



PN-CT50KA/BF Box Compression Tester

USER MANUAL



HANGZHOU PNSHAR TECHNOLOGY CO., LTD.

The cover image is for reference only, please read this manual carefully before use and keep it for future reference.

Preface

Thank you for choosing PNSHAR products. To ensure safety and best performance, please read the following instructions carefully. Incorrect installation and use may cause product damage or safety hazards.

PNSHAR follows the principle of continuous development, and sorry for cannot notify you of the subsequent product upgrades or user manual changes, and the upgraded products will be operated in accordance with the new user manual.

Any modification to the product is strictly prohibited! PNSHAR will not assume any responsibility for any problems or accidents caused by unauthorized modification.

PNSHAR promises that each product is produced in strict accordance with the company's process and quality management system. During the product warranty period, if any non-human problems affect normal use, PNSHAR will repair the defective products free after confirmation. For products beyond the warranty period, our company provides chargeable maintenance services for life.

PNSHAR's registered trademark is



HANGZHOU PNSHAR TECHNOLOGY CO., LTD

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Please read the following safety precautions carefully before use

Safety precautions introduce important content related to safety, please be sure to follow them. Safety matters are divided into "danger" and "caution". The meaning is as follows:

Mark	Name	Description
	Danger	There is a danger that may cause damage to the product or personal injury or death.
	Caution	Some problems may affect normal use.



- This product is not an explosion-proof product, and it is forbidden to use in an environment with flammable or explosive gas.
- Do not spill water on the product. If water enters the product accidentally, please cut off the power immediately and stop using it.
- If the product is found broken or deformed when unpacking, please do not use it.



- Before using this tester, please read this manual carefully.
- Please use the tester in an indoor environment.
- Use a dry cloth to wipe the dust on the tester, do not use alcohol, gasoline, or other organic solvents.
- To extend the tester service life, please maintain it regularly.

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Chapter 1 Precautions for tester Installation

- Before testing each day, please turn on the power to warm up for 10 ~ 30 minutes.
- The protective ground wire of the power supply must be reliably connected to the ground, otherwise, the tester cover may be lactiferous and the tester is electrostatically interfered with.
- Once the product is out of control, turn off the power immediately.



The time interval between turning the power switch off and on again must exceed 20 seconds.

Chapter 2 Brief Operating Procedures

1. Power on

Turn on the power and warm up for 10~30 minutes.

2. Choosing Testing Mode

There are three test modes: compression test, fixed value test, and stacking test. Choose one mode.

3. Parameters setting

Compression test:

Set the test speed, initial load, sample size, and Distance.

Fixed value test:

Set the test speed, initial load, sample size, Distance, and fixed value settings (constant force value and deformation).

Stacking test:

Set the test speed, initial load, sample size, Distance, and stacking settings (stacking strength, deformation, heavy load ratio, stacking time).

4. Preparation of sample

Load the preloaded objects into the sample, and seal the package according to the normal packaging procedure at the time of shipment. If you are using a simulated content, its size and physical properties should be as close as possible to the size and physical properties of the preloaded product. Similarly,

the packaging method should be the same as the method used when shipping.

5. Place sample

Place the prepared sample on the center of the lower platen.

6. Test

Press the test button  on the touch screen or the metal button [Test] key to start. The test process displays the force value, deformation, and curve in real-time. The upper platen will be reset after the test is finished, and the test result is displayed on the screen.

7. Data query, statistics, and printing

Each screen displays 10 sets of test data. Data printing is divided into single printing and statistical printing. Select one of the data for single printing.

Unselect it or click the key  and then click the key  for statistical printing.

8. Power off

Turn off the power switch.

Chapter 3 Introduction

PN-CT50KA/BF Compression Tester is a carton compression performance test equipment researched and developed according to relevant standards and regulations. It is mainly suitable for all kinds of small and medium corrugated boxes, such as food and beverage, instant noodle packaging, cosmetic packaging, beer packaging, grain, and oil Packaging, etc.

The tester has three test modes: compression test, fixed value test, and stacking test.

1) Compression test

Measure the ultimate compressive strength and deformation of the box.

2) Fixed value test

Measure whether the box can meet the requirements of the set fixed force value and deformation amount.

3) Stacking test

Simulate the stacking state of the warehouse and test the stacking performance of the box.

Working principle:

Place the test sample between the pressure plates of the tester, and then choose any method:

- a) In the case of compression test, pressurize until the test sample is damaged or reaches the preset load and deformation value.
- b) In the case of a stacking test, apply a preset load until the test sample is damaged or lasts for a preset time.

