PRODUCT SHEET

Norditek VS1220
Wind Shifter



Overview

The Norditek VS1220 is a wind shifter that separates materials based on density and shape, with multiple adjustment options.
It offers high precision separation and is fully compatible with all other Norditek machines, making it an integral part of the Norditek modular system.

Key Capabilities

- Separates materials based on shape, aerodynamic properties, density, friction and friability
- Capacity: up to 150 m³/h (material size ratio should not exceed 1:5)
- Handles fractions up to 600 mm
- Multiple adjustment options: throw parabola, air flow, air pressure, gap opening and friction roller
- Open design for easy maintenance and minimal downtime



Input Materials


Compost


Bark


Industrial waste


Construction waste


Plastic waste

Applications

The VS1220 is involved in 2 out of 3 recycling projects at Norditek customers — it is often the module that determines the quality of the final product. A fraction containing plastic film, paper or wood chips lowers the value of an entire batch, regardless of how good the sorting plant is. The wind shifter removes these light contaminants with high precision, without disturbing the heavier materials.

Material buyers increasingly demand high purity. A wood fraction with mixed plastics is not accepted for biochar production. Metal scrap with paper and plastic yields a lower sale price.

Typical applications

Recovered wood (Returträ)
removes plastic film and other light contaminants from the wood fraction before further processing or energy recovery.

Park and garden waste
separates light organic material from heavier fractions before biochar or compost production.

Construction and demolition waste
cleans crushed concrete and brick from light contaminated material, improving the quality of the recycled aggregate fraction.

Excavated masses (Schaktmassor)
removes lighter organic material to produce a cleaner mineral fraction.

In a typical system sequence, the VS1220 is placed after a crusher and screening plant: the crusher reduces size, the screener separates by fraction size, and the wind shifter removes light contaminants from the relevant fractions. A magnet or eddy current separator handles the metal content, and a water bath can be added for density separation if required.

Standard Equipment

01 15 kW fan

02 Frequency controlled functions: conveyor, distributions roller and airflow

03 HD accelerator with 1200mm wide hopper

04 Separation/friction roller

05 Hydraulically adjustable actuators for distribution roller

06 Suction grid

07 HD accelerator
With reinforced chassis, impact bars, heavy duty drive and return pulleys. Thicker, cut-resistant rubber belt.

08 Output chute for light material

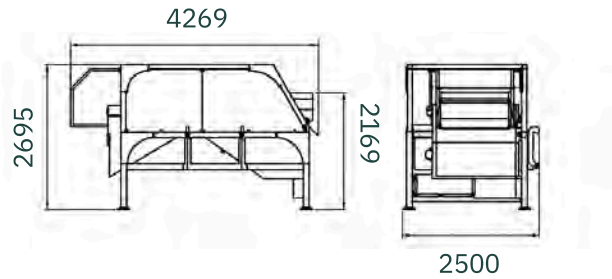
09 Angled impact bars
Create belt guidance on the infeed belt by centering the belt with the help of the impact bars, which minimizes the need for adjustment. The effect is less twisting and longer life of the conveyor belt. Standard from VS1220-107.

Technical Specifications

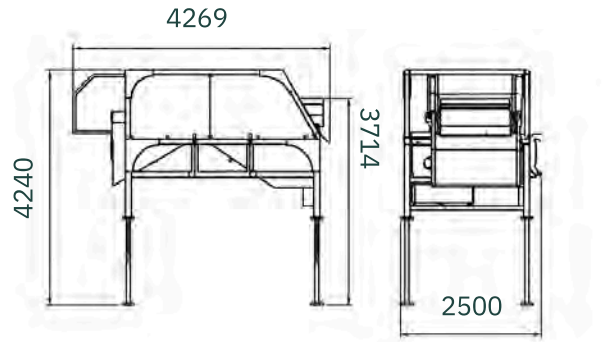
Electricity	400V / 32A
Effect	17.25 kW
Suggested generator	35 kVA
Max capacity	150m3/h*
Infeed height:	Adjustable 2.2–3.7 m
Weight	2,5 ton
Emergency stop device	2
Support legs	4 adjustable
Connection to lift	Volvo BM-connection

