LCT LABORATORY CARTON TESTER

Das LCT kombiniert drei Tests in einem Gerät - Falzfestigkeit, Kartonformkraft und Rückfederung mit optionaler Reibungsprüfung für die ultimative Kartonanalyse und Qualitätssicherung.

Die Lösung des Laboratory Carton Tester (LCT) ermöglicht die Messung beider Parameter. Das Gerät misst das zum Falten des Kartons erforderliche Drehmoment sowie den Reibungskoeffizienten, d. h. den Grad des Schlupfes zwischen den Oberflächen benachbarter Kartons, wenn diese aus dem Magazin der Kartoniermaschine zugeführt werden. Darüber hinaus zeichnet das Gerät die Rückfederungskraft auf, die das Rückstellvermögen des Materials nach dem Falten angibt. Dies ist eine wichtige Eigenschaft eines Kartonprüfgeräts, da dies das Verhalten des Kartons während des Formgebungsprozesses beeinflussen kann und auch dazu führen kann, dass geklebte Klappen aufspringen, bevor der Klebstoff Zeit hatte, auszuhärten.

EIGENSCHAFTEN

- 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

TECHNISCHE DATEN

Stromanschluss	
Druckluftanschluss	nein
PC-Anschluss	RS-232, USB
Breite / Durchmesser	600 cm
Tiefe	400 cm
Höhe	350 cm
Gewicht (netto)	25 kg

Ingenieurbüro Walter

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LCT
Laboratory Carton Tester

Product Description

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

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- For cartons with creases up to 590 mm wide
- For cartons up to 8 mm thick
- Data capture and analytical HMI Touchscreen
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Applications

- Carton board and micro flute primary packaging for FMCG, fragrances, drinks, lighting, etc.
- Carton board and Corrugated secondary packaging
- Packaging Converters

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ASSURED QUALITY
TESTING SOLUTIONS

LCT Carton Tester

Options

- Friction Tester for LCT

Technical 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

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