

Wet Abrasion Scrub Tester

BEVS 2805

User Manual



Version V3.201704

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

BEVS 2805 machine, also called a double headed washability tester, is designed to provide an accelerated method of determining abrasive wear resistance of surface coatings/ materials, and also to test the performance and abrasive effect of cleaning compounds.

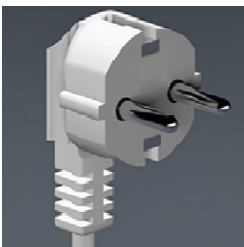
The abrasion tester provides a means of carrying out such a test under accurately controlled conditions, resulting in repeatability of results and close comparability of performance between the two test heads which operate side by side.

2.2 Safety Instructions

1. Read this instruction manual carefully before switching on the instrument.






2. Keep this instruction manual for future reference.
3. Observe all safety and warning markings on the instrument.
4. Avoid splashing water/fluids over machine when dosing brushes. Keep fluids to a minimum, taking care not to flood drip tray. Check that drain pipe is always clear.
5. This instrument must only be used in areas electrically classified as NON HAZARDOUS.
6. Ensure that voltage label on the instrument matches your local supply.



7. This equipment must be earthed any interruption to the mains earth conductor will make the instrument dangerous.
8. Ensure the unit is placed on a solid level surface.

9. Moving parts for processing are not protected with guard, because the movement is limited and speed is not high. After risk assessment, we verified the risk from moving parts is low and warning about the residual risk as below:

		
<p><i>Moving parts</i></p>	<p><i>impact/crushing</i></p>	<p><i>impact</i></p>

2.3 Intended use

Paint, coatings, leather, wood, plastic, printing materials, fiber and etc.

2.4 Features

- Big LCD design, touch-screen operation.
- Operating Menu: Chinese or English.
- Testing fluid flow is controlled by peristaltic pump.
- Stand for different standard brushes

2.5 Technical Specification

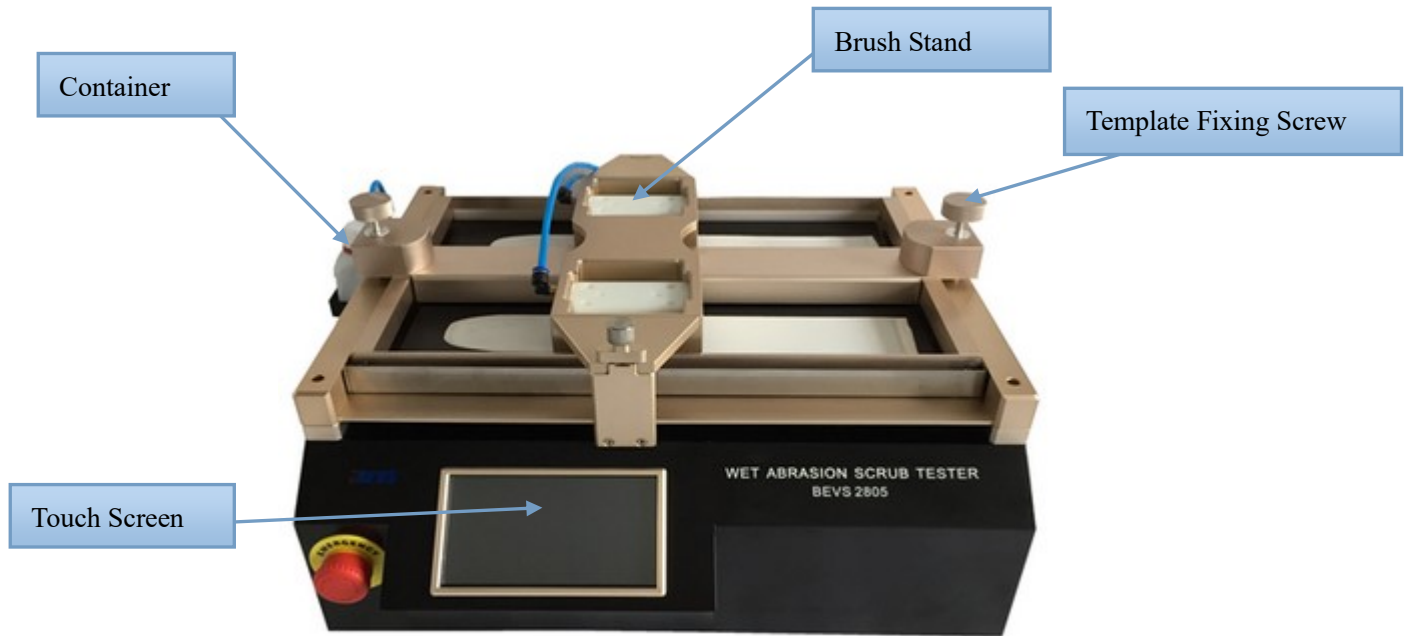
- Scrub Rate: 37±1 cycles/min
- Maximum Setting of Abrasion Times: 9999
- Test Panel height variable: 0-25 mm (Adjustable)

