

Universal Hardness Tester

Model: HBRV-187.5

1, General introduction

Universal Hardness Tester has Rockwell, Vickers and Brinell testing capability. HBRV-187.5 Motorized Brinell Rockwell & Vickers Hardness Tester enables the execution of Rockwell standard (150-60-100kgf), Brinell (31.25-62.5-187.5kgf) and Vickers tests (10-30-60-100kgf).



2, References

ASTM E10 "Standard Test Method for Brinell Hardness of Metallic Materials"

ISO 6506 "Metallic materials -- Brinell hardness test"

ASTM E18 "Standard Test Methods for Rockwell Hardness of Metallic Materials"

ISO 6508 "Metallic materials — Rockwell hardness test"

ASTM E384 "Standard Test Method for Microindentation Hardness of Materials"

ISO 6507 "Metallic materials -- Vickers hardness test"

3, Main technical specification

| | |
|------------------------------|---|
| Rockwell scales | HRA, HRB, HRC |
| Rockwell testing force | 60Gk(588N), 100Kg(980.7N), 150Kg(1471N) |
| Brinell scales | HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW5/62.5, HBW10/100, HBW2.5/187.5 |
| Brinell testing force | 30Kg(294.2N), 31.25Kg(306.5N), 62.5Kg(612.9N), 100Kg(980.7N), 187.5Kg(1839N) |
| Vickers scales | HV30, HV100 |
| Vickers testing force | 30Kg(294.2N), 100Kg(980.7N) |
| Reading of hardness value | Rockwell: Dial, Brinell & Vickers: Measuring microscope |
| Max. height of test specimen | Rockwell:200mm, Brinell & Vickers: 165mm |
| Amplification of microscope | 37.5*, 75* |
| Duration time | 2~60S |
| Power | AC 220V, 50/60HZ |
| Dimensions | 520*215*700mm |
| Net Weight | 65Kg |
| Standard Accessories | Rockwell indenter, Vickers indenter, diameter 1.5875mm, 2.5mm, 5mm hard alloy steel ball indenter, measuring microscope, objective lens, inner light and outer light, Large, medium and V-shaped testing table, slipped table, hardness blocks for (Rockwell, Brinell, Vickers), Lever. |

Digital Universal Hardness Tester

Model: HBRVD-187.5



1, General introduction

Universal Hardness Tester has Rockwell, Vickers and Brinell testing capability. HBRVD-187.5 Digital Brinell Rockwell & Vickers Hardness Tester with a novel and beautiful appearance, multi functions, easy operation, clear and direct display, stable performance. It's high-tech and new designed model, combining the mechanic, electric and optical features. This multi-function hardness tester with Brinell, Rockwell, Vickers 3 testing methods, as well as 7 steps test force can meet diverse test requirement.

2, References

ASTM E10 "Standard Test Method for Brinell Hardness of Metallic Materials"

ISO 6506 "Metallic materials -- Brinell hardness test"

ASTM E18 "Standard Test Methods for Rockwell Hardness of Metallic Materials"

ISO 6508 "Metallic materials — Rockwell hardness test"

ASTM E384 "Standard Test Method for Microindentation Hardness of Materials"

ISO 6507 "Metallic materials -- Vickers hardness test"

Key Features

- 1), The process of loading, dwelling and unloading of test force are shifted automatically, therefore the operation is simply and promptly.
- 2), With 3 hardness testing methods, Brinell, Rockwell, Vickers
- 3), Free adjusting the dwell time for hardness test;
- 4), With micro-printer to print the test result;
- 5), With storage function, easily recall and check the hardness test data.

Main technical specification

| Test methods | Rockwell | Brinell | Vickers |
|------------------------------|---|--|--------------------------------|
| Hardness scales | HRA, HRB, HRC, HRD | HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW5/62.5, HBW10/100, HBW2.5/187.5 | HV30, HV100 |
| Initial test force | 98.07N(10Kg) | | |
| Test force | 60Gk(588N), 100Kg(980.7N), 150Kg(1471N) | 30Kg(294.2N), 31.25Kg(306.5N), 62.5Kg(612.9N), 100Kg(980.7N), 187.5Kg(1839N) | 30Kg(294.2N), 100Kg(980.7N) |
| Dwell time control | 0~60 seconds, adjustable | | |
| Resolution of hardness value | 0.1 Rokwell hardness unit | | |
| Hardness readout | Large screen LCD Display(Hardness value displaying, data statistics, storage, parameter setting etc.) | | |
| Data output | built in micro printer | | |
| Max. height of test specimen | 200mm | 140mm | 140mm |
| Max. width of specimen | 165mm | | |
| Package dimension | 525*240*700mm | | |
| Power | AC 220V, 50/60HZ | | |
| Net Weight | 70Kg | | |
| Standard Accessories | Diamond Rockwell indenter; Diamond Vickers indenter; diameter 1.5875mm, 2.5mm, 5mm hard alloy steel ball indenter; Digital Micro Eyepiece; Objectives; inner light and outer light; Large, medium and V-shaped testing table, slipped table, hardness blocks for (Rockwell, Brinell, Vickers), Lever, Power cord, manual etc. | | |