



Nihot Drum Separator

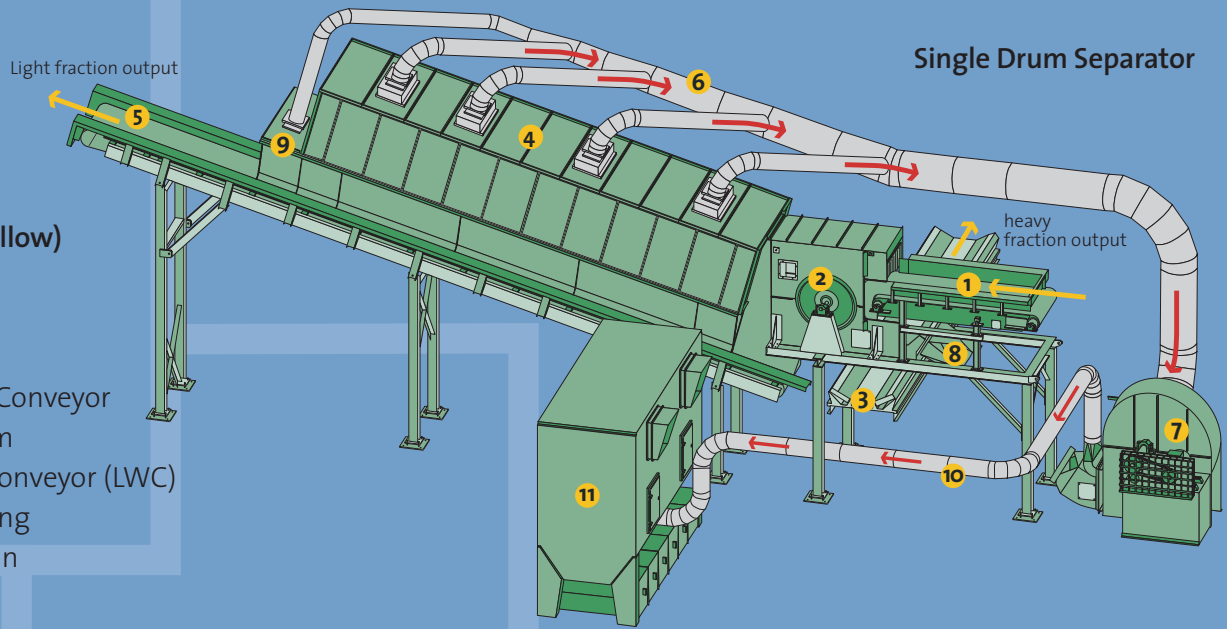
Solutions in air-controlled separation

In waste processing, controlled air is a perfect separation medium, both in terms of process technology and business solutions. Controlled air is one of the core technologies of Nihot. It is versatile, offers greater flexibility than mechanical separation technologies and it guarantees high separation efficiency. By using air, materials can be separated based on both material density and shape. Nihot, has optimized air technology for waste separation. The company is a recognized key player in its field.

The Drum Separator is a combination of a recirculation fan, a separation section with a rotating drum and a connecting expansion chamber. It is the best separating solution based on density of the material at capacities up to 100 tonnes/hr of input and up to 25 tonnes/hr of separated light fraction.

- Windshifters
- Drum Separators
- Industrial Dust Suppression

Single Drum Separator



Airflow (red) and fraction output (yellow)

1. Product Input Conveyor (PIC)
2. Splitter Drum
3. Heavy fraction Conveyor
4. Expansion Room
5. Light Fraction Conveyor (LWC)
6. Air return ducting
7. Recirculation Fan
8. Air Nozzle
9. Exhaust Chamber
10. Exhaust ducting to Filter-Unit
11. Filter-Unit

Types/performance

The Drum Separator is standardized, and can be supplied with an effective width of 500 to 2000mm.

We recognize the following types:

- SDS: Single Drum Separator. Separates input into two fractions: heavy and light.
- DDS: Double Drum Separator. Separates input into three fractions: heavy, mid-heavy and light.
- High-capacity system – up to 100 tonnes/hr.
- High separation efficiency – up to 99 wt.%.
- DDS separates input materials into 3 fractions: heavy, mid-heavy and light.

Benefits USP

- Versatile – processes many different waste streams, including high moisture content input.
- Gives control of the caloric value of the output.
- Removes interferants from input, thus protecting the granulators in RDF refinement.
- Low maintenance and few wear parts i.e. reduced downtime.
- Can handle large fraction sizes (plastics and foils).
- Low dust emission.

These benefits result in fast return on investment, low operating costs and superior reliability.

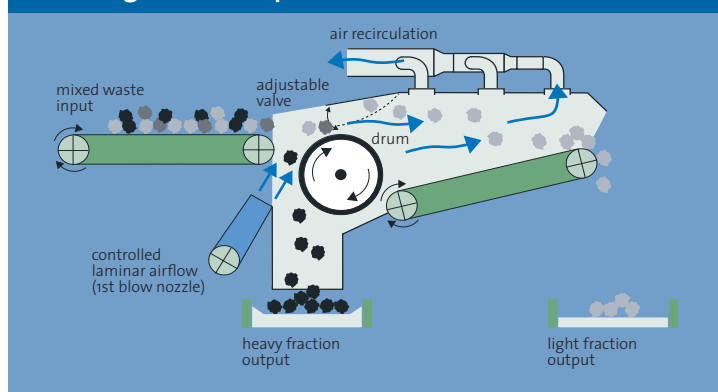
Applications

The Windshifter is utilized for the separation and/or upgrading of the following Waste qualities.

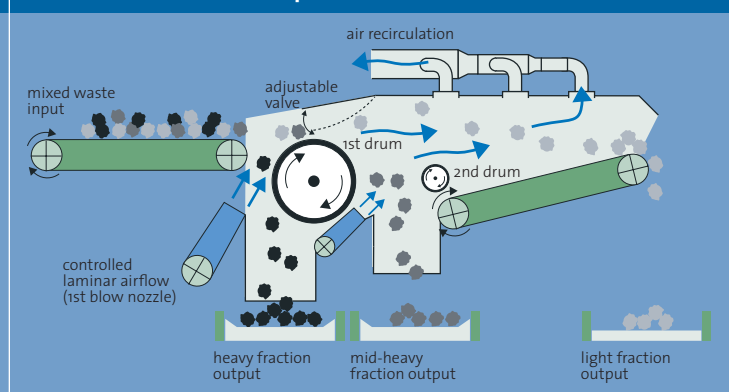
- Municipal Solid Waste. (MSW).
- Commercial and Industrial Waste (C&I).
- Construction and Demolition Waste (C&D).
- Compost Refinement section.
- Waste from Electric and Electronic Equipment (WEEE).
- Biomass/Wood recycling.
- Refuse Derived Fuel (RDF).
- Bottom Ash Upgrading.
- Single Stream (DSD/PMD).
- Glass.
- Other abrasive materials.

Drum Separator, the operating principles

SDS: Single Drum Separator



DDS: Double Drum Separator




NIHOT[®]

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