
Rolling Box Pilling Tester



YG511-2

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一、Brief instruction

1、 This tester used in testing fabric pills when pilling grade is evaluated for wool fabrics and other fabrics easy to pill in order to test the pilling class under the condition of no

pressure.

2、The tester is made up of the under pan、gear-box、pilling box and the stopping device of the counter. The pilling box can do the spare speed rotating decelerated through the gear-box. The box is made of multilayer complex material, the inner cliff liner is made from the cork gasket bought from outside. It will stop by itself when the pilling box running to the setting circle.

二、Machine' s main technology targets

1、Inside measure of the pilling box: 235mm×235mm×235mm

2、Number of rolling box: 2

3、Rating speed of the box: 60r/min

4、Beforehand revolution:

9999×1 time

9999×10 time

9999×100 time

5、Power supply: AC380V±5% 50Hz

6、Power: 120W

7、Canal of carry sample: It is made up of polyurethane; there is four in one box.

8、Volume: 820mm×510mm×340mm (Two boxes)

9、Weight:56Kg

三、Machine' s using attention

1、The machine must be fixed on stable place without inclining and visible shaking source. There is no causticity medium and conductive dust.

2、The machine must be earthed well. Connect the credible earth line to earth symbol on the machine' s shell. Pay attention to fix the earth line separately.

3、The servicing work of machine must be carried out by professional technology-workers under manual' s requirement strictly.

四、Machine' s operation

1、Working principle:

Cover the needing test sample onto the carry sample canal, and the canal will running followed the pilling box, the surface of the fabric will fuzzing and pilling because of the

scroll friction.

2、Operation step:

- ①Prepare the sample according the standard of GB4802.3.
- ②Check the pilling box, carry sample canal, sample box carefully to be sure its clean and has no polluting and haven' t the feather, crash and any other short fiber that left of the last test.
- ③Cover the sample onto the carry sample canal, and put the canal into the pilling box, close the box cover.
- ④Turn on the power.
- ⑤Press the reset button and clear the counter, dial the switch to the place of beforehand circle.
- ⑥Press the start button, the machine will start moving. Press the stop button if you need have a pause, the counter will add up account if you pressed the start button again, if you want have the renew count, please press the reset button first and then press the start button.
- ⑦The machine will stop running automatically when it achieve the beforehand circle.
- ⑧Open the box cover and take out the sample to judge it according the grey card.
- ⑨When you finished this test the start button will be locked, you must press the reset button before you have the next test, you can get into the next test after clear the counter.

Note: You should turn off the power when you changing the dial code set.

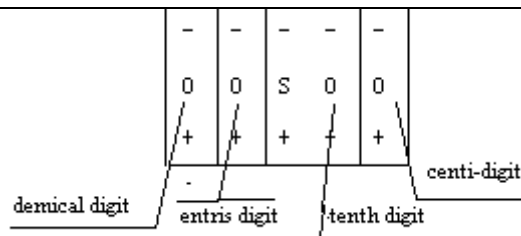
Range of the power supply: AC220V±5% 50Hz

If the circle speed out of the allow error, please adjust the voltage controller by the special worker.



3、Setting of the timing controller:

You can set the timing controller by the dial code set.



There into the third digit has three states, the S、M、H separately stand for second、minute、hour.

When the third place the S, the max setting time is 99 seconds, the precision is 0.01.

When the third place the M, the max setting time is 99 minutes, the precision is 1 second.

When the third place the H, the max setting time is 99 hours, the precision is 1 minute.

