UNIVERSAL HARDNESS TESTER
Univer–187.5D

STANDARD

GB/T230.2, GB/T231.2, GB/T4340.2, ASTM E18, ISO 6508, JJG112, JJG150, JIS B-7734

Multi-function digital display universal hardness tester have high degree of automation, stable and reliable performance, equipped with sophisticated sensors, test is more accurate; A 5.6 inch industry screen provide comprehensive data for quality control, through hardness transmission software export test data into the computer conveniently, easy to long term preservation.

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FEATURES

- Can meet Rockwell and small load Brinell and Vickers hardness test requirements, it's convenient for user to do a variety of materials at the same time.
- Equipped with sophisticated sensors, test results are more accurate, the leading variable load structure design, can easily switch test force, high test precision, good repeatability.
- The main components adopt brand such as American 3M, Allegro, Japan Omron and NKK, to ensure the equipment running stably for a long time.
- Equipped with digital display micrometer eyepiece and data computing systems accurate to 0.01 um, only gently touch, can directly show the Brinell or Vickers hardness value.
- It is automatic to test when the working platform lifting up to some height, then indicate Rockwell hardness value and various testing data directly.
- Operation interface are simple and intuitive, can set the test method quickly, the control system is more stable.
- The industry LCD screen can be visual display hardness value, hardness unit, conversion hardness, testing force, indenter type, the required minimum thickness, load time, measurement times, and the test process is intuitive and clear, built-in printer can print out measured times, hardness value, average, maximum and minimum values, range for the customer to archive.
- Accompanying equipped with data transfer software, through RS232 interface will transfer host measurement data to the computer to edit and save.
- The shell is one step casting molding with special foundry process, stable structure and no deformation, can work under relatively harsh environment; pure white car painting and its class is high, have scratch resistance ability, it's still brightness used for years.
- We have our own research and development design, production and processing ability, our machines provide life-long time parts replacement and maintenance upgrade services.

TECHNICAL SPECIFICATION

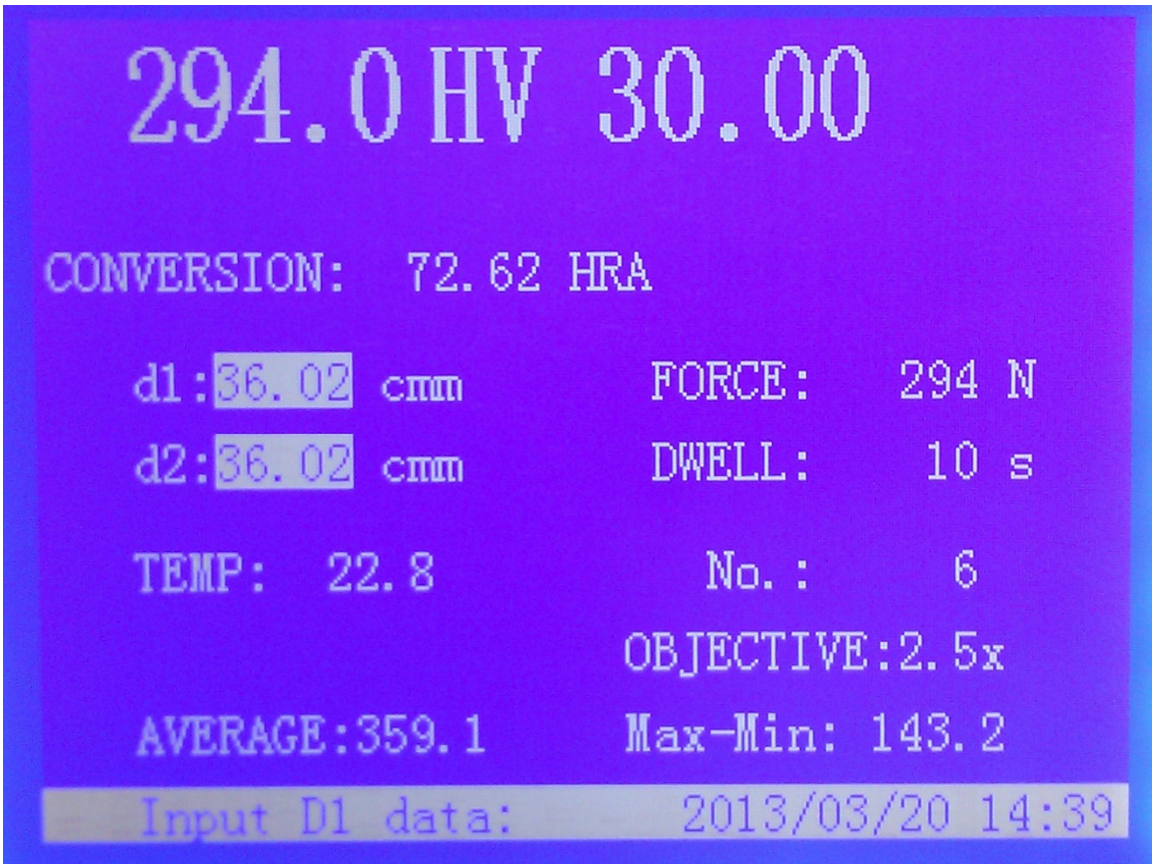
Model	Univer-187.5D
Rockwell scale Test force	HRA, HRB, HRC,HRD,HRE,HRF,HRG,HRH,HRK,HRL,HRM,HRR 60Kg (588N),100Kg (980N),150Kg(1471N)
Brinell scale Test force	HBW2.5/31.25,HBW2.5/62.5,HBW5/62.5, HBW2.5/187.5 31.25Kg(306.5N),62.5Kg (612.9N), 187.5Kg (1839N)
Vickers scale Test force	HV30,HV60,HV100 30Kg(294.2N),60kg(588N),100Kg (980N)
Conversion Scale	HRA,HRB,HRC,HRD,HRF,HV,HK,HBW,HR15N,HR30N,HR45N,HR15T,HR30T,HR45T
Initial test force	10Kg(98.0N)
LCD Screen size	118x99mm