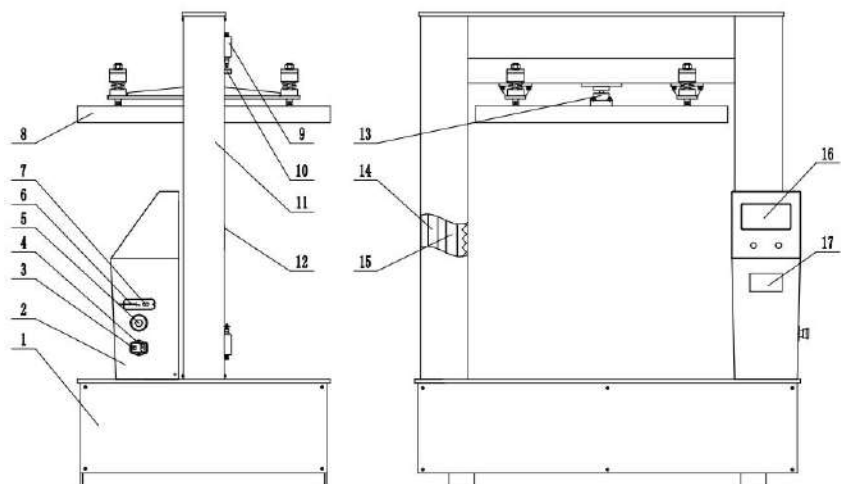
Main technical features:

1. Adopt a new module circuit design, with WIFI IoT function. After networking,

the test results can be saved to the cloud server. Data query, management, reporting, big data analysis and statistics, and visual large-screen display can be performed through the dedicated PN-QMS series quality management system.

2. With emergency stop button, with over-limit, over-range, and other alarm safety protection functions.
3. Adopt ball screw and double guide column structure, thus, having strong stability and high transmission efficiency.
4. Adopt stepper motor(KA)/Servo motor (KB) control, using subdivision technology, accurate positioning, and fast response speed.
5. Adopt a high-speed ARM processor, optimize the test program, preset parameters for one-key testing, and improve test efficiency.
6. With the function of curve and bar graph display, which is convenient for test results checking.
7. Multiple units option: N, kgf, lbf; multi-language operation system switching.
8. Can be connected to designated computer test software, real-time display of force value test curve, massive test data storage and query, management, analysis, statistics, reports, and other functions.

Chapter 4 Tester Structure Diagram



1—Body	2—Control Box	3—Power Socket	4—Power Switch
5—Emergency	6—Antenna	7—Serial Port	8—Upper Platen
9—Limit Switch	10—Limit Block	11—Column Cover	12—Access Cover
13—Sensor	14—Polished Rod	15—Ball Ccrew Rod	16—Display
17—Printer			

Chapter 5 Standard Basis

This product meets the following standards:

GB/T 4857.4 、GB/T 4857.3、ISO 12408、ISO 2234、QB/T 1048。

Chapter 6 Main Technical Parameters

PN-CT50KAF

Item	☐ 600*600*600	☐ 600*800*600	☐ 800*800*800	☐ 1000*1000*1000
Power Supply	AC220 V±10 % 5 A 50/60 Hz（AC110V 可选）			
Indication Error	±1 %			
Indication variability	≤1 %			
Resolution	1 N			
Measuring Range	≤10000 N		≤20000 N	
Deformation error	±0.1 mm			
Platen size	600mm×600mm	600mm×800mm	800mm*800 mm	1000×1000 mm
Parallelism	≤ The length of the long side of the platen*0.2% mm			
Working stroke	（20～600）mm		（20～800）mm	（20～1000）mm
Test speed	（10 ± 1）mm/min （≤150 mm/min can set）			
Back speed	≤150 mm/min			
HMI	5 " Color touch screen		7 " Color touch screen	
Printing	Modular integrated thermal printer			
Communication	WIFI、RS232(standard) / USB（Optional）			
Working Environmen	Indoor temperature 10℃～30℃. relative humidity≤80 %			
Dimensions	1016×630×1200	1036×830×1200	1256×850×1530	1436×1030×1758
Net Weight	About 275 kg	About 300 kg	About 640 kg	About 700 kg

