

Electrostatic Plastic Separators

hamos EKS



hamos EKS Electrostatic Separators separate mixed plastics in a dry process achieving very clean plastic fractions with a low running cost. Mixtures of PS/ABS, PVC/rubber, HDPE/PP, PET/PVC, PP/PS, ABS/PMMA, PVC/PE and many more can be successfully separated. The EKS works independent from colour and separates mixtures of black plastics as well. For the separation to be successful, the material must be dry, dust-free and < 10 - 12 mm.

EKS separates mixed plastics originated from

- PVC window frames
- PET bottles
- WEEE Electric scrap
- Cable residues
- Plastic production waste
- Automotive Shredder Residues
- Post consumer plastic waste
- Refrigerators and many more

Your Advantages

- Dry separation process
- High material purities
- **Black plastic separation**
- Separation independent from specific weight
- Separation independent from colour
- Low product losses
- Well proven turn-key system
- High flexibility - one machine separates many plastics
- Low power consumption
- Quick return on investment
- High throughputs

hamos is the worldwide leading expert in electrostatic plastic separation technologies for over 20 years.

Trust in our experience like hundreds of worldwide customers do.

The function

A mixture of different plastics is tribo-electrically charged in a special charging unit where plastic particles take positive or negative charges on mutual contact. After charging the particles are separated in a high voltage field. Positively charged particles are attracted by a negatively charged electrode and vice versa. Due to the fact that only 2 different charges are possible, electrostatic separators work best with mixtures of two different plastics.

The product range

hamos delivers EKS tribo-electrical separators with different throughputs and specifications to meet your requirements. All machines can be equipped with integrated screw conveyors for material transport. With BHS in-feed silos and automatic material logistics, hamos can deliver complete turn-key systems, designed for fully automatic operation 24/7. hamos EKS separators can be used with two or more machines "in parallel" for maximum production or "in line" for re-separation of reject fractions.

Standard specifications

EKS electrostatic separators are equipped with the following standard specifications, part of scope of delivery:

- Complete EKS separator system, ready to use
- Framework with operation platform and stair
- Fully automatic operation 24/7 with microprocessor controls
- Touch panel operation in your language
- Fully automatic material logistics via silo (optional) allows 24 hr continuous operation without manpower
- Individual adjustment of parameters by frequency controlled motors
- Fully automatic electrode cleaning system
- Fail safe operation
- Easy access for cleaning through life size doors
- Electronic high voltage supply
- Practically no wear

Our Offer

We have made hundreds of separation tests with different types of material. Please contact us if you are interested in a separation test at our laboratory. We will show you which plastic purities can be achieved and which value your material could have.

hamos supplies the following systems:

- **KWS** Electrostatic Separators for recovery of fine metallic particles
- **RSS** Rubber Separation Systems
- **WRS** Window Recycling System
- **KRS** Plastic Recycling Plants
- **ERP** Electronic Scrap Recycling Plants
- **HS, FFS, LCS** Electronic All-Metal Separators for protection of machines and products
- **SEA** Colour Sorting Machines

All data, pictures and features shown on this catalogue are purely indicative and have no legal validity. The manufacturer reserves the right to make changes and or update information at any time without prior notice.

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