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ELCORR TLC

Web length compensating system

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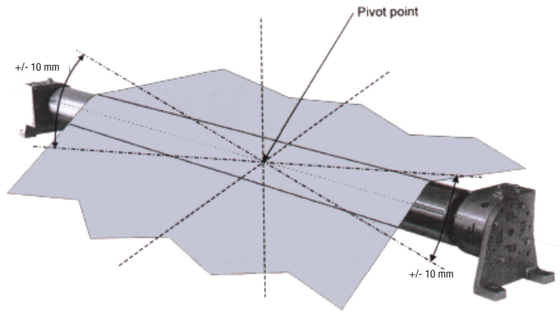
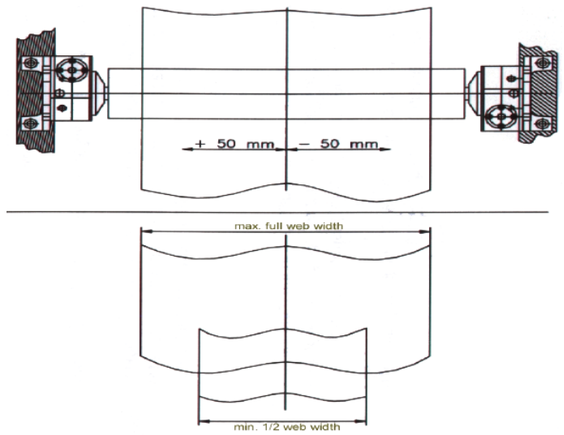
Compensation method

+ fixed pivoting point in the center of the idler
+ +/- 10 mm working stroke
thus +/- 10 mm length compensation



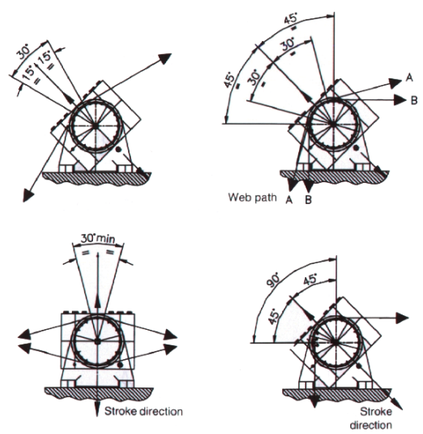
Working process

+ web to be run in web center
max. offset is +/- 50 mm
+ idler width to be projected for max. web width (standard width 2.500 mm, available in 100 mm steps
+ min. web width 1/2 of max. web width)



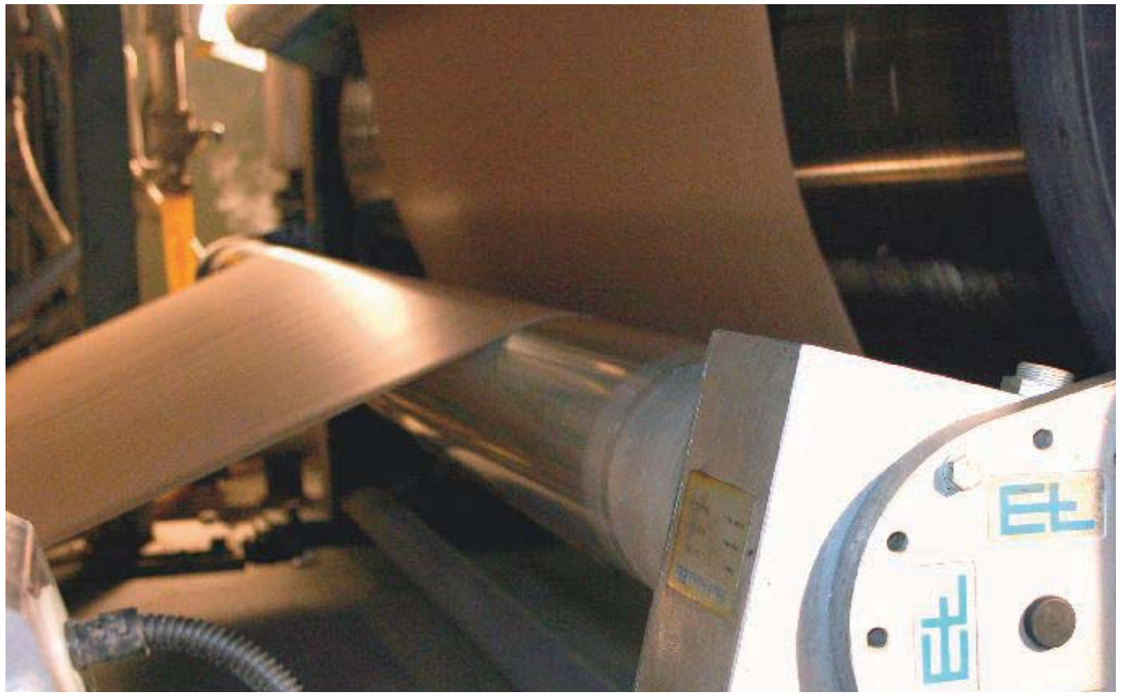
Wrap angle

+ min. wrap angle of 30 deg.
(Max. 2.000 N total tension)
+ max. wrap angle of 180 deg.
(Max. 750 N total tension)



Working direction

+ adjustable to any wrapping angle with installation



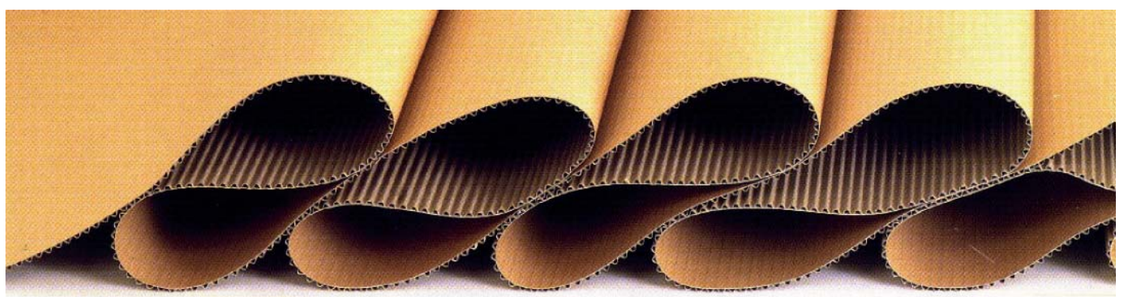
System Function

The self-adjusting ELCORR roller compensates thickness, length and alignment differences occurring in a moving web.

