

hanatek

Crease and Board Stiffness Tester



MODEL CBT1

QUICK START OPERATING MANUAL

**Rhopoint Instruments
Bexhill on Sea
TN39 3LG**

**Tel. No. +44 (0)1424 739623
Fax No. +44 (0)124 730600**

www.hanatekinstruments.com

PACKING LIST

CBT1 Crease and Board Stiffness Tester
Crease and Board Sample Cutter
1x RS232 Data Cable
Software CD
Instruction Manual
Quick Start Operating Manual
Instrument Certificate
Cutter Certificate

NOTES

For further details of the test method and results interpretation please refer to

PMI 068 - Philip Morris No. 068: Determination of the spring-back force of scores of packaging materials.

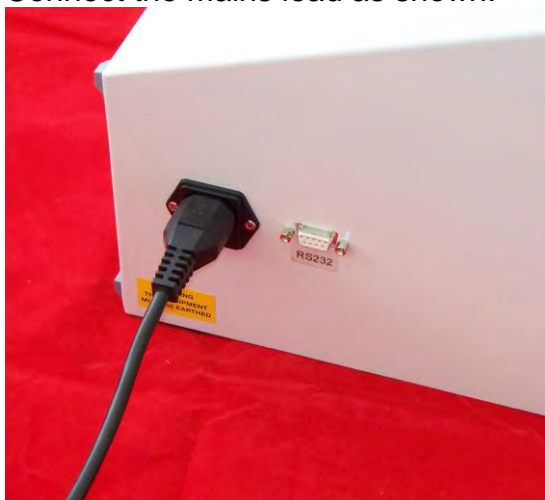
BS 6965:1 - Creasing properties of carton board. Method for determination of crease recovery (spring back) of carton fold

BS 3748 - Method for determination of resistance to bending of paper and board

Full details of calibration checks and software connection can be found in CBT1 Instruction Manual

ASSEMBLY

- 1.0 Connect the mains lead as shown.



- 2.0 Press the on/off switch to power up the instrument.



- 1.0 To zero the instrument, press this button.

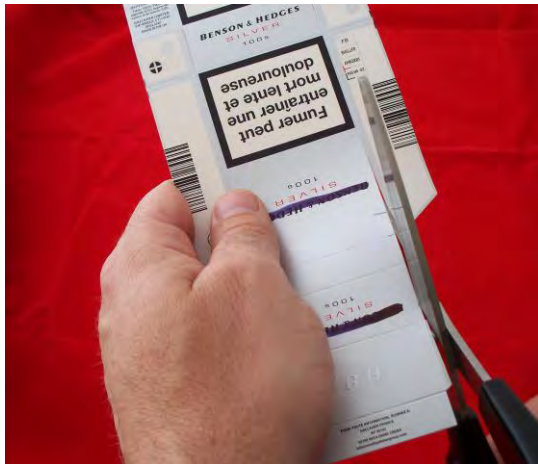


CREASE RESISTANCE-SAMPLE PREPARATION AND TEST

1.0 Identify the crease to be measured.



2.0 Remove excess material so that the carton fits in the sample cutter



3.0 Place the sample in the cutter



4.0 Press down to cut the sample.

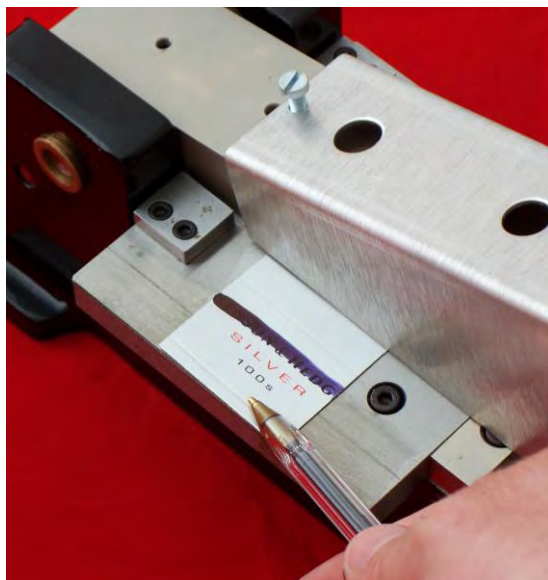


5.0 Place the sample in the cutter with the test crease along the line.



6.0 Press down to cut the sample.

- 7.0 Rotate the sample through 180° so that the edge of the sample is level with the edge of the platen.