PN-CT50KBF

Item	□800*800*800	□1000*1000*1000	□1200*1200*1200
Power Supply	AC220 V±10 % 10 A 50/60 Hz		
Indication Error	±1 %		
Indication variability	≤1 %		
Resolution	1 N		
Measuring Range	≤30000 N		
Deformation error	±0.1 mm		
Platen size	(800×800) mm	(1000×1000) mm	(1200×1200) mm
Parallelism	≤ The length of the long side of the platen*0.2% mm		
Working stroke	(20～800) mm	(20～1000) mm	(20～1200) mm
Test speed	(10 ± 1) mm/min (≤250 mm/min can set)		
Back speed	≤250 mm/min		
HMI	7 " Color touch screen		
Printing	Modular integrated thermal printer		
Communication	WIFI、RS232(standard) / USB (Optional)		
Working Environment	Indoor temperature 10℃～30℃. relative humidity≤80 %		
Dimensions	1290×850×1647	1490×1050×1847	1690×1250×2050
Net Weight	About 750 kg	About 950 kg	About 1300 kg

Chapter 7 Operating System Diagram

7.1 Operation keys

Image	Name	Function
	[Testing Center]	Test main interface
	[Data Center]	Bar graph display interface, switch to bar graph mode
	[Testing Curve]	Curve display interface, switch to single test curve, and data
	[Setting Center]	Switch to the parameter setting, system function, and technical support interface.
	[Parameter Setting]	Various main test parameter setting interface
	[System Function]	System function interface
	[System Parameters]	Various main system parameter setting interface
	[More Setting]	Other function switch setting interface
	[Optional]	Testing parameter setting interface
	[Tester Calibration]	Tester measurement and control system calibration interface
	[Technical Support]	Product service technical support interface

	[Statistics Button]	Average/maximum/minimum, standard deviation, coefficient of variation interface
	[Delete]	Delete data (choose) or clear data (not choose)
	[Print]	Single printing (selected) and statistical printing (not selected)
	[Save]	Save the settings
	[Test]	Start to test
	[Stop]	Stop testing
	[Back]	Return to the previous
	[Page turning button]	Datacenter, test data page-turning
	[Selection instructions]	To enable the feature
	[Selection instructions]	To enable the feature
	[Sample size]	Length, width, and height of the sample
	[Fixed value setting]	To set fixed values and deformation
	[Stacking]	To set stacking value, deformation, reload ratio, and stacking time

7.2 [Test] interface

Power on, the main interface of [Test] is displayed after the self-check is completed.



7.3 [Data center] interface

(1) [Data]-[Curve] Curve Interface

In the test [curve] interface of [Data], single test data and curves are displayed.



(2) [Data] Bar graph Interface

In the [Test] interface, click the key  to enter the [Data] bar graph

interface, displaying multiple test data and bar graph.



7.4 [Setting] interface

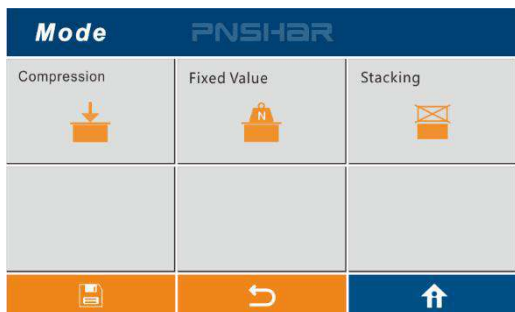
(1) [Parameter setting] interface

In the [Test] interface, click the button  to enter the [Parameter Setting] interface, which mainly has the following parameters or functions: test mode, platen distance, test speed(V Test), return speed(V Back), sample size, fixed value setting, stacking setting and parameters saving.



1) [Mode]

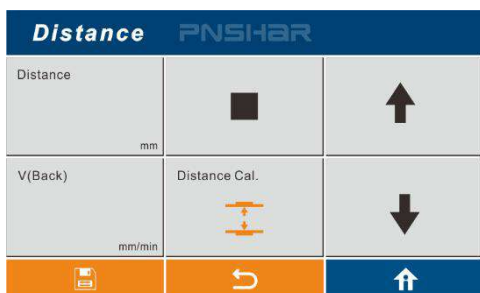
Click [Test Mode] to pop up the test mode selection interface.



indicates the selected test mode.

2) [Distance]

Click the [Distance] key to enter the platen distance setting interface.



The distance between the two plates is set according to the test requirements. You can directly enter the value of the platen spacing, or you can

use the , ,  keys to adjust.

3) [V(Test)]

GB/T 4857.4 stipulates as 10 mm/min.

4) [V(Back)]

The return speed is the speed at which the upper platen is reset at the end of the test, which can be set larger to save test time.

