



THE AIRFLEX 1500 – the versatile wind sifter for even the most challenging separation applications

Even in its basic form, the AirFlex 1500 is an effective machine that fulfils its function in both small and large recycling centres with the highest possible rates of satisfaction. With a simple and robust construction, it separates materials into two fractions (heavy and light). Optional

upgrades make the wind sifter capable of handling all common application areas, so that even the most challenging separation processes don't break its stride: from building rubble, construction waste, compost (fine compost and oversize), wood waste, packaging materials and

PET bottles to pre-treated scrap metal. The separate SLS attachment enables foil and light material extraction for the production of an additional third fraction. This machine is easy to transport thanks to its hook lift frame or as a complete unit in a 40-foot shipping container.

THE END PRODUCT

WS-series wind sifters can be combined with the various screening systems from Doppstadt. This results in an efficient process unit of the highest technological calibre. Suitable input materials for this machine combination include compost, building rubble, construction waste, commercial waste, RDF, pre-treated ferrous metal, waste wood, PET bottles, slag, scrap and organic waste.



TECHNICAL DETAILS

AIRFLEX 1500

DIMENSIONS

Frame	Hook lift
Total weight (kg)	12,000
Length (mm)	8,000
Width (mm)	2,300
Height (mm)	2,450 / 3,690
Transport width (mm)	2,300
Transport height (mm)	2,600
Transport length (mm)	8,000

DRIVE

Motor type	Electric/diesel generator
Manufacturer	Caterpillar
Rated output (kW/HP)	40 / 55
Motor type 2	Electric/diesel generator
Manufacturer	Caterpillar
Rated output (kW/HP)	90 / 122

SLS

Output (kW)	15
Suction volume (m ³ / h)	13,000

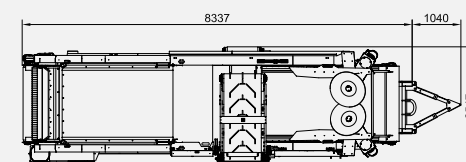
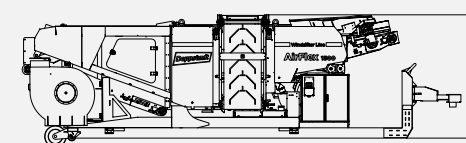
SIFTING DRUM

Drive electric	Elektric
Drive power (kW)	4

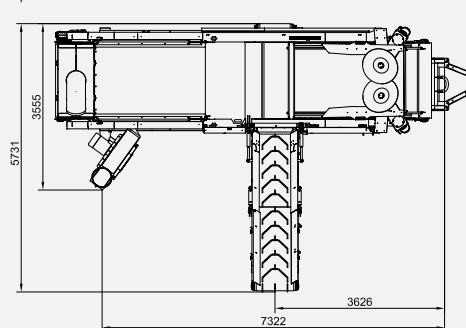
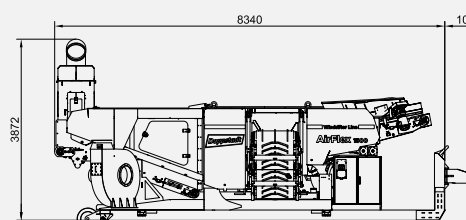
FAN UNIT

Output (kW)	30
Type	Radial fan

Transport position (mm)



Work position (mm)



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Best Solution. Smart Recycling.

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THE AIRFLEX 1500

The new generation of wind sifter is putting new life into the basic mobile wind sifter. With its completely overhauled modern design, the AirFlex 1500 is drawing on many old virtues from the WS 1600 AB. All the polished extras make this ready-to-go wind sifter model a silver bullet solution in the separation process. The wind blows away the chaff

while the grains fall right back into the basket: the separation process of "wind sifting", or wind winnowing, which utilises the density and weight of material, has been around for thousands of years – our wind sifting machines have just perfected it! The new generation AirFlex 1500 is, like its predecessor the WS 1600 AB, is a fully wired machine with an electric

drive. This wind sifter also makes use of the esteemed ready-to-go principle. It runs on a separately available diesel generator from the world-renowned company Caterpillar, or simply on the mains electricity of the operator's facility via a CEE plug connection.