2.6 Standards

ASTM D2486, D3450
DIN 53778

3 Operation Introduction

3.1 Component Introduction



3.2 Operation

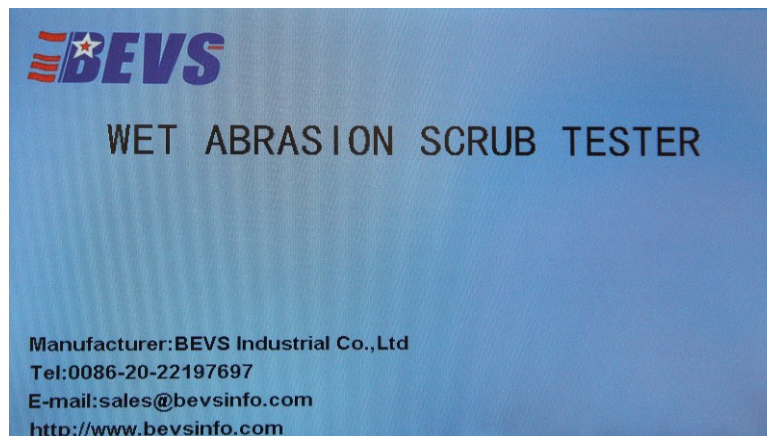
1. Place the instrument on the horizontal table, take out the brush stand
2. Settle the glass plate in the middle of light stainless steel trough plate
3. Install and clamp the test panel well, put the brush into the stand
4. Connect circuit and power on
5. Refer to 3.3 Touch Screen Use
6. Open the injection pump if need (See the relevant test specification)
7. Press the start button on the screen to start the test