5) [Sample Size]

Click the key  to enter the [Sample size] setting interface.

Sample size PNSHAR		
Length	Width	Height
mm	mm	mm
		

Set the length, width, and height of the sample.

6) [Fixed]

Click the key  to enter the [Fixed value setting] interface.

Fixed PNSHAR		
Force	Deformation	Crushing Back
	mm	
		

Force: the pressure resistance value required by the sample.

Deformation: the maximum allowable deformation of the sample under a constant pressure

Crush back: whether to adopt the crush back condition.

7) [Stacking]

Click the key  to enter the [Stacking] Setting interface.

Stacking PMS-HBR		
Force	Deformation	Reload Ratio
	mm	%
Time	Crushing Back	
min		
		

Force: the required stacking force value of the sample.

Deformation: the maximum allowable deformation of the sample under the pressure of stacking forces.

Reload ratio: the fluctuation ratio of stacking intensity.

Time: Stacking time, according to user usage.

Crush back: whether to use the crush back condition.

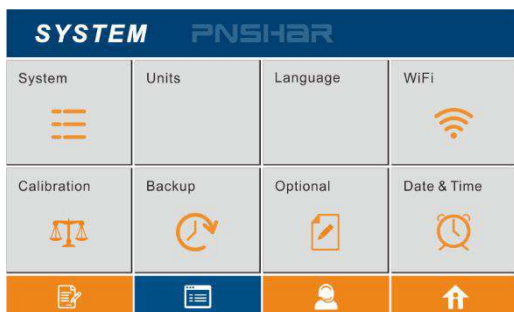
8) [Save]

The modified parameters will take effect immediately. If you do not save the parameters, the parameters will be restored to the last saved values when you

turn on the machine next time. The parameter save password is "1253".

(2) [System] interface

In the [Test] interface, click the key  to enter the [System] interface, which has the following parameters or functions: system parameters, unit switching, language selection, network settings, tester calibration, backup recovery, optional, and time settings.



1) [System parameters]

Do not modify any parameter in this interface at will, otherwise, the tester may malfunction!

System PMSHAR			
01.kf	02.kp	03.kr	04.MF
05.MS	06.LD	07.HT	08.FR
09.AD	10.EC	11.TF	12.DT
13.TC			
ID	VS		

➤ [More]

In the [Parameters] interface, press the key  to enable other function switches. Do not modify at will, otherwise, the tester may have a problem!

More PMSHAR			
01. Enable Motor Release	02. Enable Hold Time	03. Enable Drop Ratio	04. Enable Slope
05. Connect MTS	06. Connect ERP	07. Enhanced AD Filtering	08. Zero Tracking
09. Enable Quick Test	10. Enable Remove Interstice	11. Connect Lims	

2) [Units]

There are three types of units for your choice: N、kgf、lbf.

- ✧ 1 N = 0.101971 kgf = 0.225 lbf
- ✧ 1 kgf = 9.80665 N = 2.205 lbf
- ✧ 1 lbf = 0.04536 kgf = 4.448 N

<i>Units</i> PMSHAR		
<i>N</i>	<i>kgf</i>	<i>lbf</i>
		



indicates the selected unit

3) [Language]

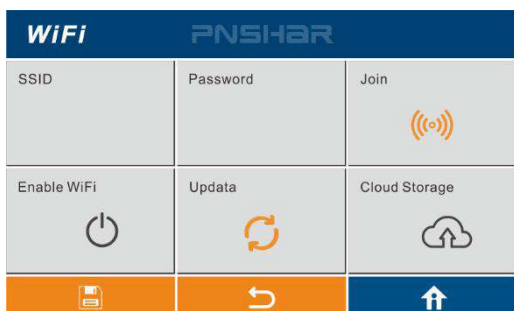
The system has two languages for your choice. The tester needs to be restarted after the language switch.



indicates the selected language.

4) 【WiFi】

Wireless WiFi network connection setting interface (only 2.4G WiFi network is supported).



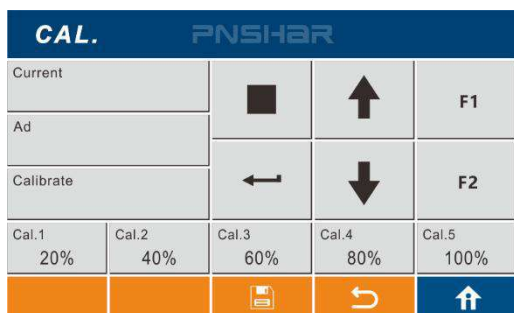
- ✧ **SSID:** the user name of the wireless network.
- ✧ **Password:** The password of the wireless network.
- ✧ **Join:** After entering the network name and key, click [Connect to the

network] to connect to the network.