**The capacity is affected by the materials moisture, fractions, size, density etc.*

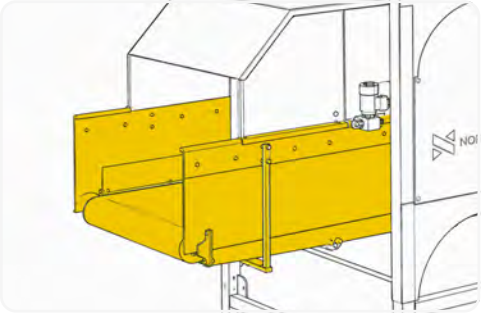
Transport Position



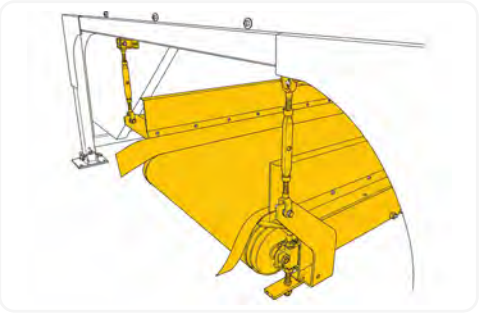
Working Position



Options



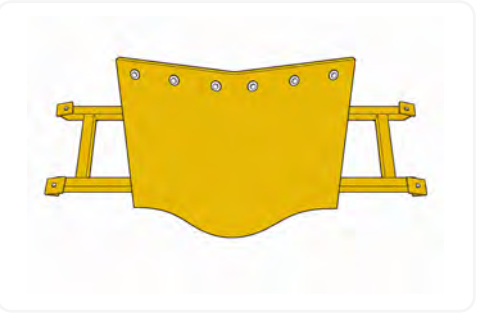
Output belt
Replaces output chute; increases stack height for the light fraction.



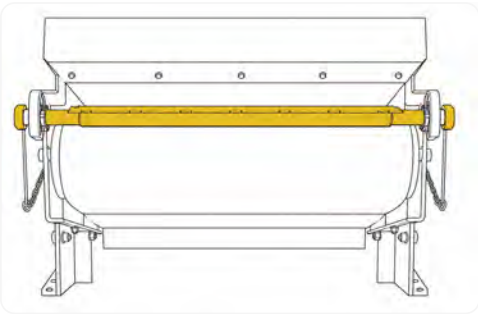
Drop conveyor Heavy Duty
for heavy fraction — reinforced chassis, impact bars, drive and return pulley, thicker cut-resistant rubber belt, mounts included.



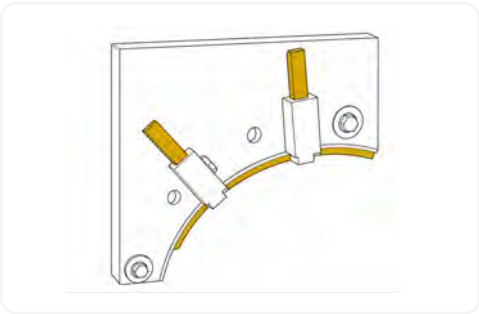
Conveyor
Supplied with plain or Chevron belt; standard widths: 600 and 900 mm.



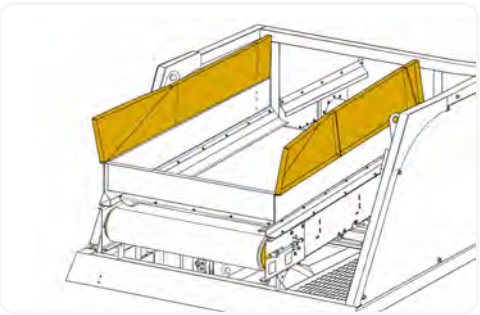
Plough
For better spreading of material to ensure more efficient separation.



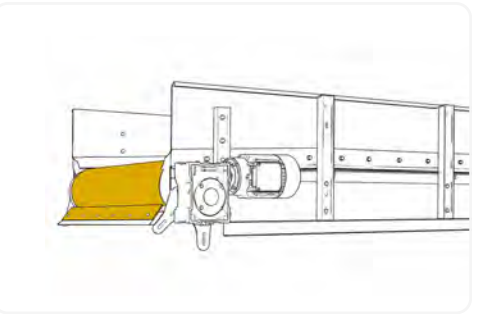
Scraper
Cleans accelerator from material; improves sorting and reduces cleaning needs.



Cutting plate
Cuts material that wraps around the separation/friction roller, avoiding downtime.

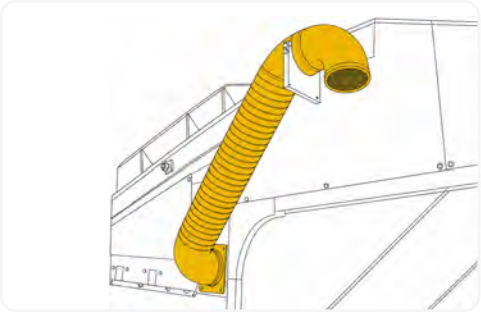


Extended hopper walls
Plates to guide light materials to the feeder.

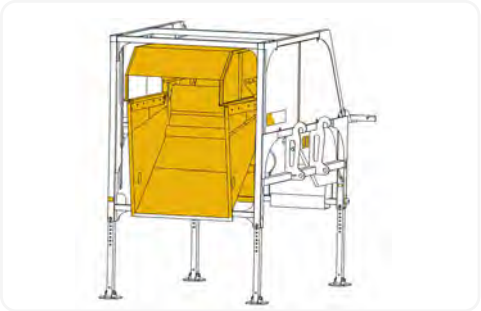


Drop conveyor basic
High sides, for material under 100 mm, 4 m long.

