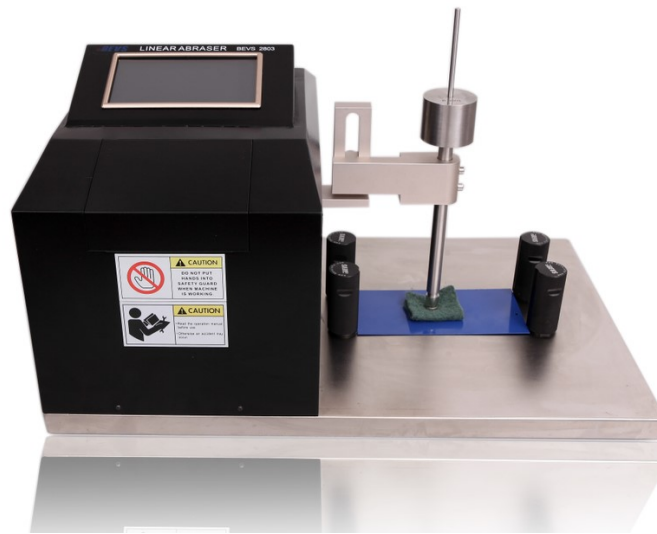


LINEAR ABRASER

BEVS 2803

User Manual



Version 201412

This manual shall be read carefully before starting. Directions included in this operation manual shall be strictly followed.

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1 Company Profile

BEVS Industrial Co.,Ltd. is a leading 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 Introduction

2.1 Introduction:

It is designed according to the American Dupont standard and applied to the abrasion resistant test for all kinds of nonconductive coating layers. To evaluate the abrasion degree of samples by using rubber, artificial sweat, steel wool or alcohol to scrub the surface of the samples.

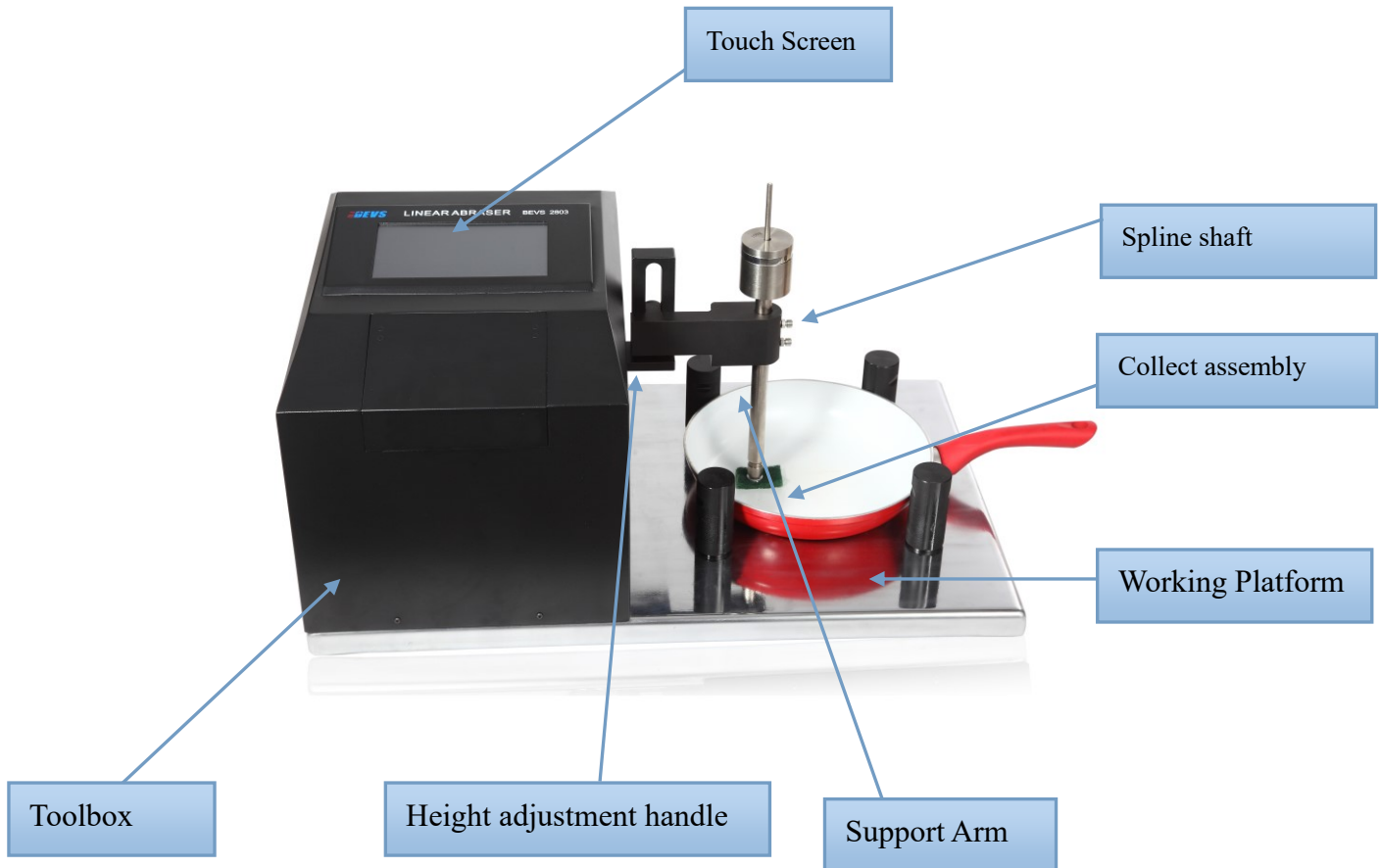
- Big LCD design, touch-screen operation
- Operating Menu: Chinese or English
- Adjustable speed intelligent system, ensure the accuracy of sample measurement
- Universal fixture to fix the sample in different shape & size