- ✧ **Enable WiFi:** black means not to enable, orange means to enable network.
- ✧ **Updates:** update the system software under the network status (**please do it under the guidance of our professional staff!**).
- ✧ **Cloud Storage:** black means not enabled, while the orange icon means that the data cloud storage function is on, and the test data will be saved automatically to the cloud server.

5) [Calibration]

The tester should be calibrated regularly as needed. The recommended calibration period is one year. See chapter 9 for details.



6) [Backup]



- ✧ **Backup:** back up current parameters to the system backup area. Click the [Backup] button, enter the password "1263", and prompt "Operation Complete" to complete the backup parameters.
- ✧ **Recovery:** Overwrite the current parameters with the backup parameters. Click the [Recovery] button, enter the password "1263", and prompt "Please restart the tester" to complete the restoration of parameters.
- ✧ **Default:** tester production debugging parameters, **users should not operate!**

7) Optional

In the [System] interface, click the key  to enter the [Optional] interface.

Optional PNS142R		
Initial Load	Drop Ratio	
	%	
		

➤ Initial Load

In measuring deformation, the initial load (Datum point), unless otherwise specified, shall be taken at an initial load which is a function of the expected average compression load according to table 1.

Table 1

Average compression load(N)	Datum point (N)
101~200	10

201~1000	25
1001~2000	100
2001~10000	250
10001~20000	1000
20001~100000	2500

➤ Drop Ratio

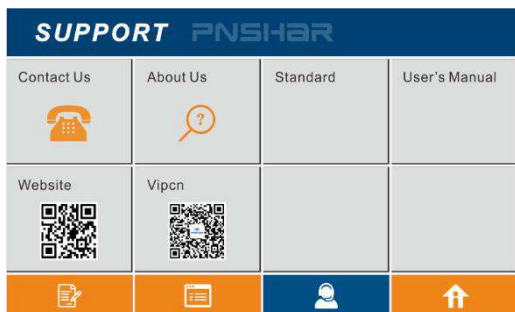
The force value will be reduced when the sample has been crushed, the test is finished when the force value reduces to the pre-setup value. If set the crushing ratio = **85%**, and the maximum value of the sample is **1000N**, the test will over when the pressure drop to **850N**. Default 85% at factory.

8) [Time]

Modify system time and date, input format: year + month + day + hour + minute + second. Enter the date and time in the pop-up number input dialog box, click [Enter] to confirm, and [ESC] to cancel.

7.5 [Support] Interface

In the [Test Center], press the  →  button to enter the [Support] interface to obtain related manuals, operation videos, or related information.



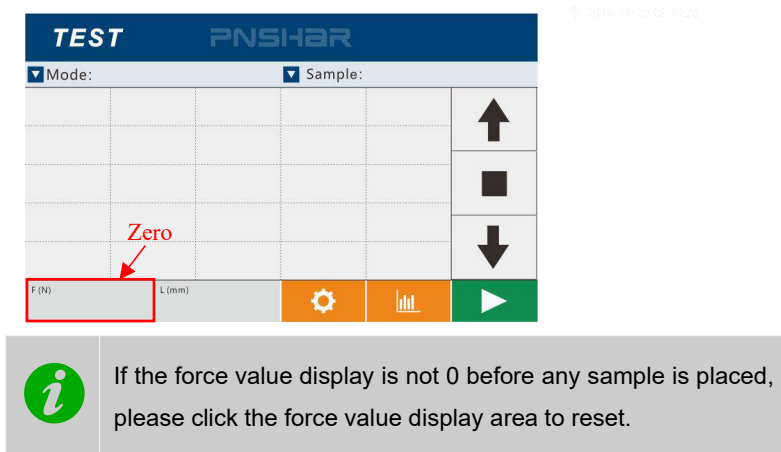
Chapter 8 Test

8.1 Power on

Turn on the power of the tester and the system self-checks as shown in the figure below:



After the self-check is completed, enter the [Test] interface, as shown in the figure below:



8.2 Sample information setting

In the [Test] interface, click the button  on the left side of the [Sample] to display company information, tester, remarks, and return, and click the corresponding option to operate.