3.3 Touch Screen Use

3.3.1 Connect up mains supply to machine (220V 50Hz)

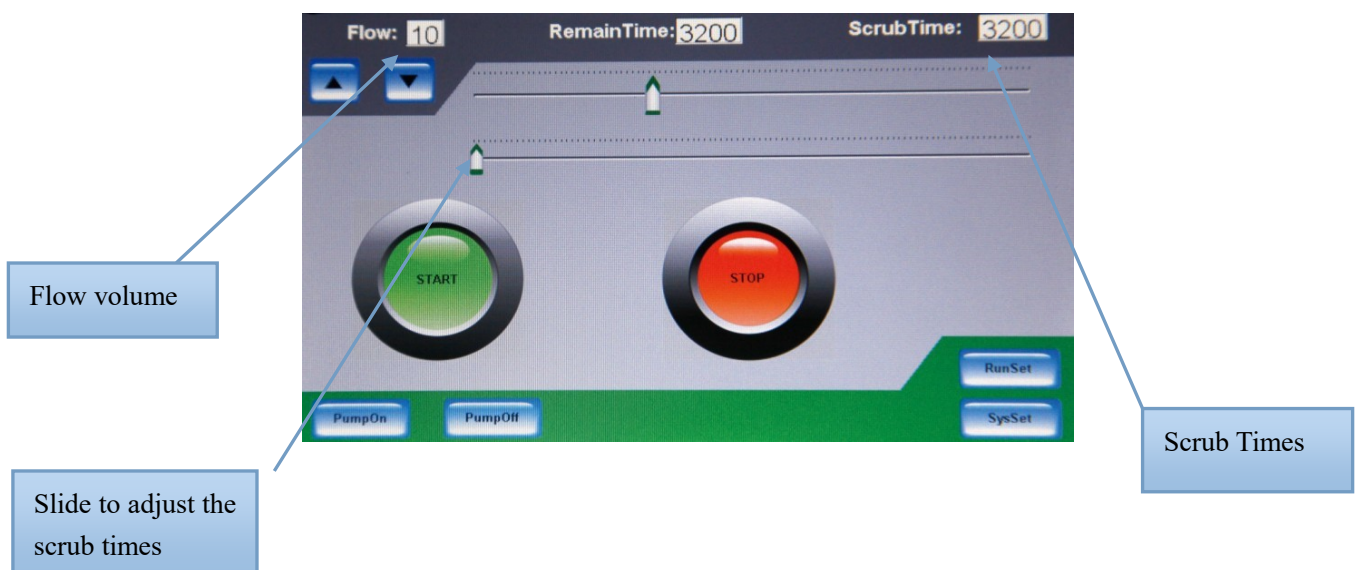
3.3.2 Power On

3.3.3 Enter the welcome screen and select the language

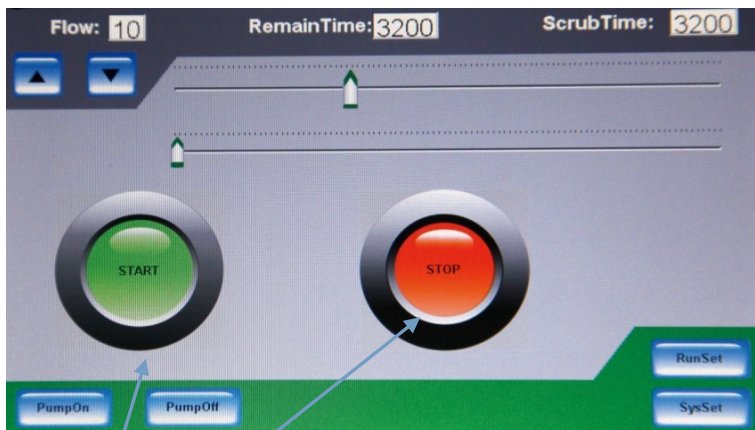


3.3.4 Pre-set the flow and scrub times

- 1) Reagent Flow Setting: Press button to increase flow volume, press button to decrease flow
- 2) Scrub Times Setting: Slide to right to increase the scrub times, slide to left to decrease the scrub times



3.3.5 Press the start button to test after all the test conditions is ready



Start and Stop Button

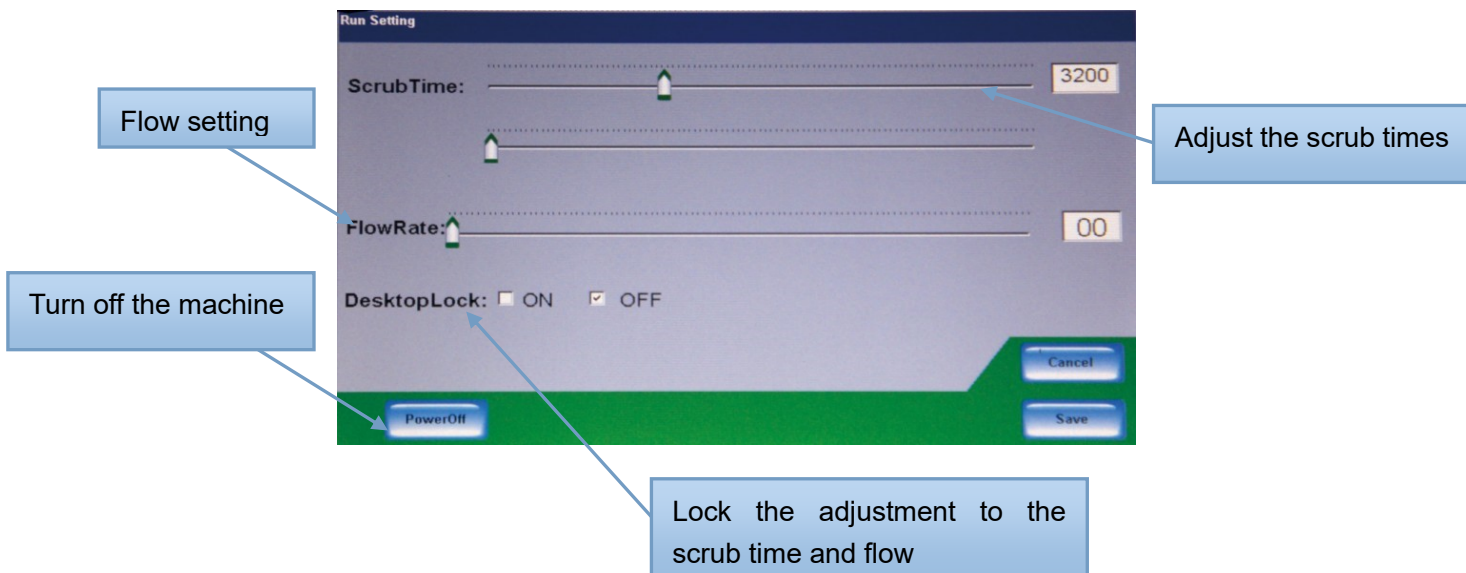
3.3.6 Press stop button to end the test and the machine will be stop automatically when reaching the preset measuring times



