

Webster Hardness Tester



Webster Hardness Testers (also known as Webster hardness pliers) are used to quickly measure the hardness of aluminum alloys directly at production sites. They are the preferred instruments for assessing the strength of aluminum alloys.

The W-20 Webster hardness tester is specifically designed to test the hardness of aluminum alloys, pipes, plates, aluminum parts, and other soft metals. It can determine whether aluminum products have undergone aging treatment, verify if hardness values meet required standards, and distinguish between different aluminum alloys and aging states.

Webster hardness testers are especially suitable for batch production lines and sales sites. They are ideal for rapid, non-destructive, piece-by-piece testing of aluminum profiles, doors, windows, curtain walls, and similar applications.

Conform to YS/T420-2000 and ASTM B647-84 (2000).

Main Technical Parameters:

Model	W-20	W-20A	W-20B
Specimen Size	Thickness:0.4~6mm Inner Diameter: >10	Thickness:0.4~13mm Inner Diameter: >10	Thickness:0.4~8mm Inner Diameter: > 6
Range	0 ~ 20 HW (The equivalent of 20 ~ 110 HRE)		
Indicator Error	0.5 HW (5 ~ 17 HW)		
Repeatability Error	0.5 HW (5 ~ 17 HW)		
Weight	0.5 kg		
Max. Specimen Thickness	Compare according to opening size and model		
Min. Sample Inner Diameter	Compare according to the anvil size and model		

Standard Package



Tester



Standard Test Block
(with verification certificate)



Spare Indenter



Calibration Wrench



Screwdriver



Anvil Cap (W-20a)



Carrying Case

Spare parts



Indenter




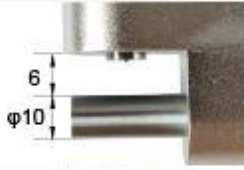










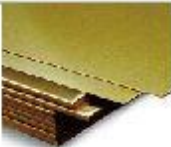



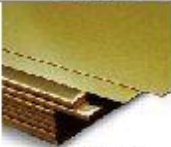




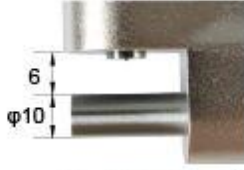







Standard Test Block



Dial Glass

W-20 series aluminum alloy Webster hardness testers have three models: W-20 Webster hardness tester is mainly used for inspection of aluminum alloy, tubes and plate, W-20a type can be used to inspect industrial aluminum extrusions, plates or parts which of the thickness upper limit to 13 mm, W-20b type for testing small aluminum profiles or aluminum profiles pipes which of the inner diameter is greater than 6 mm.

Otherwise, W-B75, W-BB75 Webster hardness testers for copper alloy, and W-B92 Webster hardness tester for stainless steel, respectively suitable for testing the hardness of materials such as copper, brass and mild steel.

Model	Scope	Suitable Material	Opening Size (mm)	Indenter	Spring
W-20	25~110 HRE 58~131 HV	 Aluminum			
W-20a		 Aluminum			
W-20b		 Aluminum			
W-B75	53~92 HRB	 Brass			
W-B75b		 Brass			
W-BB75	30~96 HRF	 Copper			
W-BB75b		 Copper			
W-B92	50~92 HRB	 Stainless Steel	