

## ELGUIDER DRS 22

The new pivoting frame DR 22 was especially designed for guiding small 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.

### Networking

The standardized CAN-bus guarantees reliable and rapid data transfer and allows for an easy integration into any machine and control system with reduced wiring.



### Interface

The system not only has the advantages of centralized operation of the controllers. It can also be connected without any problem to SPS controls and to various bus systems via a parallel interface (digital inputs and outputs). E+L offers an optional integrated Ethernet interface (Ethernet/IP and Ethernet/UDP) for this purpose. For other interfaces E+L offers external interface converters.

### Operation

Big emphasis was placed on the ergonomics of the control panel. The pictorial representation of the web, the application-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.

## Application

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.

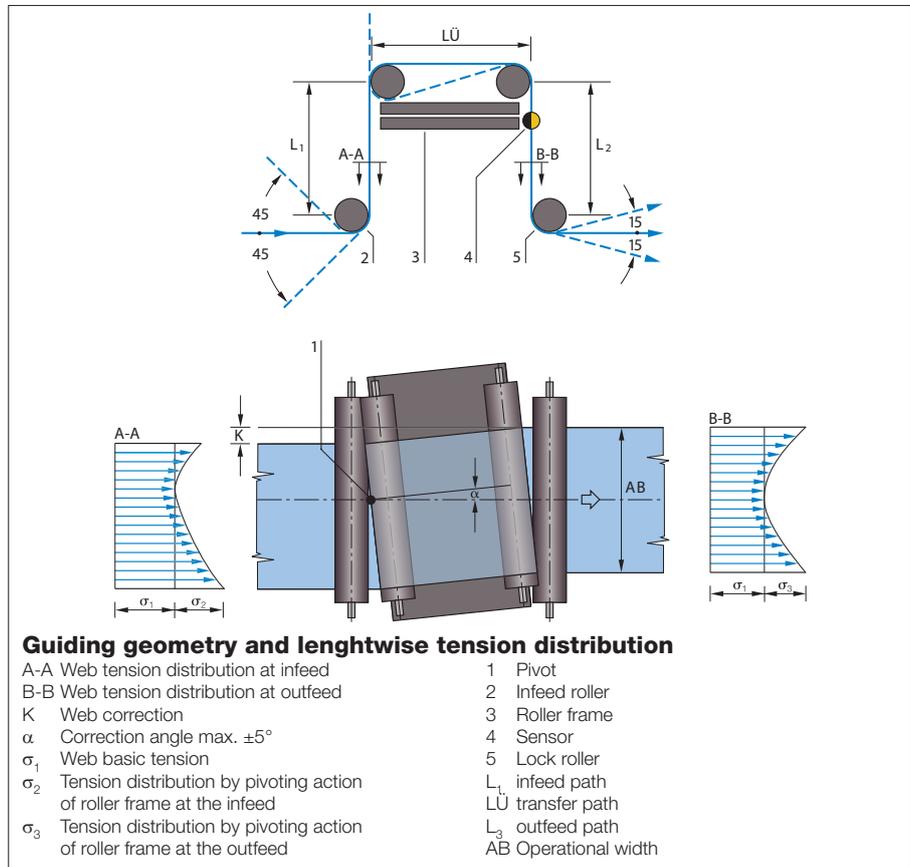
## Design

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	250	300	350	400	450
	NB (mm)					

LÜ Transfer span  
 NB Nominal width



## Technical data

Guider accuracy (FR 46, FX 46, FE 52)	< $\pm 0.1$ mm (depending on material)
Guider accuracy (FR 60)	< $\pm 0.2$ mm (depending on material)

Nominal traverse	
LÜ 250 mm	max. $\pm 14,5$ mm
LÜ 300 mm	max. $\pm 18$ mm

Nominal positioning speed	
LÜ 250 mm	1 - 100 mm/s adjustable
LÜ 300 mm	1 - 115 mm/s adjustable

Force	
NB 200/250/300/350 mm	max. 300 N
NB 400/450 mm	max. 200 N

Roller face width NB	200/250/300/350/400/450 mm
Transfer span LÜ	250/300 mm

Roller diameter D	60/80 mm
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Ambient temperature	+10 °C to +50 °C
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Operational voltage	
Nominal value	24 V DC
Nominal range	20 - 30 V DC
Nominal range with power supply	100 - 240 V, 50/60 HZ

Power consumption	max. 2.5 A DC
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Protection class	IP 54
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Measuring range	
infra-red sensor FR 46	$\pm 2.5$ mm
ultra-sonic sensor FX 46	$\pm 3$ mm
line sensor FE 52	$\pm 10$ mm
wide band sensor FR 60	$\pm 75$ mm

Subject to technical modifications without notice