



Leather Softness Testing Machine

Operator's Manual

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-326



Table of Contents

- 1. Notice**
- 2. Summarize**
- 3. Standard**
- 4. Instruments of the apparatus**
- 5. Instruments installation**
- 6. Operation rule**
- 7. Calibration program**
- 8. Quality assurance**
- 9. Quality test report**



1. 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.

2.2 The warning and attention sign of instrument.

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



2. Summarize

Thank you for purchasing our product.

[Apparatus Purpose]

- This instrument is high accuracy of precision and durable equipment, used to test the softness of the leather, such as shoes, furniture and many kinds of leather material testing.

[Principle]

- This machine make use of the Small pneumatic with load application of a force on the probe, and drop down in accordance with a certain speed, pressure natural on the test leather, teen read the leather softness index by the pointer gauge.

3. Standard

This equipment meet the standard IULTCS,IUP/36.

4. Instruments of the apparatus

一、 Instrument structure（Figure 1）：



Figure 1

- A. Digital display gauge: (0.1~10mm)
- B. Pressuring handle
- C. Upper arm loosen button
- D. Upper arm
- E. Sample holder

二、Instrument specification sheet (1)

Item	Specifications
Dimension	50CM×10 CM×25CM
Weight	5.5kg

三、Accessories:



20mm shrink ring $\times 1$ 25mm shrink ring $\times 1$

Pointer to zero calibration circular plate $\times 1$

5. Instruments installation

- 一、 Working environment: Room temperature condition.
- 二、 This instrument is carrying type instrument, please use in a flat place.

6. Operation rule

一、 Prepare specimen:

1.1 Place sample samples at standard space temperature : $20^{\circ}\text{C} \pm 2^{\circ}\text{C}$, Relative humidity: $65 \pm 2\%$ indoor 48 hours; In the test of all leather,the experimental results show that the softness of leather under the same indoor temperature 20°C .As the humidity increases, the softness will change significantly. (Figure 2 for three different purposes leather changes with temperature increasing)

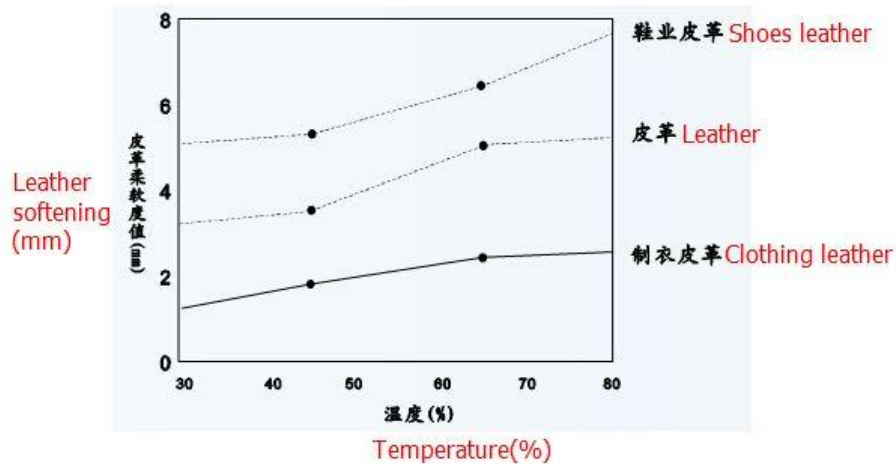


Figure 2

1.2 Specimen sampling:

This test must select the obvious disadvantage of the leather as shown in figure 3: B is the root of the tail, A is the top of the back, $AC=2AB$ AD is a straight line perpendicular to BC, F is the midpoint of the AD, the length of the AE is 50 mm, the midpoint of JK is E and F, they are parallel to BC, the length of each article is equal to EF, the length of each article is equal to EF, that is, the area of the specimen is $HK \times JG$