4、Machine' s maintenance:

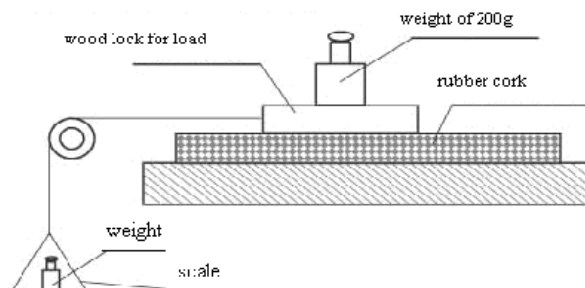
- ①The machine must be fixed on stable place without inclining and visible shaking source. There is no causticity medium and conductive dust.
- ②When you used the machine for a while the surface of the rubber cork will changed to velvet, Or it will adhere some grease and so on. This change may decrease the pilling grade of the box. You can wipe the rubber cork with the formaldehyde, and the pilling ability will renewed when the rubber cork dried, if there has no change after your wiping you should change the rubber cork.
- ③When you use the new pilling box or the new rubber cork, you must test the friction ability of the rubber cork in order to ascertain the friction modulus of the cork can fit for the need of the test. When the friction modulus of the cork gets down to half of the old number you must change the old cork.
- ④Before testing you must test if there has the model mark on the cork, it must keep smooth of the two sides convexity.
- ⑤The ability of the machine' s pilling must be checked by the fabric. You choice more than two sorts of different fabrics as referenced. Use fabrics to do the consult testing to judge the change and the diversity of each box and the same box.

5、Testing way of the friction ability of the rubber cork.

Test the ability of the surface friction of the rubber cork can judge the pilling ability indirectly. If you use the pilling box、new rubber cork you must check the surface friction ability in term.

①Equipment and article for use

Block and its device:



②Operate steps

You must adjust the test face in level when you check the rubber cork.

According the last map put the wood lock、200g weight、scale、block device well, and the connecting line must parallel the plane.

Add the weight onto the scale until the wood lock stop the regularity moving. Please don' t

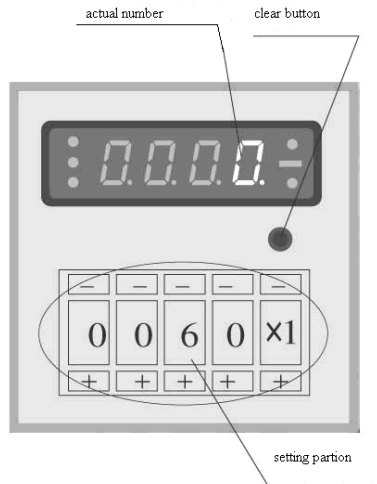
knock the scale when you add the weights onto it.

The surface friction modulus calculating ways of the rubber cork.

$$C_F = \frac{\text{scale quality (g)} + \text{weight quality (g)}}{\text{wood lock quality (g)} + \text{weight quality of pressed at the wood } 200g}$$

Note: Check whether the blower and components are loosen or damaged periodically. If they are, please change and tighten them. The machine is not explosive one, so please don't test explosive products in order to prevent accidents.

Appendix: counter using



1、Display of the pre-number: You can pre-number for 4 digits, The range of it is from 1 to 9999。

2、Pre-multiple: Press the “-” or “+” button outside the Pre-multiple you can choice the three pre-multiples is as follows:

×1、×10、×100。The number being pre-multiple is

×1 block: 1~9999 times

×10 block: 1~9999 times ×10 = 10~99990 times

×100 block: 1~9999 times×100 = 100~999900 times

When you choice the ×1 block means when the friction head circled one, The actual number in the display window will add 1.

When you choice the ×10 block means when the friction head circled one, The actual number in the display window will add 1.

When you choice the ×100 block means when the friction head circled one, The actual number in the display window will add 1.

3、Displayer of the actual number: It can display 4 digits altogether means the displayer range is from 1 to 9999. Before testing you must press the clear button the displayer window will display “0000”。When the actual number equal to the pre-number×pre-multiple, There will disappear “° ” at the digit of entries, Which means the testing has finished, At the same time the friction head stop moving.

4、Clear button: Clear the actual number displayed.

Packing list

Instrument name: Rolling Box Pilling Tester

Part name	Set
Rolling Box Pilling Tester	1
Fuse5A	2
Sample tube	8
Manual	1
Packing list	1