- ✧ **Sample:** the number of the tested sample (within 16 English characters or numbers).
- ✧ **Company:** company name (less than 16 English characters or numbers)
- ✧ **Tester:** Operator's name (less than 8 English characters or numbers).
- ✧ **Remarks:** Other remarks (less than 8 English characters or numbers).
- ✧ **Return:** Exit

8.3 Sampling and treatment

The sample is taken according to ISO 186, and the treatment is according to ISO 187.

8.4 Test

(1) Compression Test

➤ Parameters Setting

V(Test) (10 mm/min) , Distance, Initial Load, detail refer to chapter 7.

➤ Place Sample

Place the sample in the center of the lower platen.



➤ Test

Press  on the touch screen or the metal button [Test] key to start until the sample collapse. The test process displays the force value, deformation, and curve in real-time. The test is over and reset, and the test result is displayed on the screen. As shown below:



Follow the above to test multiple samples. The tester can save up to 10 test results, and if there are more than 10, the latest 10 test results will be saved.

Single print report style:

Test Report

INSTRUMENT:PN-CT50KF(PNSHAR)
 Sample: PNSHAR123456789
 Test mode: Compression
 Length: 100.0 mm
 Width: 100.0 mm
 Height: 100.0 mm

01: F = 5990 N
 L = 9.79 mm

D:2020-12-10 T:16:32:54
 Remark:
 Tester:

Statistical print report style:

Test Report

INSTRUMENT:PN-CT50KF(PNSHAR)
 Sample: PNSHAR123456789
 Test mode: Compression
 Length: 100.0 mm
 Width: 100.0 mm
 Height: 100.0 mm
 Total:03

01: F = 5990 N
 02: F = 5889 N
 03: F = 5992 N

F(ave) = 5957 N
 L(ave) = 3.64 mm

Min(F) = 5889 N
 Max(F) = 5992 N
 SD=58.9 N
 CV= 9.9 %

D:2020-12-10 T:16:32:54
 Remark:
 Tester:

Test report description:

- ✧ 01, 02, 03: is the test serial number.
- ✧ Average force value-F: the average value of the force values of multiple samples in the same batch.
- ✧ Average deformation: the average deformation of multiple samples in the same batch.
- ✧ Standard Deviation-SD describes the average of the distance (deviation from the mean) that each data deviates from the mean. It is the square root of the square sum of the deviation from the mean.
- ✧ Coefficient of Variation-CV: The ratio of standard deviation to average.

(2) Fixed Value Test

➤ Parameters Setting

V(Test) (10 mm/min) , Distance, Initial Load, fixed value, detail refer to chapter 7.

➤ Place Sample

Place the sample in the center of the lower platen.



➤ Test

Press  on the touch screen or the metal button [Test] key to start Until the fixed value condition is reached. The test process displays the force value, deformation, and curve in real-time. The test is over and reset, and the test result is displayed on the screen. As shown below:



Follow the above to test multiple samples. The tester can save up to 10 test results, and if there are more than 10, the latest 10 test results will be saved.

Single print report style:

Test Report
=====
INSTRUMENT:PN-CT50KF(PNSHAR)
Sample: PNSHAR123456789
Test mode: Fixed Value
Length: 100.0 mm
Width: 100.0 mm
Height: 100.0 mm

01: F = 1000 N
L = 4.74 mm

D:2020-12-10 T:16:32:54
Remark:
Tester:

Statistical print report style:

Test Report
=====
INSTRUMENT:PN-CT50KF(PNSHAR)
Sample: PNSHAR123456789
Test mode: Fixed Value
Length: 100.0 mm
Width: 100.0 mm
Height: 100.0 mm
Total:03

01: F = 1000 N
02: F = 1000 N
03: F = 1000 N

F(ave)= 1000 N
L(ave) = 5.79 mm

Min(F) = 1000 N
Max(F) = 1000 N
SD= 0.0 N
CV= 0.0 %

D:2020-12-10 T:16:32:54
Remark:
Tester:

Test report description:

- ✧ 01, 02,03: is the test serial number.
- ✧ Average force value-F: the average value of the force values of multiple samples in the same batch.
- ✧ Average deformation: the average deformation of multiple samples in the same batch.
- ✧ Standard Deviation-SD describes the average of the distance (deviation from the mean) that each data deviates from the mean. It is the square root of the square sum of the deviation from the mean.
- ✧ Coefficient of Variation-CV: The ratio of standard deviation to average.

(3) Stacking Test

➤ Parameters Setting

V(Test) (10 mm/min) , Distance, Initial Load, stacking, detail refer to chapter 7.

