

hanatek

Incline Plane Tester



OPERATING MANUAL

**Rhopoint Instruments
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www.hanatekinstruments.com

PACKING LIST

Incline Plane Tester
Bull's Eye Spirit Level
Calibration Certificate
Sample Securing Magnets
Calibrated Sled
Power Adapter and Cables

OPTIONAL EXTRAS

Hanatek Results Printer

WARNING – THE HANATEK IPT HAS MOVING PARTS WHICH MAY CONSTITUTE A PINCHING RISK FOR FINGERS.

REASONABLE CARE MUST BE TAKEN AT ALL TIMES – DO NOT TOUCH THE MOVING PARTS DURING OPERATION AND ENSURE HAIR AND CLOTHING IS KEPT CLEAR.

ASSEMBLY

1.0 Unpack the unit carefully and check the contents against the packing list.

2.0 Place the instrument on a suitable bench.

Avoid using the instrument in areas where vibration may affect the readings; i.e. close to heavy machinery.

3.0 Ensure the instrument is level before use.

Place a spirit level central on the measurement platen and adjust the feet until the spirit level bubble remains central. This is important and must be periodically checked and adjusted every time the equipment is moved.

4.0 Plug the instrument into a suitable main supply using the supplied mains leads.

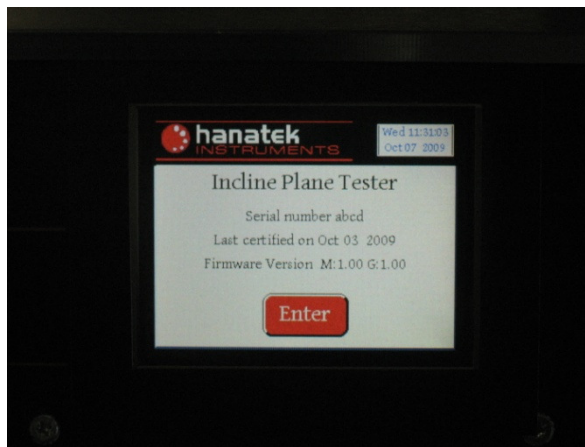
Power Up

Switch on the mains power to power up the instrument.



Calibration Interval

It is recommended that the operation of the instrument is verified using external standards every 12 months.



Set Time/Date & Adjust Calibration

When powering up the instrument press and hold the green and red buttons on the front of the instrument to adjust time and date settings/ calibration constants.

Contact authorised Rhopoint Instruments Agent for more information about instrument calibration.

WARNING- CALIBRATION SHOULD ONLY BE ATTEMPTED BY AUTHORISED CALIBRATION PERSONNEL. FAILURE TO ADHERE TO CALIBRATION ROUTINE MAY RESULT IN ERRONEOUS READINGS.

Sample Preparation

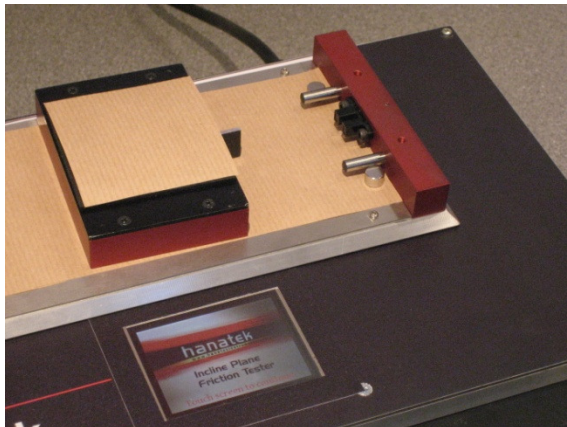
Sled Sample- Cut a sample 64mm x 64mm

This can be either rested under the foam bed during test.

Alternatively it can be fixed to the foam bed with a small piece of double sided tape.



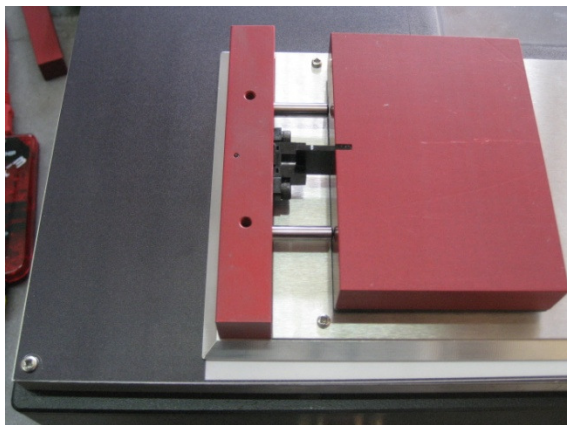
Bed Sample- Cut a sample with a width of 70mm-100mm and between 80-180 mm long, hold it in place with the small magnets.



Placing the Sled

The sled should be placed with the two faces of the sample in contact.

The Black flag at the top of the sled should be placed in the optical sensor as shown.



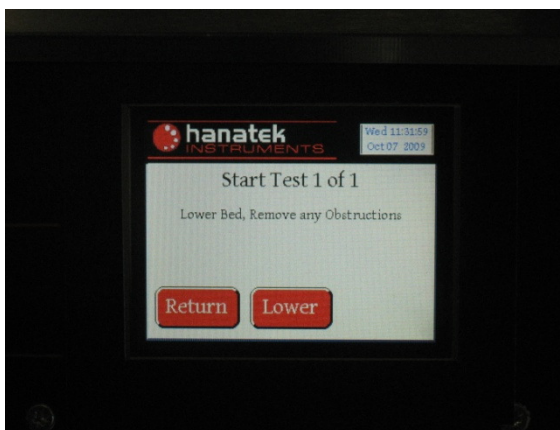
RUNNING A TEST



Press “Test” or the green button to proceed to the test set up screen



Use the +/- to select the number of repeat tests required.
Press the “Next” to proceed to test screen

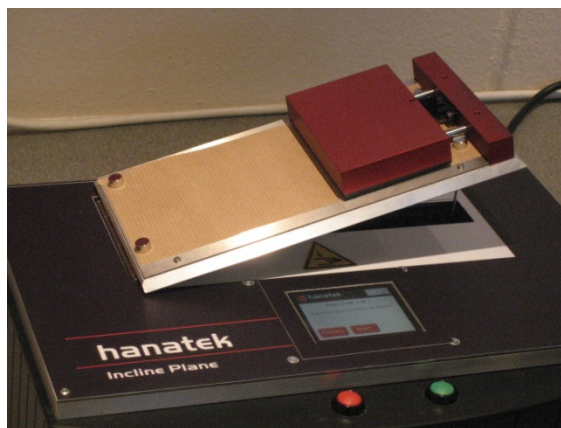


If the plane is raised ensure the lowering area is free from obstructions.
Press “Lower” or the green button to proceed.



Press the start or green button.

Note- The start button is not accessible unless the sample is loaded onto the bed and the black flag is between the optical sensor.



The bed will raise until the sample slips and the COF will be stored. Repeat until all the tests are complete.

Printing Results

Results can be output to the optional Hanatek results printer.



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Instrument SN: SerialNumber
Last Certified: CertDate

Test Date: 01 Aug 09

Test Time: 13:46:10

No. of Samples:	5
Av. Static Friction	0.25
Min/Max Friction:	0.29 0.23
S.Dev.	0.21
Av. Angle:	23.7 °
Min/Max Angle:	22.6 22.1 °
Standard Dev:	1.3

SERVICE

Contact- HANATEK Instruments:

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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 wheelee bin symbol which indicates that they must not be disposed of via unsorted municipal waste.

Rhopoint 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 as 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.