THIS IS DOPPSTADT

Doppstadt, a family-run company based in Velbert (near Düsseldorf), was founded in 1965. Initially a producer of agricultural machines, Doppstadt has become a leading global supplier of solutions and services in all areas of recycling/environmental technology and resource recovery.

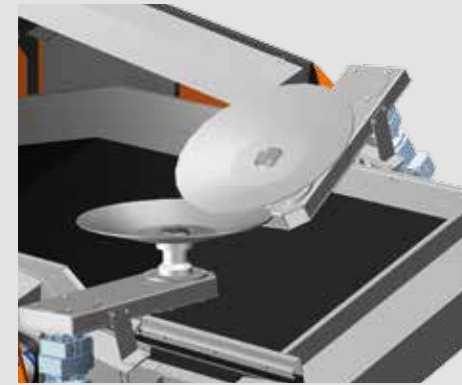
'Best Solutions. Smart Recycling.' True to this motto, we combine proven processes technology into individual solutions that are hallmarked by innovative process flows, maximum operational efficiency and cost-effectiveness. In the area of water-based separation and wet recycling systems in particu-

lar, we provide our customers with flexible, tailor-made solutions for all requirements. With sites in Velbert, Wülfrath, Calbe and Wilsdruff, we serve customers in more than 40 countries through our own dealership network and offer a wide range of services to support the unique Doppstadt product portfolio.



SLS ATTACHMENT

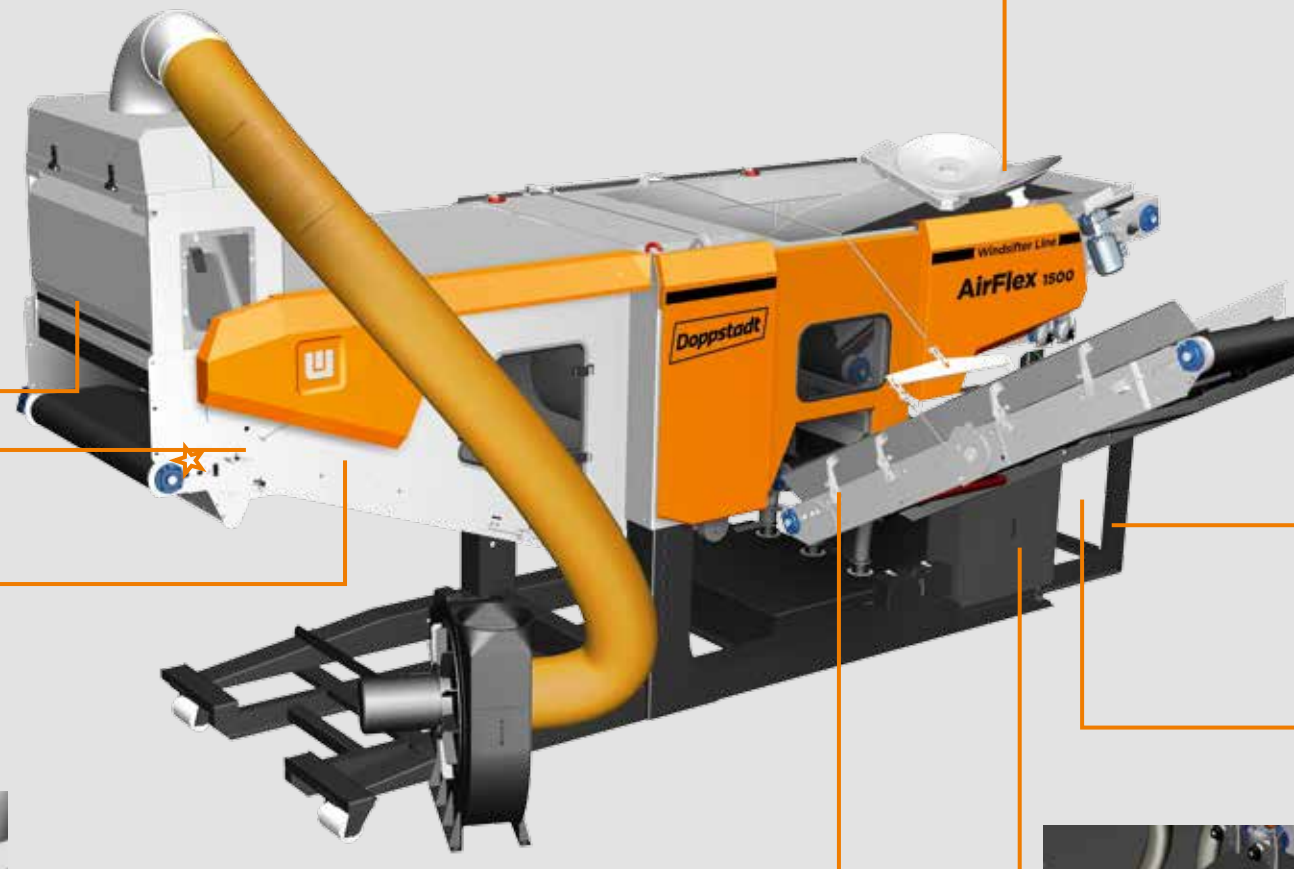
The SLS attachment adds an additional separation step to produce a third fraction. The suction unit can be perfectly integrated into the expansion chamber and requires the installation of the optional light fraction conveyor. The additional control cabinet and pivoting fan are simply positioned underneath on the machine's frame. For transportation, the sifting system is simply lowered into the light fraction chamber.



