



LCT Laboratory Carton Tester

The consistent flow of cartons through form and fill machines is governed by two important parameters; crease quality and frictional forces between carton surfaces. The LCT solution provides a measure of both these parameters. The instrument measures the torque required to fold the carton crease, as well as the coefficient of friction, which is the degree of slippage between the surfaces of adjacent cartons when fed from the magazine of the cartooning machine. Additionally, the instrument records the spring back force, which indicates the materials' resilience after the crease is folded. This is important as it can effect the way the carton behaves during the forming process and can also cause glued flaps to spring open before the adhesive has had time to cure. End users gain from an improved running efficiency on form and fill lines while converters gain from a reduction in rejected cartons.

Features

Four Instruments in one:
 Fold - Form - Spring back - Friction
 Measures torque as a function of
 folding angle
 For cartons with creases up to 590
 mm wide
 For cartons up to 8 mm thick
 Data capture and analytical HMI
 Touchscreen
 Simple data export to .csv and .pdf

Applications

Carton board and micro flute
 primary packaging for FMCG,
 fragrances, drinks, lighting, etc.

Carton board and Corrugated
 secondary packaging

Packaging Converters

Options

Friction Tester for LCT

Specifications

Electrical Requirements

100 – 240 V 47 – 63 Hz

Power Consumption 250 VA

Weight 26.5 kg

Ambient Operating Temperature

10 - 40 °C

Humidity

30 to 90% RH non-condensing

Dimensions

1000 mm (W) X 270 mm (H) X 420
 mm (D)

Maximum Carton Width

590 mm

Maximum Carton Thickness

Up to 8 mm

Test Range

0 – 115° (User selectable)

Torque Range

0 – 4.0 Nm displayed to 3 d.p.
 Scalable to give Nm per metre of
 Crease length

Fold Rate

12° per second

External Interfaces

USB & Ethernet



UK & INTERNATIONAL

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