➤ Place Sample

Place the sample on the center of the lower platen.



➤ Test

Press  on the touch screen or the metal button [Test] key to start. Until the stacking condition is reached. The test process displays the force value, deformation, and curve in real-time. The test is over and reset, and the test result is displayed on the screen. As shown below:



Follow the above to test multiple samples. The tester can save up to 10 test results, and if there are more than 10, the latest 10 test results will be saved.

Single print report style:

Test Report
=====
INSTRUMENT:PN-CT50KF(PNSHAR)
Sample: PNSHAR123456789
Test mode: Stacking
Length: 100.0 mm
Width: 100.0 mm
Height: 100.0 mm

01: F = 1000 N
L = 4.49 mm
T = 2.0 min

D:2020-12-10 T:16:32:54
Remark:
Tester:

Statistical print report style:

Test Report
=====
INSTRUMENT:PN-CT50KF(PNSHAR)
Sample: PNSHAR123456789
Test mode: Stacking
Length: 100.0 mm
Width: 100.0 mm
Height: 100.0 mm
Total:02

01: F = 1000 N
02: F = 1000 N

F (ave) = 1000 N
L(ave) = 4.18 mm
T(ave) = 3.5 min

Min(F) = 1000 N
Max(F) = 1000 N
SD= 0.0 N
CV= 0.0 %

D:2020-12-10 T:16:32:54
Remark:
Tester:

Test report description:

- ✧ 01, 02, 03: is the test serial number.
- ✧ Average force value-F: the average value of the force values of multiple samples in the same batch.
- ✧ Average deformation: the average deformation of multiple samples in the same batch.
- ✧ Standard Deviation-SD describes the average of the distance (deviation from the mean) that each data deviates from the mean. It is the square root of the square sum of the deviation from the mean.
- ✧ Coefficient of Variation-CV: The ratio of standard deviation to average.

8.5 Testing result processing

(1) Single test result curve display

In the test [curve] interface of [Data Center], you can query all test results by pressing the key   and can also perform operations such as printing and deleting.



(2) Bar graph display

In the [Test Curve] interface, press the key  to display the test result in a bar graph.



Click [Force value N] to pop up the force etc. option. select according to your

needs.

(3) Data deletion

Select one or more data and press the key  to delete the selected data.

without selecting any data, press the key  to clear all the saved test data.

(4) Data statistics

In the [Data Center] interface, press the key  to display the statistical report of all test results this time, including the average, maximum, minimum, standard deviation, and coefficient of variation.

Statistics PMSHAR			
Sample		Ave	
Test Num		Min	
Remark		Max	
Tester		SD	
		CV	
			

(5) Result printing

Single print:

Select one or more data, click the key  to print the selected data.

Statistics printing:

Click the [Statistics] key first, then click the key  to print the statistics

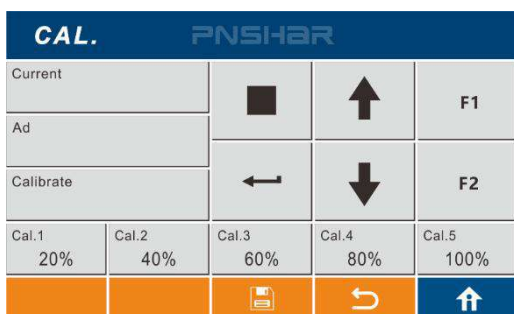
report.

Chapter 9 Tester Calibration and Maintenance

Calibration includes force value calibration and screen calibration. For force value calibration, please operate by professionals with metrological qualifications. The general calibration cycle is one year.

9.1 Force calibration

In the [Test] interface, click the  →  →  key to get into the calibration interface.



Before calibration, apply the maximum test force at least three times as the preload (add force to full scale, repeat 3 times).

The calibration adopts a standard dynamometer, place the sensor of the standard dynamometer in the middle position of the pressure plate of the tester then adjusts the distance between the pressure plates to a suitable position and set the return speed to 1 mm/min. Perform calibration at calibration point 4 (80% of full scale). Observe the force value displayed on the tester. If the deviation

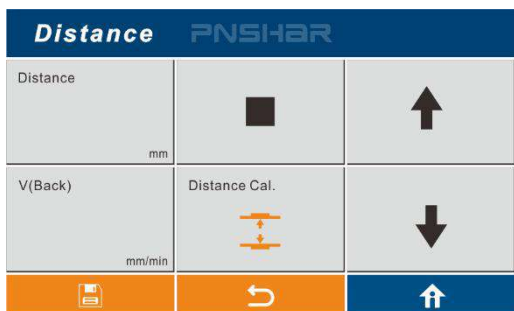
from the standard dynamometer exceeds 1%, calibrate it.