DISC SPREADER

The distribution discs are mounted over the acceleration conveyor at the point of entry. They rotate in opposite directions, so that the material flow is evened out as it enters the system. This ensures that the complete working width is utilised to maximum effect.

AirFlex 1500



HOOK LIFT FRAME

The AirFlex 1500 is completely mobile thanks to its hook lift frame. The wind sifter frame is secured to the trailer using a twistlock system. Both generators can also be mounted onto the trailer. For transporting the machine around the yard, the mounted rollers can be unlocked.



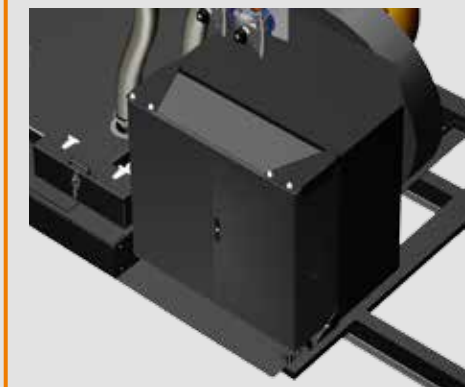
EXPANSION CHAMBER WITH LIGHT FRACTION CONVEYOR

The extended chamber has the light fraction conveyor integrated in its frame. This system offers a discharge height of at least 1,400 mm up to 2,200 mm. In this way, process efficiency can be increased manifold for lumpy light materials.



HEAVY FRACTION CONVEYOR

The heavy fraction conveyor is fixed to the machine's frame and is set up for operation using a rope system. This ensures vibration-free operation. For transport, the conveyor simply has to be folded back onto the machine without additional assembly.



LIFT-UP FRAME

An electric driven hydraulic pump lets you lift up the machine's entire frame to enable greater discharge heights. All operating controls remain close to the ground so that no ladders or safety bars are required for operation.



At a glance

- The construction is designed for transport in a 40-foot shipping container
- The sifter's geometry is utilised to its full potential thanks to the distribution discs
- Highly efficient light fraction extraction with the SLS attachment
- Highly mobile unit for road transportation on a hook lift trailer
- Ready-to-go with an installed generator or mains connection via a 125CEE plug connection
- High process stability thanks to high discharge conveyors
- Hydraulic adjustment of the machine's height



DETACHABLE DRIVE UNIT

The generator for the AirFlex 1500 is scaled in two outputs. The 60 kVA generator has a width of 2,400 mm, which means it can stay on the trailer during transport. When running the SLS, the 100 kVA generator is required. The generator can be easily dismantled from the frame and placed next to the machine for operation.