



# AIR SLIDES / BKAS

## TRANSPORT



Air slides are continuous transport conveyors used to transport dry dusty and fine-grained raw materials and powdered materials, such as: lime-marl flour, cement, sand, gypsum, ashes, etc. The devices are characterized by high transport efficiency in relation to the dimensions of the devices themselves. and the ability to transport materials at higher temperatures (even in the range from 150 to 200 °C)

### PRODUCTION MATERIALS:



CARBON  
STEEL



STAINLESS &  
ACID - RESISTANT  
STEEL



HEAT - RESISTANT  
STEEL



HARDOX  
STEEL

### DEVICE OPERATION PARAMETERS:



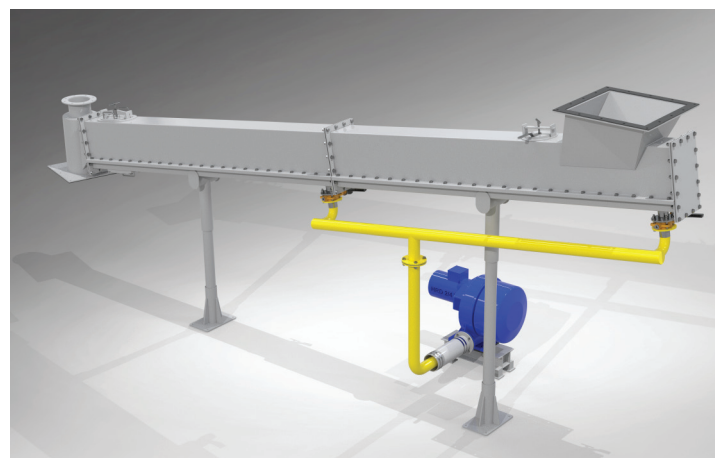
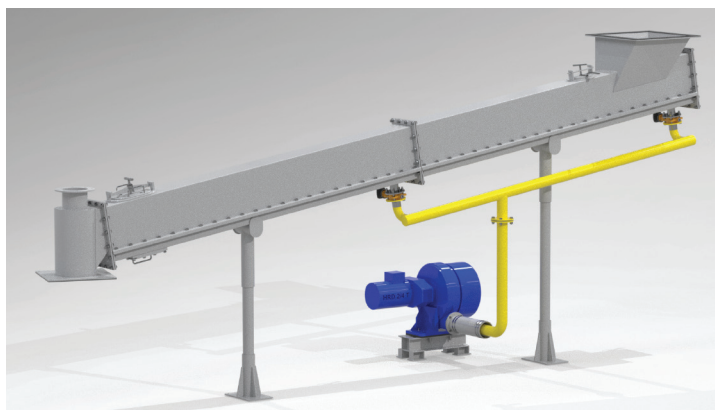
ABRASION-  
RESISTANT  
VERSIONS