- 8.0 Push down to make the final cut.
9.0 The sample is now ready for testing.



10.0 Place the sample in the right jaw.



11.0 Turn the jaw fully through 90°.



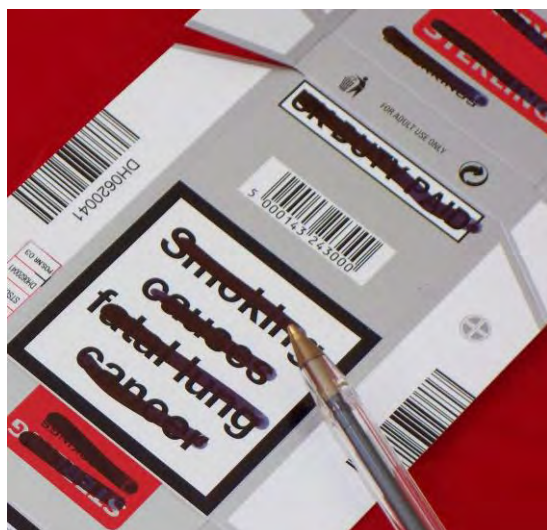
12.0 Wait until the timer light is extinguished.

13.0 Record the crease resistance value for the sample.

14.0 The test is now complete.

BOARD STIFFNESS-SAMPLE PREPARATION AND TEST

1.0 Identify the area of board to be measured.



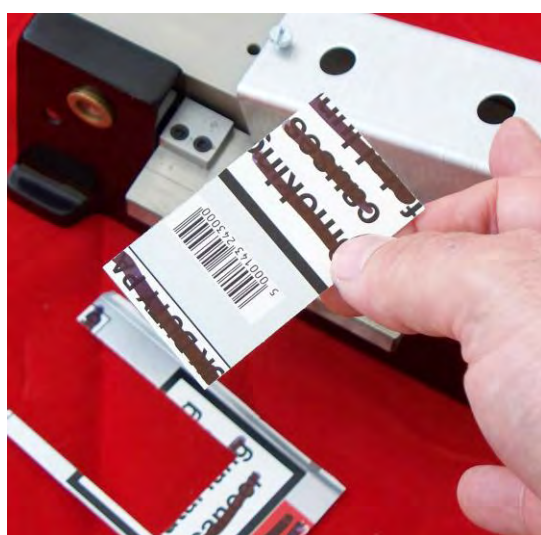
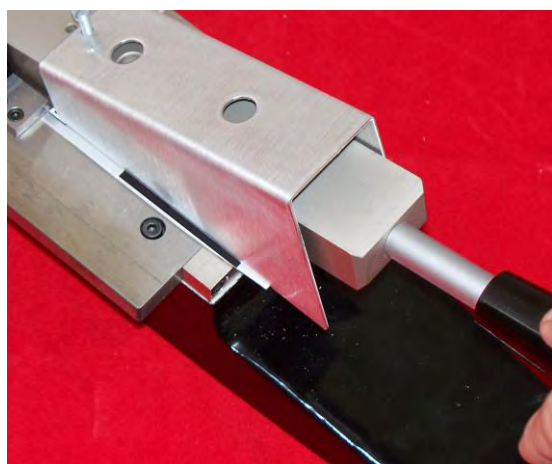
2.0 Remove excess material so that the carton fits in the sample cutter.