2.2 Technical Specification:

- Humanized Screen, touch-screen control
- Rubbing Frequency: No sections and adjustable speed frequency
- Adjustable Rubbing Cycle Times: 0 – 9999
- Adjustable speed: 20-99 rpm
- Adjustable Rubbing Distance: 10-50 mm (maximum)
- Test Platform: 350(L) ×400(W) mm
- Dimension: 640 x 400 x 290 mm

3 Operation Introduction

3.1 Component Description



3.2 Operating Procedure

3.2.1 Connect power (220V/50Hz)

3.2.2 Turn on the power; the switch is on the back of the instrument

3.2.3 Enter the welcome screen and select the language



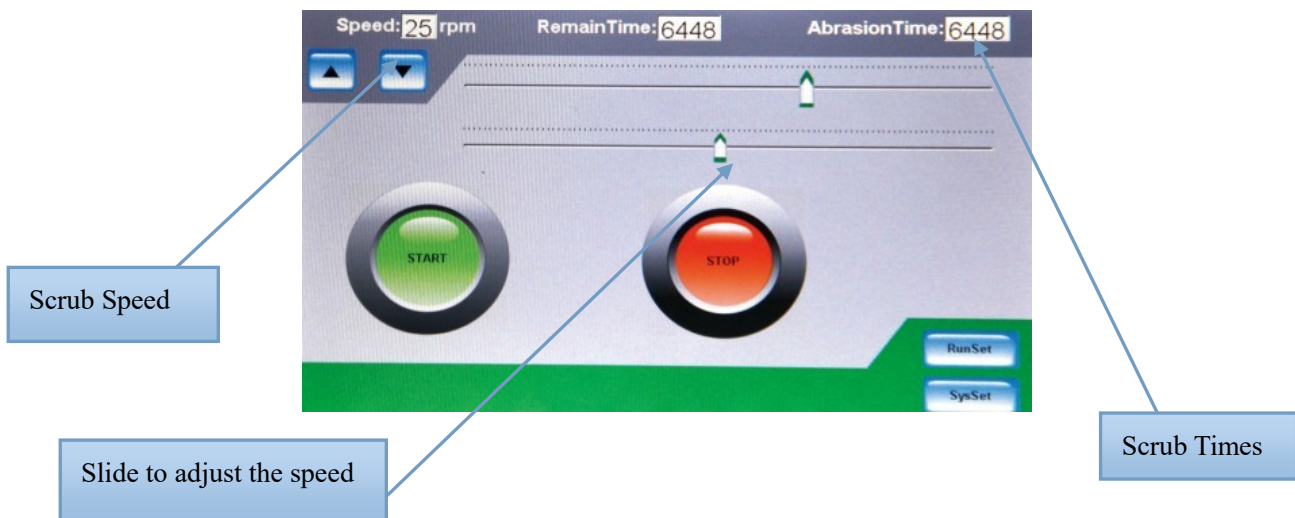
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Manufacturer: BEVS Industrial Co.,Ltd
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<http://www.bevsinfo.com>

