hanatek

www.hanatekinstruments.com

INCREASE THE RUNNING SPEED OF CARTON PACKAGING

CARTON FORCE ANALYSER

MEASURING ALL THE FORCES REQUIRED TO ERECT AND FILL CARTONS

Optimise packaging design and manufacture

Increase running speeds

Eliminate rejections and reduce waste

Hanatek products are exclusively manufactured and distributed by

RHOPOINT INSTRUMENTS

CARTON FORCE ANALYSER

INCREASE THE RUNNING SPEED OF CARTON PACKAGING

The Hanatek CFA measures the forces that limit the running speed of folding box board packaging.

By measuring the stiffness of the substrate and crease bending resistance the user can optimise cartons for faster running and packaging speeds.

The instrument allows individual creases to be analysed identifying problem areas in packaging design or manufacture.

Industry research indicates that the packaging speeds of pre-glued skillets is governed by the energy required to open creases. The Hanatek CFA is the first instrument to isolate and accurately measure this key parameter.

TOUCH SCREEN INTERFACE

The CFA 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 and save bespoke test methods
- Variable sample length, rotation speed and crease angle
- Statistical and Graphical Analysis of results.

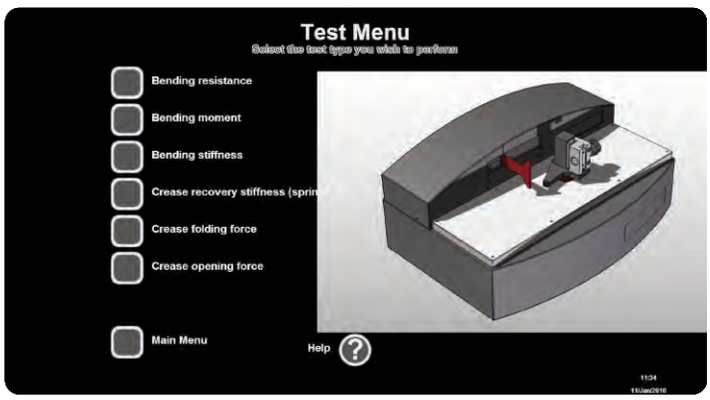
Q.A. Instrument

- Preloaded ISO/BS/TAPPI Test Methods
- Date/Operator Stamped Results
- Pre-set Pass/Fail Criteria
- Optional Password Protection

