



# Nihot Windshifter

## Solutions in air-controlled separation

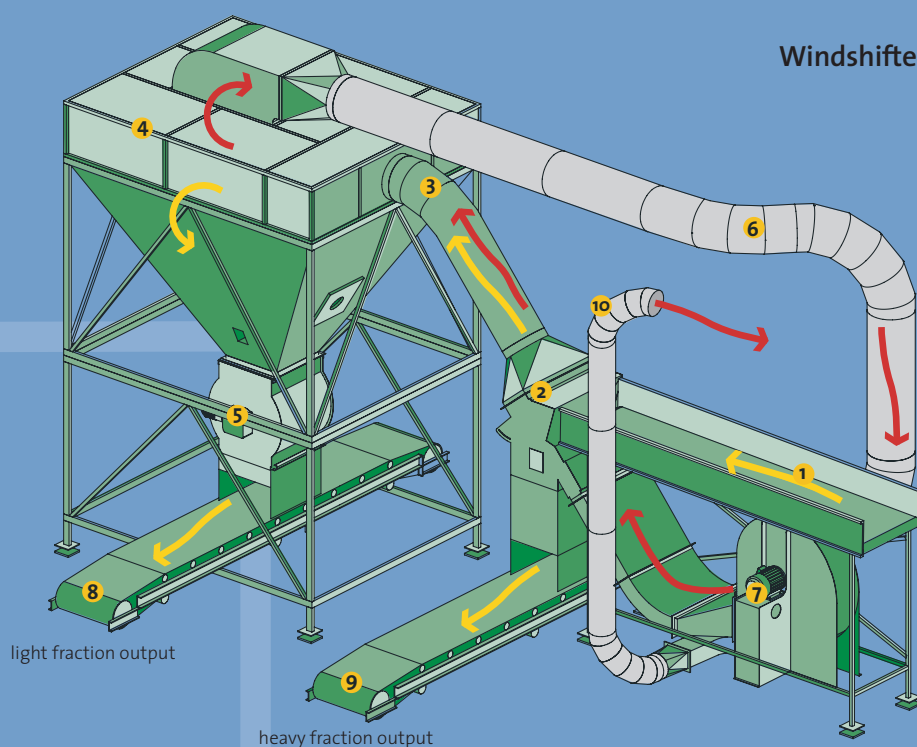


In waste processing, controlled air is a perfect separation medium, both in terms of process technology and business solutions. Controlled air is one of the core technologies of Nihot. It is versatile, offers greater flexibility than mechanical separation technologies and it guarantees high separation 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 Windshifter is a combination of a recirculation fan, a separation unit (diagonal shifter, vertical shifter or zig-zag shifter) and a combi separator. It is the best separating solution based on density of the material at capacities up to 100 t/h. The low-maintenance Windshifter is a proprietary design of Nihot. It offers effective separation and operational reliability, with a proven and long track record at customer plants worldwide.

**Airflow (red) and materials (yellow)**

1. Product Input Conveyor (PIC)
2. Windshifter
3. Material transport ducting
4. Combi Separator
5. Rotary valve
6. Air return ducting
7. Recirculation fan
8. Light Fraction Conveyor (LWC)
9. Heavy fraction Conveyor
10. Exhaust air to dust filter

**Types/performance**

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

We offer the following types.

- WS-S: separation unit is diagonal shifter
- WS-V: separation unit is vertical shifter
- WS-Z: separation unit is zig-zag shifter
- Processes input of up to 100 t/h into two fractions, heavy and light
- Processes fraction sizes of 20 - 400mm
- Stable, reliable separation system
- Separation efficiency up to 99 %
- Low dust emission due to controlled circular airflow

**Benefits USP**

- Proven high operational reliability, i.e. increase of effective production time
- High separation efficiency – up to 99 %
- Gives control of the caloric value of the output
- Removes interferants from input, thus protecting the granulators in RDF refinement
- Low maintenance and very few wearable parts, i.e. reduced downtime, low operational costs
- 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)

**Separation units of Windshifter**