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Conveyor Belts / Pneumatic Conveying

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Air Conveyor Trough

for the horizontal transportation of dusty material

Application

The air conveyor trough is used for horizontal transportation of dusty material. (Semonimal) gravally products cannot be transported. Depending on the material type and conveying capacity, the air conveyor trough must be installed with an angle of inclination between 5° - 7° .



Material

Body: St 1203, AlMg 3 oder Mat. 4541 und 4571

Aeration plate: Synthetic substances or Sinter metall (Pewter bronze or VA)

Sealing: Rubber

Construction

The air conveyor trough consists of an upper- and lower box, which is separated by the porous aeration plate.

The dispersion air is blown into the lower box, while the material to be conveyed is being moved.

Both boxes are firmly screwed together and sealed against each other. The conveyor troughs are manufactured in pieces not longer than 2500 mm max. and can be screwed together to any length.

Appropriate in- and output elements are supplied. An air ventilator is normally used as air source, which is firmly mounted onto the conveyor trough. Each conveyor trough section has a hand inspection part as shown in schematic.

Electrical equipment

As operating drive for the ventilator a special motor is used. Protection and voltage according to request.

Operation data:

Air volume/m²: dependent on trough inclination and porous material

Air pressure: dependent on porous material

Special features

Using the air conveyor trough, a gentle conveying of powdery material is guaranteed. Only limited obsolescence occurs as against mechanical conveying belts like screw conveyors as rotating parts are not used.

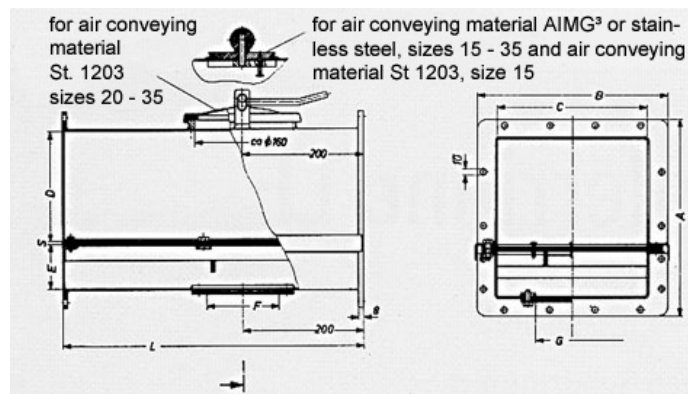
The aeration plate has a long lifetime and can often be regenerated. The hand inspection part allows a controlled operation and maintenance e.g. to clean the trough without dismantling.

Unlimited input- and output end elements can be installed. Conveying length does not matter, as long as enough height is available.

Measurement table

Construction ist subject to change.

Dimension Drawing



Masstabelle

Size	Capacity	Length	Sinter metall							Aeration plate synthetic substances					W.*
	m³/h	L	A	B	C	D	E	S	C	D	E	S	F	G	
10	10	500-2500	183	164	98	66	48	3	98	66	46	5	170	60	
25	25	500-2500	223	214	148	101	53	3	148	101	51	5	150	90	
50	50	500-2500	331	264	198	182	80	3	198	182	78	5	120	120	
80	80	500-2500	331	314	248	182	80	3	248	182	78	5	120	120	
120	120	500-2500	441	374	298	256	106	3	298	256	104	5	120	120	
200	200	500-2500	500	424	348	321	100	3	348	321	98	5	120	120	

W.*: weight kg/m

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