

hanatek

www.hanatekinstruments.com

STATIC AND DYNAMIC
COEFFICIENTS OF FRICTION

'T' PEEL TEST

90/180° PEEL TEST

TEAR STRENGTH TEST

BLOCKING TESTS

AFT ADVANCED FRICTION TESTER

Measurement standards
BS • ISO • TAPPI • ASTM



**PREDICT PACKING
PERFORMANCE**

Increase packing speeds

Reduce downtime

Reduce waste

Detailed analysis of surface
friction characteristics

AFT ADVANCED FRICTION TESTER

VERSATILE INSTRUMENT • REPEATABLE MEASUREMENT • EASY TO USE

TOUCH SCREEN INTERFACE

The AFT uses an intuitive touch screen interface making it accessible and easy to use.

Development Tool or Q.A. Instrument

This flexible instrument can be configured for Quality or Research use –

Research Tool

- Create bespoke test methods
- Statistical and graphical analysis of results

Q.A. Instrument

- Preloaded ISO/ASTM/TAPPI/FINAT test Methods
- Date/operator stamped results
- User definable pass/fail criteria with optional password protection.

ON SCREEN GRAPHICAL HELP

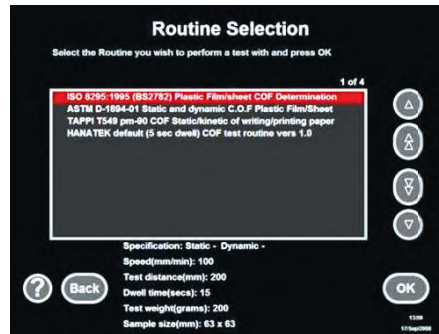
All operations and test methods have comprehensive graphical on-screen help.

- Intuitive and easy to use
- Easy to train new users
- Consistent results for all operators
- No need to consult complicated manuals.

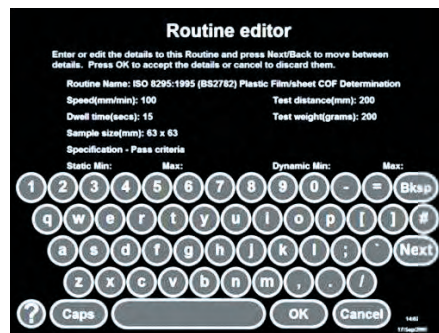
STATIC & DYNAMIC C.O.F. TESTING

Force Curves are created in real time static and Dynamic COF values are displayed for each completed test.

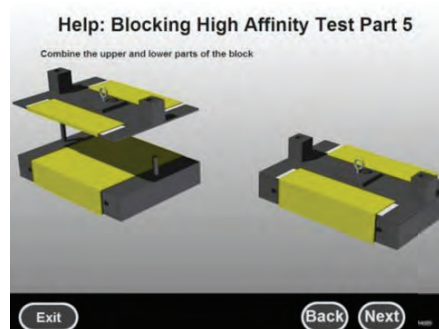
- Automatic sled placement gives more repeatable static slip results
- Graphical & statistical analysis of test results
- Create & store electronic references for future comparison
- On screen graphic instructions are always available to aid repeatable, accurate testing
- Revolutionary easy-load sled supplied for measuring films, cartons and paper
- Pre-loaded ISO/ASTM/TAPPI slip test methods.



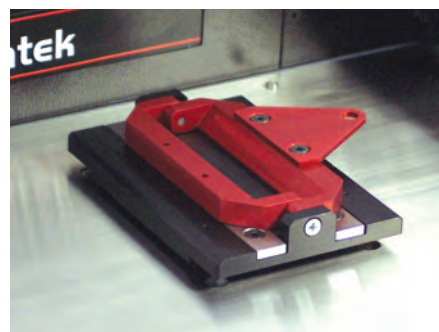
The instrument has pre-loaded test instructions that helps ensure samples are tested to international standards.



The user can create and modify their own test methods. Pass/fail criteria can be included for Q.A. applications.



All operations have on-screen graphical help. Including instructions for sample preparation and testing, software navigation and instrument set-up.



Quick-load friction sled with auto placement system.

AFT

ADVANCED FRICTION TESTER

PEEL TESTING

Optional attachments transform the AFT into a precision peel test instrument, accurately measures the force required to separate glued or laminated films, tapes, labels etc.