Resolution ratio	0.1HR
Amplification of microscope	37.5X, 75X
Hardness value range	Rockwell: 20~88HRA 20~100HRB 20~70HRC Brinell: 8~650HB Vickers: 8~3000HV
Hardness value read	Big digital LCD
Loading method	Full automatic (load, dwell, unload)
Specimen maximum height allowed	Rockwell: 170mm Brinell, Vickers: 140mm

Throat depth allowed	130mm
Dwell time	1~99S (each step is 1 second)
Power supply	AC220V + 5%, 50~60 Hz , (AC110V available)
Instrument size and weight	460×160×660mm (L×W×H), 85kg
Package size and weight	625x430x900mm (LXWXH), 100kg
Data output	Built-in printer, RS-232 interface (Export data to the computer for long time preservation)
Standard accessories	1 piece: Hardness tester ; 15x digital display micrometer eyepiece ; 2.5x , 5x object lens ; Rockwell diamond indenter ; Vickers diamond indenter ; Φ1.588mm,Φ2.5mm,Φ5mm, hard alloy ball indenter ; large, medium, “V” shape, and slide test platform ; data transmission software ; accessory box ; dust-proof cover ; power cable ; manual instruction; certificate of quality; warranty card . 5 pieces: Φ1.588mm steel ball ; hardness block .
Optional accessories	Hardness measurement software, computer, printer, standard hardness block, standard indenter

Main Uses:

- Chilled steel, quenched and tempered steel, annealing steel, bearing steel, strip steel, hardened steel sheet, hard alloy, etc.
- Cast iron, nonferrous metal, especially for soft metal, such as pure aluminum, lead, tin, etc.
- Carburizing, nitriding and decarburization layer, the surface hardening layer, electric plating and coating.



Hardness Test Report

	Date	15-Aug-16		Time	2016.8.15	
Applicant	Robotest					
Sample Name	Handwheel			Sample No.	16088258	
Material	steel			Description	SXL-1200 furnace use	
Machine ID	HJ16080126			Test Standard	EN-ISO-6507	
Operator	Tom			Auditor	Ben	

Test Result

Test Item	Force	Dwell Time	D1	D2	Hardness	Scale
1	500	15	17.48	17.65	3003.4	HV
2	500	15	13.29	13.29	5244.13	HV
3	500	15	36.75	36.78	685.94	HV
4	500	15	28.4	36.78	1147.8	HV
5	500	15	37	37.03	676.71	HV
6	500	15	55.64	55.64	299.49	HV
7	500	15	63.18	63.14	232.39	HV
8	500	15	35.51	35.46	736.05	HV
9	500	15	18.21	18.18	2798.21	HV
10	500	15	28.4	36.78	1147.8	HV
11	500	15	63.18	63.14	232.39	HV
12	500	15	37	37.03	676.71	HV
13	500	15	36.75	36.78	685.94	HV

