ELGUIDER DRB33

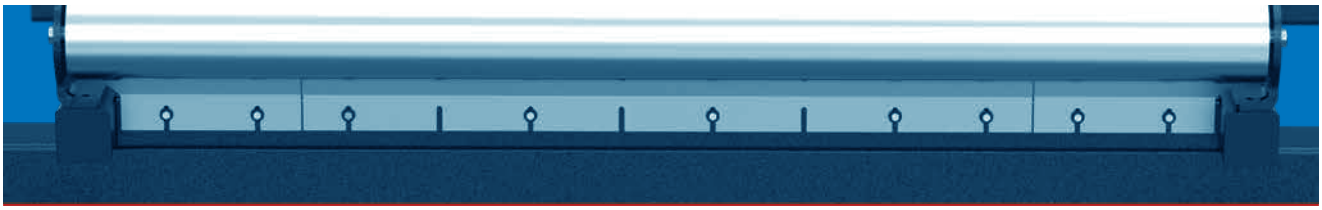
Erhardt+Leimer
Pivoting frame system
for battery production

Highest precision for the battery production

The production of batteries requires a particularly high level of accuracy and precision when guiding material webs through the production process. The optimized ELGUIDER DRB33 pivoting frame system meets these special requirements to the highest degree.

The control rollers have been specially developed for battery applications. All materials used are therefore ideally suited for safe battery production (no zinc or copper surfaces).

The DRB33 pivoting frame system offers different types of control - according to web edge, web center or coating contrasts. The integrated brushless drive technology guarantees maximum control accuracy of ±0.05 mm and maximum control dynamics.



Highest accuracy. Optimum results.

- Optimized control accuracy for battery electrode coating processes
- Flexible control of the electrode material with up to four control criteria
- Activatable downstream position correction („final check“) for additional process optimization
- Materials used guarantee process reliability
- Intelligent web guiding system with system feedback and process data recording for optimum production quality
- Process data transmission via industrial Ethernet protocols
- Optional safe torque-off function increases safety standards

Technical data	
Drive technology	BLDC (brushless DC drive)
Material	Electrode material
Nominal width NB	Max. 2500 mm
Transfer length	Max. 1100 mm
Correction path	60 mm
Roller diameter	80 / 100 / 120 / 160 mm
Web tension	700 N
Web speed	150 m/min
Repeat accuracy (reproducibility)	< ±0.025 mm
Positional accuracy	< ±0.05 mm (material-dependent)
Control limit frequency	Web infeed error max. 4 Hz
Actuating speed	Max. 30 mm/s
Central unit, external	DN 40.. or DO 32..
Operating voltage **Nominal value** **Nominal range**	 24 V DC 20 V to 30 V DC
Current consumption	Max. 7.5 A DC (AG 93, manuel sensor position)
Operating voltage connection	Screw terminals
Ethernet connection	M8 D-encoded
Digital I/O interface	6 config. inputs, 1 config. output
Fieldbus interfaces optional	Ethernet UDP, EtherNet/IP, Profinet
Ambient temperature	+10 °C to +50 °C
Humidity	15 % to 95 % (non-condensing)
Storage temperature	-20 °C to +80 °C
Protection rating	IP 54
Certification	UL certified
Optional „Safe production“	Protective measures against web contamination

Subject to technical modifications without notice · FLY--252081-EN-01 · 05/2025