harden

JUST SHRED IT, THUS SORT IT.

Windshifter

Windshifter

Harden's single drum and double drum windshifters separate materials by size, density, and shape, ideal for commercial and industrial waste (C&I), municipal solid waste, demolition waste, biomass, and electronic waste.

They provide precise light-heavy sorting for resource recovery, with high throughput, excellent efficiency, low energy consumption, minimal dust and noise, easy maintenance, and reliable safety.

Single Drum Windshifter

Benefits & Applications

The single drum Windshifter efficiently separates waste into light and heavy fractions, processing commercial and industrial waste(C&I), municipal solid waste (MSW), construction waste, renovation waste, electronic waste (e-waste), plastic waste, landfill waste, incineration residues, and biomass to support solid waste resource recovery and efficient recycling, enhancing RDF/SRF production.

Double Drum Windshifter

Benefits & Applications

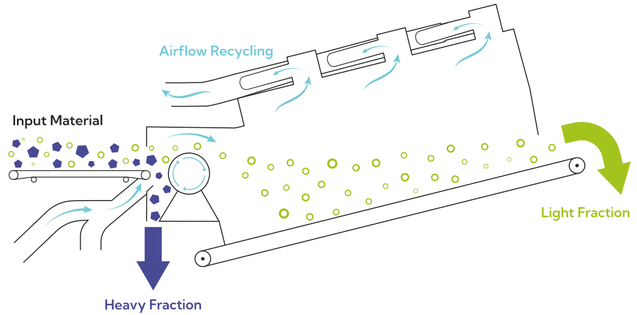
The double drum Windshifter efficiently separates waste into light, medium, and heavy fractions with higher capacity and precision than single-drum models, ideal for processing renovation waste, commercial and industrial waste (C&I), municipal solid waste (MSW), electronic waste (e-waste), plastic, landfill waste, and incineration residues for recycling and high calorific RDF/SRF production.

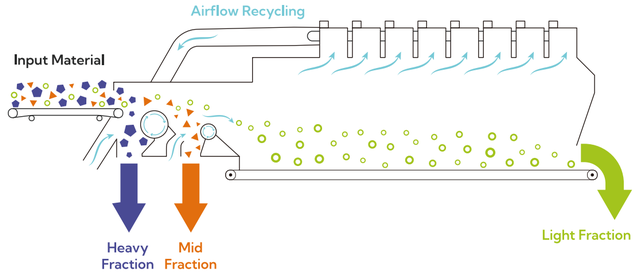
Single Drum Windshifter Working Principle >

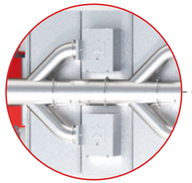
The single drum windshifter uses airflow to separate waste into light (e.g., plastics, paper, textiles) and heavy fractions(e.g., stones, glass, metals): lighter materials are carried upward or horizontally, while the heavier materials settle, achieving precise classification.

Double Drum Windshifter Working Principle >

The double drum windshifter precisely separates waste into light (plastics, paper, textiles), medium (cardboard, wood), and heavy (stones, glass, metals) fractions. Its design ensures high throughput, continuous processing, even for flexible or elongated materials, making it ideal for large-scale operations.







Low-Energy Design

Closed-loop airflow system reuses air to minimize fresh air intake, reducing fan energy consumption and enhancing efficiency.

