

# PRODUCT DESCRIPTION

## **20HW Aluminum Alloy And Brass Hand Held Aluminum Hardness Testing Webster Hardness Tester**

Webster hardness tester is a small handheld hardness testing instrument, it is small size, light weight, can be operated by one hand, can be fast, convenient, nondestructive testing material hardness such as aluminum alloy, brass etc, it does not need to sample calibration, the operating skills are not high, very suitable for the production site of the material for rapid hardness testing.

### **Main application of webster hardness tester**

Webster hardness tester uses two different shapes of pressure needle, two different test forces, their combination to form three different models of instrument, respectively for aluminum alloy, soft copper, hard copper, ultra hard aluminum alloy and soft steel. The Wechsler hardness tester is suitable for testing materials with two parallel surfaces, such as tubes, plates and profiles, up to 13mm in thickness.

The webster hardness tester is very suitable for testing batches of products on the production site. Although its sensitivity is not high, it has been able to meet the requirements as a production control and conformity determination instrument. It is for this reason that vickers hardness tester has been widely used in the aluminum processing industry.

Webster hardness tester on the market is mainly HHW-20 series aluminum alloy Wechsler hardness tester, as well as used to detect copper alloy Wechsler hardness tester

### **Performance testing of webster hardness tester**

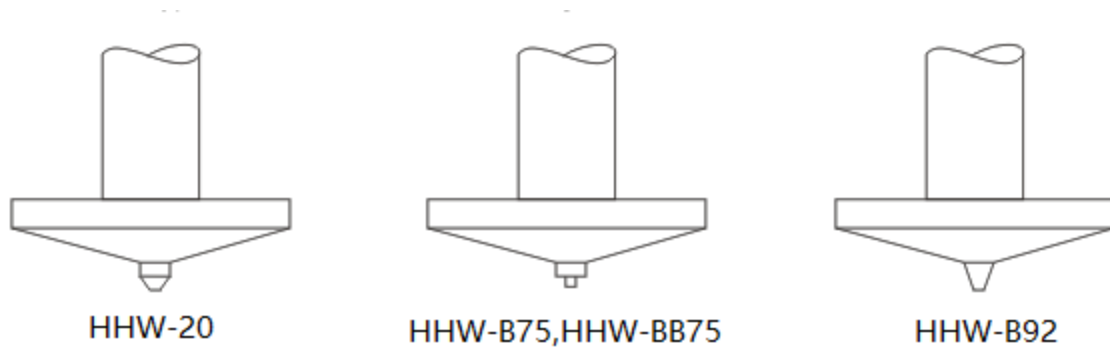
1. Determine whether the aluminum profile has heat treatment, check the heat treatment effect, determine whether the mechanical properties of aluminum profile is qualified.
2. Determine whether the aluminum profile is processed with inappropriate alloy and determine whether the aluminum profile alloy composition is qualified.
3. Measure the long and heavy workpiece or assembly which is not easy to send to the laboratory.
4. Used for aluminum production inspection, acceptance inspection and quality supervision and inspection.
5. The reading is convenient and can be easily converted into other hardness values. The measuring range is mainly used for measuring aluminum profiles and aluminum alloy materials, but also can

measure copper alloy materials. Its measurement range is equivalent to: aluminum profile :24~110HRE copper alloy :60~90HRF

6. Can measure a variety of aluminum profiles.

7. The operation is simple and the operation skill has no influence on the reading.

The indenters of each type of Webster hardness testers are different. The shapes of three types of indenters are shown as Fig.below:



### Main Technical Parameters

1. Testing Range:0~20HW
2. Accuracy:0.5HW
3. Equivalent range:See Table 1
4. Net weight:0.5kg

### Model Guide (table 1)

Model	Application	Hardness range	Workpiece size (mm)
<b>HHW-20</b>	Aluminum profiles	25 - 110HRE, 58 - 131HV	Thickness 0.6-6, inner diameter >10
<b>HHW-20A</b>			Thickness 0.6-13, inner diameter >10
<b>HHW-20B</b>			Thickness 0.6-8, inner diameter >6
<b>HHW-B75</b>	Brass	63 - 105HRF	Thickness 0.6-6, inner diameter >10
<b>HHW-B75B</b>			Thickness 0.6-8, inner diameter >6
<b>HHW-BB75</b>	Red copper	18 - 100HRE	Thickness 0.6-6, inner diameter >10
<b>HHW-BB75B</b>			Thickness 0.6-8, inner diameter >6
<b>HHW-B92</b>	Stainless steel sheets, cold-rolled steel	50 - 92HRB	Thickness 0.4-6, inner diameter >10

**Standard Package**

- 1 Hardness tester
- 1 Standard hardness block (attached with measurement and inspection report)
- 1 Spare indenter
- 1 Wrench
- 1 Small screwdriver
- 1 Instruction manual
- 1 Carrying case

**Optional Accessories**

- Spare indenter
- Standard hardness block
- Spare dial glass