Excle format, easy for edit

Data only for reference.
Just for help you learn more about our software

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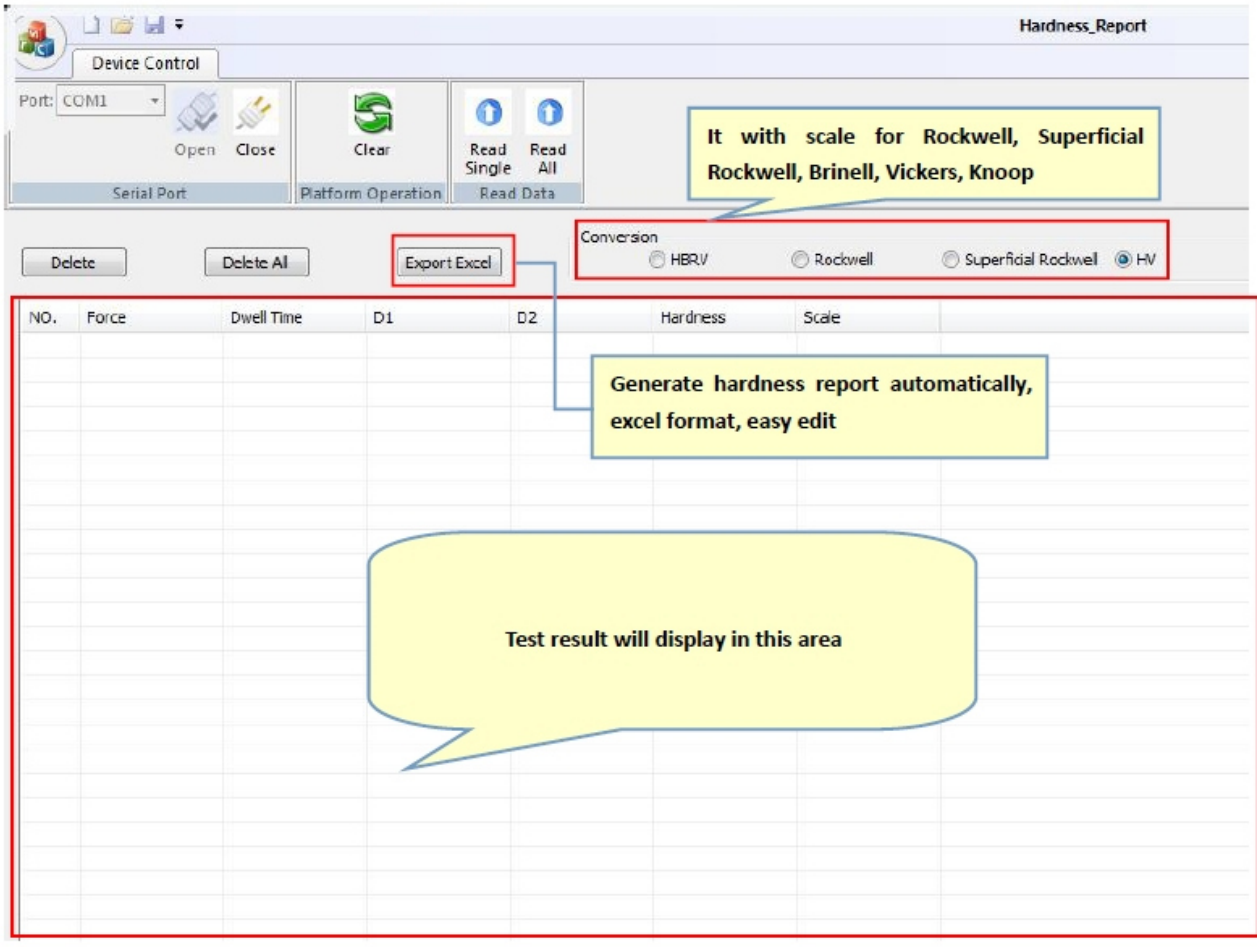
Data Transfer Software

(Optional Purchase)



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