



## This way to brilliant solutions: Experienced at innovation – performance for tomorrow

For more than 60 years, Eltex has been focusing on specifically targeting the use of electrostatic energy to optimize production processes and removing it where it has unwanted consequences. The application spectrum throughout the packaging processes – and in the printing, packaging and finishing production environments – is broadly diversified. Here, electrostatic systems from Eltex enable higher production speeds, more efficient work, significantly increased quality, reduced energy consumption, fewer faults and minimized downtimes and spoilage.

The electrostatic solutions developed for this purpose are based on Eltex's highly complex technological expertise gained from decades of experience as the industry's reliable solutions partner. Our development and engineering team and our production facility in Germany stand for trendsetting innovations made in Germany.

**At the FachPack 2018, Eltex is showing the way to efficiency and increased performance. With the slogan "Experienced at innovation – performance for tomorrow", Eltex is presenting innovative electrostatic systems for process optimization:**

### **NEW > Eltex POWER CHARGER**

The new new generation of high-voltage generators for all charging applications

### **NEW > Eltex flexION Entladeelektrode**

The world debut with a freestanding air-supported spring tip for higher ranges at the lowest possible level of high voltage

### **> Eltex Compact Power ES24**

The 24 V mini-power supply with reliable AC technology

### **> Eltex Smart Discharging System SDS**

The fully integrated 24 V discharge technology for mid-size and higher distance and speed areas

### **> Tried-and-tested Eltex charging and discharging systems**

### **> Eltex ESA printing assist systems for packaging gravure printing**



**Learn more about Eltex Electrostatic Innovations at FachPack 2018 in hall 4, stand 501.**



## Eltex POWER CHARGER – A new generation of high-voltage generators

**Higher quality, less energy consumption, faster production thanks to fewer disruptions, less downtime and less spoilage. Electrostatic charging does not always have negative consequences; when used for specific purposes it is downright useful in many areas. It is great to see that Eltex is setting new benchmarks in charging technology.**

User safety has been re-examined during the development of the POWER CHARGER. The generator will also be available in performance level D in the future. An entirely new plug system enables simple, secure contact with the inserted bars. Continuous refinement is bringing hardware and user protection to a higher level with each step.

### Features

- Smart software control system
- 30 kV or 60 kV output voltage
- 24 V DC or 85 V – 265 V supply voltage
- 75 W or 150 W power
- Automatic power derating
- Analog interface
- LED status display
- UL certification

### Optional

- Touch-Display
- Fieldbus interfaces
- Performance level D
- Configurable arc detection
- Access recording
- Integrated discharge unit



PC\_30L-2.jpg



## World debut: the flexION /flexION air discharging bar. Versatile, compact, powerful

The newly patented AC discharging bar with a freestanding air-supported spring tip achieves a very high passive discharge effect, which enables active operation even at a low level of high voltage AC. A small amount of air can be blown through the hollow spring tip to increase the range and to continuously clean the emission tips.

The new flexION Eltex bar features excellent discharging results at low and maximum speeds. The special feature here is that the discharge performance remains constant from short distances up to large ranges. It is exactly this wide-ranging performance that characterizes the flexION as the only discharging bar in the world that can be used in different geometric situations – even in narrow, grounded machine environments.

### Advantages

- flexible, freestanding emission tips with new resistor technology
- integrated air duct with flexION air
- wear-protected emission tips
- excellent discharge performance at close and wide range
- high range at the lowest possible level of high operating voltage
- increased ion production using the same voltage
- versatile use in narrow and grounded machine environments



flexION\_1.jpg



## Compact, powerful, adaptable COMPACT POWER ES24

This powerful mini power supply unit is so small that it can be easily mounted wherever you like. Small and compact in size, this unit stands out against conventional transformer solutions both in its small dimensions and low weight. Independent from international variations in line voltages, Compact Power ES24 delivers ultimate flexibility in use.

### Advantages

- 24 V DC supply voltage
- two high voltage connectors
- compact and robust design
- integrated optical control display
- improved protection by protection class IP54
- stable 5 kV AC output voltage



ES24.jpg



## **"All in one." Compact. Intelligent. Powerful. The Eltex Smart Discharging System SDS**

With the 24 V discharge technology – Smart Discharging System SDS – all components such as power supply, output stages and module technology are integrated in the electrode profile. This system's communication with machines or operation via mobile end devices is particularly smart. The Smart Discharging System SDS system is ideal for discharging in the middle distance and speed range for applications in various industrial sectors.

