

Air Belt Separator



The separator operates in recirculation mode. A second fan extracts the dust-laden air through a filter from the settling chamber and transfers the cleaned air to the surroundings. The separated dust is supplied to the light material fraction.

- › High recovery rate of light fraction
- › Numerous adjustment parameters allow machine adaptation for an optimal separation result for different materials
- › Integrated filter unit

The separator classifies the input material into a light weight and a heavy weight fraction. The input material has to be free of fines and oversizes as far as possible. The input material has to be pourable and may not agglutinate. For good separation results, the ratio of the smallest to the largest particle should be 1 : 4.

The input material must be evenly discharged on the acceleration belt. Under the head of the accelerating belt a nozzle is placed. The input material passes this nozzle in free fall. Very light components are blown out of the stream over the arch belt directly into the settling chamber. In the transfer area, very heavy parts fall down on a heavy material discharge belt. All other parts bounce against the arch belt and are also separated into light and heavy fractions by the radius and the adjustable pitch of the arch belt. In the settling chamber the light fraction is separated from the air stream and discharged by the light material discharge belt.

BBS

Working width	1,600 mm
Throughput	up to 160 m ³ /h
Length total	9,200 mm
Width total	2,400 mm
Height total	4,600 mm
Installed electrical power	43 kW
Arch belt	2.2 kW
Fan for nozzle	22.0 kW
Fan for underpressure generation	15.0 kW

