

AIR SEPARATOR



The air separator is used to separate both light and heavy materials, particle size approx. 50-700 mm. The material to be separated is loaded onto a conveyor and transported to a separation roller.

The material is then separated into heavy-light. Heavy material falls to the bottom of the roller, light material is blasted over the separation roller into a settlement tank, in which the material settles and is removed via a conveyor.



SEPARATION

The separation of the light and heavy fractions is achieved by a targeted air flow, the amount of which can be adjusted in the recess area, shortly after discharge from the conveyor belt.

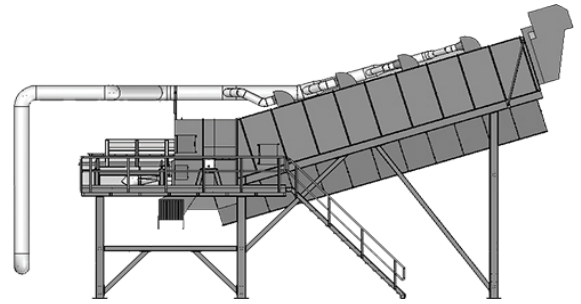
The separation operation can be influenced by controlling the following components:

- Conveyor belt vertical position
- Conveyor belt speed
- Top roller speed
- Air volume performance
- Nozzle angle
- Air pressure



WALKWAYS AND STAIRS

The steel structure is arranged in such a way that walkways and access platforms can be bolted onto the steel frames.



AIRFLOW AND PIPING

The piping system is made of streamlined, galvanised steel. Dust extraction from the air separator is carried out through a filter in the main dust extraction equipment.

GENERAL

- A smaller dust filter was selected on purpose. As a result, it complies with the European ATEX Standard. It is no longer necessary to fit a dust filter due to enhanced measures, for example explosion cover, airflow equipment or sprinkler systems.
- This equipment complies with the CE standard.
- If material which is too wet is fed in, there is a risk that the material will stick to the side plates, which can cause blockages.
- The sound level of the separator ventilator is approx. 80-90dB(A). The difference of 10dB(A) depends on the configuration and position.
- The sheets are supplied in a radius of 1.5 and 2 x D. These are fitted in 4 - 5 m clamping rings or flanges, regardless of diameter. The pipes are attached by suspension brackets or steel hoops.

WEIGHT

The total weight of the air separator is 13t. The equipment has 6 substructures to allow weight distribution on the ground.

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