### **Features**

- 24 V DC supply
- integrated high voltage generation
- emission tips arranged in two offset rows
- pulsating positive and negative high voltage
- central control module
- connection capability to CANopen network



*SDS-System\_1.jpg*



## Well-established Eltex Top Class Discharging: Eltex Blue-Bar-Technology

The Eltex Blue-Bar-Technology has been in operation with excellent results for many years. The insulated array of ground conductors enhances the electric field at the active tips and so improves the production and speed of charge carriers, providing substantially more positive ions and free negative electrons than conventional bars. Simultaneously, the bars have a high passive discharging performance. The decoupled emission tips guarantee excellent discharging efficiency and make the bars absolutely short-circuit and shock-proof.



R50-R51A.jpg

*Discharging Bars R50/R51A with fixed or plug-type connection for alternating current (AC). Both bar designs are available in active lengths of up to 3,915 mm.*



ES51.jpg

*Series ES51 Power Supply for AC discharging devices.*



## Higher power and greater range: The Eltex Ion Blower Technology

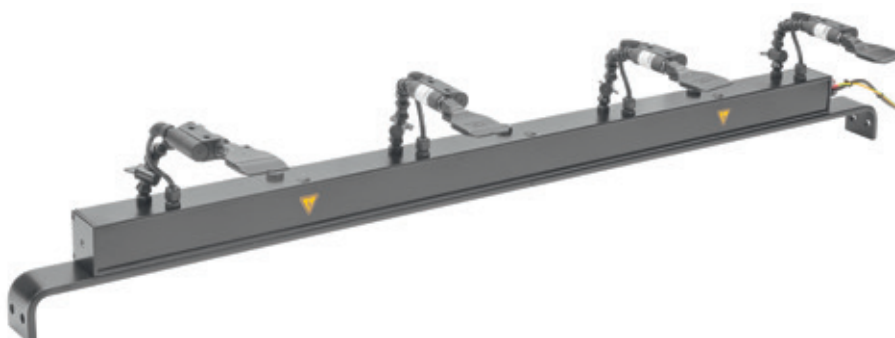
Compared with similar products, the ion blower technology delivers higher ionization power and a larger ionizing range. While the ion blower nozzles and the ion blower nozzle bar are fixed in place, the ion blower pistols show their true strength in hand-held use. The compact design and the high effectiveness of the unit allow a variety of different uses and applications.

### Ion Blower Nozzle Bar LR36

- one high voltage connection and air supply for several ionization nozzles
- flexible ball-joint hoses for accurate alignment
- single nozzles with individual flow profile
- easy installation of the support profile using a mounting groove



LR36\_1.jpg



LR36\_2.jpg



### Ion Blower Pistols PR36 and EXPR50

Ion blowers for discharging and dedusting highly sensitive components. The emission tips generate an ion-enriched discharging cloud.



PR36.jpg

EXPR50.jpg

### Ion Blower Nozzles and Heads

For large surface areas and point-to-point discharging and dedusting. Air support guaranteeing a high degree of efficiency even across large distances.



R36AF.jpg

R55RL6S.jpg



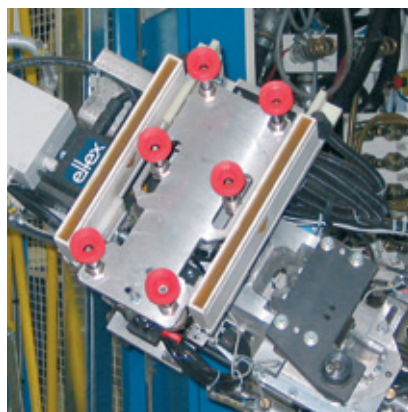


## Eltex Charging Systems for efficiency in many industrial processes

Electrostatic charges do not necessarily have negative consequences. When used in a targeted manner, they are extraordinarily beneficial. Thanks to accurate charging, for example the electrostatic winding, fully automatic reel changes are possible. Another example is electrostatic charging at the extrusion of films.

