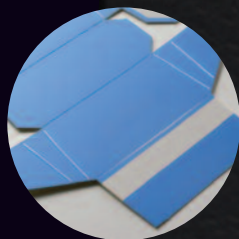


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## Test Equipment for the Packaging Industry



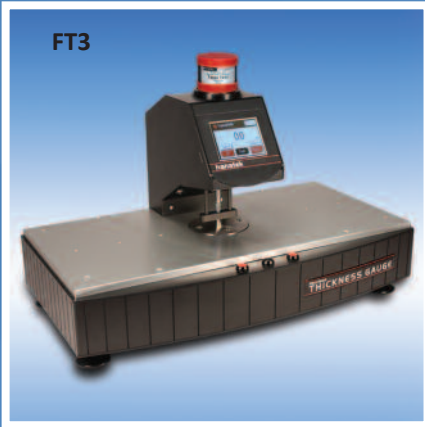
[www.hanatekinstruments.com](http://www.hanatekinstruments.com)

Hanatek products are exclusively  
manufactured and distributed by



# HANATEK INSTRUMENTS –

## Precision Thickness Gauges



- Meet the international standards for testing film, paper, board, textile, tissue and many more
- Repeatability of better than 0.4  $\mu\text{m}$
- Choice of 0.1 or 0.01  $\mu\text{m}$  resolution
- User programmable number of readings, dwell time and down speed
- Variable contact area and contact pressure
- Metric or imperial units
- Easy to use touch screen / integrated software
- Optional date / time stamped results printer

## Novo-Haze TX Transmission Hazemeter

- Measure total transmission and haze
- Measure to ASTM D1003 (CIE C)
- Suitable for plastic films and other transparent materials
- Ideal for for any laboratory or QA environment



RHOPoint	
INSTRUMENTS	
www.rhointstruments.com	
Transmission Hazemeter	
1410 West 10 <sup>th</sup>	784-9574
Fort Collins, CO	805255
Test Date: Oct 04 2016	
Test Time: Mon 06:40:42	
Haze: 18.41 %	
Min: 18.41	Max: 4.00
Mean: 1.21	SD: 13.0198
Transmittance: 85.3 %	
Min: 100.4	Max: 95.3
Mean: 62.6	SD: 13.415
Samples: 2	

# one generation ahead for testing and measurement

## NEW Friction Tester

- Measure static and dynamic friction of a variety of surfaces
- Suitable for production / laboratory environment
- Automated sled lowering and placement for more repeatable testing
- Profile graph displayed in real time, static and dynamic COF figures given at the end of the test
- Easy to use touch screen / integrated software
- Optional date / time stamped results printer



## Advanced Friction Tester



- Measure static and dynamic friction of a variety of surfaces
- Automated sled lowering and placement for more repeatable testing
- Profile graph displayed in real time, static and dynamic COF figures given at the end of the test
- Pre-loaded with ASTM/TAPPI/ISO methods with the ability to create bespoke tests
- Optional attachments provide the facility to conduct peel tests, tear tests and blocking tests
- Detachable heated bed provides testing up to 110 °C

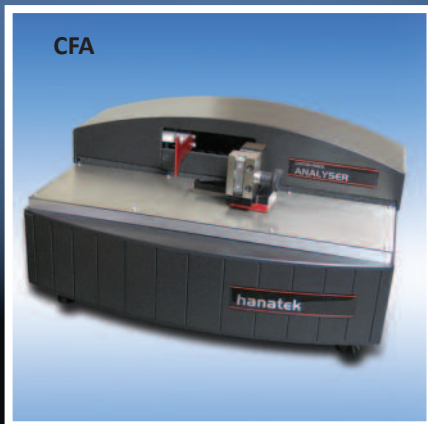
# one generation ahead for testing and measurement

## Crease & Board Stiffness Tester

- Simple and accurate measurement of board stiffness and crease recovery
- Measure crease resistance and 90°
- Measure board stiffness at 90°
- Automatic calculation of crease to stiffness ratio
- Optional attachment for rounded corner packaging



## Carton Force Analyser



- Measure the forces that limit the running speed of folding box board packaging
- Measure carton opening force and carton erection force
- The instrument allows individual creases to be analysed identifying problem areas in packaging design or manufacture
- Touch screen operation for quick, easy use
- Variable sample length, rotation speed & crease angle
- Interactive help routines ensure little training required to operate device
- Pre-loaded with ASTM/TAPPI/ISO methods with the ability to create bespoke tests

# one generation ahead for testing and measurement

## Carton Crease Proofer

- Produce production quality crease samples (width and depth) without committing valuable machine time
- Supplied with commercially produced rules and dies which are identical to those used on a full sized cut and crease machine



## Rub Resistance Tester



- Test the durability of inks and coatings on printed material
- Fully automated touch screen operation
- Choice of weights according to the severity of the test
- Additional attachment for testing scratch and scuff resistance of printed material
- Additional attachment for testing printed material for solvent resistance
- Programmable test cycles allow tests be to performed unsupervised
- Optional date / time stamped results printer



## Melt Flow Indexer

- Compliant to ASTM 1238 Part A, B & C
- Calculate MFI, MVR, melt density, shear stress
- Automatic calculation of test results
- Automatic cleaning cycle



## Film Shrink Tester



- Determine quality of cast and blown films
- Measure unrestrained film shrinkage
- Quick, clean, repeatable measurement

For detailed product information and product demonstration videos of all our Hanatek products visit

[www.hanatekinstruments.com](http://www.hanatekinstruments.com)

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All Hanatek products are designed and manufactured in the UK



Certificate No. FM29741  
ISO 9001:2008

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