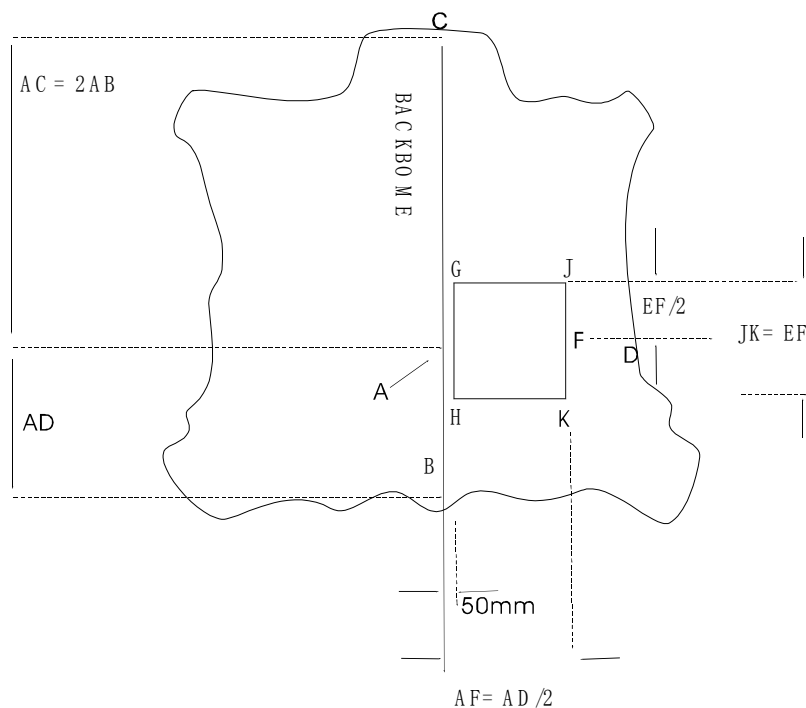


Figure 3



二、Operation steps:

1. Use the calibration circular plate to dial A into zero:

1.1 Press gently hold the handle B down at the same time you can press the button upper arm loose button C ,making the upper arm D lose,then the Upper arm can bounce up.

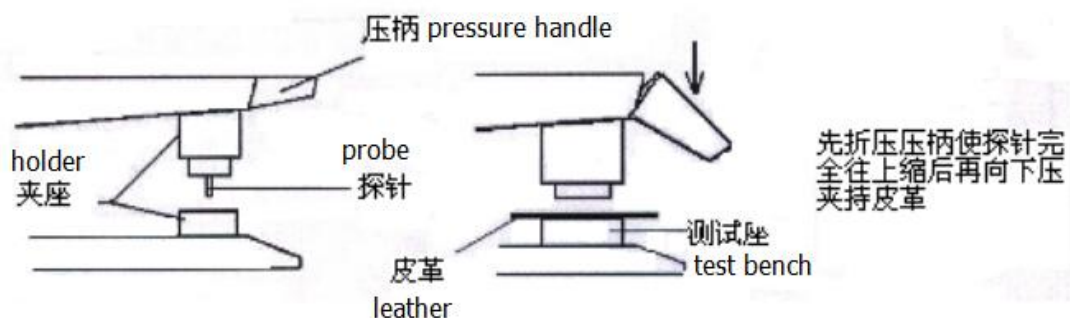
1.2 Put the zero calibration circular plate on test seat, press the pressing handle B until the upper arm is locked, and let it go when you hear the noise , this dial "0" position of A pointer to the instructions.If not, the rotary dial A pointer indicates A "0" position.

2. Start testing:

2.1 Take out after "1.1" upper arm up to zero circular plate, put the test leather on test seat, pressing handle the probe after complete on shrinkage (pictured), and then pressing down on them until the the leather is clamped by the holder,then the upper arm D lock,and let it go when you hear the noise , the dial pointer will indicate leather softness index, and record number.

3.2 Make your upper arm released according to "1.1",then you can remove the specimen.

3.3 Please select the dial the number 3.3 (mm). For calculation.



[Note]

- * Please select the proper shrink ring before testing.
- * 20mm shrink ring: suitable for measuring 《coagulated PU leather for shoes》
- * 25mm shrink ring: suitable for measuring 《leather for sofa》
- * 35mm shrink ring: suitable for measuring 《leather for glove or fur clothing》
- * When the test bench circular hole don't put any shrink ring, it is 35mm
- * If the test value in the range of 0~0.5 test, it have to change a more lager one.