High Separation Efficiency

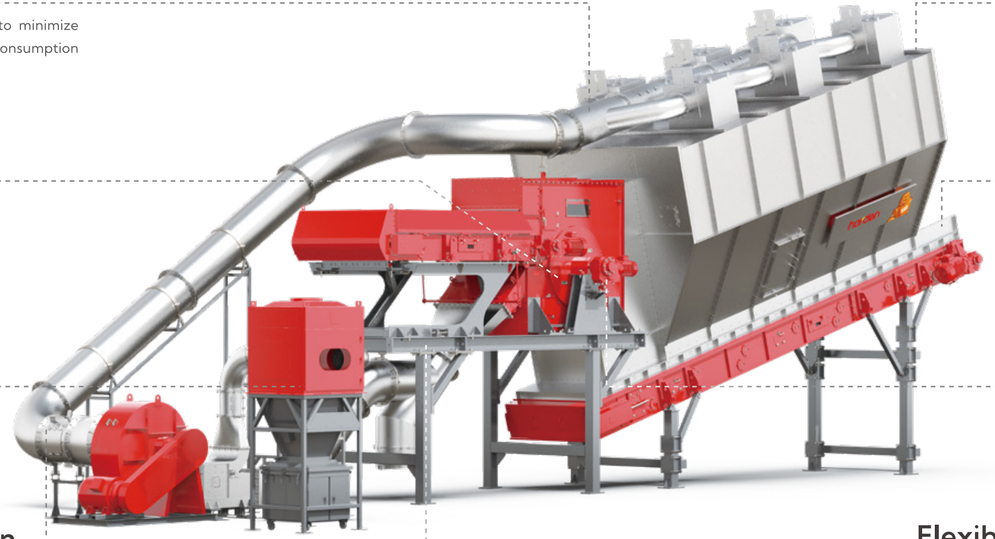
Precise airflow control adjusts speed and pressure for clear light-heavy material separation, with air recycling to minimize fine particle loss and improve target material purity.

Low Dust Emissions

Micro-negative pressure design and efficient dust collector significantly reduce dust release, meeting environmental standards.

Low-Noise Operation

Robust structure with minimal vibration and balanced aerodynamic design greatly reduces operating noise, creating a comfortable work environment.



Single Drum Windshifter (SFX Series)

Versatile Adaptation

Tail settling chamber and discharge conveyor support horizontal or inclined configurations, flexibly meeting diverse material sorting and spatial needs.

Clean Production Environment

Multi-stage cleaning at feed and discharge ends prevents material leakage, ensuring a clean and safe production area.

Easy Maintenance

External drive and inspection structure simplify maintenance; auto-lubricated bearings reduce maintenance frequency and costs.

Flexible Valve Adjustment

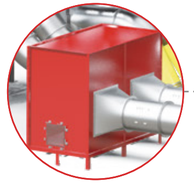
Valves allow precise tuning to accommodate varying material densities and size for optimal sorting.

Low-Energy Design

Closed-loop airflow system reuses air to minimize fresh air intake, reducing fan energy consumption and enhancing efficiency.

High Sorting Precision

Dual-drum design precisely sorts waste into light, medium, and heavy fractions. Adjustable airflow speed and direction adapt to diverse material properties, enhancing target material recovery.

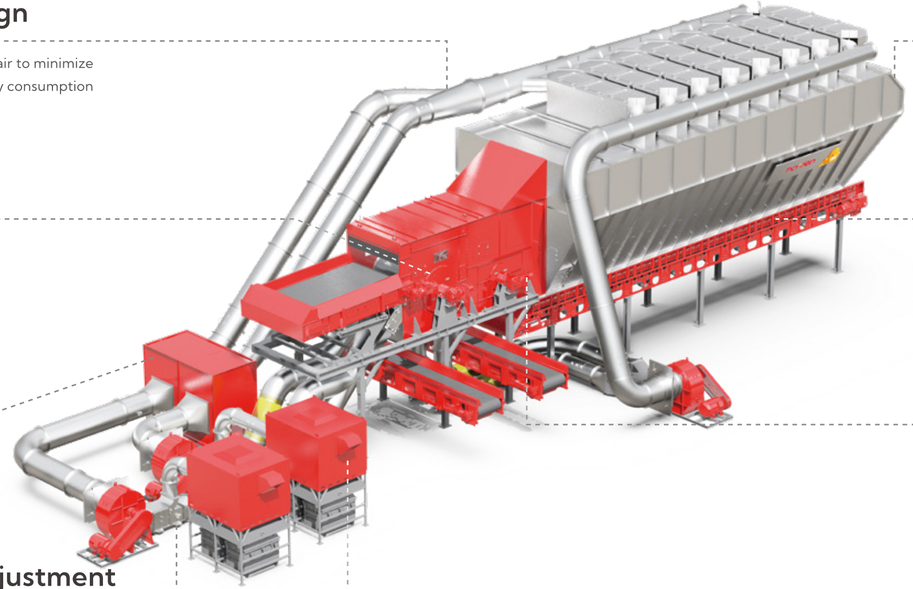


Air Duct Filtration System

Equipped with air duct filters to reduce equipment wear, lower maintenance frequency, and simplify upkeep.

