

## ADVANTAGES

- Precise separation of light and heavy fractions through regulated air flow and zig-zag separator channel design
- Adjustable channel width
- High process stability with continuous material feed and airflow distribution
- Easy maintenance thanks to excellent accessibility
- Designs adapted (steel, stainless steel, PU or HX full lining) to the input material characteristics
- Compact design for integration into new or existing plants
- Suitable for a wide range of bulk material streams with different specific weights, particle shapes and sizes

## OPERATING PRINCIPLE

The feed material enters the zig-zag separator via a rotary valve and is distributed across the entire cross-section of the separating channel. A separating airflow introduced from below passes through the material stream:

- Heavy material (larger / higher density) drops downward and is discharged via the heavy fraction outlet
- Light material (smaller / lower density) is carried upward by the airflow and extracted via the suction system
- The separation cut can be fine-tuned by adjusting the channel width and the airflow volume

## APPLICATION

- Separation of material mixtures according to density, particle shape or size
- Removal of contaminants and undesired fractions
- Pre- or post-sorting within complex process chains



## TECHNICAL DATA

Type	ZZS180	ZZS250	ZZS350	ZZS450
Channel widths (mm)	400 / 500 / 600 / 800 / 1000 / 1200	600 / 800 / 1000 / 1200 / 1600 / 2000	800 / 1000 / 1200 / 1600 / 1800 / 2000	1200 / 1600 / 2000
Bends	3-5	3-5	3-5	3
Maximum airflow rate (m³/h)	up to 16.850	up to 46.800	up to 65.220	up to 84.240
Possible rotary valves	AS450/AS600/AS800	AS450/AS600/AS800	AS600/AS800/AS1000	AS1000/AS1200
Length L (mm)	ca. 1.085	ca. 1.360	ca. 1.400	ca. 2.360
Width B (mm), depending on channel width	516 - 1.316	716 - 2.116	916 - 2.116	1.340 - 2.140
Height H (mm)	1.298	1.800 - 2.260	2.300	3.800
Inlet air	top / side	top / side	side	side
Heavy fraction outlet	bottom, with optional rotary valve			
Light fraction outlet	top extraction (negative pressure)			
Maintenance access	single- or double-sided			double-sided