optics, its main functions are as follows:
 - 2.1 The selection of HV and HK scale;
 - 2.2 Automatically switched between the indenter and the objective;
 - 2.3 Inputting by means of the touch keys on the operating board, presetting of the dwell time for test force, regulation of the intensity for measuring light source;
 - 2.4 After keying in the diagonal line length of indentation through soft keys, the hardness value will be automatically shown on the screen.
3. According to the particular requirements of the client, the instrument can be equipped with CCD device. The instrument is suitable for testing the micro and thin pieces, the parts with the permeated and coated surface, it is also fit for testing Vickers and Knoop hardness value for the crisp materials such as the agate, glass, ceramics and it is, therefore, an ideal hardness measuring instrument for the scientific research institutes, the universities and colleges, the industrial production units and the metrological institutes using with for studying and measuring.

Technical specifications

1. Test force: 0.098N(10gf), 0.245N(25gf), 0.49N(50gf), 0.9807N(100gf),

- 1.961N(200gf), 2.942N(300gf), 4.903N(500gf), 9.807N(1000gf)
2. Displayed Hardness Value Hardness Range Max Tolerance
 (200~300) HV0.05 ±5.0%
 (400~500)HV0.1、 (700~800) HV0.2 ±4.0%
 (700~800)HV0.5、 HV1 ±3.0%
3. Test force application method: automatic loading and unloading
4. Indenter and objective shifting method: automatic shifting
5. Optical system:

Objective	10×(Observation)	40×(Measurement)
Measuring Eyepiece	10×	
Total Amplification	100×(Observation)	400×(Measurement)
Resolution Rate		0.25μm

6. Dwell time of the test force: 0~60s (5 seconds as a unit)
7. Max. height of the specimen: 100 mm
8. Distance between the center point of the indenter and the exterior panel: 98mm
9. Weight of the main body: 30kg or so
10. Power source: AC220V/50~60Hz
11. Dimension (L×W×H): (480×305×545)mm



Authentication Certificate of Quality Management Systems

Registration No. 19924Q01775R1S

This is to certify that

JINAN HENSGRAND INSTRUMENT CO., LTD.

Unified Social Credit Code: 91370104684680659H

Registered/Office/Production Address: No. 4915, Jingshi
West Road, Huaiyin District, Jinan City, Shandong Province

Is in conformity with:

GB/T 19001-2016/ISO 9001:2015

The certificate is valid for the following scope:

Trial assembly and sales of equipment

This certificate should be used effectively with the legal requirements of the administrative license,
qualification license, compulsory certification, which the certification scope involved.

In the case that the organization regularly receives surveillance assessments,
the certificate shall be valid when used together with the Quick Response Code.

Date of Issue: 2024-12-31
Date of Expiry: 2027-12-30
Date of Initial Certification: 2021-12-31
Date of Change: 2024-12-31


General Manager



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C182-M

China Standard Huaxin (Beijing)
Certification Center Co., Ltd.



Address of Certification Authority: 5 Floor, YuQuan Building, No.3 Shijingshan Road, Shijingshan District, Beijing. Tel: 010-88255986 P.C.: 100049
Note: The detailed information is available on the Certification and Accreditation Administration of the People's Republic of China official website
(www.cnca.gov.cn) the authority's website(www.cshcc.cn) and the Quick Response Code on the left.



MACHINERY DIRECTIVE ATTESTATION OF CONFORMITY

Technical file of the company mentioned below has been inspected and audit has been completed successfully.

2006/42/EC Machinery Directive Annex VIII has been taken as references for these processes.

Company Name : **JINAN HENSGRAND INSTRUMENT CO., LTD.**
Company Address : NO.4915, WEST JINGSHI ROAD, JINAN, CHINA
Related Directives and Annex : **2006/42/EC Machinery Directive/Annex VIII**
Related Standards : **EN ISO 12100:2010, EN 60204-1:2018**
Product Name : **TESTING MACHINE**
Report No and Date : TCF-JHIC230128-MD
Product Brand/Model/Type : WDS-1, WDS-2, WDS-3, WDS-5, WDS-10, WDS-20, WDS-30, WDS-50, WDS-100, WDS-200, WDS-300, WDS-500, WDW-1, WDW-2, WDW-3, WDW-5, WDW-10, WDW-20, WDW-30, WDW-50, WDW-100, WDW-200, WDW-300, WDW-500, WDW-600, WDW-1000, WE-300, WE-600, WE-1000, WE-2000, WEW-300, WEW-600, WEW-1000, WEW-2000, WAW-300, WAW-600, WAW-1000, WAW-2000, WAW-3000, WAW-5000, WAW-6000, LAW-1000, JB-300B, JBS-300, JBW-300, JB-500B, JBS-500, JBW-500, JBW-750, CST-50, VU-2Y, VU-1S, DWC-40, DWC-60, DWC-80, DWC-100, DWC-196, YES-2000, YES-300, YAW-1000, YAW-300, YAW-2000, YAW-3000, YAW-5000, NDS-200, NDS-500, NDS-1000, NDS-2000, NDW-200, NDW-500, NDW-1000, NDW-2000, NDW-3000, NDW-5000, NDW-10000, HEZ-3, HEZ-6, HEZ-10, JWJ-10, TLS, TLW, HST-P50, HST-P100, HST-P200, HST-P300, RDJ, NDT, DWTT, GBW-60, GW-50, HST, XNR-400

Certificate Number : **M.2023.206.C81366**
Initial Assessment Date : 31.01.2023
Registration Date : 01.02.2023
Reissue Date/No : -
Expiry Date : **31.01.2028**


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