



since 1975

## STATIC DISCHARGERS

### DEVICES FOR NEUTRALIZING ELECTROSTATIC CHARGES

- excellent cost/efficiency ratio
- no energy consumption
- no contact with the material
- easy to install



**Very competitive and  
efficient in eliminating  
electrostatic charges on:**

- all types of film rolls for continuous operation
- synthetic fabrics and coated products
- paper, cardboard, cellophane and other packaging materials
- silicone treated paper

[www.zp-arrow.com](http://www.zp-arrow.com)

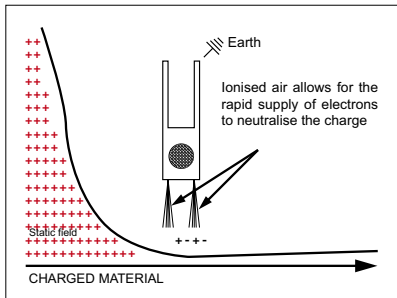


100% ITALIAN PRODUCTION

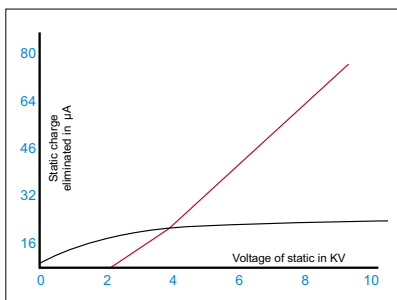
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## STATIC DISCHARGERS

### Charged material



### Static discharge performance



### MAIN CHARACTERISTICS

- **High effectiveness** in neutralising positive or negative charges.
- Equal or even better performances, but at a **fraction of the price** of alternative equipment.
- Simple to install and **no maintenance**.
- Suitable for many **hazardous areas** and in presence of **solvents**.
- Unrivalled ability to cope with high charges and **high speed**.

### HOW DO THEY WORK

The large number of very fine, highly conductive carbon bristles concentrate the Energy in the static charges until the surrounding air ionises. Ionised air is conductive and allows ions of the opposite polarity to neutralise the charge. The sketch shows the material with a positive static charge, but **ARROW** Dischargers work equally well with positive or negative charges. **The tips of the fibre do not need to touch the material, its powerful performance is granted even if they are 5-10 mm away from the surface excited.**

### EFFECTIVENESS

**ARROW** dischargers offer powerful performance.

The Diagram shows that the static neutralisation power of a **ARROW** dischargers **begin to outperform a standard electrical static eliminator at a charge level of 4 KV to 5 KV.**

This is very low –when you walk across a carpet you can generate 15 KV. The charge on a film winder is often in excess of 200 KV.

### BRUSH ART. H 18 C (CARBON BRISTLES)

Brush art. **H 18 C** featuring an aluminium H-profile body and carbon fibres is the most popular, highly efficient and recommended for most industrial applications.



### STATIC METER ART. 1033

It is an invaluable tool in investigating industrial static electricity problems. It is used throughout production, Quality control and for maintenance services.

The stability of the electronics in the 1033 means that recalibration is not usually needed. We do offer a recalibration service with the certification when required by Quality control.

**It's very important to use it to see where and how the static is being generated and to see if static eliminators are effective and if they are in the best position.**

**Measuring range:** 0 to 1000 KV for positive and negative polarities, in case of negative polarities the (-) sign appears on the LCD display.

**Battery:** PP3 9V for 500 hours of continuous use, or 2 years of occasional use.

**Indication:** BAT LOW appears on the display when the battery needs replacing.

**Dimensions:** 124x24x64 mm. Weight 175 g. It comes complete with a hardshell plastic case, ground cable, instructions for use and calibration certificate.



### ANTI-STATIC TINSEL ART. 303

It is produced with copper 100%. It is an economical and effective product to be used where it is not possible to set up the rigid device art. H 18 C.

It is sold in boxes of 22 meters or multiples. With this type of discharge it does not have to touch the material, but in a normal application the tinsel drapes over the product.