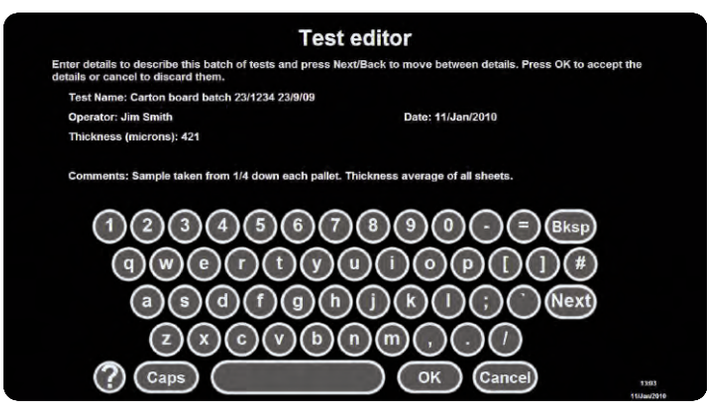
ON SCREEN GRAPHICAL HELP

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

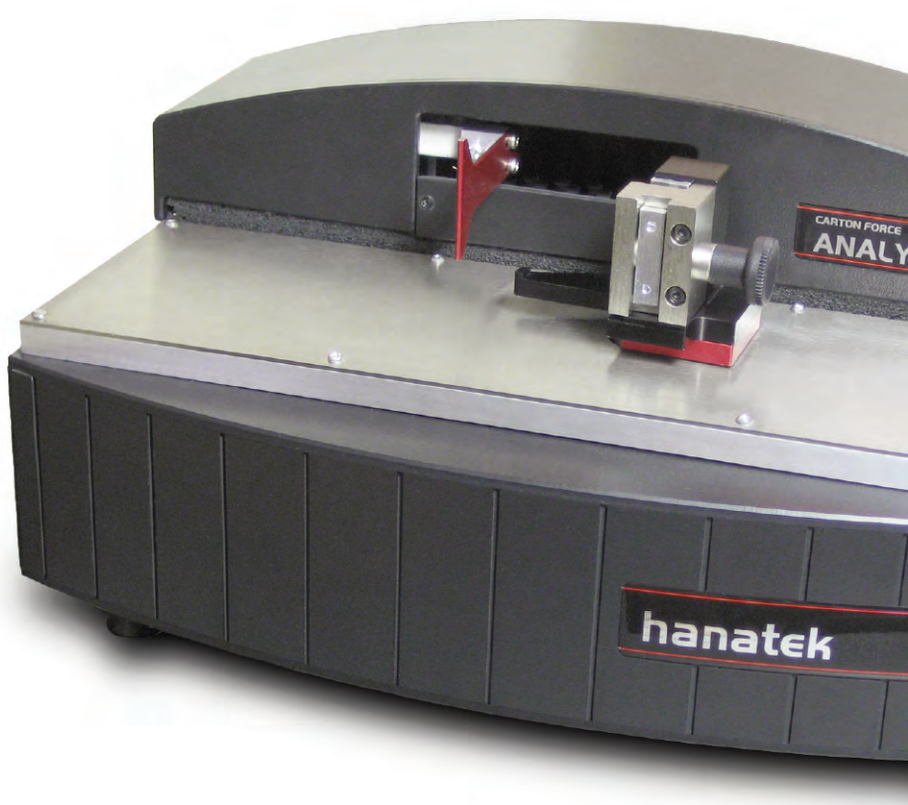
- Intuitive and easy to use
- Easy training for new users
- Consistent results for all operators
- No need to consult complicated manuals



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



Test results can be saved and compared.

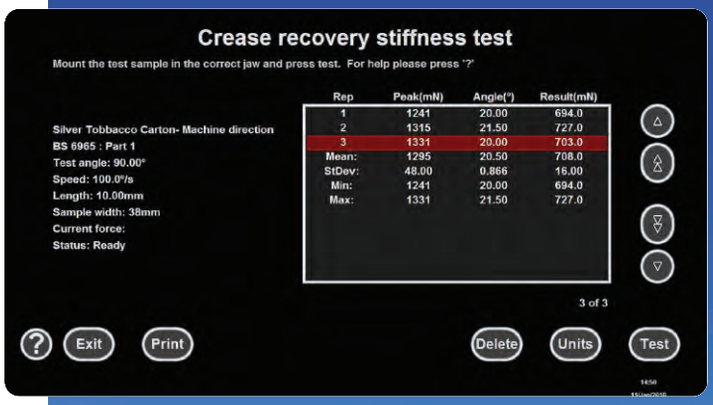


VERSATILE INSTRUMENT – REPEATABLE MEASUREMENT – EASY TO USE

BENDING RESISTANCE/MOMENT/STIFFNESS

The instrument has pre-loaded routines that allow bending resistance testing of multiple samples to all industry standard tests (Taber, PIRA, Lorentzen & Wettre and Gurley).

The instrument also can also report the absolute bending stiffness and modulas of elasticity for carton substrates.

