

Plastics Processing

RSA-310 Automatic Bag Splitters



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Description ▼

The RSA-310 Automatic Bag Splitter is made up of a splitting unit consisting of a trough that encloses an extra-heavy-duty splitting screw complete with an appropriate gear motor and of a screening unit consisting of a horizontal cylindrical shaped rotating screen also complete with a drive unit. On top of the screening unit a suitable fan-operated dust collector can be integrated. Alternatively the RSA-310 is supplied with connecting spigots for a central de-dusting unit.

Function ▼

The RSA-310 Automatic Bag Splitter is used for splitting and emptying single or multiple layer bags made from paper, polyethylene, or polyethylene-lined paper. The bags are loaded manually or via belt conveyor into the inlet which is covered by a dust collecting hood. The bags drop from the belt on an extra-heavy-duty shaftless screw. Thin bags will burst open just through the impact. Bags with multiple layers or those made of elastic plastic material are pulled in by the slowly turning screw and ripped open through a scissor effect between screw and trough. This effect is increased due to a replaceable panel with integrated cutters applied to the inside of the trough. As it cuts them open the screw conveys the broken bags and their content into the revolving screen. The bag contents fall through the screen mesh into a collecting device mounted on the outlet of the machine. Through rotation and a slight vibration of the screen (due to its patented design) the bags are completely emptied. Paddles applied inside the screen drum repeatedly lift up the empty bags. In this manner the bags are liberated from remaining material. The inclination of the paddles helps the bags move towards the screen outlet where they drop into the optionally built-on COM-type bag compactor (see COM).



Application ▼

RSA-310 Automatic Bag Splitters are used to transfer large quantities of raw materials contained in bags to silos for storage. The material is normally conveyed pneumatically into the silo.

Benefits ▼

- ✓ Low product retention rate;
- ✓ Compact machine consisting of a small number of components (only few spare parts required);
- ✓ Easy access to all machine parts;
- ✓ Low operating noise level due to use of SINT® engineering polymers;
- ✓ Easy and quick replacement of filter elements;
- ✓ Able to handle bags of different sizes without any machine adjustment;
- ✓ Favourable price-performance ratio.

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Technical Features / Performance ▼

- ▶ Construction material: contact parts in stainless steel;
- ▶ Compact and robust design;
- ▶ Available with integrated dust collector or pre-equipped for centralised de-dusting system;
- ▶ Rotary vibrating screen completely in stainless steel with different size screen mesh.

Overall Dimensions ▼

