



# Nihot Drum Separator

## Solutions in air-controlled separation

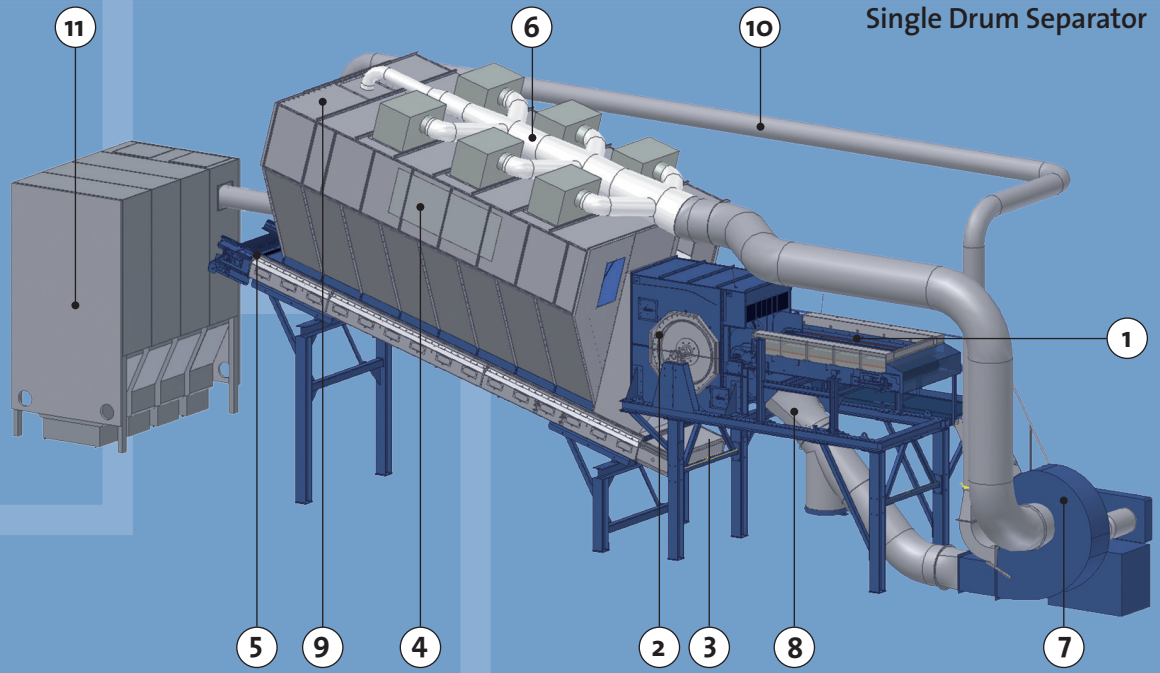


In waste processing, controlled air is a perfect separation medium, both in terms of process technology and business solutions. Controlled air is one of the core technologies of Nihot. It is versatile, offers greater flexibility than mechanical separation technologies and it guarantees high separation 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 room. It is the best separating solution based on density of the material at capacities up to 100 t/h of input and up to 25 t/h of separated light fraction.

## Single Drum Separator

1. Product Input Conveyor (PIC)
2. Splitter drum
3. Heavy fraction output
4. Expansion room
5. Light Fraction Conveyor (LWC)
6. Air return ducting
7. Recirculation fan
8. Air nozzle
9. Exhaust room
10. Duct to dust filter
11. Dust filter



### Types/performance

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

We offer 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 t/h
- High separation efficiency – up to 99 %

### 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 film)
- Low dust emission

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

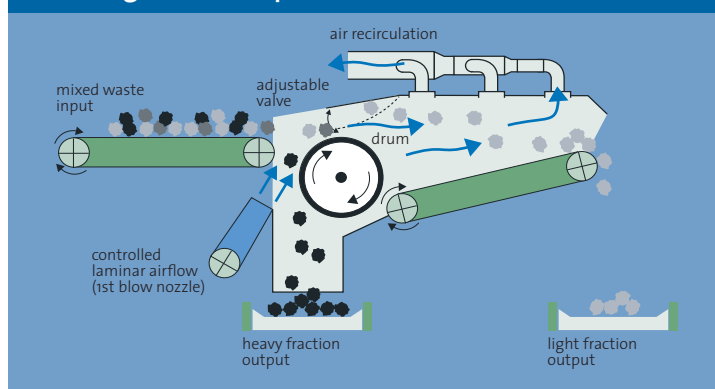
### Applications

The Drum Separator 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