3.2.4 Set the scrub speed and times according to the need

1) Speed Setting: Press bottom to increase the run speed, press bottom to decrease the run speed

2) Scrub Times Setting: Slide to the right to increase the scrub times, slide to left to decrease the scrub times



3.2.5 Put the sample on the working plate and fix by Universal fixture

3.2.6 Adjust the height manually according to the shape (length, width, height) and then fix

3.2.7 Add the weight to spline shaft according to the testing demand

3.2.8 Press “start” bottom to start the test after checking all the conditions are ready.



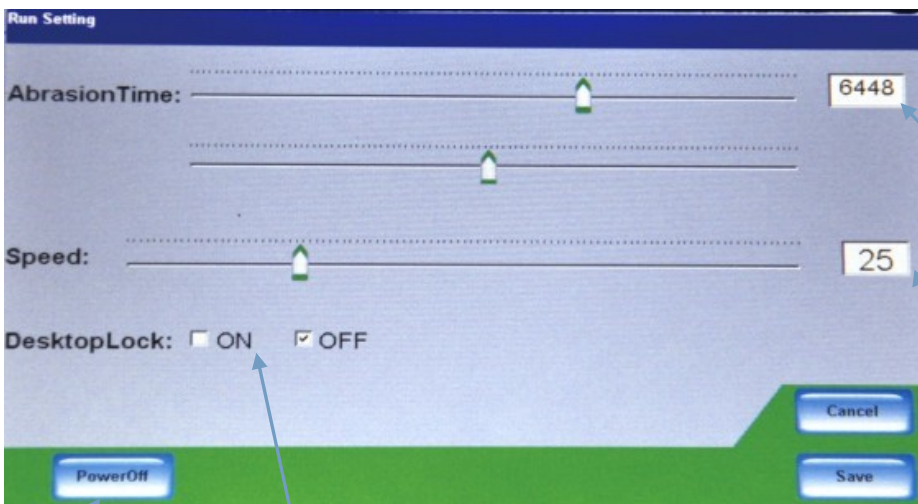
Start and Stop Bottom

3.2.9 Press the STOP bottom to stop the test in the test procedure.
The machine will stop automatically when reach to the setting testing times

3.3 Setting Touch Screen Parameter

3.3.1 Set the run parameter by enter RUN SETTING

- 1) Open this setting screen, quickly set the scrub times and speed
- 2) Can't adjust the scrub times and speed on the screen when open the desktop to lock