The operation is purely mechanical, without using air, hydraulic or electronical devices, thus, an equal cross tension distribution, heat transfer, as well as an uniform glue application is achieved.

The idler is working in both paper running directions, upstream and downstream, and is most effective when located between machine parts like pre-heater, pre-conditioner, or glue station.

The installation points on a Corrugator are medium and liner paper at the single facers, the single face webs and the bottom liner at the triple preheater and for the bottom liner at the double backer infeed.



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System Benefits

+ Best possible web tension distribution across the web
+ Best possible, uniform heat transfer from the pre-heater to the web
+ More uniform flute forming
+ Uniform glue application
+ Improvement of the web eveness and flatness
+ No influence of the toal web tension
+ No incorrect adjustment possible

Installation points on a corrugator

1. On the preheating and lamination units or at the double backer (Fig.1)

+ single face webs: between preheater and glue unit (Pos.1)
+ bottom liner: between preheater and double backer (Pos.2)

2. On single facer units (Fig.2)

+ medium web: between splicer and pre-conditioner (Pos.1)
+ liner web: between splicer and preheater (Pos.2) or between preheater and single facer (Pos.3)

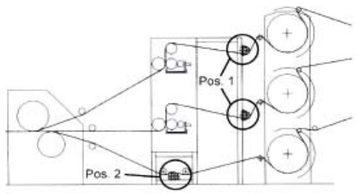


Fig. 1

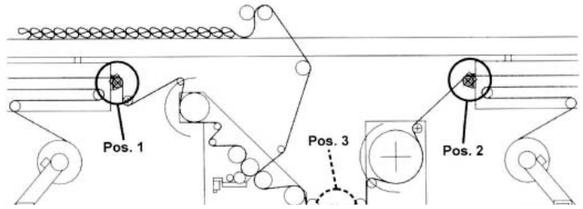
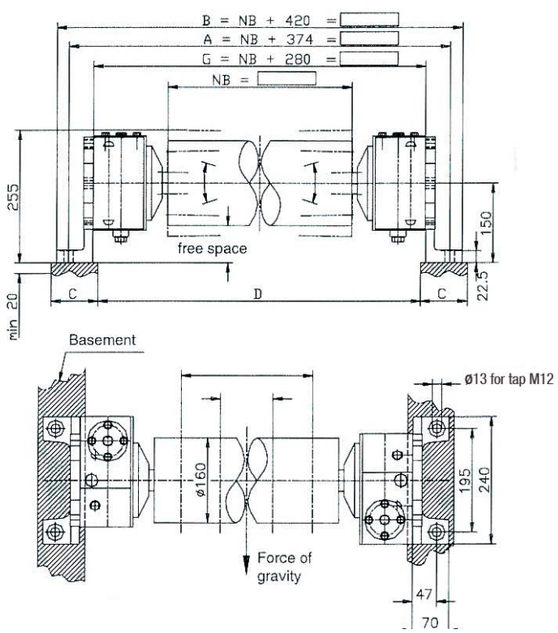


Fig. 2

Technical Data

+ Compensation Stroke: +/- 10 mm
+ Length compensation: approx. 20 mm
+ Dimensions: NB 1.500 - 3.200 mm in 100 mm steps
+ max. total web tension:
  - 2000 N at 30° wrapping angle
  - 1500 N at 30° - 90° wrapping angle
  - 1000 N at 90° - 120° wrapping angle
  - 750 N at 120° - 150° wrapping angle



ELCORR TLC
Temperature Measuring Results

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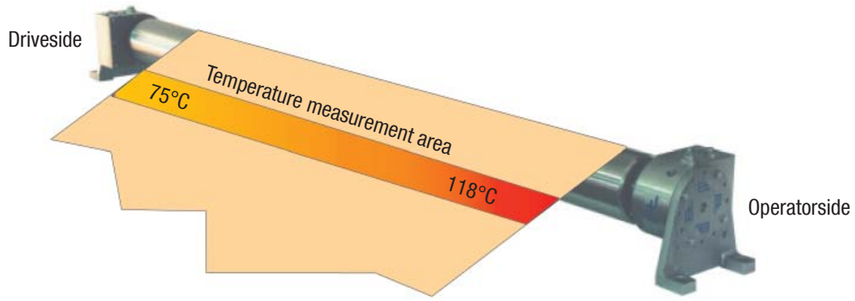
1. Temperatures measured with locked idler

Measuring Area	Temperature Drive side	Temperature Operator Side
Outer liner prior to preheater	29° C / 84° F	29° C / 84° F
Outer liner after the preheater	75° C / 167° F	118° C / 244° F
Preheater Temp.	164 C / 327° F	164° C / 327° F



2. Temperatures measured with released idler

Measuring Area	Temperature Drive side	Temperature Operator Side
Outer liner prior to preheater	29° C / 84° F	29° C / 84° F
Outer liner after the preheater	90° C / 194° F	93° C / 199° F
Preheater Temp.	164 C / 327° F	164° C / 327° F