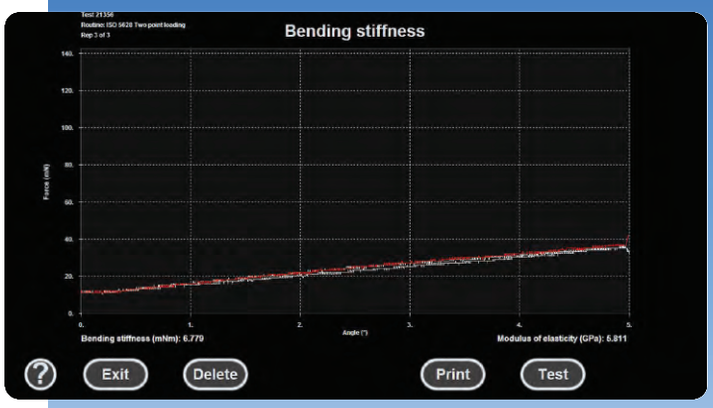


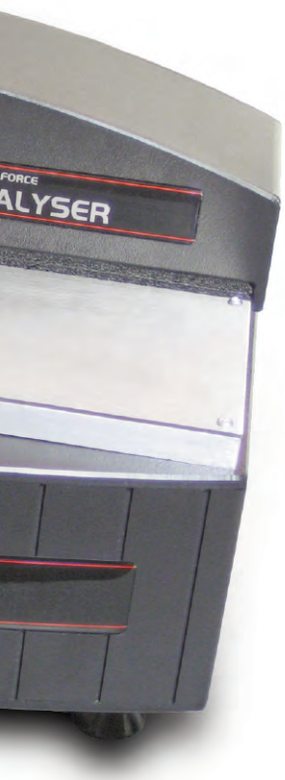
CREASE RESISTANCE

Pre-loaded routines allow multiple samples to be tested quickly with industry standard tests (BS & PIRA).

Flexible R & D testing options allow creases to be tested at non standard speeds (up to 360º/s) and crease angles (up to 175º). Sample length is also variable.

Real time graphs detail the process of folding, showing increased crease resistance until board fibres break and the crease relaxes. The CFA allows these fingerprints to be saved and overlaid, a powerful tool that allows detailed comparison of different crease formats, substrates and manufactured batches





Crease resistance, crease opening and substrate stiffness. Round-corner crease resistance jaw is also available.

CREASE OPENING FORCE

The force required to erect pre-glued skillets can determine the packaging speeds of automatic filling lines. Slow running skillets are often rejected leading to increased waste.

The Hanatek CFA measures the force and energy required to erect each individual folded crease. This information can be used to optimise carton design and predict the running speed of samples before committing machine time.

CARTON FORCE ANALYSER

SPECIFICATIONS

INSTRUMENT SPECIFICATIONS

	Resolution	Repeatability
Rotation Angle(º)	0.01	<0.1
Rotation Speed(º/s)	0.001	<0.01
Sample Length(mm)	0.01	<0.05
Load Cell (mN)	1	<10

INSTRUMENT DIMENSIONS

Size 220 x 225 x 300 (mm)

Net weight 7kg (Instrument), 4kg (PC)

Gross weight 15 Kg

TOUCH SCREEN PC SPECIFICATIONS

Connectivity- Wireless 802.11n, Wireless 802.11b, Wireless 802.11g/ LAN Network

Operating System- Windows X

Easily integrated into laboratory network for results/backup and printing

Results can also be exported to USB data key.

OPTIONAL EXTRAS

Round Crease Testing Jaw
Used to test rounded corner packaging.

Hanatek Laser Sample Cutter
Fast accurate cutting of multiple samples & test types.

APPLICATIONS & STANDARDS

ISO 2493:1992 Paper and board – Determination of resistance to bending (Lorentzen & Wettre/Taber)

ISO 5628:1990 Paper and board – Determination of bending stiffness by static methods

Tappi T 556 om-05 Bending Resistance of Paper and Paperboard (Lorentzen & Wettre/Taber Tester)

T 543 om-00 Bending Resistance of Paper (Gurley-Type Tester) – *Calculated results equivalent to this method.*

T 489 om-04 Bending Resistance (Stiffness) of Paper and Paperboard (Taber-Type Stiffness Tester in Basic Configuration)

SCAN-P-29-95 Bending Resistance

DIN 53121 Testing of paper and board - determination of the bending stiffness by the beam method

BS 6965-1:1988 Creasing properties of carton board. Method for determination of crease recovery (spring back) of 90˚ fold.

BSI UKAS QUALITY MANAGEMENT 003
Certificate No. FM29741

LOCAL AGENT

novasys

novasys group pty ltd
po box 1150 mountain gate 3156
tel: +61 3 9752 3766 fax: +61 3 9752 3977
website: www.novasys.com.au e-mail: info@novasys.com.au

hanatek
12 Beeching Road | Bexhill-on-Sea | East Sussex | TN39 3LG | UK
T +44 (0) 1424 739623 F +44 (0) 1424 730600
info@hanatekinstruments.com www.hanatekinstruments.com

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