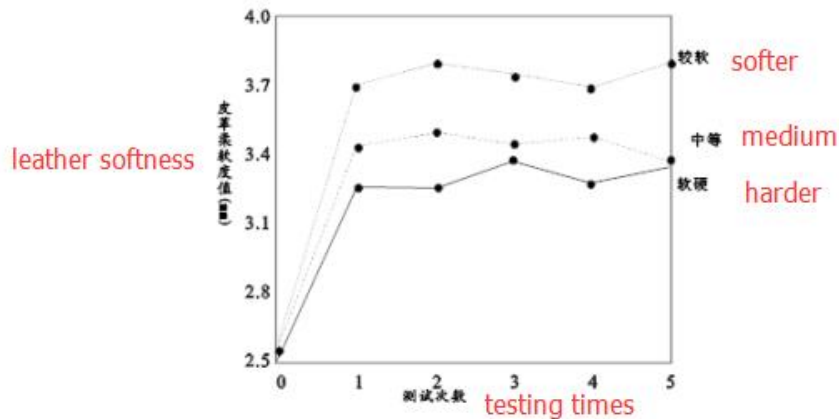


Figure 4

三、Results judgement:

The test specimen are three differences averaged.

The picture 5 is the lever of handmade leather softness.

In most test, the test proved that the bigger number in leather soft dial numerical test machine, the softer the leather will be .

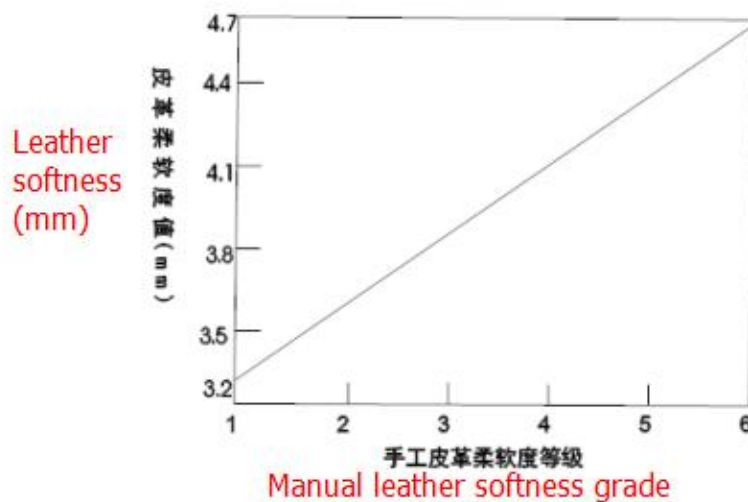


图 5

Figure 5



7. Calibration program

1. Correction item: Ring contraction(20mm.25mm.35mm)
2. Correction tool: Vernier caliper
3. Correction cycle: One year
4. Correction steps: Using the vernier caliper to remove the inner diameter of the vernier caliper, then observe the difference between the standard value and the value of the vernier caliper and calculate the error.

Note

If the error of test value and set value (standard value) in the testing out of the allowed Range, please contact us our company's service staff.



8. Maintenance

1. Before using the instrument must be placed on solid ground.
2. Keep clean of the machine, use cotton cloth to wiping cylinder before and after each experience.
3. Please spray rust preventive lubricating oil on probe every week.
4. When the instrument is abnormal, please contact the timely processing of this order;



5. Parts of wheel gear need to add lubricating oil every month.

8. Quality Assurance

I 、 The guarantee period is twelve 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.

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.



9. Quality test report

Test item	Results	Review	Remark
1 Appearance	OK	OK	
2 Pressure handle	OK	OK	
3 Probe	OK	OK	
4 Holder	OK	OK	
5 Mounting components firmness	OK	OK	
6 Dial gauge	OK	OK	