3.4 Touch Screen Parameter Setting

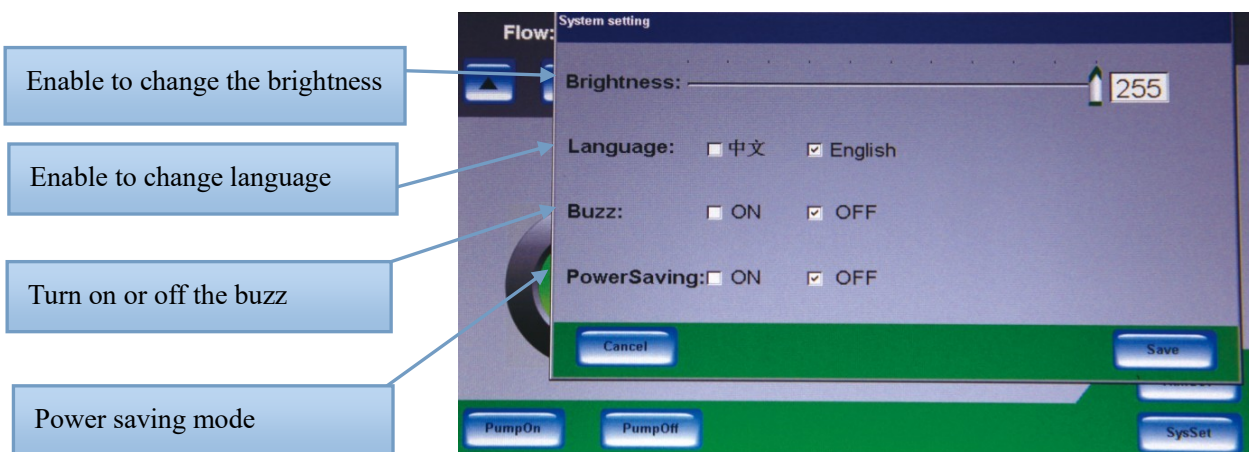
3.4.1 “Run Set” is able to set the run parameter:

- 1) Open this setting screen, enable to quick set the scrub times and flow
- 2) It is not able to adjust the scrub times and scrub speed on the desk when opening the desktop lock



3.4.2 System Setting

- 1) Screen brightness is adjustable
- 2) Language (Chinese or English)
- 3) Turn on or off the buzz
- 4) When opening the power saving mode, the machine will go into the standby mode and close the brightness if long time no being pressed by user



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

4 Maintenance

- 1 Before carrying out any maintenance, ensure machine is disconnected from mains supply
- 2 At least one time clean for the component on the trough frame every week
- 3 At least one time check for the friction head connecting every month, ensure the correct installation of friction head and run in free movement
- 4 Check the pump condition every month
- 5 Once a year, disconnect from mains. Tilt machine on its back, remove base, and undo screws located in each corner. Clean two slide rods and regress using Lithium grease. Replace base and lay machine on a level surface.

5 Attention

- 5.1 Make sure that the machine is used in a dry, non-corrosive environment
- 5.2 Putting on the firm working surface
- 5.3 There must have the reliable ground wire in the outlet
- 5.4 Operation Condition: Using this machine in the room with the temperature in between 15 to 35 degrees

6 Order Information of Accessories

- BEVS 2805/1/P---Accessory DIN53778 Applied weight 250g, 2 brushes with natural bristle
BEVS 2805/1/P---Accessory ASTM D2486 Applied weight 454g, 2 nylon brushers, 2 rubber pads
with 325*12.7*0.25mm brass shim
BEVS 2805/1/P---Accessory ASTM D3450 Applied weight 750g, 2 sponges

7 Packing List

BEVS 2805 Main Machine-----1pc

User Manual-----1pc

Stylus-----1pc

Power Lead-----1pc

Certificate of Conformity-----1pc