Click [Calibrate] to pop up a digital dialog box, enter the force value of the standard dynamometer, and then click , enter "1253", and the calibration is completed. and other calibration points can be calibrated as needed.

9.2 Distance Calibration

If there is a deviation between the platens displayed by the tester and the actual distance value, distance calibration is required.

In the test center, click  →  → [Distance] to enter the spacing calibration interface.



Measure the actual distance between the upper and lower platens, click the [distance calibration] button, the numeric keyboard will pop up, and then enter the actual distance between the upper and lower pressure plates.



The actual distance between the upper and lower platens is accurate at 0.1mm.

9.3 Maintenance of the tester

- To prolong the service life of the instrument and reduce the abrasion of

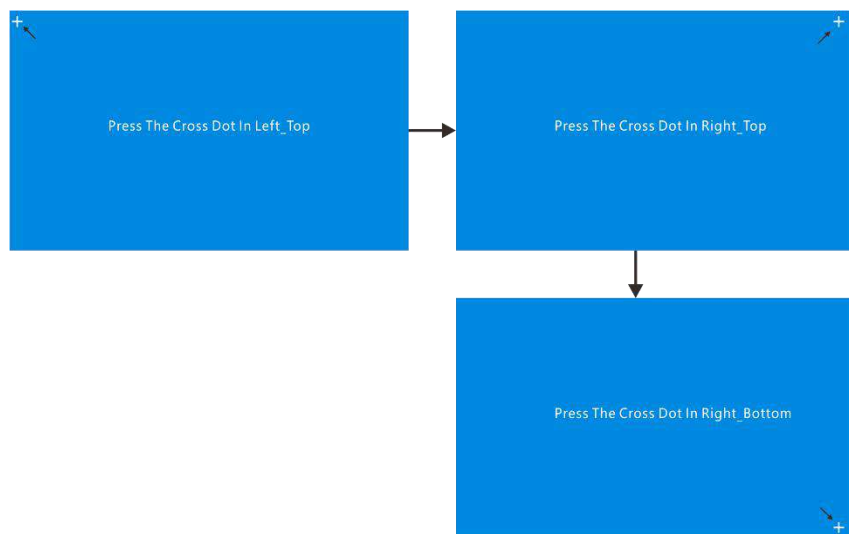
mechanical parts, grease the polished rod (14) and Ball screw rod (15) regularly (usually about half a year).

- Keep instrument clean.
- Long time when not in use, be sure to take down the power plug from the power socket.



9.4 Screen calibration

If the touch screen button does not work well, or the position is offset, you can perform touch screen calibration. Tap the middle curve display area of the [Test Center] interface more than 10 times in quick succession, stop tapping after hearing the buzzer, enter the touch screen calibration mode, follow the prompts to tap the position of the cross line, after calibration, return Test center interface.



Chapter 10 Intelligent Information Network Connection

The tester has a variety of connection forms, which can be connected to a computer via USB, serial port, WIFI network, and transmit test data to a designated local or cloud server.

10.1 Wireless network connection

Refer to the description in Chapter 7 for the wireless connection method. After networking, turn on the [Data Storage] function, and the test results can be transmitted to the server in real-time via the WIFI network for use by the management system.

10.2 Other forms of connection

In [Test Center], press  →  →  →  to enter the [More Settings] interface.



 Indicates that it is selected, press , and enter the password "1263" to save the settings.

✧ 05 Connect MTS:

Connect PNSHAR professional test software.

✧ 06 Connect to ERP:

Connect PNSHAR PN-QMS series quality management system software.

✧ 11 Connect to Lims:

Connect to the customer's LIMS or ERP management system (connection agreement can be customized).

Chapter 11 Troubleshooting

Fault 1: Distance is not accurate.

Reason:

When the upper platen is moving, it stops abruptly affected by artificial influence.

Solution:

Distance calibration.

Fault 2: The force value is always zero

Reason:

1) The force value coefficient is lost. 2) The sensor is damaged.

Solution:

1) Restore the parameters or contact our company to manually correct the force value coefficient. 2) Replace the sensor.

Fault 3: Inaccurate position of touch screen buttons

Reason:

The touch area of the touch screen is offset.

Solution:

Perform calibration according to the method of screen calibration.

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View User Manual



Focus on Website