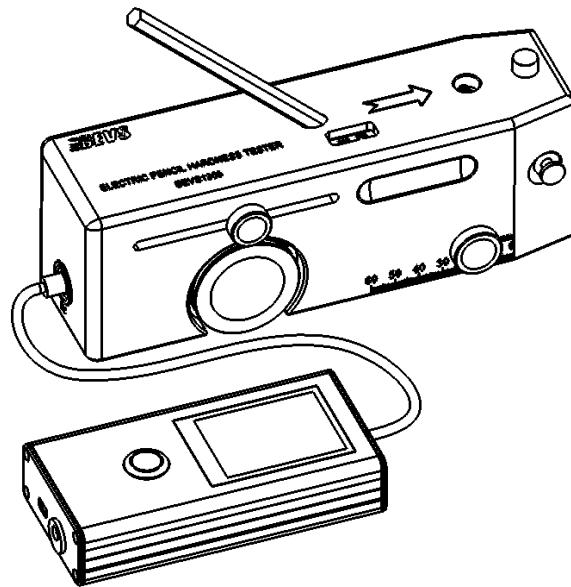


Electric Pencil Hardness Tester

BEVS 1309

User Manual



Please read this manual carefully before using the unit and save it for future reference.



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1. Company Info

BEVS Industrial Co., Ltd. is a leading developer & manufacturer that specializes in coatings, ink, painting, resin testing instruments and laboratory whole solution.

We offer the complete and unique products in this field to meet customer's challenging demands of today and tomorrow, the products are complied with the standards of ISO, ASTM, DIN, BS, EN etc.

With strong supports and hard work by lots of end-users and worldwide agents, BEVS become more and more famous in the world and provides more competitive values for our customers.

2. Product Info

BEVS 1309 Electric Pencil Hardness Tester is designed according to ASTM D3363, BS3900-E19, EN13523-4, ISO15184 and GB / T6739-2006. It is suitable for spraying hardness testing of various household appliances and digital products, and testing the hardness of paint films for various metal coatings, decorative materials and synthetic leather.

Use a variety of pencils of different hardness to make a certain angle (45 degrees) with the surface of the paint film, and use a certain load to scratch the surface of the paint film. The hardness of the pencil that just scratches the paint film is defined as the scratch resistance of the paint film. .

2.1 Technical Info

Dimensions: 205 × 65 × 75mm (length × width × height)