MATERIAL  
TEMPERATURE:  
up to 200 °C



WORKING  
PRESSURE:  
0,05 - 0,16 BAR



### INDUSTRIES WHERE AIR SLIDES ARE USED:



CEMENT  
& LIME  
INDUSTRY



CHEMICAL  
& PETROCHEMICAL  
INDUSTRY



ENERGETIC  
& FUEL  
INDUSTRY



CONSTRUCTION  
& ROAD  
INDUSTRY



METALLURGY  
& GLASS  
INDUSTRY



FOOD &  
AGRICULTURE  
INDUSTRY



ENVIROMENT  
PROTECTION  
INDUSTRY



LIMESTONE  
& GYPSUM  
INDUSTRY



CELLULOSE  
& PAPER  
INDUSTRY



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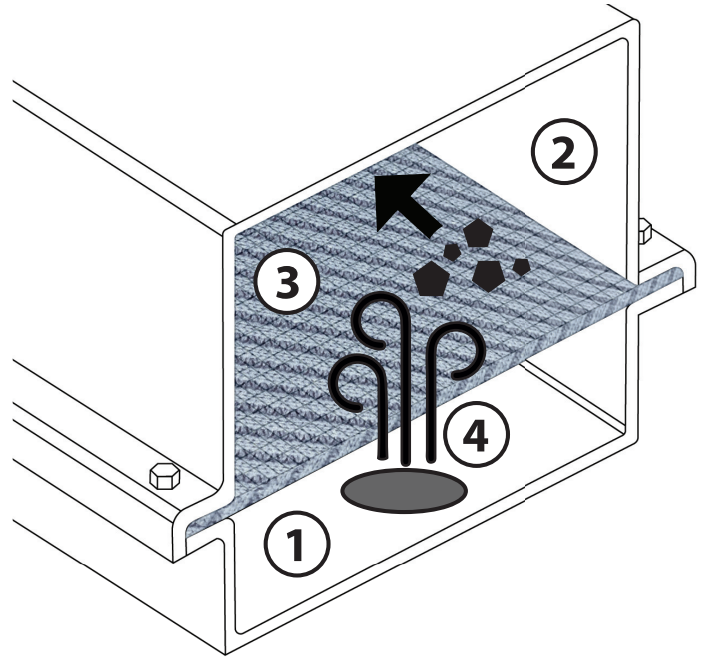


### CONSTRUCTION AND OPERATION OF AIR SLIDES:

The devices consist of a tightly closed lower trough (1) and an upper trough (2). A steel grid is placed between the troughs, with a layer of special aramid or polyester aeration fabric (3) of various thicknesses (so-called diaphragms) on it. Air is supplied to the lower trough from the fan (4).

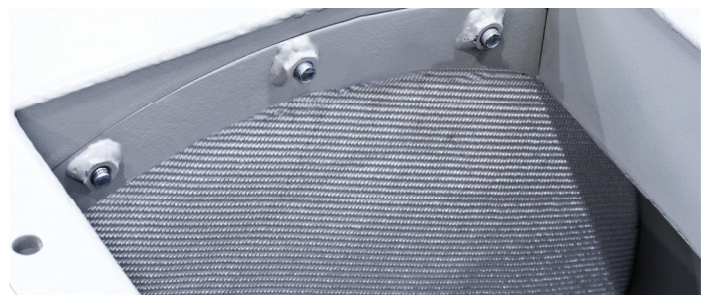
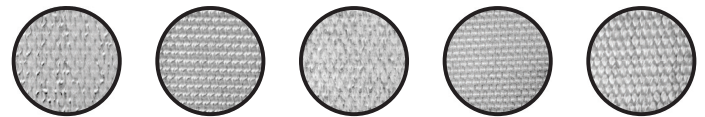
The transported raw material is dosed into the upper trough (onto the fabric). Pneumatic gutter transfer involves introducing pressurized air into the aeration chamber. The overpressure created in this way in the lower trough causes the air to pass through the diaphragm and mix with the raw material (the so-called fluidization phenomenon). The conveyed material flows at an angle of inclination down to the outlet. The gutter operates at an inclination angle of  $4^{\circ}$ - $15^{\circ}$  in relation to the horizontal, this angle depends on the type of raw material being transferred and the type and performance parameters of the aeration fabric used. Passing through the porous partitions, the air disperses and loosens the transported material. Thanks to this, that material becomes fluid and, in accordance with the law of gravity, are sent according to the slope and course of the chute.

It is possible to change direction of the material transported through the gutter into two independent routes. Depending on the required performance, we prefabricate steel gutters according to the individual technological needs of our Clients.



### AERATION CANVAS:

Fabrics with different structures, different thicknesses and different air permeability are available. They can be made of polyester or aramid. In the polyester version, the edge of the fabric is laminated, in the case of aramid canvas, the edges are protected with a high-temperature impregnation.







