

## Electrostatic chargers and HV generators

Static charges are generally a nuisance to productivity in industry, but there are applications where static charges can be harnessed to improve critical processes. AxisValence provides a range of electrostatic charging systems for such applications.

**Valstat VC** series electrostatic charging electrodes are designed to be powered by  $\pm 30$  kV and  $\pm 60$  kV Valstat PC series high voltage generators of either polarity.

The static charging electrodes are available in two variants; point static chargers and linear static charging bars. Point static chargers are provided with one to three static charging points, depending on the application need. Static charging bars are available in standard lengths of 3 metres. Both are supplied with high voltage cable enclosed in a flexible conduit.

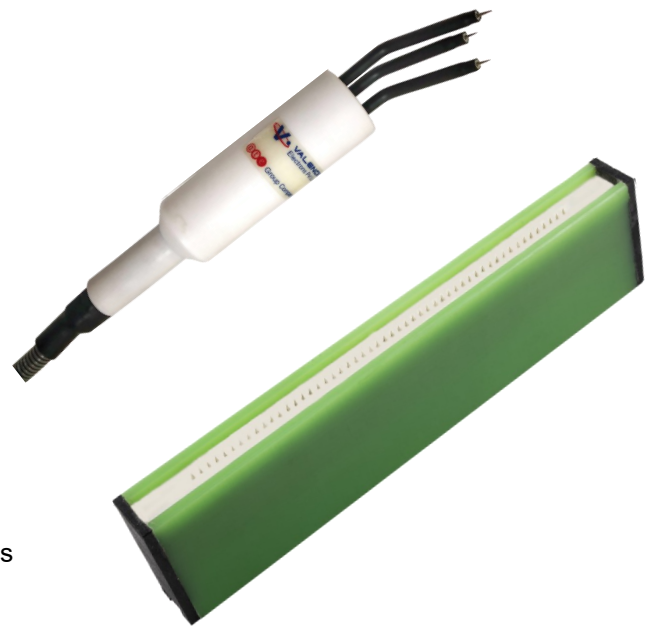
The Valstat VC series charging electrodes and Valstat PC series high voltage generators together provide a compact, sturdy and efficient system for generating electrostatic charges in a variety of industrial applications. The charges are most useful to enhance production by creating a temporary bond or attraction between two or more materials—all of them being electrical insulators.

### Applications:

- Pinning
- Plastic bag making
- Stacking
- Chill tack system
- In-mould labelling
- Flocking
- Ribbon tacking
- Web moisturising
- Roll to roll transfer
- Wood and laminates

### Features:

- Engineered plastic enclosure with epoxy encapsulated parts
- Standard length is up to 3000mm; higher lengths to order
- 3m interconnecting HV cables; higher lengths to order
- Easy installation and start-up
- No maintenance required, except for periodic cleaning
- Tested for safety under stringent conditions



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Valstat PC series high voltage generators are designed to provide HV DC supply to Valstat VC series static charging electrodes and other specific systems. They give a stable high voltage DC output even under severe conditions.

With precision becoming extremely important in production processes, the Valstat charging systems provide a simple solution for a range of electrostatic charging applications in the industry.

### Specifications:

- Input power: 240V AC, 50Hz (L-N-E)
- Output options:
  - ◇ 0-30kV, 5mA
  - ◇ 0-60kV, 2.5mA
- Pre-defined positive or negative DC polarity
- MS fabricated powder-coated enclosure
- Ripple factor: 0.1% p-p of max. output voltage
- Ambient temperature: 5-50°C
- Ambient humidity: Max. 80% RH, non-condensing
- HV output: Two high voltage output terminals
- PLC based touch screen monitor for controls
- User selectable voltage or current mode of operation with site adjustable current or voltage limit
- Optional external analogue or Modbus RS485 interface



**AxisValence** has extensive experience and expertise in various applications across industries, which we leverage to provide a suitable solution for your application.