- All tests are to FINAT international standards
- T-Peel, 180 Peel or 90 Degree peel tests
- Graphical on-screen instructions
- Force curves and statistical analysis

SUBSTRATE STRENGTH - TEAR TESTING

Optional tear strength attachment allow the user to measure and control tear strength to international standards

- Trousers Tear Method
- Full Graphical instructions and sample templates.

FILMS, LABELS & CARTONS - BLOCKING TESTING

During storage, films, labels or cartons can inadvertently block together making them difficult to separate and feed into finishing or packing lines.

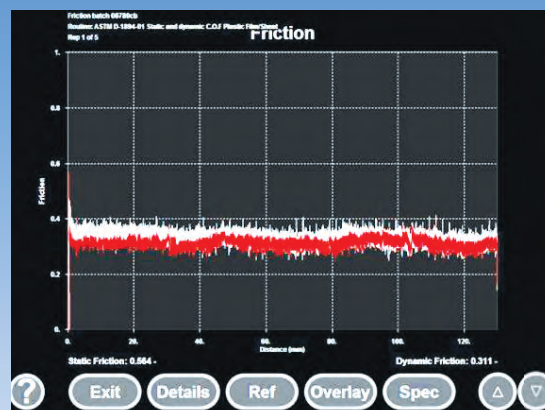
- Measure the force required to separate "blocked" samples
- Full testing and sample conditioning instructions
- Test to international standards.

SAVING, SHARING & PRINTING RESULTS

The instrument can save an almost infinite number of results. Each test automatically generates a detailed batch report that can be output directly to any windows compatible printer.

The AFT can be added to a laboratory PC network and results saved on a shared drive.

For further analysis results can easily be exported to a USB data stick and transferred to any P.C.



All results can be compared graphically- a previously tested reference can also be overlaid to help understand batch to batch consistency and quality.



The instrument calculates detailed statistics for multiple measurements. A detailed report can be printed directly from the instrument.

AFT ADVANCED FRICTION TESTER

The Advanced Friction Tester produces detailed fingerprints of new substrates, coatings and production samples. These characteristics can be saved and compared at any time allowing the manufacturer specify the optimum surface finish for any packaging process.

Surface slip is a key factor when printing, erecting or filling packaging materials on an automatic line. Friction parameters help the manufacturer understand how the finish of a blown film or printed carton can influence the feeding and running speed. In addition to these values the AFT produces detailed force graphs that that can be saved and compared.

Optional attachments are available for the AFT that will measure peel strength, blocking, and tearing of packaging materials. Measuring surface friction is important in many industries, the AFT can be used to measure many materials including plastic, textiles, leather, rubber and flooring.

FEATURES

SAVE AND COMPARE FRICTION PROFILES

Fingerprint, store and compare the slip of production items and laboratory samples. Output in force units (g/mN) and static/dynamic COF.

TOUCH SCREEN OPERATION FOR EASY, REPEATABLE MEASUREMENTS

Minimal training is required to produce high quality results that comply to international standards. Create new test procedures or work within default methods that comply to international standards.

AUTO SLED LOWERING WITH VARIABLE DWELL TIME

Make operator independent measurements within latest industry guidelines and standards.

SPECIFICATIONS

STANDARDS

C.O.F.	ISO 8295, ISO 15359, BS 2782 pt 8, ASTM D1894 TAPPI 549 and T816
Peel/Adhesion	ASTM D4521, D3330 DIN 53375, FINAT 1,2,3,9
Tear Strength	ISO 6383
POWER	110/240V 50/ 60 Hz (please specify)
SLEDS	200g standard 100, 500, 700, 800 or 1000g available as options
WEIGHT	7kg
SIZE	(H) 180 x (W) 550 x (D) 300mm

PREDICT PACKING PERFORMANCE

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OPTIONAL EXTRAS

PEEL TEST

90°, 180° and 'T' peel test attachments measure adhesive strength of tape, labels, low strength bonding agents or packaging seals.

TROUSER TEAR

Measure substrate tear strength to ISO 6383-1.

BLOCK TEST

Measure the blocking characteristics of films or coated cartons.

HEATED MEASUREMENT PLATEN

Test frictional characteristics and blocking at elevated temperatures up to 110°C.



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LOCAL AGENT

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