**Individually tailored to the applications, electrostatic charging has convincing economic and quality advantages:**

- perfect production quality
- increased production speed
- flexible use
- easy installation
- robust, dust and waterproof housing
- longer run times
- minimized costs
- efficient and economical solutions



*Charging for Inmould Labeling*



*Film production without „Neck-in“  
Photo: SML GmbH*

*Charging\_1.jpg*

*Charging\_2.jpg*

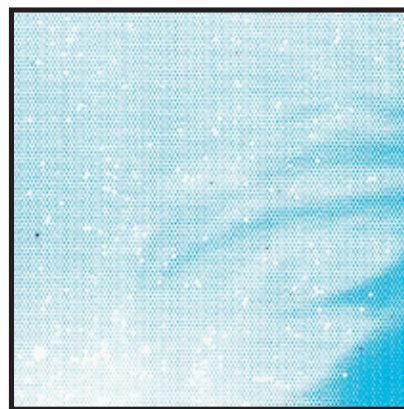


## ESA electrostatic printing assist systems ESA GNH61 / GNH62 and GNN75 / GNN75S

For over thirty years, ESA printing assist systems have set leading quality standards in gravure printing. This not only means an end to missing dots, it is also much easier to operate the entire system.

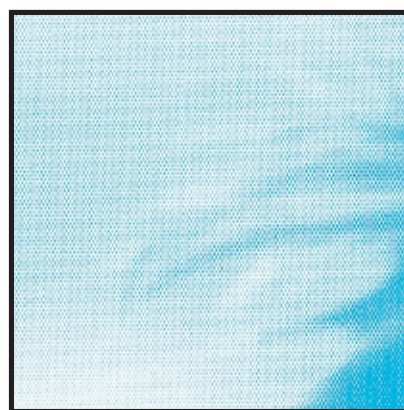
### Advantages

- missing dot free ink transfer to the paper, cardboards or the film surface
- optimal printing results and regular colour density in all grading ranges, especially in light and middle tones
- GNN75: fully automatic adjustment of the optimum output value for missing dots free printing
- paper-film switchover function
- certificated for II A und II B gas atmosphere



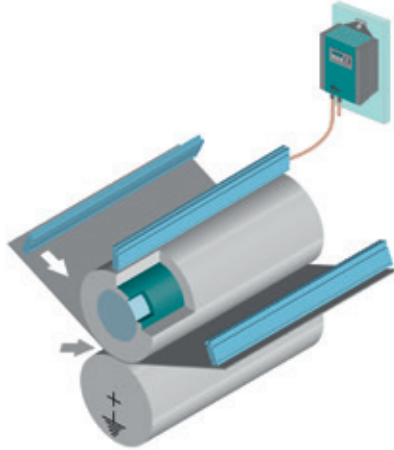
*without ESA: missing dots*

ESA\_1.jpg



*with ESA: missing dot free  
ink transfer*

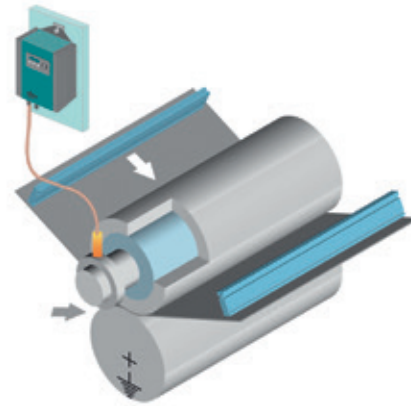
ESA\_2.jpg



**Top-Loading**  
**ESA GNH61 / NEW: ESA GNH62**

**ESA GNH61 and GNH62** printing assist systems guarantee an optimum ink transfer to flexible materials. The result: a perfect quality in packaging and decorative gravure printing.

With the new **HSG62 generator** the ESA GNH62 printing assist system achieves performance level d. This is an important metric for the reliability of safety-related functions in accordance with the EN ISO 13849 safety standard.



**Direct-Charging**  
**ESA GNN75 / ESA GNN75S**

**ESA GNN75 Core-Charging System.** The fully automatic adjustment of the optimum output value ensures a missing dot free printing. The charge in the printing nip necessary for emptying the cells is generated directly via the core of the impression roller. This reduces maintenance to a minimum.

The printing assist system **ESA GNN75S EASYCHARGE Exi** guarantees perfect results in gravure printing. It works without charging bars or insulated bearings and is suitable for both, sleeves and standard impression rollers.

ESA\_3.jpg



Eltex\_1.jpg

*Eltex Elektrostatik GmbH, founded in 1953 in Weil am Rhein, Germany, is the world's leading manufacturer of electrostatic systems. With its successful, more than 60-year history, the innovative company's intelligent solutions have become established in numerous branches of industry. A global presence is provided by an international sales network of 50 agencies.*

*For additional information about the company, please visit [www.eltex.com](http://www.eltex.com) or you may contact Mr. Marc Rechberger, Sales Manager Static Control, [marc.rechberger@eltex.de](mailto:marc.rechberger@eltex.de).*



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