3.0 Place the trimmed sample in the cutter.



4.0 Press Down to cut the sample.

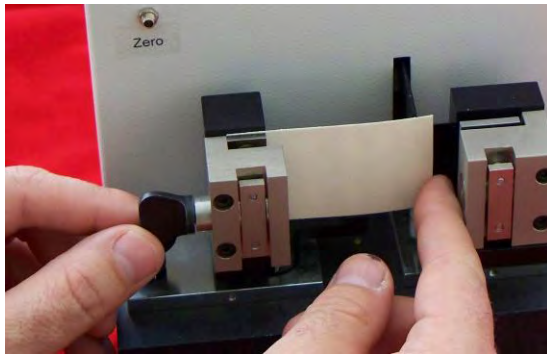


5.0 Remove the cut sample from the side of the sample cutter.

6.0 To zero the instrument, press this button.

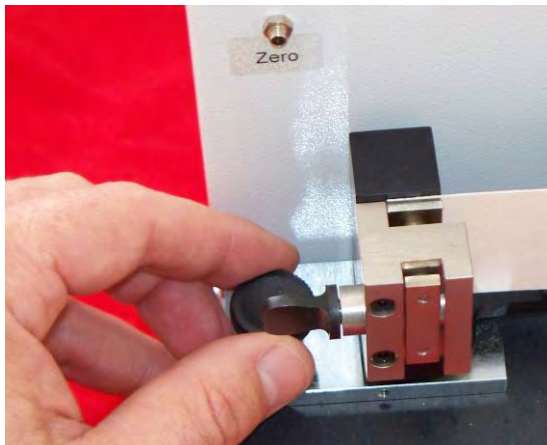


15.0 Place the sample in the left jaw.



16.0 If the sample has any curl, the jaw position should be adjusted so that the end of the sample is next to the load cell blade.

17.0 Unscrew this knob and adjust the jaw so that the end of the sample is 1-2mm from the load cell blade.





- 18.0 Turn the jaw through full 15°.
- 19.0 Wait until the timer light is extinguished.
- 20.0 Record the board stiffness value for the sample.
- 21.0 The test is now complete.

SERVICE

Contact- HANATEK Instruments:

Telephone No: +44 (0)1424 739623

Fax Number: +44 (0)1424 730600

E-mail: sales@hanatekinstruments.com

Web Site: www.hanatekinstruments.com

EU Directive 2002/96/EC on WEEE (Waste Electrical & Electronic Equipment) and RoHS (Restriction of the use of certain Hazardous Substances).

The European Union's Directive on Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (ROHS) defines each of 10 categories of electrical and electronic equipment in Annex I . Category 9 is defined as follows:

9. Monitoring and control instruments
 - Smoke detector
 - Heating regulators
 - Thermostats
 - Measuring, weighing, or adjusting appliances for household or as laboratory equipment
 - Other monitoring and control instruments used in industrial installations (e.g. in control panels).

The RoHS Directive defines the scope of restrictions in Article 2 as follows:

"1. Without prejudice to Article 6, this Directive shall apply to electrical and electronic equipment falling under the categories 1, 2, 3, 4, 5, 6, 7 and 10 set out in Annex IA to Directive No 2002/96/EC (WEEE) and to electric light bulbs, and luminaires in households."

This product is supplied as a Monitoring and Control instrument and as such falls within category 9 of the EU directive 2002/96/EC and so is excluded from restrictions under the scope of the RoHS Directive.

The Waste Electrical and Electronic Equipment Directive is intended to reduce the amount of harmful substances that are added to the environment by the inappropriate disposal of these products through municipal waste.

Some of the materials contained in electrical and electronic products can damage the environment and are potentially hazardous to human health; for this reason the products are marked with the crossed out wheelie bin symbol which indicates that they must not be disposed of via unsorted municipal waste.

Rhpoint Instruments Ltd have arranged a means for our customers to have products that have reached the end of their useful life safely recycled. We encourage all end users to us at the end of the product's life to return their purchase to us for recycling as per Article 9 of the WEEE Directive.

Please contact us on +44 (0) 1424-739622 and we will advise on the process for returning these waste products so we can all contribute to the safe recycling of these materials.