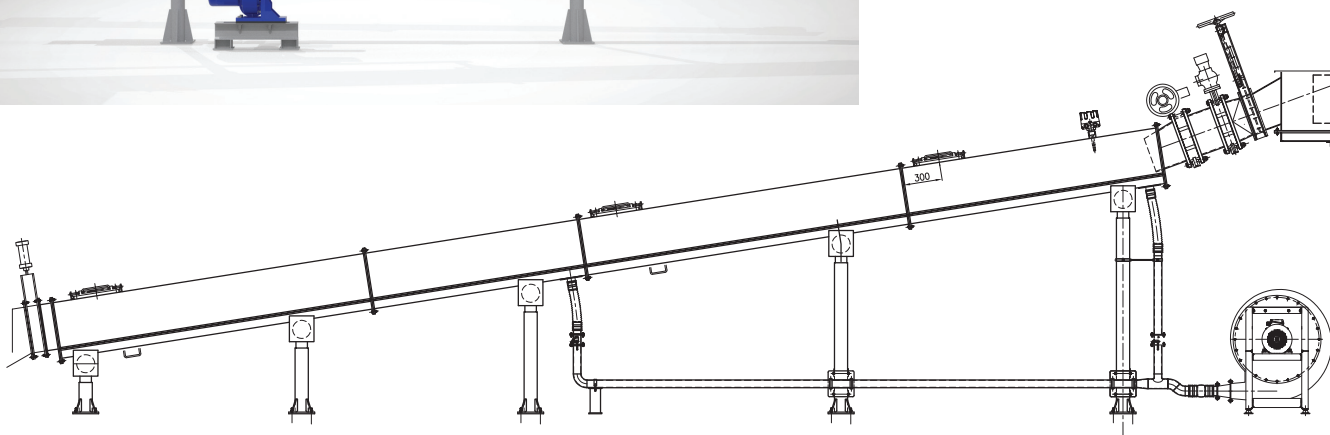
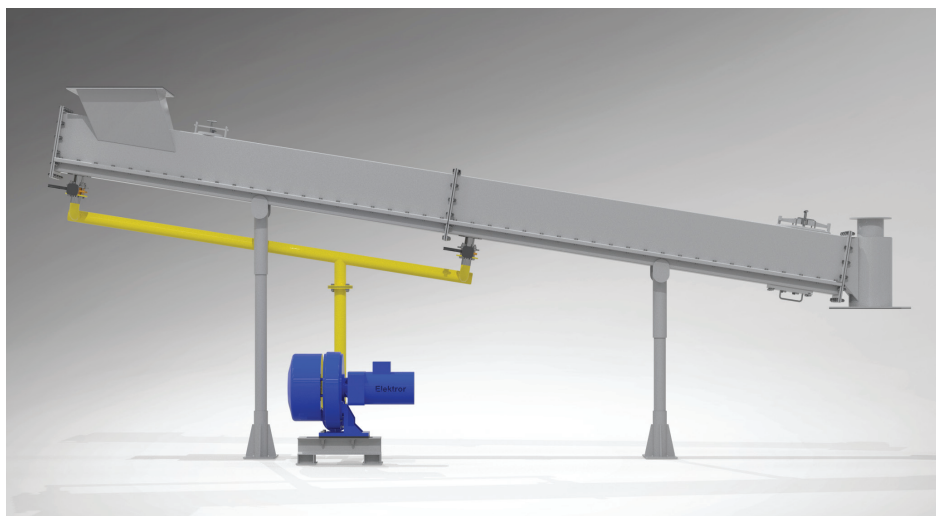
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### ADVANTAGES OF TRANSPORTING BULK MATERIALS USING AN AIR SLIDES:

- no components that wear out quickly, move or rotate in a dusty environment
- a transport system that requires virtually no service or maintenance
- several years of operation without the need for maintenance of the device
- negligible labor consumption during maintenance (usually only replacing the aeration fabric)
- very low power requirement per unit of transported material
- a high degree of dustproofness is maintained when transporting material via a gutter
- low cost of producing one running meter of gutter compared to other transport methods of bulk materials



MODEL:	AIR SLIDE WIDTH:	FAN POWER:	DEVIATION ANGLE:	INDICATIVE EFFICIENCY:
BKAS 200	200 mm	2,5 - 5,5 kW	4.0 ° - 15.0 ° (depending of the transported material type)	15,0 - 65,0 m <sup>3</sup> /h
BKAS 315	315 mm			45,0 - 180,0 m <sup>3</sup> /h
BKAS 400	400 mm			80,0 - 350,0 m <sup>3</sup> /h
BKAS 500	500 mm			125,0 - 500,0 m <sup>3</sup> /h
BKAS 630	630 mm			250,0 - 1 000,0 m <sup>3</sup> /h

