



User Manual of Taber Type Abrasion Test Machine



Read before Operation

Before operation this machine, please read this manual thoroughly, and keep a copy with the machine for future reference. This manual is to be considered part of your machine.

Model: NG-322



Add: NO.16, Shuijiao Gongye Road, Lichuan, Dongcheng,
Dongguan City 523000, Guangdong CHINA

1. Foreword

Thank you for your chosen our company's products, we not only provide your company good quality products, and will provide reliable service.

To ensure the use of personnel safety and equipment integrity, before using this instrument ,please fully view this operation manual.

For the manual, do pay attention to the precautions on its use. This manual details the design principles of this instrument,according to the standard, construction, operation specifications, calibration, maintenance, possible faults and remedy the situation, electrical plans, etc.

If in the manual mentioned in the various "test rule ", the standards are for reference only, if you have any objection please review standards or information by your own.

Special notes:

- This manual can not be the basis for any requirements.
- We reserve the right for this operating manual.

2. Notice

2.1 Please comply with the following signs of warnings, dangers and attentions for the sake of prevention of accidents and dangers when using the apparatus.



Danger

The operator may be hurt if he does not comply with the specification.



Warning

The apparatus may be damaged if the operator does not comply with the specification.



Note

Using specification of the apparatus is added here.



Attention

Testing quality and results may be influenced.



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2.2 The warning and attention sign of instrument.

	Warning	Please refer to the manual if necessary.
	Dangerous Voltage	There is high voltage.
	Grounding Protection	The apparatus should be connected to the grounding terminal.

3. Overview

Thank you for purchasing the company TABER abrasion test machine, this "Operating Instructions" for the machine parameter settings and operating instructions.

First: Use

This machine is applies to the cloth, paper, paint, plywood, leather, tiles, glass, natural rubber and other materials abrasion test.

Second: The principle

The method is using the standard knife cutting the specimen, and then using the regulated models of abrasive wheel with loading weight to do abrasion test. Specimen to be removed after rotation to reach a certain number, observe the condition of the specimen or compare the weight with the previous materials

Third: Carried Standards

The machine can be based on DIN-53754,53799,53109,52347, TAPPI-T476, ASTM-D3884, D1175 etc.



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Fourth: Technical Specifications

Abrasion Wheel: Diameter 2 inches, Width 1/2 inches

Test Rotating Speed: Use stepper motor, 1-82RPM, adjustable (default set value 60RPM)

Loading: 250g, 500g, 750g, 1000g

Counter: 0~999999

Specimen Size: $\phi 110\text{mm}$, center hole $\phi 7.5\text{mm}$

Standard accessories:

- Vacuum cleaner 1
- Paster 3 pieces
- Abrasive paper 3 pieces
- 250g, 500g, 750g weight each for 2
- Wrench 1
- Taber Abrasive wheel

Power: AC220V / 50HZ

Picture of machine





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Control Panel



4. Operating Instructions

Test preparation:

1. The test sample is fixed on the turntable, select the needed test weight loaded on, and make sure that abrasive wheel not contact the sample test fixture during the test.
2. Setting the test numbers, the machine is in the test state.

Operating steps:

1. Connect suitable power supply (220V).
2. Rotating the test round plate manually, ensure the abrasive wheel does not contact the clamp during testing.
3. Turn on the power then test run machine. Turn off the power if there is no abnormalities.
4. Instruction of Control Panel:

POWER: Power button, turn on and turn off the the power.

RUN: Start testing button



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STOP: Stop testing button

CLR: Zero clearing button

SET: Set button, modify test number, after setting, confirm and return to normal status.



Value increment key



Value decrease key



Left shift key



Right shift key



SP: Test Speed

TM: Set Test Number

ADD TIMES: Real Test Number

Turn on the power, press the **SET** key, the display as shown in Figure,





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Then press   to choose the count mode, 0 means Count Forward, 1 means Count Backward

Press   to change the setting numbers. Move to the corresponding

position you wanna modify, then via   key to increase or decrease. After setting test number, press **SET** key to exit the modify state.

After setting, press **RUN** button to start the test, the machine will automatically stops when it reached your set value. If you want to half-stopping, press the **STOP** key, then press the **RUN** key to continue the test. For the next test, press the **CLR** key to clear data.

5. press the RUN button, machine will enter the test status.
6. Open the vacuum cleaner power, so that it began to work.
7. When the test counters reach the set value , it will automatic stop, then in the standby mode.
8. Turn off the power, remove the test sample, clean the machine.

5. Maintenance

1. The instrument must be placed on stable table.
2. It is not allowed to move the machine during use
3. Select the appropriate supply voltage, not too high to avoid burning;
4. When the instrument is abnormal, please contact us for timely processing;
4. Machine must work in ventilation environment
6. Please add oil to the mechanical parts, due to the larger load operation, ;
7. Cleaning machine, keep the machine clean after complete each test
8. Clean with dry cloth, not with a damp cloth.



6. Troubleshooting

1. If you opened the power button but does not display, indicating that no connect power supply or the power indicator was damaged. If the power indicator was damaged, please replace the indicator. If the power supply output terminals are not output, check the power cord or power outlet.
2. If connected power, the power indicator indicating but press the start button the machine does not work, then check whether the relay has dropped or disconnected. If dropped or broken please connect it well. If reply not dropping and disconnection, indicating that the relay has been damaged, it should be replaced.
3. When the test number reached to set value, the motor not stop:
 - (1) The counter was damaged;
 - (2) The counter didn't zero clearing after setting the numbers.
4. If the power indicator light but the counter no display, indicating the counter was damaged, please replace the counter.

7. Quality Assurance

I 、 The guarantee period is 12 months (consumer goods and travel cost are not included).

II 、 The main quality warranty maintenance certificate

1. Please keep this guarantee letter, if you lost it, please connect with us in a month.
2. If this guarantee letter has been altered or it has no our stamp, it is useless.



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III、The following conditions need to pay reasonably even in the assurance period.

1. Natural reasons
2. Operating mistakes
3. Voltage is not fit for our operation instruction
4. Repack it without our guides
5. Damaged for borrowing to others
6. Damaged for authorized machine modification
7. Damaged for authorized calibration
8. Authorized transshipment mistake
9. Serve for long distance area

IV、Notes:

1. Where the original in Guangdong province installation of our products, if the product moved to outside Guangdong-area use, whether or not within the effective warranty period, the transportation and travel expenses of the service personnel should be paid by the client.
2. All customers outside of Guangdong province, whether or not in the warranty period, the service of transportation and travel expenses paid by the customer.