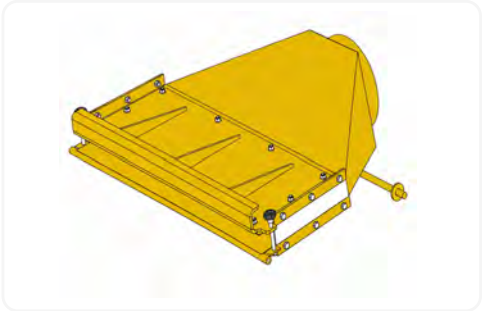
Options



Intake snorkel
Avoids clogging of air intake with light materials.



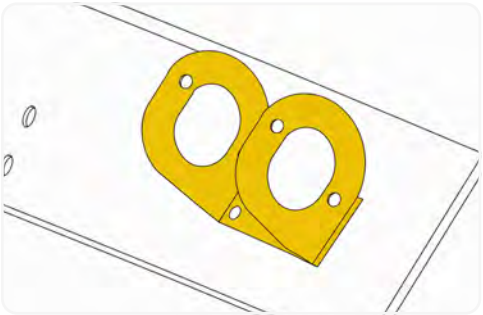
HD output chute
PU plates for reduced wear, noise and build-up of sticky material; suitable for noise-restricted areas.



HD air nozzle
Reinforced air nozzle for undisturbed airflow in demanding applications with extra heavy fractions.



Rubber curtains
For collection of materials; used with the light or HD drop conveyor.



Ladder attachment
Secures ladder during inspection.

One, two, three windshifters in just one fraction

All Norditek machines are compatible with each other. This means that you can supplement, replace and adapt the system completely to what the material requires. Today Norditek has sold over 100 windshifters and our methods for optimizing our machines for different input materials are constantly evolving.



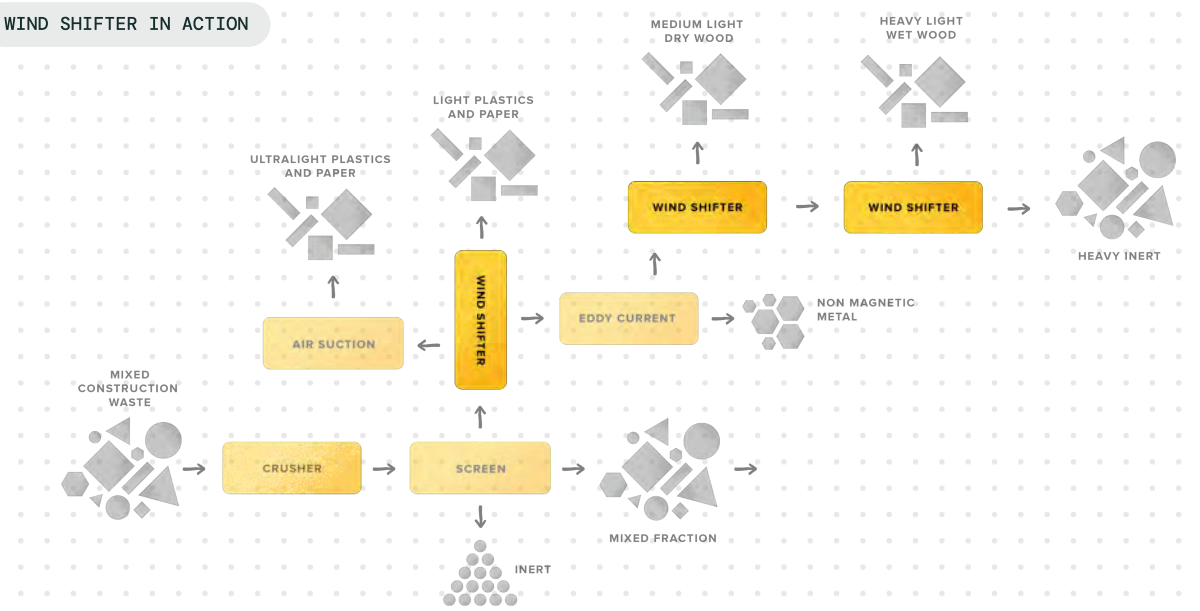
Commercial Conditions

Guarantee
1 year (from new machine) or 2,000 working hours, whichever comes first. No wearing parts. No labor cost. Norditek disclaims all liability for damage caused by use of non-original spare parts, accessories or equipment.

Delivery time
According to agreement.

Delivery terms
Transport costs are not included in the price and will be invoiced afterwards.

Payment terms
Payment upon delivery. Norditek notifies when machine is ready; transport is booked when payment has been received.



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