

HAUG Ionization- for the elimination electrostatic charges



Power pack EN 70 / EN 70 LC / EN 70 RLC

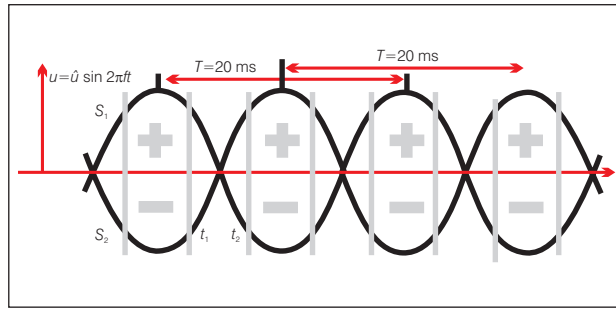
The high-voltage power pack EN 70 / LC / RLC is a powerful and hard-wearing unit. Its design fulfils all electrical engineering requirements. The EN 70 / LC / RLC power pack is used in fast-running machines in combination with tandem ionizing bars. It is equipped with two transformers which operates by 180° out of phase and four high-voltage terminals each. Any surface charges which might disrupt production will be removed reliably and effectively using the HAUG ionizing unit - even at high operating speeds (see ill. 1).

The power pack EN 70 RLC has two additionally relay contacts for fault signals.

The watchdog function integrated into the secondary area serves to indicate any drop below the corona inception voltage by means of a flashing LED (ill. 3).

The HAUG System X-2000 coaxial high-voltage plug-and-socket connection (ill. 2) offers a unique benefit. The airtight high-voltage plug can be connected to HAUG power packs without any tools. The highly flexible coaxially shielded safety cable is used to connect the ionizing unit to the voltage supply source.

Due to its round design, the tandem ionizing bars EI RD / EI VD / EI HRD allow a pin-point adjustment to the running direction of the material. The ionizing bars are absolutely safe to touch. Low-wear special electrodes ensure a long service life. The design fulfils the most stringent requirements imposed by the mechanical engineering industry.

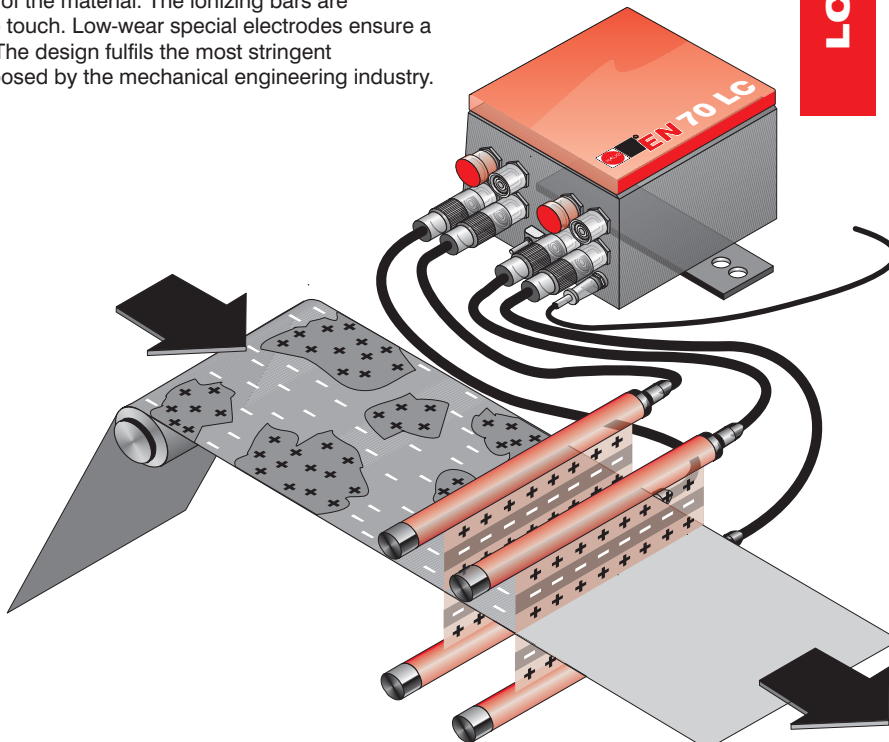


ill. 1 Voltage curves for the two transformers (by 180° out of phase)