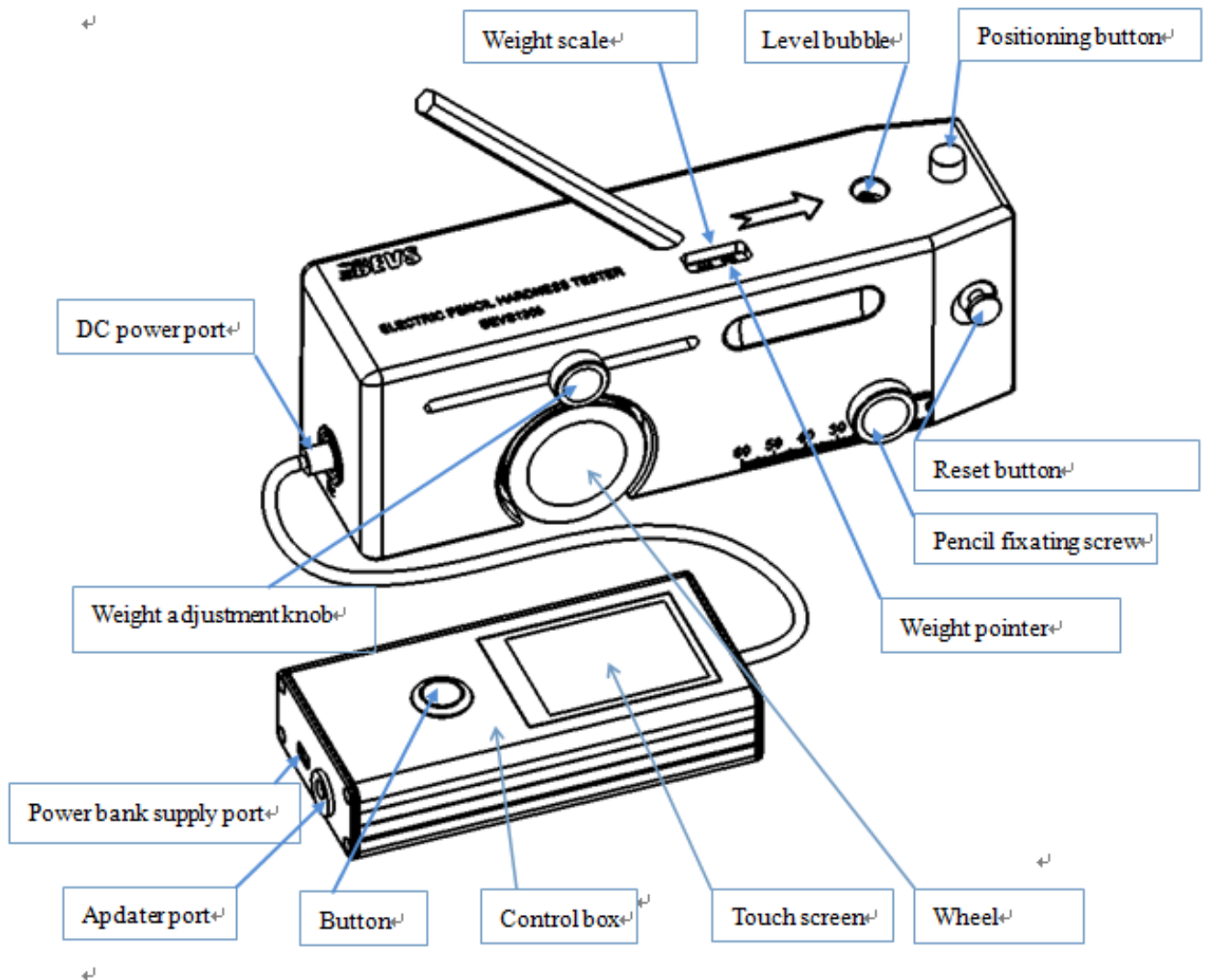
Instrument net weight: 2200g

Pressure of pencil tip on paint film: 500g-1000g, stepless adjustment

Test speed: 0.5 – 8 mm/s, stepless adjustment

Power supply: 100-230V, power bank, computer USB port

2.2 Parts Indication



3. Use Step

3.1 Select a pencil and use a sharpener to peel off the wood about 5-6 mm long, please keep the pencil tip should be smooth and cylindrical without defects.

3.2 Hold the pencil vertically and move it back and forth on the sandpaper, and keep it at a 90 ° angle until you get a flat, smooth circular cross-section.

3.3 Repeat steps 3.1 and 3.2 each time using the pencil.

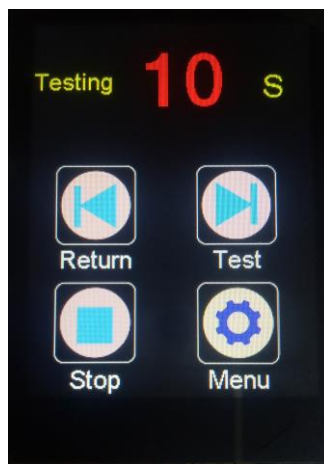
3.4 Place the test panel on a level and firm surface.

3.5 Put the electric pencil hardness tester on the test panel, press the positioning button, loosen the weight adjustment knob and set the required weight. Then tighten the weight adjustment knob.


3.6 Loosen the pencil fixating screw and insert the planed pencil until it comes into contact with the test panel. Then tighten the pencil fixating screw.

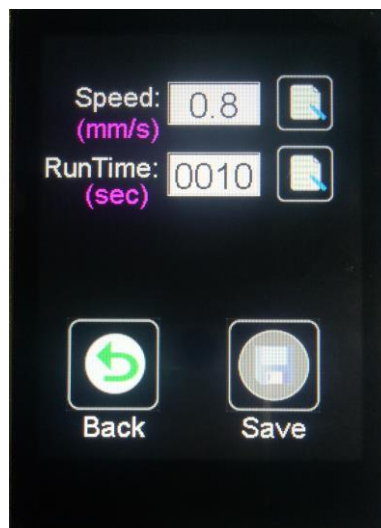
3.7 Press the reset button to make the positioning button pop up.

3.8 Turn on the power (DC 5V). Enter the welcome interface after booting, and automatically enter the main interface after 3 seconds. According to the requirements, set the test speed and test time.



Main interface

Click the test time  to enter the "Run Settings" interface to set the running speed and running time as follow.



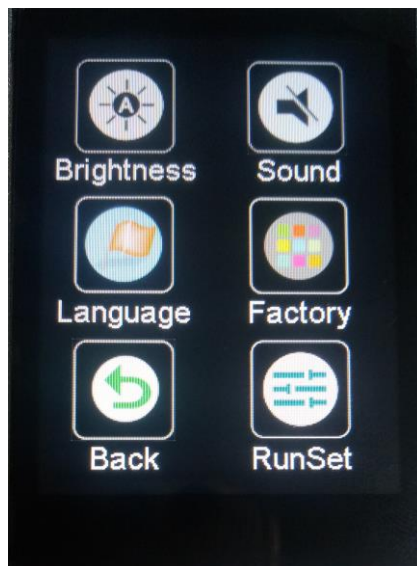
3.9 Menu parameter setting



Click the "Menu" button to set the brightness, sound, and language. You can also

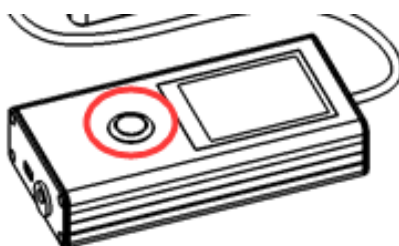


enter the Runset to set the test parameters.



3.10 Button on Control box

- 1) Press the button to start/stop the test.
- 2) Press and hold button for 3 s to turn off the control box, and long press 3 s to turn on the control box



4. Product Maintenance

4.1 Ensure that the body of the hardness tester is free from damage and nicks, as these will affect the quality of test;

4.2 Keep the rubber on the wheels clean and;

4.3 Store the instrument and pencil in the packing box when not use. Please use the same manufacturer and the same model of pencil each time. Pencils from different manufacturers will lead to different test results;

4.4 Ensure the pencil sharpener good enough;

4.5 Replace 400grit sandpaper if needed.