

ELGUIDER DRS 10

A cost-effective pivoting frame system for controlling narrow webs. Due to its compact design it may be easily integrated into existing machine concepts. Its primary use is therefore in the label, packaging and hygiene industry.

Sensor

The position of the web edge is detected by a compact, opto-electronic edge sensor immediately behind the exit roller. As an alternative for films, an ultra-sonic sensor will detect even very clear webs reliably.

Controller

The digital controller is integrated into the pivoting frame. Adjusting the control parameters and thus optimizing the control loop is no problem thanks to the user-friendly control panel.

Operation

The operator panel comes integrated into the pivoting frame enclosure. The pictorial representation of the web, the applications-oriented set-up of the function groups as well as the diaphragm keypad with readily understood symbols and LED displays make sure that the system is easy to handle.



Function

When guided by a pivoting frame, the web changes direction a total of four times. As the web is moved both on the longitudinal and transverse axes when it is corrected, its elasticity potential can be utilized more fully than with a purely transverse offset. Due to an optimised pivotal center on the infeed path optimum web correction is achieved. Premature creasing is avoided.

Design

Given its excellent utilization of web elasticity, the pivoting frame is ideal for webs that are liable to tear. It is moreover recommended for use in confined space conditions.

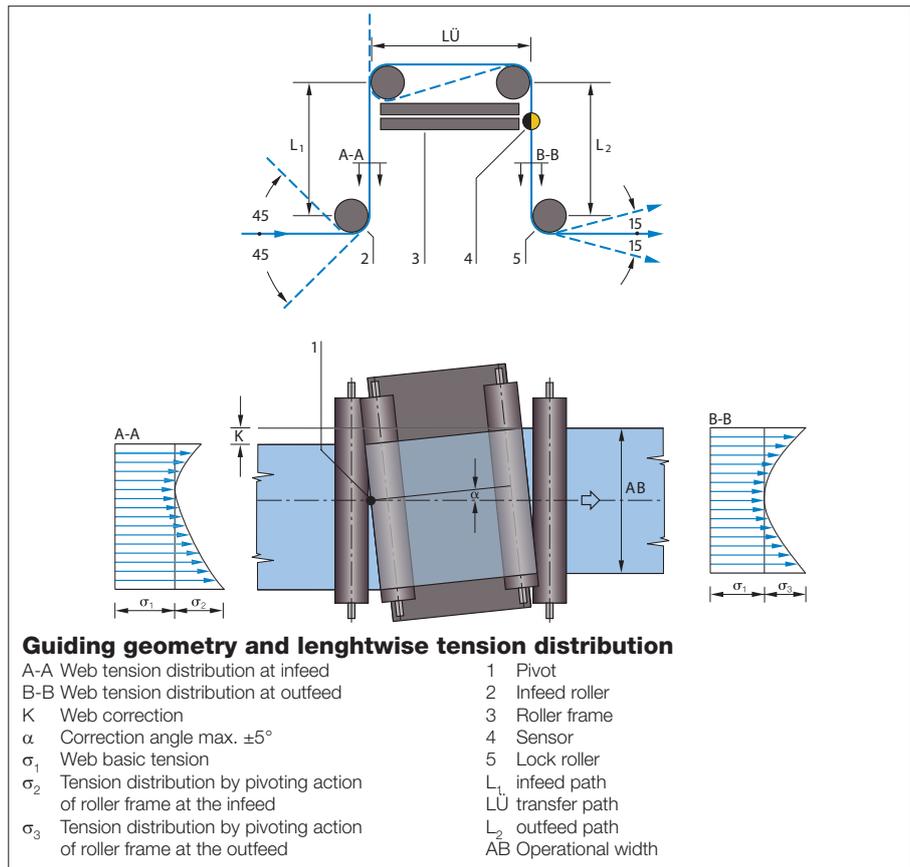
Application

Depending on the job, a pivoting frame system for tough webs is designed along the following basic rule: the infeed, transfer and delivery lengths should be identical and should be between 50% - 100% of the web width.

Selection table

LÜ (mm)				
200				
180				
	160	200	250	300
	NB (mm)			

LÜ Transfer span
 NB Nominal width



Technical data

Operational voltage	
Nominal value	24 V DC
Nominal range	20 - 30 V DC
Power consumption	max. 1.5 A DC
Roller face width NB	see table
Transfer span LÜ	see table
Roller diameter D	
LÜ 180/200 mm	40/60 mm
Nominal traverse	
LÜ 180 mm	± 19 mm
LÜ 200 mm	± 21 mm
Web speed	max. 300 m/min
Force	max. 200 N
Guider accuracy	$\leq \pm 0.15$ mm
Error frequency	2 Hz
Ambient temperature	+10 °C to +50 °C
Protection class	IP 54
Measuring range	
edge sensor FR 43	± 3 mm
ultra-sonic sensor FX 43	± 3 mm

Subject to technical modifications without notice