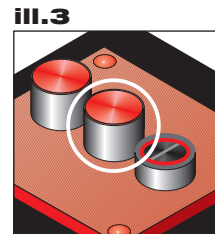
Functional principle of a tandem ionizing system

The example given is based on a web speed of $V = 900 \text{ m/min}$. The bars are mounted at a distance of 300 mm and designated S_1 and S_2 . These designations are also indicated on the relevant voltage curves. The ionizing effect is indicated for times t_1 and t_2 . Tandem ionizing bars are also suitable for machine speeds of $\geq 150 \text{ m/min}$.

EN 70 LC



LC

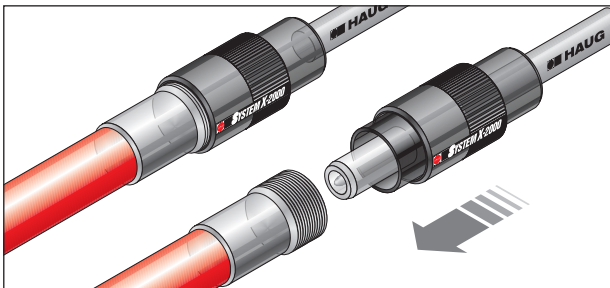


ill.3

Power pack EN 70

Identical to power pack EN 70 LC but without integrated watchdog function.

ill. 2



Recommendation

HAUG power packs EN 70 and EN 70 LC should be used in combination with tandem ionizing bars mounted above and below the material web (see illustration).

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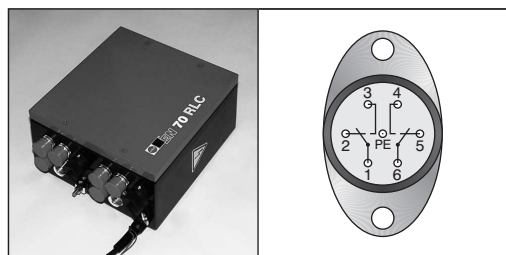
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Static Line - Power pack EN 70 / EN 70 LC (R)LC





EN 70 RLC



Output states EN 70 RLC

State	Contacts closed	
High voltage ok, Mains voltage ok	1, 3	5, 6
High voltage failure (HV < 4,2 kV)	1, 3	4, 6
Mains voltage failure	1, 2	5, 6

Accessories EN 70 RLC

Signalling cable K1, shielded

5 m	incl. round plug	Order-No.: 06.8941.000
10 m	incl. round plug	Order-No.: 06.8941.001
20 m	incl. round plug	Order-No.: 06.8941.000

Round plug	Order-No.: X-0616
Angled plug	Order-No.: X-5718

EN 70 / EN 70 LC / EN 70 RLC

Technical data EN 70, EN 70 LC, EN 70 RLC

Types:	EN 70	(115 V)	Order-No.: 01.7700.000
	EN 70	(230 V)	Order-No.: 01.7701.000
	EN 70 LC	(115 V)	Order-No.: 01.7700.100
	EN 70 LC	(230 V)	Order-No.: 01.7701.100
	EN 70 RLC	(115 V)	Order-No.: 01.7700.400
	EN 70 RLC	(230 V)	Order-No.: 01.7701.400

Protection type:	IP 54
Supply voltage:	115 V ₋ / 230 V ₋ (50 – 60 Hz)
Power consumption:	approx. 160 VA
Rated output voltage:	approx. 7 – 8 kV ₋
Short-circuit putput current:	$I_k \leq 5 \text{ mA}$
Contact load at signalling terminal (RLC):	max. 24 V _{AC} / 35 V _{DC} , max. 50 mA
HV-terminals:	2 x 4
Connectable lengths:	max. 2 x 18 m (ionizing unit incl. HV-cable)
Operating temperature:	+5 °C to +45 °C
Storage/transport temperature:	-15 °C to +60 °C
Weight:	8.5 kg
Mains cable:	2.6 m, fixed to the device (2 x 0,75 mm ² ; 1 x 1,5 mm ²); Subject to technical changes!