Flexible Valve Adjustment

Valves allow precise tuning to accommodate varying material densities and size for optimal sorting.



Double Drum Windshifter (DDW Series)

Versatile Adaptation

Tail settling chamber and discharge conveyor support horizontal or inclined configurations, flexibly meeting diverse material sorting and spatial needs.

Clean Production Environment

Innovative conveyor design with multi-stage cleaning at feed and discharge ends prevents material leakage, ensuring a clean, safe production area.

Easy Maintenance

External drive and inspection structure simplify maintenance; auto-lubricated bearings reduce maintenance frequency and costs.

Low Dust Emissions

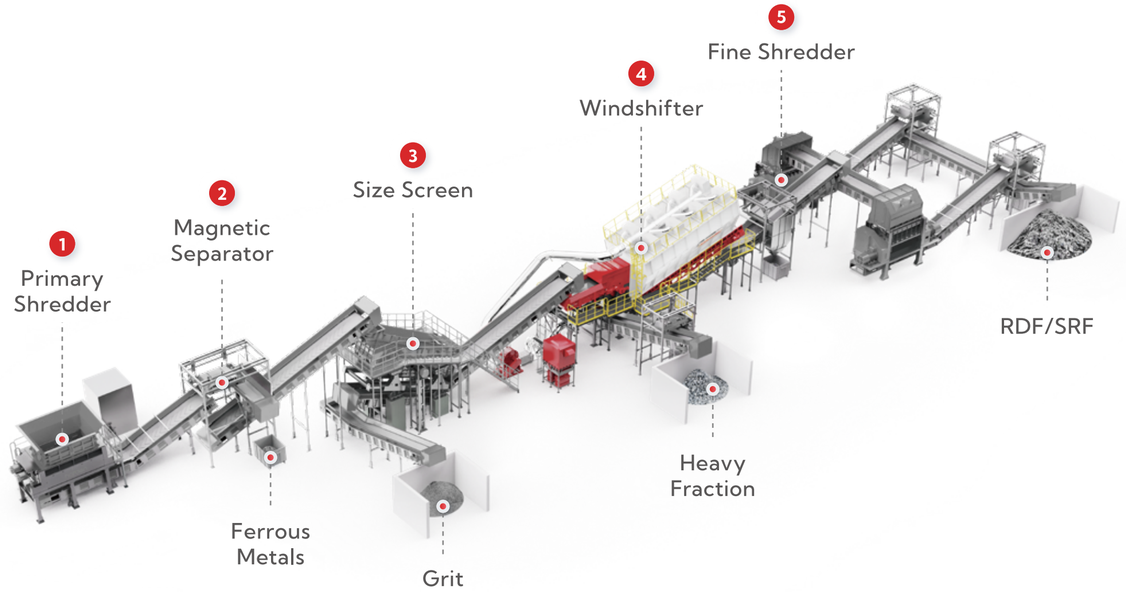
Micro-negative pressure design and efficient dust collector significantly reduce dust release, meeting environmental standards.

C&I Project

Product Model		SFX800	SFX1200	SFX1400	DDW2000
Working Width	mm	800	1200	1400	2000
Throughput	m^3/h	60	100	145	200
Particle Size	mm	20~300	20~400	20~500	20~600
Installed Power	kW	35	48.5	57	134

*The above are standard model parameters and are subject to modification.

DSWS Solution



Why Choose **Harden**

15 Years of Technical Expertise in Innovation

1,500+ Global Success Stories Across 30+ Countries

Rigorous Quality Control for Reliable Equipment

Customized Solutions to Optimize Client Value

24/7 Rapid-response After-sales Support

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