all4test

The LCT combines three tests in one instrument – crease strength, box forming force and spring-back with optional friction testing for the ultimate carton analysis and quality assurance.

The Laboratory Carton Tester (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. A great attribute for a carton tester as this 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.

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

5 "·		
Power connection		
Compressed air connection	nein	
PC connection	RS-232, USB	
Width / Diameter	600 cm	
Depth	400 cm	
Height	350 cm	
Weight (net)	25 kg	

Ingenieurbüro Walter





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

- 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





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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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