Adjust Scrub Times

Scrub Speed

Turn Off The Machine

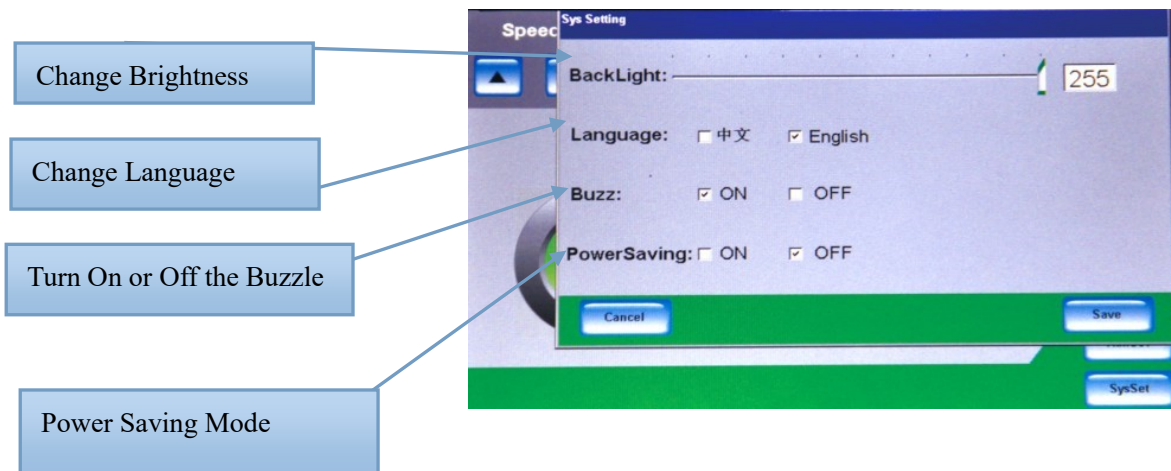
Can't adjust the scrub times and speed on the screen when the desktop is ON status

3.3.2 System Setting

- 1) Enable to change the brightness of the screen
- 2) Enable to change the language(Chinese/English)

3) Turn on or off the Buzzle

4) When it is in power saving mode, the machine will standby with closing the brightness if long time no press



3.3.3 All the settings must be saved before being effective, if return to last menu directly without saving, then all the settings will be ineffective.

3.4 Base Loads and Supplemental Weights

The base load is comprised of the weight spline shaft and collect assembly, without any supplemental weight, the base load of standard test system is 300 grams.

Weight may be added to the weight support to increase the abrasion test system load to a maximum of 2000 grams.

We also can supply a lighter system load upon request (optional)

3.5 Specimen conditioning

Prior to testing, it is recommended that specimens/samples be conditioned for at least 24 hrs in the test atmosphere, organic materials should be conditioned for 48 hours, the dry and curing conditions for printing or coating on plastics versus metals can be different and many influence the test results, also heat and moisture are known to affect the physical properties of many materials. It is recommended that all tests be conducted in the standard laboratory atmosphere of $23\pm 2^{\circ}\text{C}$ with $50\pm 5\%$ relative humidity.

4 Maintenance

4.1 For better extend the life of the machine, please have the maintenance regularly according to the suggestions as follow:

4.1.1 For better running, please put the sample in the middle platform

4.1.2 The maximum load: ≤ 2 Kg

4.1.3 Maintain the operation shaft by using the WD-40 Lubricating Oil after the normal use

4.1.4 Normal application environment temperature: $30\pm 5^{\circ}\text{C}$, humidity: 30-90%, avoid putting the machine in the dusty place

5 Attention

5.1 Installation Environment

5.1.1 Make sure that using the machine in dry and non-corrosiveness environment

5.1.2 Place in the firm working table (the machine base already had the level calibration before delivery from the factory)

5.1.3 Reliable ground wire is must in the outlet

5.2 Other Attention

5.2.1 This machine power is designed with 220V/5A, not allow dismounting by non-professional technicians

5.2.2 Forbid put hand, feet and head close to the machine when it is working in order to avoid the safe accident

6 Order Information of Accessories

BEVS 2803/P/001 Scrub Tool

BEVS 2803/P/002 Scrub Tool

BEVS 2803/P/003 Weight
BEVS 2803/P/004 Gradienter
BEVS 2803/P/005 Open-end Wrench
BEVS 2803/P/006 Screwdriver
BEVS 2803/P/007 Cross Screwdriver
BEVS 2803/P/008 Brush
BEVS 2803/P/009 Magnetic fixture
BEVS 2483/P/010 Instrument Screw Feet

7 Packing List

- 1.Main Machine 1set
- 2.Weight : 1000g 1pc , 500g 1pc , 200g 1pc , 100g 2pc , 50g 2pc
- 3.Power Lead 1pc
- 4.Touch Pen 1pc
- 5.User Manual 1pc
- 6.Certificate of Conformity 1pc