



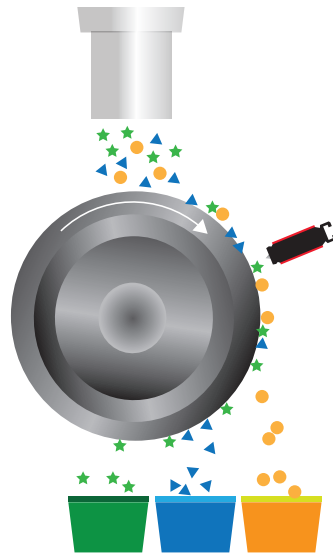
CHARGING

STATIC GENERATION APPLICATIONS: GENERAL

Electrostatic forces of attraction or repulsion are being used in normal processes in many areas of industry.

Attraction

Electrostatic attraction can range from putting a static charge on a product so that it can behave as required in a certain medical or pharmaceutical process, to large scale rubbish sorting in recycling processes.



A drum separator recycles the different parts by injecting an electrostatic charge into them when they fall onto the metal drum. The level of adhesion to the drum depends on their electrical properties.

More conductive parts will fall off the drum first, less conductive parts will stay on the drum longer. In this way they will fall into the appropriate container and be sorted.

RELATED PRODUCTS



IONFIX Compact Static Generator



7160 Static Generator Bar

Repulsion

Repulsion is achieved by having two parts with the same polarity. It is less used in industry than attraction, which can be used for temporary adhesion. One typical application is sorting products/materials with different electrical properties.

In this application an electrode is used to attract charged particles at differential rates so that they separate and fall into different containers..

