

AJR AUH-II Ultrasonic Hardness Tester



Introduction

AJR AUH-II portable ultrasonic hardness tester is a intelligent hardness measuring instrument. Compare with normal hardness testing device, AUH-II portable ultrasonic hardness tester adopt Ultrasonic Contact Impedance (UCI) technology and Automatic Stabilization and Compensation (ZSC) technology. AUH-II can be used in a broad variety of metals with a wide measuring range and high accuracy. AJR AUH-II also has no damage for the testing surface. The ZSC technology also solves the traditional ultrasonic portable hardness unstable problem because of the environment and human factor.

AJR AUH-II model machine allows for the testing of highly sensitive on finished parts that previously could not be tested

in an operational setting. The non-destructive (NDT) feature of AJR AUH-II allow the operator to accurately test parts without causing physical or structural damage that would normally lead to disposal or refinish of operators part. This translates into less scrap parts/ lower mfg costs due to necessary inspections. AJR AUH-II ultrasonic hardness tester can make measurement on any shape metal with any size like flat, round, thin or large surfaces. Accurate measurements of steel, cast steel, alloy steel, aluminum, brass, bronze and copper are easily attained with this compact instrument.

Features

- Automatic Stabilization and Compensation (ZSC) technology ensure the machine high accuracy characteristic. Machine confirms to ASTM-A1038-05, DIN 50159-1, JB/T9377-2010
- Broad application like: wheel gear, bearings, various metal coating, metal sheet, metal thin board, small and shaped work piece, immovable work piece, Cylindrical strike needle, motor parts and various mould.

- ZSC technology insures the measurement more accurate.
- It mainly measure HRC hardness. But the machine can converse the value among HB, HRC and HV hardness scales.
- There is no need to change probe for various material with various shape. Calibrate on a small standard of testing material standards, the machine can measure same material.
- Non destructive to the work piece. Stable performance.
- Rechargeable battery can keep machine work long time.
- Auto-check function of probe to main machine.
- Machine can get a average value on the uneven hardness value material.
- Probe can make measurement with any angle.
- High accurate and durable probe.
- Optional printer can make data record.
- Optional support stand can increase testing speed of small work piece.
- Light, portable and easy operation

Specification

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|----------------------------|---|
| Product Name | Ultrasonic Hardness Tester |
| Model | AUH-II |
| Loading Force | 8—20 N ±1N (Force can be adjusted according to testing condition) |
| Measuring Range | HV:100~999; HRC:10~80; HB:100~550 |
| Measuring Accuracy | HV:±3%HV; HRC:±1.5HRC; HB:±3%HB |
| Block Accuracy | ±1 HRC |
| Indenter | 136° Vickers Diamond Indenter |
| Measuring Direction | Support 360° |
| Material Surface Roughness | Ra=3.2 is better |
| Hardness Scale | HV、HB、HRC |
| Minimum Material Size | 5×5mm, 1mm Thickness. Thickness less than 3mm material should coupling on the big platform with oil |
| Hardness Indication | LCD display HRC value |
| Operating Environment | Temperature:-10°C~50°C; Humidity: 30%~80%R.H |
| Power | AC220V±10% 50/60HZ DC 5V |
| Recharge Time | 5 hours |



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| Instrument Dimensions | 204 x100x35mm |
| Net Weight | Approximately 300g (Without probe) |

Standard Accessories

| No. | Item | Qty. |
|-----|-------------------------|------|
| 1 | AJR AUH-II Main Machine | 1 |
| 2 | Standard Probe | 1 |
| 3 | Power Charger | 1 |
| 4 | Probe Connection Cable | 1 |
| 5 | Standard Block | 1 |
| 6 | Carrying Case | 1 |
| 7 | Manual | 1 |
| 8 | Warranty Card | 1 |
| 9 | Packing List | 1 |

Contact: Vince Hu

Sale Manager

AJR NDT CO., LIMITED

**Address: Rm 307, Unit 5, YipinShangceng, No.9, Xi'santiao,
Anningzhuang, Haidian District, Beijing, China**

Mobile: 086-13393190604

Skype: vince-hu1

Email: sale@ajr-ndt.com

Web: www.ajr-ndt.com

Email: sale@ajr-ndt.com

Web: www.ajr-ndt.com